



National Center for Science and
Engineering Statistics

Higher Education Research and Development: Fiscal Year 2023

Data Tables | NSF 25-314 | November 25, 2024

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General Notes

This report provides data from the FY 2023 Higher Education Research and Development (HERD) Survey. The survey is an annual census of institutions that expended at least \$150,000 in separately accounted-for research and development (R&D) in the fiscal year.

The tables present data on R&D expenditures at higher education institutions across all academic disciplines and include R&D expenditures by institution, R&D field, geographic area, source of funds, type of R&D (basic research, applied research, and experimental development), cost categories (salaries, software, equipment, and indirect costs), and trends over time.

The National Center for Science and Engineering Statistics (NCSES) has reviewed this product for unauthorized disclosure of confidential information and approved its release (NCSES-DRN24-058).

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TABLE 1

Higher education R&D expenditures, by source of funds: FYs 1953–2023

(Dollars in millions)

Fiscal year	All R&D expenditures ^a	Source of funds				
		Federal government	State and local government	Institution funds	Business	All other sources ^b
1953 ^c	255	138	37	35	19	26
1954	290	160	42	38	22	28
1955 ^c	312	169	47	41	25	30
1956 ^c	372	213	53	43	29	34
1957 ^c	410	229	60	49	34	38
1958	456	254	68	53	39	42
1959 ^c	526	306	76	58	39	47
1960 ^c	646	405	85	64	40	52
1961 ^c	763	500	95	70	40	58
1962 ^c	904	613	106	79	40	66
1963 ^c	1,081	760	118	89	41	73
1964	1,275	917	132	103	40	83
1965 ^c	1,474	1,073	143	124	41	93
1966	1,715	1,261	156	148	42	108
1967 ^c	1,921	1,409	164	181	48	119
1968	2,149	1,572	172	218	55	132
1969 ^c	2,225	1,600	197	223	60	145
1970	2,335	1,647	219	243	61	165
1971 ^c	2,500	1,724	255	274	70	177
1972	2,630	1,795	270	305	74	187
1973	2,884	1,985	295	318	84	202
1974	3,023	2,032	307	370	96	218
1975	3,409	2,288	332	417	113	259
1976	3,729	2,512	364	446	123	285
1977	4,067	2,726	374	514	139	314
1978 ^d	4,625	3,059	414	623	170	359
1979	5,366	3,598	472	735	193	368
1980	6,063	4,098	491	835	236	403
1981	6,847	4,571	546	1,004	291	435
1982	7,324	4,768	616	1,111	337	491
1983	7,882	4,989	626	1,302	389	576
1984	8,620	5,431	690	1,411	475	613
1985	9,687	6,064	752	1,617	560	694
1986	10,928	6,712	915	1,869	700	732
1987	12,153	7,343	1,023	2,168	790	828
1988	13,463	8,193	1,106	2,356	872	935
1989	14,979	8,993	1,224	2,698	994	1,071
1990	16,290	9,640	1,324	3,006	1,127	1,191
1991	17,589	10,238	1,474	3,367	1,204	1,307
1992	18,821	11,095	1,491	3,548	1,279	1,409
1993	19,954	11,960	1,559	3,589	1,360	1,486
1994	21,035	12,654	1,555	3,828	1,423	1,575
1995	22,179	13,337	1,690	4,048	1,489	1,614
1996	23,055	13,847	1,812	4,172	1,606	1,619
1997	24,380	14,321	1,910	4,699	1,737	1,712
1998	25,867	15,159	1,945	5,004	1,889	1,871
1999	27,544	16,112	2,022	5,382	2,033	1,995
2000	30,084	17,548	2,200	5,925	2,156	2,255

TABLE 1

Higher education R&D expenditures, by source of funds: FYs 1953–2023

(Dollars in millions)

Fiscal year	All R&D expenditures ^a	Source of funds				
		Federal government	State and local government	Institution funds	Business	All other sources ^b
2001	32,801	19,227	2,320	6,614	2,218	2,422
2002	36,383	21,856	2,504	7,133	2,191	2,698
2003 ^e	41,470	25,307	2,645	7,663	2,161	2,856
2004 ^e	44,839	28,304	2,879	7,752	2,129	2,851
2005 ^e	47,535	29,957	2,940	8,265	2,291	3,092
2006 ^e	49,645	30,909	2,966	9,062	2,401	3,198
2007 ^e	51,590	31,241	3,151	9,718	2,675	3,521
2008 ^e	54,114	32,101	3,438	10,378	2,869	3,916
2009 ^e	57,288	33,443	3,647	11,148	3,197	4,294
2010	61,287	37,478	3,887	11,943	3,202	4,777
2011	65,274	40,768	3,851	12,580	3,183	4,892
2012	65,873	40,217	3,744	13,625	3,279	5,007
2013	67,109	39,510	3,706	14,938	3,515	5,440
2014	67,313	38,032	3,916	15,743	3,734	5,889
2015	68,664	37,911	3,864	16,608	4,009	6,273
2016	71,880	38,857	4,053	17,911	4,220	6,839
2017	75,293	40,319	4,187	18,886	4,440	7,462
2018	79,176	41,934	4,326	20,220	4,726	7,970
2019	83,646	44,539	4,520	21,114	5,066	8,407
2020	86,444	46,182	4,604	22,023	5,190	8,446
2021	89,840	49,193	4,752	22,479	5,123	8,293
2022	97,835	54,056	4,918	24,537	5,707	8,617
2023	108,841	59,679	5,447	27,702	6,230	9,782

S&E = science and engineering.

^a Totals for FYs 1953–2002 represent R&D expenditures in S&E fields only. From FY 2003 through FY 2009, some institution totals for all R&D expenditures may be lower-bound estimates because the National Center for Science and Engineering Statistics did not attempt to estimate for nonresponse on the non-S&E R&D expenditures item prior to FY 2010.

^b Prior to FY 2010, R&D expenditures from nonprofit organizations were collected under all other sources. Beginning in FY 2010, these data were collected separately, and FY 2023 data included \$6,685 million in R&D expenditures from nonprofit sources.

^c Data are estimated based on data collected in surrounding years. Between FY 1953 and FY 1971, surveys were conducted only in years FY 1954, FY 1958, FY 1964, FY 1966, FY 1968, and FY 1970.

^d FY 1978 data are estimated based on data collected from doctorate-granting institutions only.

^e Source of fund detail data do not sum to total for FYs 2003–09 because data by source were collected for S&E fields only. Total non-S&E expenditures were collected in a separate item.

Note(s):

Because of rounding, detail may not add to total.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 2

Higher education R&D expenditures, by source of funds and survey form: FYs 2010–23

(Dollars in thousands)

Survey form and fiscal year	All R&D expenditures	Source of funds								
		Federal government	State and local government	Institution funds				Business	Nonprofit organizations	All other sources
				Total	Institutionally financed research	Cost sharing	Unrecovered indirect costs			
All institutions										
2010	61,286,610	37,477,582	3,887,106	11,942,532	6,198,189	1,083,275	4,661,068	3,201,904	3,729,655	1,047,831
2011	65,274,393	40,768,251	3,851,323	12,580,320	6,816,187	1,153,646	4,610,487	3,182,671	3,853,950	1,037,878
2012	65,872,505	40,216,862	3,743,834	13,625,176	7,723,845	1,289,013	4,612,318	3,279,179	4,037,021	970,433
2013	67,109,094	39,510,280	3,705,597	14,938,337	8,906,778	1,325,008	4,706,551	3,514,750	3,902,646	1,537,484
2014	67,313,484	38,031,837	3,915,607	15,743,421	9,636,685	1,342,772	4,763,964	3,733,688	3,977,753	1,911,178
2015	68,664,244	37,910,989	3,864,085	16,607,970	10,445,258	1,322,595	4,840,117	4,008,532	4,235,520	2,037,148
2016	71,879,960	38,856,973	4,053,309	17,910,816	11,446,401	1,426,997	5,037,418	4,220,138	4,634,661	2,204,063
2017	75,293,270	40,319,095	4,186,522	18,885,880	12,130,933	1,562,031	5,192,916	4,439,734	5,159,543	2,302,496
2018	79,176,358	41,933,962	4,326,325	20,220,107	13,195,517	1,519,609	5,504,981	4,726,448	5,458,734	2,510,782
2019	83,645,800	44,538,575	4,520,341	21,114,079	14,010,054	1,566,169	5,537,856	5,065,828	5,705,278	2,701,699
2020	86,444,096	46,182,382	4,603,528	22,022,579	14,645,379	1,635,822	5,741,378	5,189,504	5,758,150	2,687,953
2021	89,839,693	49,192,709	4,752,249	22,478,596	14,972,041	1,627,362	5,879,193	5,122,749	5,605,707	2,687,683
2022	97,835,067	54,056,186	4,918,337	24,537,136	16,655,316	1,708,633	6,173,187	5,706,822	5,978,783	2,637,803
2023	108,841,148	59,678,935	5,447,408	27,702,412	19,207,031	1,720,637	6,774,744	6,230,371	6,684,772	3,097,250
Short form institutions ^a										
2012	143,498	74,639	10,263	37,778	32,515	2,474	2,789	5,207	14,611	1,000
2013	131,528	64,349	9,175	37,529	32,116	2,360	3,053	4,221	14,000	2,254
2014	152,056	70,719	12,584	45,707	40,561	1,720	3,426	5,852	13,826	3,368
2015	144,282	64,187	9,378	45,816	41,178	1,228	3,410	5,695	15,036	4,170
2016	142,766	68,991	9,893	39,967	34,391	2,182	3,394	5,696	14,099	4,120
2017	143,880	71,040	11,413	36,930	32,208	1,890	2,832	4,479	16,088	3,930
2018	150,382	73,579	13,486	41,807	36,360	2,356	3,091	5,235	13,013	3,262
2019	155,370	78,214	9,789	43,144	37,034	1,927	4,183	4,481	13,615	6,127
2020	137,990	75,512	8,834	32,802	27,081	2,255	3,466	4,250	13,242	3,350
2021	138,803	74,859	9,296	33,655	28,309	1,985	3,361	3,347	13,833	3,813
2022	165,490	81,289	10,801	43,871	36,701	2,594	4,576	8,095	16,447	4,987
2023	160,140	74,942	9,842	47,583	40,833	2,651	4,099	9,243	13,760	4,770
Standard form institutions										
2010	61,286,610	37,477,582	3,887,106	11,942,532	6,198,189	1,083,275	4,661,068	3,201,904	3,729,655	1,047,831
2011	65,274,393	40,768,251	3,851,323	12,580,320	6,816,187	1,153,646	4,610,487	3,182,671	3,853,950	1,037,878
2012	65,729,007	40,142,223	3,733,571	13,587,398	7,691,330	1,286,539	4,609,529	3,273,972	4,022,410	969,433
2013	66,977,566	39,445,931	3,696,422	14,900,808	8,874,662	1,322,648	4,703,498	3,510,529	3,888,646	1,535,230
2014	67,161,428	37,961,118	3,903,023	15,697,714	9,596,124	1,341,052	4,760,538	3,727,836	3,963,927	1,907,810

TABLE 2

Higher education R&D expenditures, by source of funds and survey form: FYs 2010–23

(Dollars in thousands)

Survey form and fiscal year	All R&D expenditures	Source of funds								
		Federal government	State and local government	Institution funds				Business	Nonprofit organizations	All other sources
				Total	Institutionally financed research	Cost sharing	Unrecovered indirect costs			
2015	68,519,962	37,846,802	3,854,707	16,562,154	10,404,080	1,321,367	4,836,707	4,002,837	4,220,484	2,032,978
2016	71,737,194	38,787,982	4,043,416	17,870,849	11,412,010	1,424,815	5,034,024	4,214,442	4,620,562	2,199,943
2017	75,149,390	40,248,055	4,175,109	18,848,950	12,098,725	1,560,141	5,190,084	4,435,255	5,143,455	2,298,566
2018	79,025,976	41,860,383	4,312,839	20,178,300	13,159,157	1,517,253	5,501,890	4,721,213	5,445,721	2,507,520
2019	83,490,430	44,460,361	4,510,552	21,070,935	13,973,020	1,564,242	5,533,673	5,061,347	5,691,663	2,695,572
2020	86,306,106	46,106,870	4,594,694	21,989,777	14,618,298	1,633,567	5,737,912	5,185,254	5,744,908	2,684,603
2021	89,700,890	49,117,850	4,742,953	22,444,941	14,943,732	1,625,377	5,875,832	5,119,402	5,591,874	2,683,870
2022	97,669,577	53,974,897	4,907,536	24,493,265	16,618,615	1,706,039	6,168,611	5,698,727	5,962,336	2,632,816
2023	108,681,008	59,603,993	5,437,566	27,654,829	19,166,198	1,717,986	6,770,645	6,221,128	6,671,012	3,092,480

^a Beginning with FY 2012, institutions reporting less than \$1 million in total R&D expenditures completed a shorter version of the survey questionnaire. Prior to FY 2012, all institutions completed the standard form survey questionnaire.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 3

Higher education R&D expenditures, by source of funds, R&D field, and survey population: FY 2023

(Dollars in thousands)

Source of funds and R&D field	All institutions	Survey population	
		Short form	Standard form
All R&D expenditures	108,841,148	160,140	108,681,008
Federal government	59,678,935	74,942	59,603,993
State and local government	5,447,408	9,842	5,437,566
Institution funds	27,702,412	47,583	27,654,829
Institutionally financed research	19,207,031	40,833	19,166,198
Cost sharing	1,720,637	2,651	1,717,986
Unrecovered indirect costs	6,774,744	4,099	6,770,645
Business	6,230,371	9,243	6,221,128
Nonprofit organizations	6,684,772	13,760	6,671,012
All other sources	3,097,250	4,770	3,092,480
Science	84,421,994	114,423	84,307,571
Computer and information sciences	3,625,026	7,678	3,617,348
Geosciences, atmospheric sciences, and ocean sciences	4,040,379	7,845	4,032,534
Life sciences	62,256,863	52,503	62,204,360
Mathematics and statistics	1,064,557	3,857	1,060,700
Physical sciences	6,965,037	20,268	6,944,769
Psychology	1,641,784	3,955	1,637,829
Social sciences	3,628,972	13,745	3,615,227
Sciences nec	1,199,376	4,572	1,194,804
Engineering	17,475,186	6,740	17,468,446
Non-S&E	6,943,968	38,977	6,904,991

nec = not elsewhere classified. S&E = science and engineering.

Note(s):

Institutions are included in the short form population if they reported less than \$1 million in total R&D expenditures during the previous fiscal year.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 4

Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, by source of funds and survey population: FY 2023

(Dollars in thousands)

Source	All institutions	Survey population	
		Short form	Standard form
All R&D received	5,295,052	18,865	5,276,187
Federally financed	4,835,948	17,078	4,818,870
Nonfederally financed	459,104	1,787	457,317
All R&D passed through	5,190,317	2,850	5,187,467
Federally financed	4,658,943	1,807	4,657,136
Nonfederally financed	531,374	1,043	530,331

Note(s):

Institutions are included in the short form population if they reported less than \$1 million in total R&D expenditures during the previous fiscal year.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 5
Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
All institutions	-	108,841,148	59,678,935	5,447,408	27,702,412	6,230,371	6,684,772	3,097,250
Johns Hopkins U. ^a	1	3,801,585	3,324,551	10,271	164,758	126,685	168,401	6,919
U. California, San Francisco	2	2,046,539	858,066	45,056	505,006	143,206	313,964	181,241
U. Pennsylvania	3	1,953,617	936,469	27,849	642,815	203,003	134,455	9,026
U. Michigan, Ann Arbor	4	1,925,875	1,041,430	1,934	679,205	113,903	80,894	8,509
U. Washington, Seattle	5	1,734,091	1,188,836	33,833	125,390	71,487	260,986	53,559
U. Wisconsin-Madison	6	1,731,949	816,814	125,524	542,782	46,133	153,068	47,628
U. California, Los Angeles	7	1,721,665	878,571	105,632	354,575	109,531	219,227	54,129
U. California, San Diego	8	1,705,410	1,083,790	70,790	250,973	96,416	109,398	94,043
U. North Carolina, Chapel Hill	9	1,549,617	907,710	61,576	407,817	58,179	92,573	21,762
Stanford U.	10	1,537,846	943,669	31,872	189,108	144,300	219,578	9,319
Duke U.	11	1,507,996	974,202	773	191,004	219,452	96,327	26,238
New York U.	12	1,457,424	787,204	9,599	327,502	73,289	118,376	141,454
Cornell U.	13	1,451,971	705,132	95,202	276,682	59,081	129,082	186,792
Ohio State U.	14	1,449,188	694,647	64,139	424,124	155,194	63,964	47,120
Harvard U.	15	1,435,218	639,953	4,250	488,906	71,497	202,605	28,007
Georgia Institute of Technology	16	1,405,080	1,083,903	128,291	61,494	94,476	31,073	5,843
U. Pittsburgh, Pittsburgh	17	1,398,078	916,735	11,421	315,634	43,372	64,516	46,400
U. Maryland ^b	18	1,385,302	825,546	57,007	401,833	37,011	54,377	9,528
Columbia U. in the City of New York	19	1,341,952	988,670	6,298	119,863	91,828	132,930	2,363
Yale U.	20	1,326,807	741,198	1,710	404,706	80,221	93,363	5,609
U. Minnesota, Twin Cities	21	1,320,183	702,483	76,395	386,198	55,081	40,764	59,262
Texas A&M U., College Station and Health Science Center	22	1,277,814	546,481	251,300	353,916	37,390	53,710	35,017
U. Texas M. D. Anderson Cancer Center	23	1,255,190	259,285	300,907	256,545	248,261	38,163	152,029
Vanderbilt U. and Vanderbilt U. Medical Center	24	1,253,156	751,019	3,821	357,729	86,265	39,591	14,731
U. Florida	25	1,250,201	529,391	193,910	389,065	42,055	58,010	37,770
Pennsylvania State U., University Park and Hershey Medical Center	26	1,206,793	781,303	49,379	265,205	29,300	29,539	52,067
Washington U., Saint Louis	27	1,168,861	758,464	571	188,985	129,843	89,041	1,957
U. Southern California	28	1,154,804	683,819	11,881	239,488	93,933	72,744	52,939
Northwestern U.	29	1,114,269	678,062	586	303,778	67,114	58,196	6,533
Emory U.	30	1,094,328	664,370	244	279,302	64,772	81,897	3,743
U. California, Berkeley	31	1,076,754	496,298	47,005	242,494	75,493	188,887	26,577
U. Texas, Austin	32	1,035,838	621,223	37,601	235,987	79,753	52,764	8,510
Massachusetts Institute of Technology	33	1,000,081	559,766	2,079	73,497	176,277	112,591	75,871

TABLE 5

Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Icahn School of Medicine at Mount Sinai	34	972,476	658,916	8,359	147,069	80,437	62,202	15,493
U. California, Davis	35	962,399	494,847	78,096	244,082	55,403	48,643	41,328
U. Arizona	36	955,424	434,700	37,173	304,671	25,328	31,154	122,398
Arizona State U.	37	903,779	340,880	102,208	310,531	24,693	99,781	25,686
Indiana U., Bloomington	38	853,056	432,223	5,804	303,085	36,938	69,773	5,233
Baylor C. of Medicine	39	847,305	440,345	34,061	282,695	33,100	57,104	0
Purdue U., West Lafayette	40	844,570	385,738	42,119	267,313	78,298	31,453	39,649
Michigan State U.	41	844,076	435,564	46,353	300,588	18,603	22,693	20,275
Rutgers, State U. New Jersey, New Brunswick	42	831,719	400,930	117,514	207,008	37,495	64,220	4,552
U. Illinois, Urbana-Champaign	43	821,023	460,491	24,473	234,686	44,275	35,768	21,330
U. Texas Southwestern Medical Center	44	800,391	336,126	95,710	191,493	46,325	66,076	64,661
U. Alabama, Birmingham	45	780,479	451,880	14,884	184,658	74,171	36,533	18,353
Boston U.	46	773,200	409,551	500	230,370	23,362	93,532	15,885
U. Utah	47	723,713	416,079	4,670	214,320	48,761	35,413	4,470
U. Virginia, Charlottesville	48	714,457	354,748	13,101	214,946	31,588	31,392	68,682
U. Cincinnati	49	698,642	391,943	7,782	185,586	49,685	44,304	19,342
U. Colorado Anschutz Medical Campus	50	686,026	474,523	28,973	52,000	59,129	51,546	19,855
U. Iowa	51	662,134	331,824	7,627	228,803	34,039	24,365	35,476
U. Colorado Boulder	52	651,924	538,715	5,264	42,462	15,045	18,275	32,163
North Carolina State U.	53	633,251	279,179	134,547	150,288	64,505	4,472	260
U. Chicago	54	628,302	476,689	3,902	46,651	44,990	53,670	2,400
U. Nebraska, Lincoln and Medical Center ^c	55	617,372	280,120	76,042	177,595	32,720	27,961	22,934
U. California, Irvine	56	609,614	335,393	19,360	132,261	46,182	33,514	42,904
Virginia Polytechnic Institute and State U.	57	598,113	282,152	78,279	179,590	35,761	13,021	9,310
U. Georgia	58	570,956	221,804	61,887	257,757	12,988	11,982	4,538
Case Western Reserve U.	59	553,740	431,736	11,202	80,506	4,659	23,331	2,306
Oregon Health and Science U.	60	517,742	374,043	1,348	48,537	53,139	40,419	256
Princeton U.	61	513,365	219,600	1,252	144,341	20,077	76,101	51,994
U. Miami	62	509,951	291,783	16,251	128,438	48,022	25,118	339
U. Kentucky	63	504,005	265,543	34,829	151,066	11,737	12,511	28,319
Colorado State U., Fort Collins	64	498,073	354,401	22,951	75,358	13,597	21,049	10,717
Uniformed Services U. of the Health Sciences	65	496,441	403,671	0	88,281	0	4,489	0
Scripps Research Institute	66	494,946	278,099	3,331	146,451	31,164	35,901	0
U. Illinois, Chicago	67	492,936	274,424	9,293	158,846	9,469	30,905	9,999

TABLE 5

Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
California Institute of Technology	68	490,672	310,519	3,870	53,950	35,867	29,024	57,442
Carnegie Mellon U.	69	484,757	279,954	3,623	128,082	47,152	15,669	10,277
U. Rochester	70	481,227	368,190	3,666	57,142	30,075	16,014	6,140
Virginia Commonwealth U.	71	479,930	184,852	47,846	207,023	22,681	17,458	70
SUNY, U. Buffalo	72	471,569	257,857	32,647	124,197	20,309	29,292	7,267
U. Kansas	73	466,222	211,111	44,851	152,432	30,988	13,436	13,404
U. Missouri, Columbia	74	462,435	217,091	65,868	146,211	15,816	11,225	6,224
U. South Florida	75	461,390	242,224	25,735	160,703	13,502	16,015	3,211
U. Oklahoma, Norman and Health Science Center	76	436,964	219,964	22,816	169,611	12,753	10,096	1,724
U. Delaware	77	428,128	202,469	13,161	188,645	5,204	8,191	10,458
Iowa State U.	78	420,823	195,394	34,183	156,282	21,246	13,084	634
Florida State U.	79	414,463	195,323	36,977	166,809	5,614	3,466	6,274
Utah State U.	80	401,437	322,336	27,831	30,207	9,204	813	11,046
U. Connecticut	81	390,165	238,701	5,973	117,252	11,251	12,293	4,695
Rockefeller U.	82	385,168	101,422	101	244,237	3,089	35,953	366
Louisiana State U., Baton Rouge	83	384,268	127,243	73,829	156,614	14,807	6,295	5,480
Washington State U.	84	378,744	207,086	61,333	84,199	12,077	12,411	1,638
U. Texas Health Science Center, Houston	85	374,105	197,759	48,815	66,008	17,466	34,341	9,716
Dartmouth C. and Dartmouth Hitchcock Medical Center	86	366,856	168,740	46	166,114	2,415	20,865	8,676
Wichita State U.	87	366,848	142,371	19,008	33,911	171,010	504	44
George Washington U.	88	360,260	162,892	1,890	141,746	5,655	30,534	17,543
Brown U.	89	353,591	239,744	32	63,031	6,120	34,721	9,943
Auburn U., Auburn	90	349,273	125,783	34,950	158,454	11,570	5,092	13,424
Medical C. Wisconsin	91	346,691	155,403	754	113,726	38,419	33,075	5,314
U. Tennessee, Knoxville	92	338,847	153,637	13,175	151,783	7,899	7,696	4,657
Oregon State U.	93	337,985	222,169	57,839	30,449	9,154	3,260	15,114
Georgetown U.	94	337,006	127,370	1,719	87,408	17,345	68,114	35,050
Albert Einstein C. of Medicine	95	336,238	230,151	2,032	81,552	5,637	16,866	0
Medical U. South Carolina	96	333,826	168,957	7,944	110,106	26,042	8,152	12,625
U. Notre Dame	97	331,943	147,985	712	115,906	14,640	25,449	27,251
U. Massachusetts, Medical School	98	326,731	223,490	2,975	50,479	21,942	20,295	7,550
SUNY, Stony Brook U.	99	324,531	192,448	15,436	92,936	10,779	10,329	2,603
Mississippi State U.	100	319,684	150,804	92,674	63,773	3,140	7,858	1,435
U. New Mexico	101	316,026	205,351	7,072	79,298	5,469	16,855	1,981

TABLE 5

Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Hawaii, Manoa	102	313,143	192,205	17,555	78,084	3,390	20,472	1,437
Wake Forest U.	103	308,972	204,713	7,673	26,886	33,508	23,868	12,324
Florida International U.	104	306,434	156,381	21,887	115,737	3,019	7,971	1,439
U. California, Santa Barbara	105	305,483	179,896	7,230	65,230	14,790	27,455	10,882
Temple U.	106	292,029	154,516	6,867	81,497	25,150	16,517	7,482
Northeastern U.	107	288,558	186,013	3,336	68,663	11,524	18,604	418
Woods Hole Oceanographic Institution	108	287,825	238,554	882	15,591	5,431	10,476	16,891
Clemson U.	109	286,503	129,955	29,268	100,954	21,139	5,110	77
SUNY, Polytechnic Institute	110	284,677	34,393	31,886	25,429	188,351	181	4,437
U. Texas Health Science Center, San Antonio	111	281,078	143,730	30,582	70,676	10,393	25,514	183
U. Massachusetts, Amherst	112	268,657	138,849	11,465	90,429	9,220	12,373	6,321
U. South Carolina, Columbia	113	262,207	124,330	13,916	110,716	3,629	7,960	1,656
Tulane U.	114	258,439	152,468	4,121	60,978	8,428	16,709	15,735
Thomas Jefferson U.	115	258,345	110,366	10,315	76,704	21,845	13,815	25,300
Rice U.	116	255,115	119,853	9,801	78,447	7,506	33,684	5,824
George Mason U.	117	252,239	125,437	4,311	66,769	8,346	40,831	6,545
Wayne State U.	118	250,911	128,521	6,525	81,136	5,339	25,618	3,772
Tufts U.	119	247,276	154,458	2,328	33,998	15,988	29,439	11,065
U. Central Florida	120	247,259	124,256	5,893	99,427	9,659	3,642	4,382
West Virginia U.	121	246,173	114,708	11,687	92,314	4,977	2,874	19,613
Texas Tech U.	122	240,107	58,922	28,095	122,202	15,461	14,994	433
Georgia State U.	123	237,493	91,331	4,392	125,011	3,269	12,131	1,359
U. Vermont	124	233,806	128,645	632	85,988	4,622	7,305	6,614
U. Texas Medical Branch	125	233,192	150,272	7,479	58,807	6,138	10,496	0
U. Houston	126	231,942	99,450	28,641	84,315	8,565	6,492	4,479
Montana State U., Bozeman	127	229,682	142,965	18,379	59,067	956	4,403	3,912
U. Dayton	128	228,723	216,729	1,274	861	8,193	1,022	644
Oklahoma State U., Stillwater	129	226,498	64,098	24,323	124,314	12,528	773	462
U. Louisiana, Lafayette	130	225,924	84,898	11,605	46,907	82,197	317	0
U. New Hampshire	131	223,683	152,377	1,031	52,786	8,471	7,984	1,034
U. Arkansas, Fayetteville	132	221,525	82,164	41,687	72,849	7,368	7,514	9,943
U. Louisville	133	220,568	100,890	8,924	73,255	9,580	6,261	21,658
U. Alaska, Fairbanks	134	218,041	156,702	7,674	42,733	5,505	2,814	2,613
Kansas State U.	135	217,992	82,610	43,122	73,427	7,647	9,860	1,326

TABLE 5

Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. California, Riverside	136	214,802	120,524	10,655	55,114	7,288	10,826	10,395
U. Arkansas for Medical Sciences	137	209,409	94,483	13,854	84,563	5,274	6,102	5,133
U. California, Santa Cruz	138	203,883	112,847	6,863	51,368	7,591	18,454	6,760
North Dakota State U.	139	190,330	53,339	51,819	76,422	1,292	1,215	6,243
U. Maine	140	188,690	92,870	17,694	67,941	5,043	3,260	1,882
U. Nevada, Reno	141	188,505	83,603	7,744	83,470	2,666	1,926	9,096
U. Alabama, Tuscaloosa	142	184,880	86,244	16,660	77,554	1,973	1,753	696
Syracuse U.	143	183,850	46,595	10,706	108,685	9,170	8,570	124
U. North Dakota	144	182,195	65,890	46,885	50,685	17,438	955	342
U. Mississippi	145	172,176	85,186	10,670	68,074	3,311	4,583	352
Drexel U.	146	169,583	108,724	4,464	43,396	1,727	8,475	2,797
U. Oregon	147	164,500	100,265	1,674	19,590	443	6,634	35,894
U. Alabama, Huntsville	148	163,428	126,040	5,071	30,635	731	689	262
New Jersey Institute of Technology	149	161,078	70,080	19,994	64,230	1,385	1,616	3,773
U. Texas, San Antonio	150	158,453	58,171	21,583	67,694	5,971	1,988	3,046
San Diego State U.	151	158,013	68,045	6,745	77,130	469	3,666	1,958
U. Wyoming	152	150,124	68,467	7,464	67,771	2,848	1,934	1,640
U. Texas, Arlington	153	147,265	56,337	28,343	50,435	5,284	4,708	2,158
U. Texas, Dallas	154	146,779	66,127	13,085	38,169	12,518	16,383	497
U. Texas, El Paso	155	145,724	70,873	16,687	44,987	1,268	1,770	10,139
U. Maryland, Baltimore County	156	144,262	86,573	8,087	42,409	2,469	3,332	1,392
U. Rhode Island	157	144,013	102,056	6,615	29,165	2,094	3,441	642
SUNY, Binghamton U.	158	141,685	31,601	6,115	96,213	4,067	242	3,447
SUNY, U. Albany	159	141,671	62,935	1,019	69,881	927	4,707	2,202
Texas State U.	160	141,291	44,297	4,667	83,686	1,378	7,106	157
Augusta U.	161	139,121	64,410	214	62,558	4,396	6,836	707
Brigham Young U., Provo	162	137,748	31,216	1,145	99,661	2,980	2,649	97
U. Idaho	163	135,901	61,531	47,894	20,377	1,846	852	3,401
U. Montana, Missoula	164	133,958	75,490	1,511	53,689	220	2,498	550
Rush U.	165	132,394	93,180	2,208	12,316	16,533	8,157	0
U. Tennessee, Health Science Center	166	130,472	70,676	6,816	34,783	4,183	6,814	7,200
New Mexico State U.	167	126,337	71,764	24,741	18,791	1,873	3,039	6,129
Rensselaer Polytechnic Institute	168	121,706	56,445	3,289	45,192	10,959	3,123	2,698
New Mexico Institute of Mining and Technology	169	118,735	100,873	10,189	3,375	3,346	324	628

TABLE 5
Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Cold Spring Harbor Laboratory	170	117,483	54,123	209	38,367	3,914	20,870	0
U. Massachusetts, Lowell	171	117,336	61,413	4,420	39,726	7,554	2,527	1,696
U. North Texas, Denton	172	106,665	30,017	5,695	63,577	1,907	2,170	3,299
Colorado School of Mines	173	104,297	68,795	1,804	14,035	11,399	3,388	4,876
Michigan Technological U.	174	103,819	52,102	1,236	40,859	6,632	968	2,022
Brandeis U.	175	103,653	46,654	406	41,318	661	10,730	3,884
Touro U., New York	176	100,547	40,008	0	7,152	53,387	0	0
U. Memphis	177	100,042	26,913	9,680	58,132	1,839	3,273	205
U. Nevada, Las Vegas	178	98,751	38,815	2,536	51,945	1,599	1,096	2,760
U. North Texas, Health Science Center	179	94,652	77,660	3,180	11,773	847	1,003	189
U. North Carolina, Charlotte	180	92,027	33,784	1,922	52,624	3,136	553	8
Cleveland State U.	181	87,941	56,550	2,913	19,420	3,494	5,423	141
Indiana U.-Purdue U., Indianapolis	182	87,648	39,869	3,029	34,236	3,434	6,776	304
Saint Louis U.	183	85,921	44,157	646	21,971	5,412	13,484	251
Howard U.	184	84,756	47,662	2,840	22,461	4,552	5,140	2,101
San Jose State U.	185	83,406	31,780	7,116	38,582	2,101	2,478	1,349
U. Texas Rio Grande Valley	186	82,444	25,068	4,367	37,248	569	15,016	176
Baylor U.	187	82,074	17,147	2,879	45,076	3,460	12,667	845
William & Mary	188	81,815	32,631	3,882	35,413	1,174	5,385	3,330
Boston C.	189	81,425	39,356	2,517	18,254	974	19,273	1,051
Van Andel Research Institute	190	80,748	30,934	2,597	36,082	155	4,149	6,831
Florida Atlantic U.	191	77,593	35,108	8,511	23,101	2,611	7,308	954
Northern Arizona U.	192	77,533	50,491	9,030	15,566	1,023	1,250	173
Naval Postgraduate School	193	77,364	62,715	0	13,261	654	67	667
American U.	194	76,041	17,462	2,193	44,220	603	9,510	2,053
U. Southern Mississippi	195	75,034	48,374	13,504	12,285	372	499	0
Rochester Institute of Technology	196	72,405	37,334	9,828	19,161	3,084	2,178	820
South Dakota State U.	197	71,340	28,897	17,795	6,156	1,432	3,251	13,809
Old Dominion U.	198	71,334	31,104	13,535	23,954	387	1,915	439
U. Massachusetts, Boston	199	70,978	27,098	7,176	27,225	2,400	6,733	346
Louisiana State U., Health Sciences Center, New Orleans	200	68,707	35,933	447	24,332	3,478	4,235	282
U. Toledo	201	67,656	37,872	1,615	22,250	2,292	3,230	397
East Carolina U.	202	67,082	30,851	371	28,495	4,648	2,267	450
Worcester Polytechnic Institute	203	66,353	37,736	2,141	20,202	4,072	1,380	822

TABLE 5

Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Florida A&M U.	204	65,159	54,363	2,851	6,503	586	856	0
U. California, Office of the President	205	63,629	25	41,345	22,143	0	0	116
CUNY, City C.	206	63,159	38,669	11,846	10,996	223	1,047	378
North Carolina A&T State U.	207	62,307	37,152	2,075	21,880	628	292	280
U. California, Merced	208	62,279	28,576	6,985	20,709	1,294	2,464	2,251
Missouri U. of Science and Technology	209	61,496	32,457	682	17,847	3,907	1,037	5,566
U. Puerto Rico, Medical Sciences Campus	210	61,235	46,789	406	10,781	3,259	0	0
U. Wisconsin-Milwaukee	211	60,712	25,612	17,207	13,084	1,431	1,450	1,928
Stevens Institute of Technology	212	60,685	44,036	2,069	9,833	3,397	929	421
Ohio U.	213	59,877	21,919	1,041	31,828	3,767	1,011	311
Southern Methodist U.	214	59,749	19,986	1,393	33,204	1,601	3,399	166
Kent State U.	215	58,984	17,959	1,021	37,300	753	1,872	79
Southern Illinois U., Carbondale	216	58,291	17,209	3,522	29,972	6,916	672	0
Morehouse School of Medicine	217	57,125	41,069	987	10,710	0	4,359	0
Air Force Institute of Technology	218	56,848	45,087	0	11,659	102	0	0
Lehigh U.	219	56,301	39,909	2,479	11,921	893	1,081	18
U. Missouri, Kansas City	220	54,565	28,115	336	20,030	582	934	4,568
CUNY, Graduate Center	221	54,089	2,792	428	45,484	127	4,450	808
U. Denver	222	53,484	33,148	4,909	5,028	1,978	7,038	1,383
U. Maryland Center for Environmental Science	223	53,233	15,378	26,509	9,309	198	1,563	276
SUNY, Upstate Medical U.	224	53,219	30,069	2,231	11,303	6,335	2,054	1,227
U. South Alabama	225	53,182	28,637	683	19,291	1,300	2,422	849
Boise State U.	226	52,989	35,801	3,473	12,190	426	704	395
Loyola U., Chicago	227	52,445	29,712	242	12,892	4,302	4,062	1,235
Nova Southeastern U.	228	50,173	11,637	3,862	32,874	543	762	495
Texas Tech U., Health Sciences Center	229	48,638	14,732	18,670	9,432	608	3,205	1,991
Marquette U.	230	47,819	20,055	246	18,010	879	2,385	6,244
Rowan U.	231	47,810	18,454	6,659	20,501	1,230	966	0
Catholic U. of America	232	47,022	35,502	1,147	7,957	264	2,124	28
Portland State U.	233	46,324	31,731	5,312	5,753	708	2,244	576
Mercer U.	234	45,247	29,944	58	8,973	3,247	187	2,838
Western Michigan U. and Homer Stryker M.D. School of Medicine	235	45,157	12,631	1,216	25,832	3,280	603	1,595
U.S. Air Force Academy	236	44,880	44,056	0	0	357	0	467
U. North Carolina, Greensboro	237	44,521	31,581	363	10,750	450	1,055	322

TABLE 5

Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Morgan State U.	238	43,868	30,451	5,582	5,635	721	644	835
East Tennessee State U.	239	42,335	10,776	2,889	24,910	130	3,601	29
U. Massachusetts, Dartmouth	240	42,018	13,742	2,933	21,993	1,808	1,267	275
Chapman U.	241	41,791	10,015	303	23,533	383	7,481	76
U. West Florida	242	40,454	17,954	542	20,955	601	402	0
Georgia Southern U.	243	40,026	3,562	521	30,268	5,367	270	38
Texas A&M U.-Corpus Christi	244	39,305	17,742	10,790	5,118	230	2,783	2,642
Montclair State U.	245	38,209	5,916	707	29,934	26	1,621	5
Oakland U.	246	37,263	9,600	3,066	15,987	4,953	1,636	2,021
CUNY, Hunter C.	247	37,172	22,124	3,037	9,506	739	1,293	473
California Polytechnic State U., San Luis Obispo	248	35,830	14,810	4,997	12,550	1,205	2,182	86
Louisiana State U., Health Sciences Center, Shreveport	249	35,624	18,742	158	8,014	3,715	4,995	0
SUNY, Downstate Health Sciences U.	250	35,600	28,543	0	3,431	313	3,005	308
San Francisco State U.	251	34,466	16,507	1,978	14,434	0	1,536	11
Teachers C., Columbia U.	252	34,183	11,871	3,953	NA	1,428	14,239	2,692
Marshall U.	253	33,693	19,797	1,606	10,608	510	1,172	0
Delaware State U.	254	33,499	24,167	4,093	3,975	48	1,181	35
Illinois Institute of Technology	255	33,021	28,027	154	2,045	1,292	858	645
Illinois State U.	256	32,961	13,612	2,429	16,099	152	664	5
SUNY, C. of Environmental Science and Forestry	257	32,682	9,231	14,316	6,234	515	1,073	1,313
Kennesaw State U.	258	32,497	5,908	563	24,976	157	893	0
U. Texas Health Science Center, Tyler	259	32,077	12,555	10,087	3,795	172	5,468	0
Louisiana Tech U.	260	31,676	8,118	2,220	19,098	722	0	1,518
Villanova U.	261	31,513	8,741	1,405	17,513	622	3,165	67
U. Nebraska, Omaha	262	30,841	22,096	3,184	4,886	61	512	102
Desert Research Institute	263	30,716	20,061	1,657	4,378	802	2,890	928
U. South Dakota	264	29,855	14,101	1,798	13,128	44	782	2
Rutgers, State U. New Jersey, Newark	265	29,787	16,315	1,073	9,143	195	2,880	181
U. Puerto Rico, Rio Piedras	266	29,202	16,053	81	12,414	252	375	27
Northern Illinois U.	267	29,134	10,849	1,299	15,720	705	469	92
Creighton U.	268	28,443	12,681	3,943	9,597	1,033	467	722
Miami U.	269	28,430	10,724	2,483	12,745	1,350	1,066	62
Tennessee State U.	270	28,246	15,983	1,177	10,740	155	187	4
California State U., Sacramento	271	28,027	11,284	10,056	5,821	26	556	284

TABLE 5

Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Embry-Riddle Aeronautical U.	272	27,451	23,733	205	862	1,041	161	1,449
CUNY, Graduate School of Public Health and Health Policy	273	26,651	13,413	9,353	1,330	1,057	1,451	47
Texas A&M U.-Kingsville	274	26,401	9,584	7,058	3,311	487	5,932	29
Wright State U.	275	26,189	19,081	1,158	4,837	513	360	240
California State U., Fullerton	276	25,811	6,049	205	18,925	204	428	0
Tuskegee U.	277	25,625	16,023	3,565	2,539	0	0	3,498
U. Minnesota, Duluth	278	25,534	7,533	6,410	11,092	381	63	55
CUNY, Queens C.	279	25,492	17,811	1,345	5,536	8	710	82
Clarkson U.	280	25,399	10,611	3,910	9,214	1,093	406	165
Central Michigan U.	281	25,363	9,591	0	13,833	408	852	679
Florida Gulf Coast U.	282	24,899	9,858	9,477	3,533	108	1,891	32
U. Tulsa	283	24,845	8,545	306	8,079	6,766	1,149	0
Texas Christian U.	284	24,050	7,627	658	12,066	2,491	1,069	139
Eastern Virginia Medical School	285	23,991	17,947	329	3,650	1,277	612	176
Fordham U.	286	23,832	4,687	0	16,377	3	1,957	808
Tarleton State U.	287	23,345	5,478	4,392	12,689	286	500	0
U. North Florida	288	23,269	8,113	1,436	12,378	825	293	224
Albany Medical C.	289	23,259	14,193	120	3,464	3,956	1,360	166
California State U., Northridge	290	23,093	19,169	1,152	1,278	113	1,381	0
CUNY, John Jay C. of Criminal Justice	291	22,967	7,452	6,104	5,096	111	3,124	1,080
New School	292	22,680	1,337	708	3,483	56	16,080	1,016
U. Colorado Denver	293	22,530	17,181	2,387	513	846	1,258	345
U. Guam	294	22,388	18,992	2,252	1,083	59	2	0
Loma Linda U.	295	22,262	12,485	745	4,913	1,469	2,634	16
Meharry Medical C.	296	22,002	18,398	0	603	64	2,937	0
Southern Illinois U., Edwardsville	297	21,927	3,621	1,684	15,854	752	14	2
U. North Carolina, Wilmington	298	21,879	8,116	8,296	3,028	1,640	656	143
Prairie View A&M U.	299	21,791	12,354	4,391	3,550	490	1,006	0
U. Akron	300	21,525	10,709	190	7,434	1,836	746	610
California State U., Long Beach	301	21,458	13,758	1,930	3,618	149	1,468	535
California State U., East Bay	302	21,312	8,508	433	9,969	0	2,381	21
James Madison U.	303	21,265	3,475	925	16,041	18	780	26
Tennessee Technological U.	304	20,797	9,975	5,675	4,623	120	116	288
Bowling Green State U.	305	20,726	8,208	2,160	9,214	233	911	0

TABLE 5

Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U.S. Military Academy	306	20,493	19,390	0	66	269	700	68
U. New Orleans	307	20,396	5,283	897	12,325	491	267	1,133
South Dakota School of Mines and Technology	308	20,337	14,640	2,673	2,381	286	35	322
U. of the Virgin Islands	309	20,259	19,127	1,010	NA	48	74	0
U. Alaska, Anchorage	310	19,850	12,646	2,175	3,798	283	537	411
Charles R. Drew U. of Medicine and Science	311	19,551	13,297	886	3,758	0	1,610	0
Jackson State U.	312	19,457	16,443	0	1,601	4	1,375	34
Alcorn State U.	313	19,141	10,996	5,206	2,894	24	21	0
California State Polytechnic U., Humboldt	314	18,800	3,280	3,338	5,724	437	3,094	2,927
North Carolina Central U.	315	18,477	15,188	1,085	NA	494	883	827
Montana Technological U.	316	18,375	9,585	5,503	3,057	230	0	0
Idaho State U.	317	17,548	9,230	3,042	4,362	605	196	113
CUNY, Advanced Science Research Center	318	17,309	11,916	761	2,201	451	1,574	406
Towson U.	319	17,198	3,653	369	12,449	79	622	26
New York Medical C.	320	17,113	8,226	1,326	1,064	3,319	2,169	1,009
Florida Institute of Technology	321	16,859	11,520	768	4,253	142	176	0
Long Island U.	322	16,612	1,993	0	13,844	90	569	116
Texas Southern U.	323	16,287	10,969	1,227	4,042	0	49	0
Western Washington U.	324	15,874	6,598	1,504	5,107	66	2,520	79
Alabama A&M U.	325	15,588	12,197	162	2,848	381	0	0
Fort Valley State U.	326	15,536	7,505	8,031	0	0	0	0
Xavier U. Louisiana	327	15,519	12,833	722	1,161	0	803	0
Duquesne U.	328	14,989	6,555	1,055	4,349	275	2,755	0
U. Tennessee, Chattanooga	329	14,671	6,003	893	6,585	252	381	557
Missouri State U.	330	14,654	12,973	84	1,387	20	172	18
Salisbury U.	331	14,557	5,049	5,551	3,904	0	53	0
U. Hawaii, system office	332	14,172	14,150	0	22	0	0	0
Loyola Marymount U.	333	14,086	2,921	1,096	7,708	84	2,277	0
U. Puerto Rico, Mayaguez	334	13,989	12,260	193	421	455	660	0
Virginia State U.	335	13,504	7,166	3,051	2,566	0	713	8
DePaul U.	336	13,267	5,592	807	3,512	372	2,911	73
Texas Tech U., Health Sciences Center, El Paso	337	13,189	2,415	3,097	6,947	229	501	0
California State U., San Bernardino	338	13,152	7,606	2,799	2,051	1	695	0
Northeast Ohio Medical U.	339	13,116	8,873	202	3,440	0	601	0

TABLE 5
Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. San Diego	340	12,902	3,501	684	7,498	69	542	608
U. Missouri, Saint Louis	341	12,808	4,569	82	5,245	105	2,190	617
Midwestern U.	342	12,725	2,862	92	9,430	76	265	0
Oklahoma State U., Center for Health Sciences	343	12,500	4,773	40	7,600	11	76	0
Sam Houston State U.	344	11,760	3,307	579	6,787	235	315	537
Ball State U.	345	11,650	6,355	396	3,956	637	306	0
Rosalind Franklin U. of Medicine and Science	346	11,629	7,124	62	3,270	565	608	0
Kentucky State U.	347	11,591	7,605	3,969	NA	17	0	0
Clark U.	348	11,539	2,235	231	5,610	81	1,804	1,578
California State U., San Marcos	349	11,443	9,845	1,171	326	0	101	0
California State U., Fresno	350	11,411	4,864	1,394	3,770	238	1,120	25
Central State U.	351	11,123	5,523	3,857	1,743	0	0	0
U.S. Naval Academy	352	10,920	10,260	0	0	0	221	439
U. Michigan, Dearborn	353	10,839	3,464	0	4,361	2,601	331	82
Wesleyan U.	354	10,828	5,955	0	3,515	221	688	449
U. Maryland, Eastern Shore	355	10,730	10,201	237	266	0	24	2
California State Polytechnic U., Pomona	356	10,722	8,162	881	1,438	171	70	0
Pacific U.	357	10,719	7,133	1,098	2,053	70	365	0
California State U., Monterey Bay	358	10,678	5,639	2,125	2,706	64	144	0
Pepperdine U.	359	10,632	674	1	7,179	0	2,771	7
Langston U.	360	10,505	5,473	19	4,583	430	0	0
Clark Atlanta U.	361	10,320	7,687	0	2,523	79	31	0
West Texas A&M U.	362	10,302	2,118	4,772	2,243	1,135	34	0
California State U., Los Angeles	363	10,186	8,973	108	788	0	317	0
Kean U.	364	10,062	1,870	134	7,954	15	89	0
Gallaudet U.	365	9,894	5,523	25	3,462	0	526	358
Hampton U.	366	9,769	9,445	0	324	0	0	0
U. San Francisco	367	9,633	1,015	532	6,848	0	279	959
Middle Tennessee State U.	368	9,577	3,822	488	4,173	143	943	8
Rutgers, State U. New Jersey, Camden	369	9,527	3,042	1,842	3,214	544	860	25
Western Kentucky U.	370	9,298	3,401	790	4,906	78	123	0
Lamar U.	371	9,168	2,259	6,124	277	342	166	0
U. Northern Colorado	372	9,064	1,705	202	6,848	69	240	0
Bryn Mawr C.	373	9,039	1,289	0	7,105	16	629	0

TABLE 5

Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Western U. of Health Sciences	374	8,929	6,099	1,635	238	457	500	0
U. Arkansas, Little Rock	375	8,685	7,544	218	69	513	134	207
Saint Joseph's U.	376	8,675	2,680	1,129	1,657	2,517	434	258
Winston-Salem State U.	377	8,668	7,901	374	0	0	336	57
Yeshiva U.	378	8,661	1,229	0	6,104	0	1,008	320
CUNY, Brooklyn C.	379	8,535	5,518	838	1,998	44	119	18
Appalachian State U.	380	8,479	3,497	134	3,123	702	1,006	17
Eastern Michigan U.	381	8,363	2,521	72	5,463	0	297	10
Lincoln U., Jefferson City	382	8,196	4,610	3,552	34	0	0	0
Abilene Christian U.	383	8,182	946	0	194	6,934	108	0
Hofstra U.	384	8,162	1,995	237	5,786	0	144	0
Amherst C.	385	8,152	2,869	0	3,104	0	235	1,944
U. Hawaii, Hilo	386	8,112	6,068	22	809	59	940	214
Southern Connecticut State U.	387	8,007	1,433	136	5,810	68	239	321
U. of the District of Columbia	388	7,945	7,367	384	48	0	131	15
U. Central Oklahoma	389	7,870 i	2,071 i	833 i	4,867 i	95 i	3 i	1 i
South Carolina State U.	390	7,814	5,330	1,531	890	0	63	0
U. Arkansas, Pine Bluff	391	7,766	4,204	1,294	2,219	41	8	0
Southern U. and A&M C., Agricultural Research and Extension Center	392	7,764	4,688	3,037	24	0	15	0
Pennsylvania State U., Behrend	393	7,614	4,378	388	1,823	708	308	9
Edward Via C. of Osteopathic Medicine	394	7,597	678	136	6,699	0	84	0
Grinnell C.	394	7,597	1,082	0	5,816	0	239	460
Purdue U., Northwest	396	7,504	3,409	996	1,604	597	236	662
Philadelphia C. of Osteopathic Medicine	397	7,459	442	59	2,848	2,547	1,563	0
MGH Institute of Health Professions	398	7,426	6,200	0	20	0	1,206	0
Arkansas State U., Jonesboro	399	7,323	3,083	3,419	561	260	0	0
Claremont Graduate U.	400	7,262	1,422	354	984	2,709	1,228	565
C. Charleston	401	7,231	5,036	274	1,285	64	571	1
Seton Hall U.	402	7,068	2,778	2,633	1,195	104	211	147
Texas A&M U.-Commerce	403	7,029	1,936	809	3,726	3	494	61
U. Colorado Colorado Springs	404	7,012	5,205	29	1,042	523	207	6
Claremont McKenna C.	405	6,925	1,035	62	5,293	0	485	50
Texas Woman's U.	406	6,922	2,439	2,136	1,396	166	785	0
Hope C.	407	6,910	3,639	0	1,678	0	1,308	285

TABLE 5

Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. North Carolina, Asheville	408	6,761	3,323	547	615	126	2,148	2
U. New England	409	6,756	4,777	2	1,548	29	395	5
Reed C.	410	6,750 i	2,420 i	44 i	3,745 i	0 i	391 i	150 i
U. Baltimore	411	6,615	4,250	1,819	NA	20	422	104
Williams C.	412	6,448 i	1,455 i	0 i	2,164 i	0 i	178 i	2,651 i
California State U., Bakersfield	413	6,409	3,525	154	2,580	0	150	0
Barnard C.	414	6,320	4,235	0	1,006	8	1,071	0
Wellesley C.	414	6,320	2,921	449	NA	80	2,628	242
U. Washington, Tacoma	416	6,243	3,875	1,393	278	1	520	176
Grand Valley State U.	417	6,231	1,808	450	2,906	0	584	483
Norfolk State U.	418	6,194	4,381	574	677	182	380	0
Northwest Indian C.	419	6,184 i	4,595 i	0 i	1,589 i	0 i	0 i	0 i
West Chester U. Pennsylvania	420	6,132	1,386	54	4,176	124	392	0
Azusa Pacific U.	421	6,097	140	40	5,545	35	273	64
Roseman U. of Health Sciences	422	6,065	38	0	5,953	67	7	0
Indiana U. Pennsylvania	423	6,052	1,702	532	3,293	17	508	0
U.S. Army War C.	424	6,035 i	6,035 i	0 i	0 i	0 i	0 i	0 i
California State U., Chico	425	5,984	3,152	1,130	636	18	97	951
Smith C.	426	5,954	3,013	0	2,179	253	509	0
High Tech High Graduate School of Ed.	427	5,939	0	0	0	0	5,939	0
U. Southern Maine	428	5,930	2,598	3,070	185	0	72	5
CUNY, Lehman C.	429	5,918	4,487	0	782	365	181	103
Bucknell U.	430	5,887	2,359	61	2,031	299	235	902
U. Oklahoma, Tulsa	431	5,826	1,328	330	2,963	124	1,054	27
Naval War C.	432	5,819	5,819	0	0	0	0	0
New York Institute of Technology	433	5,790	3,252	125	2,146	60	207	0
Morehouse C.	434	5,750	5,750	0	NA	0	0	0
U. Washington, Bothell	435	5,738	3,787	617	486	1	667	180
U. North Carolina, general administration	436	5,735	0	0	5,735	0	0	0
Santa Clara U.	437	5,679	3,448	372	NA	364	1,424	71
Rhode Island School of Design	438	5,661	311	52	739	3,728	731	100
Swarthmore C.	439	5,620	2,315	6	2,578	0	697	24
Texas A&M International U.	440	5,602	1,966	1,011	1,542	170	913	0
Oregon Institute of Technology	441	5,585 i	1,375	3,931 i	NA	97 i	182 i	0

TABLE 5

Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
California State U., Dominguez Hills	442	5,558	2,457	870	1,996	41	52	142
Providence C.	443	5,533	4,648	0	582	0	303	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	444	5,324	273	0	5,021	0	30	0
Trinity U.	445	5,296	2,203	2	1,238	0	1,834	19
Dakota State U.	446	5,253	2,437	231	660	692	25	1,208
West Virginia State U.	447	5,226	2,800	1,804	521	0	101	0
Southern U. and A&M C., Baton Rouge	448	5,201	4,444	75	34	648	0	0
Suffolk U.	449	5,164	893	737	3,303	0	231	0
Pennsylvania State U., Harrisburg	450	5,159	3,045	887	742	178	303	4
U. Detroit Mercy	451	5,142	4,434	0	529	140	39	0
Colgate U.	452	4,930	1,521	0	3,041	305	63	0
Sul Ross State U.	453	4,878	1,568	1,223	1,804	0	283	0
U. Central del Caribe	453	4,878	2,929	524	1,270	0	0	155
Spelman C.	455	4,877	4,567	0	0	0	310	0
Fisk U.	456	4,867	3,819	240	304	0	504	0
U. Wisconsin-Superior	457	4,825	3,559	81	1,062	87	36	0
Sacred Heart U.	458	4,733	639	0	3,892	0	202	0
CUNY, C. Staten Island	459	4,730	3,296	224	975	41	109	85
Coastal Carolina U.	460	4,729	1,847	1,004	1,694	0	184	0
Occidental C.	461	4,718 i	2,967 i	559 i	NA	554 i	638 i	0 i
Toyota Technological Institute, Chicago	462	4,636	2,127	0	1,633	321	463	92
Lawrence Technological U.	463	4,632	1,786	937	784	183	942	0
Sonoma State U.	464	4,625	3,483	585	321	46	190	0
U. Wisconsin-Stevens Point	465	4,589	2,079	948	997	0	302	263
U. Northern Iowa	466	4,564	2,975	541	911	0	137	0
Colby C.	467	4,454	3,011	0	580	0	356	507
SUNY, C. of Optometry	468	4,423	2,469	0	594	1,328	10	22
U. of Health Sciences and Pharmacy in St. Louis	469	4,343	3,110	0	1,060	84	89	0
CUNY, system office	470	4,296	2,901	413	730	18	234	0
Carleton C.	471	4,185	2,800	0	483	0	902	0
Alfred U.	472	4,154	1,958	1,596	242	330	28	0
Pomona C.	473	4,149	1,205	0	2,659	0	285	0
Franklin and Marshall C.	474	4,111	1,469	241	1,273	371	543	214
Trinity C., Hartford	475	4,099	687	0	3,330	7	75	0

TABLE 5
Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Haverford C.	476	4,088	2,344	0	955	0	270	519
CUNY, Baruch C.	477	4,084	1,879	77	988	91	785	264
Keck Graduate Institute	478	4,059	2,338	4	388	634	354	341
Pace U.	479	4,056	2,698	20	1,101	0	237	0
California State U., Channel Islands	480	3,992	1,773	1,086	737	219	177	0
St. John's U., New York	481	3,955	2,792	0	450	341	232	140
Austin Peay State U.	482	3,950	1,401	1,385	530	0	100	534
Seattle U.	483	3,949	1,165	78	2,223	55	428	0
Des Moines U.	484	3,932	556	7	3,225	0	144	0
Western Illinois U.	485	3,824	3,283	144	42	243	0	112
Northern Kentucky U.	486	3,790	2,413	77	1,113	6	181	0
Troy U.	487	3,785	3,069	81	398	1	203	33
Citadel Military C. South Carolina	488	3,757	3,287	159	258	0	0	53
Chicago State U.	489	3,756	3,756	0	0	0	0	0
Central Washington U.	490	3,683	2,499	650	282	85	132	35
Harvey Mudd C.	491	3,682	1,968	0	1,389	0	161	164
U. Nebraska, Kearney	492	3,681	1,739	590	1,307	25	0	20
Stephen F. Austin State U.	493	3,661	1,098	1,648	541	32	225	117
U. New Haven	494	3,602	2,227	629	204	24	487	31
Fayetteville State U.	495	3,569 i	1,847 i	536 i	1,005 i	130 i	51 i	0 i
Christopher Newport U.	496	3,507	2,055	0	1,218	94	140	0
U. Texas, Tyler	497	3,487	1,652	960	432	227	187	29
New Mexico Highlands U.	498	3,468	3,416	0	43	0	0	9
Roger Williams U.	499	3,465	1,973	102	912	72	406	0
Fort Lewis C.	500	3,372	2,816	23	143	6	384	0
Bowdoin C.	501	3,339	2,186	71	901	0	102	79
Milwaukee School of Engineering	502	3,317	722	0	71	2,509	15	0
Hamilton C.	503	3,285	413	0	1,813	0	819	240
Youngstown State U.	504	3,244	2,691	244	207	47	55	0
Alabama State U.	505	3,229	2,848	0	0	296	85	0
Murray State U.	506	3,193	2,058	29	993	79	34	0
Winthrop U.	507	3,189	2,358	54	707	7	63	0
Saginaw Valley State U.	508	3,143 i	2,503 i	0 i	476 i	6 i	138 i	20 i
U. Central Arkansas	509	3,092	1,824	583	615	40	11	19

TABLE 5

Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Richmond	510	3,058	1,379	0	1,218	0	436	25
Minnesota State U., Mankato	511	3,055	905	196	1,537	0	45	372
Dine C.	512	3,054	2,255	262	223	0	314	0
Marian U., Indianapolis	513	3,009	918	0	1,709	18	172	192
Pittsburg State U.	514	2,979	1,591	633	NA	755	0	0
Middlebury C.	515	2,975	2,564	10	25	0	376	0
East Stroudsburg U. Pennsylvania	516	2,928	909	1,421	546	0	52	0
Davidson C.	517	2,926	1,340	11	915	12	492	156
U. Wisconsin-La Crosse	518	2,921	714	804	639	709	44	11
Hawaii Pacific U.	519	2,913	1,942	0	179	438	344	10
St. Cloud State U.	520	2,901	689	305	719	835	145	208
Touro U., California	521	2,877	1,279	0	1,405	79	0	114
Southeastern Louisiana U.	522	2,858	1,366	237	758	472	25	0
CUNY, New York City C. of Technology	523	2,819	2,498	30	241	10	16	24
Purdue U., Fort Wayne	524	2,804	226	455	1,087	172	291	573
U. Wisconsin-Green Bay	525	2,801	1,222	556	868	52	103	0
U. Wisconsin-River Falls	526	2,772	551	1,832	39	213	0	137
U. Texas of the Permian Basin	527	2,769	1,013	525	832	190	7	202
Lewis and Clark C.	528	2,686	776	1	1,590	0	319	0
Tougaloo C.	529	2,663 i	2,643 i	4 i	4 i	4 i	4 i	4 i
Morehead State U.	530	2,658	1,718	381	11	530	18	0
C. New Jersey	531	2,641	1,755	72	482	0	332	0
SUNY, Buffalo State U.	532	2,636	1,615	765	222	0	17	17
Bowie State U.	533	2,612	2,469	143	0	0	0	0
Marymount U.	534	2,601	396	29	1,983	0	193	0
Vassar C.	535	2,596	1,204	20	872	0	490	10
Albany C. of Pharmacy and Health Sciences	536	2,594 i	1,256 i	0 i	882 i	287 i	169 i	0 i
SUNY, Cobleskill	537	2,566	730	1,832	0	4	0	0
Calvin U.	538	2,555	854	68	330	0	1,060	243
U. South Carolina Upstate	539	2,554	330	1	2,205	0	18	0
Eastern Washington U.	540	2,546	1,015	1,198	NA	8	221	104
Lake Superior State U.	541	2,545	1,475	166	720	66	37	81
Elon U.	542	2,544	479	0	1,989	0	20	56
Western Carolina U.	543	2,543	1,600	337	378	171	57	0

TABLE 5
Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Mount Holyoke C.	544	2,533	1,612	125	504	0	292	0
Monmouth U.	545	2,517	762	657	280	168	612	38
U. Illinois, Springfield	546	2,508	1,057	426	818	0	207	0
Colorado C.	547	2,498	611	0	1,000	0	887	0
La Sierra U.	548	2,496 i	1,066 i	0 i	734 i	0 i	696 i	0 i
National Defense U.	549	2,494	2,494	0	0	0	0	0
New England C. of Optometry	550	2,491	1,946	56	30	390	69	0
Franklin W. Olin C. of Engineering	551	2,450	641	0	639	230	837	103
Erikson Institute	552	2,414	1,245	0	178	0	991	0
Wheaton C., Wheaton	553	2,403	428	0	966	5	1,004	0
Stockton U.	554	2,386	688	711	815	36	74	62
Skidmore C.	555	2,384	1,288	0	510	0	586	0
Hobart and William Smith Colleges	556	2,373	1,019	526	572	0	136	120
Virginia Military Institute	557	2,350	1,534	296	510	0	10	0
Benedict C.	558	2,307	1,665	0	0	635	7	0
California State U., Stanislaus	559	2,305	1,150	513	168	468	6	0
Dillard U.	560	2,296	1,228	117	951	0	0	0
U. of St. Thomas (MN)	561	2,280	531	499	578	255	277	140
Furman U.	562	2,267	1,300	32	482	128	308	17
Northeastern Illinois U.	563	2,262	2,262	0	0	0	0	0
Black Hills State U.	564	2,260	1,918	82	258	0	2	0
Florida Polytechnic U.	564	2,260	1,172	141	723	183	41	0
U. South Carolina, Aiken	566	2,250	782	0	1,453	0	15	0
U. of the Incarnate Word	567	2,245	1,086	0	1,050	54	55	0
C. Wooster	568	2,209	594	0	775	0	840	0
U. Louisiana, Monroe	569	2,203	1,655	371	3	30	144	0
U. Wisconsin-Eau Claire	570	2,191	1,027	509	389	248	10	8
U. Ana G. Mendez, Gurabo	571	2,132	2,132	0	0	0	0	0
U. Houston-Clear Lake	572	2,127	1,273	251	48	533	22	0
Bates C.	573	2,118	1,455	0	349	0	272	42
U. Wisconsin-Oshkosh	574	2,087	1,249	136	545	157	0	0
John Carroll U.	575	2,083	916	227	560	0	380	0
U. Puerto Rico, Humacao	576	2,074	1,822	0	252	0	0	0
Northwestern State U. Louisiana	577	2,057 i	822 i	936 i	299 i	0 i	0 i	0 i

TABLE 5
Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Utah Valley U.	578	2,015	1,671	279	36	14	15	0
Lafayette C.	579	1,991	1,141	23	687	5	135	0
U. of the Pacific	580	1,972	1,300	586	NA	9	77	0
U. Houston-Downtown	581	1,967	1,495	183	140	68	81	0
SUNY, Geneseo	582	1,958	1,292	9	491	0	52	114
Babson C.	583	1,957	224	0	758	78	131	766
Lipscomb U.	584	1,946	309	0	1,571	8	58	0
Macalester C.	585	1,935	1,094	58	508	0	275	0
Albany State U.	586	1,932	1,681	106	0	145	0	0
Ferris State U.	587	1,915	1,430	88	271	53	73	0
Liberty U.	588	1,900	532	5	1,315	48	0	0
Union C., Schenectady	589	1,881	729	0	1,048	17	34	53
SUNY, C. Brockport	590	1,877	813	155	610	0	290	9
Northern Michigan U.	591	1,871	560	25	1,079	1	80	126
Alaska Pacific U.	592	1,823	627	0	0	1,173	0	23
U. Alaska, Southeast	593	1,822	1,463	117	100	0	105	37
Marshall B. Ketchum U.	594	1,777 i	433 i	0 i	890 i	454 i	0 i	0 i
Nevada State C.	595	1,744	1,711	33	0	0	0	0
Palmer C. of Chiropractic, Davenport	596	1,725	1,500	0	225	0	0	0
Drake U.	597	1,724	954	368	340	34	26	2
St. Olaf C.	597	1,724	933	0	686	0	105	0
SUNY, C. Plattsburgh	599	1,722	1,121	0	530	0	69	2
CUNY, York C.	600	1,711	1,504	0	159	0	48	0
Savannah State U.	601	1,706	1,675	18	0	0	13	0
Seattle Pacific U.	602	1,671	581	143	377	0	551	19
U. North Georgia	603	1,643	477	131	871	7	157	0
Elizabeth City State U.	604	1,641	1,093	403	NA	145	0	0
Lincoln Memorial U.	604	1,641	2	0	1,589	4	46	0
Norwich U.	606	1,637	1,366	5	261	0	5	0
Colorado State U., Pueblo	607	1,624	952	199	347	0	0	126
U. Puget Sound	608	1,613	1,300	0	138	0	175	0
Johnson C. Smith U.	609	1,602	1,554	0	48	0	0	0
Eckerd C.	610	1,599	632	97	421	191	258	0
SUNY, Oswego	611	1,595	894	49	595	1	32	24

TABLE 5
Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Indiana U., South Bend	612	1,593	420	3	875	0	295	0
Texas A&M U.-San Antonio	612	1,593	1,233	51	51	4	224	30
Bentley U.	614	1,589	802	0	0	18	751	18
Dickinson C.	615	1,584	700	140	365	0	371	8
Whitman C.	616	1,568	449	0	676	0	443	0
Merrimack C.	617	1,560	892	0	336	0	247	85
Pratt Institute	618	1,558	50	878	0	0	630	0
Willamette U.	619	1,542	490	0	961	0	91	0
U. Hartford	620	1,533	1,269	8	203	3	50	0
U. Puerto Rico, Cayey	621	1,519	733	0	412	0	374	0
Hartford International U. for Religion and Peace	622	1,485	0	0	0	0	1,485	0
Fairfield U.	623	1,484	180	0	751	0	553	0
U. Wisconsin-Platteville	624	1,481 i	465 i	378 i	249 i	339 i	39 i	11 i
Saint John's U.	625	1,479 i	0 i	0 i	1,479 i	0 i	0 i	0 i
U. South Carolina, Beaufort	626	1,466	889	43	417	0	117	0
Biola U.	627	1,461	0	0	9	0	1,298	154
West Virginia School of Osteopathic Medicine	628	1,459 i	500 i	12 i	947 i	0 i	0 i	0 i
Eastern Connecticut State U.	629	1,449	210	0	1,239	0	0	0
Eastern Kentucky U.	630	1,446	798	124	468	56	0	0
Northland C.	631	1,442 i	880 i	40 i	222 i	0 i	300 i	0 i
Connecticut C.	632	1,440	648	0	575	0	211	6
Robert Morris U.	633	1,419	664	79	632	22	22	0
Clafin U.	634	1,418	1,418	0	0	0	0	0
Oberlin C.	635	1,408	880	9	463	1	55	0
C. of Saint Benedict	636	1,400 i	58 i	0 i	1,342 i	0 i	0 i	0 i
Butler U.	637	1,396	1,077	0	199	20	100	0
United Tribes Technical C.	638	1,387	1,337	19	0	0	31	0
U. Hawaii, Maui C.	639	1,376	1,234	0	117	0	25	0
Kenyon C.	640	1,371	1,092	0	147	0	132	0
Plymouth State U.	641	1,361	877	5	433	0	35	11
National U. of Natural Medicine	642	1,336	862	0	305	169	0	0
St. Edward's U.	643	1,334	315	186	762	0	71	0
Indiana State U.	644	1,327	980	83	212	32	11	9
Illinois C. of Optometry	645	1,324	19	0	220	1,085	0	0

TABLE 5
Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Arcadia U.	646	1,321	772	182	0	0	367	0
Radford U.	647	1,315	109	135	903	13	155	0
U. North Texas, Dallas	648	1,293	50	0	1,049	0	194	0
U. Maine Farmington	649	1,289 i	922 i	89 i	198 i	25 i	39 i	16 i
Auburn U., Montgomery	650	1,281	864	5	409	0	3	0
California Lutheran U.	651	1,279	490	0	597	146	46	0
Nicholls State U.	652	1,259	624	441	17	85	92	0
Southern Utah U.	652	1,259	990	72	197	0	0	0
Andrews U.	654	1,255	445	0	721	0	89	0
Heidelberg U.	655	1,254	197	799	243	0	15	0
Manhattan C.	656	1,250	422	222	460	146	0	0
U. Michigan, Flint	657	1,243	258	1	900	47	22	15
Aaniiih Nakoda C.	658	1,226	1,226	0	0	0	0	0
U. Virginia's C. Wise	659	1,223	447	367	333	0	69	7
Quinnipiac U.	660	1,218 i	600 i	64 i	323 i	51 i	157 i	23 i
Pennsylvania State U., Altoona	661	1,215	297	6	666	91	144	11
U. Minnesota, Rochester	662	1,192	32	0	989	0	0	171
Juniata C.	663	1,177	1,012	0	20	0	41	104
U. Scranton	664	1,169	866	2	212	20	69	0
Western Colorado U.	665	1,166	641	438	NA	NA	87	NA
Hult International Business School	666	1,159 i	555 i	26 i	372 i	40 i	118 i	48 i
Ursinus C.	667	1,150	942	112	0	0	96	0
U. of Mary Washington	668	1,115	406	57	548	0	79	25
Western New England U.	668	1,115	538	54	302	89	132	0
Loyola U., Maryland	670	1,110	544	17	118	0	431	0
Gettysburg C.	671	1,099	517	0	146	0	204	232
Southern Oregon U.	672	1,092	612	297	83	72	28	0
New C. Florida	673	1,080	146	0	367	425	142	0
Keene State C.	674	1,071	834	0	228	0	0	9
St. Catherine U.	675	1,060	673	30	17	0	228	112
American Samoa Community C.	676	1,055 i	1,027 i	6 i	6 i	6 i	5 i	5 i
Berry C.	677	1,046	993	0	28	0	25	0
La Salle U.	678	1,045 i	0 i	0 i	1,045 i	0 i	0 i	0 i
Polytechnic U. Puerto Rico	679	1,039	1,039	NA	NA	NA	NA	NA

TABLE 5
Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
St. Bonaventure U.	680	1,037	554	45	5	0	126	307
Valparaiso U.	681	1,036	920	11	100	0	5	0
Midwestern State U.	682	1,027	491	77	387	58	10	4
Weber State U.	683	1,026	759	91	58	56	6	56
Carthage C.	684	1,013	722	0	166	0	118	7
Denison U.	685	1,012	589	0	322	0	101	0
Southern U., New Orleans	686	1,004	536	460	0	8	0	0
Dominican U. California	687	1,001 i	871 i	0 i	0 i	0 i	130 i	0 i
Rollins C.	688	995	415	0	238	0	342	0
Bluefield State U.	689	987	574	350	0	0	0	63
U. Portland	690	986	251	76	342	0	317	0
Gustavus Adolphus C.	691	969	467	9	107	181	54	151
Texas A&M U.-Central Texas	692	951	906	27	15	0	3	0
Angelo State U.	693	946	140	581	48	0	177	0
Central Connecticut State U.	694	934	393	51	480	0	2	8
Roanoke C.	695	932	16	0	847	0	69	0
Augsburg U.	696	917	485	8	262	0	0	162
West Liberty U.	697	910	490	129	256	1	34	0
Canisius U.	698	905	411	0	0	0	494	0
SUNY, Potsdam	699	904	682	6	196	0	9	11
C. of the Holy Cross	700	893	691	0	0	0	202	0
Gannon U.	701	889	199	310	296	10	74	0
U. Tampa	702	883	121	1	556	0	190	15
CUNY, Medgar Evers C.	703	881	266	41	254	150	170	0
Montana State U., Billings	704	870	710	0	126	34	0	0
Eastern Illinois U.	705	869	413	115	172	0	169	0
Ithaca C.	706	861	453	130	178	0	42	58
Touro U., Nevada	707	853	131	0	593	102	27	0
Indiana Wesleyan U.	708	852	275	0	391	0	186	0
Rhode Island C.	709	839	786	0	NA	0	53	0
Longwood U.	710	838	642	9	182	0	5	0
Emporia State U.	711	816	589	0	189	0	27	11
Earlham C.	712	815	0	0	402	19	1	393
Utica U.	713	812	0	0	812	0	0	0

TABLE 5

Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Concord U.	714	807	756	49	0	0	2	0
Widener U., Chester	715	804	636	100	0	1	3	64
Coe C.	716	802	562	46	1	0	5	188
Lawrence U.	717	794	327	0	371	0	40	56
Evergreen State C.	718	791	45	509	0	0	3	234
Kalamazoo C.	719	789 i	284 i	6 i	363 i	0 i	136 i	0 i
Saint Mary's U. Minnesota	719	789	573	173	43	0	0	0
Regis U.	721	779	702	0	75	0	2	0
Siena C.	722	764	303	0	426	0	35	0
Augustana U.	723	757	757	0	0	0	0	0
Saint Michael's C.	724	754	598	0	156	0	0	0
Bridgewater State U.	725	750	449	53	248	0	0	0
U. Ana G. Mendez, Cupey	726	746	746	0	0	0	0	0
U. Puerto Rico, Aguadilla	727	741	700	0	41	0	0	0
San Juan Bautista School of Medicine	728	740	547	0	193	0	0	0
Framingham State U.	729	735	700	0	35	0	0	0
Mercyhurst U.	730	734 i	90 i	430 i	66 i	120 i	7 i	21 i
Clayton State U.	731	732	642	37	53	0	0	0
Fort Hays State U.	731	732	361	154	142	32	0	43
Salve Regina U.	731	732	732	0	0	0	0	0
Louisiana State U., Shreveport	734	725	401	2	279	0	43	0
Kutztown U. Pennsylvania	735	722	584	42	96	0	0	0
SUNY, C. Cortland	736	715	507	23	61	6	118	0
U. Central Missouri	736	715	459	51	100	0	105	0
Dordt U.	738	712	581	17	54	0	60	0
Pennsylvania State U., Great Valley School of Graduate Professional Studies	738	712	343	0	326	37	6	0
U. Minnesota, Morris	740	698	87	49	562	0	0	0
U.S. Coast Guard Academy	741	689	278	0	287	0	124	0
Bethune-Cookman U.	742	682	650	32	0	0	0	0
Wilkes U.	742	682	203	0	337	124	18	0
Arkansas Tech U.	744	668	393	245	25	5	0	0
Graduate School of the Stowers Institute for Medical Research	745	666	0	0	0	0	666	0
Emerson C.	746	665	133	23	234	0	214	61
Salus U.	747	663	396	17	22	213	15	0

TABLE 5
Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Niagara U.	748	661	10	66	225	0	324	36
U. Puerto Rico, Ponce	749	659	510	0	149	0	0	0
Metropolitan State U. of Denver	750	651	390	0	260	0	1	0
Iona U.	751	649	649	0	0	0	0	0
Kettering U.	752	641	77	34	193	337	0	0
Pennsylvania State U., Berks	753	640	550	3	79	0	5	3
SUNY, Old Westbury	754	634	389	0	184	0	31	30
SUNY, Farmingdale State C.	755	631	180	0	450	0	1	0
St. Norbert C.	756	629	514	0	30	28	23	34
Lincoln U.	757	628	430	126	0	0	72	0
Simmons U.	758	620	254	0	163	0	203	0
Elmhurst U.	759	613	224	0	389	0	0	0
Sonoran U. Health Sciences	760	600	0	0	100	500	0	0
Saint Francis U.	761	592 i	242 i	0 i	26 i	0 i	0 i	324 i
Sewanee: U. of the South	761	592	17	0	382	0	96	97
Concordia C., Moorhead	763	589	352	0	237	0	0	0
Oglala Lakota C.	764	588	588	0	0	0	0	0
Hendrix C.	765	587	538	0	49	0	0	0
Slippery Rock U. Pennsylvania	766	583	200	5	358	0	20	0
Southwestern Oklahoma State U.	767	582	300	82	118	0	16	66
Southwestern U.	768	575	52	0	119	0	89	315
U. West Georgia	769	574	172	78	49	0	275	NA
Cooper Union	770	571 i	229 i	38 i	302 i	0 i	2 i	0 i
Cornell C.	771	563	72	25	262	0	204	0
Lake Forest C.	772	562 i	42 i	0 i	439 i	0 i	47 i	34 i
Bryant U.	773	558	436	0	122	0	0	0
California Baptist U.	774	554	0	8	516	0	30	0
Salish Kootenai C.	775	553	553	0	0	0	0	0
Stonehill C.	776	542	283	0	251	0	8	0
U. Bridgeport	776	542	251	0	270	19	2	0
Keiser U.	778	539 i	0 i	539 i	0 i	0 i	0 i	0 i
Jacksonville State U.	779	538	423	8	100	7	0	0
U. Wisconsin-Whitewater	780	536	280	68	0	79	38	71
Gonzaga U.	781	535	254	0	40	3	238	0

TABLE 5
Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
William Paterson U.	782	533	168	0	350	4	11	0
Allegheny C.	783	532	192	50	200	0	90	0
Rider U.	784	522	364	0	127	0	31	0
St. Lawrence U.	785	521	201	20	274	0	26	0
Lake Erie C. of Osteopathic Medicine	786	517	0	0	414	0	103	0
Moravian U.	787	516	192	0	298	0	26	0
Stetson U.	788	513	452	0	60	0	0	1
U. Wisconsin-Stout	789	512	138	283	57	0	4	30
Muhlenberg C.	790	509 i	31 i	0 i	414 i	22 i	16 i	26 i
Pennsylvania Western U.	791	508	460	0	43	0	5	0
Geisinger Commonwealth School of Medicine	792	500	15	0	0	485	0	0
Susquehanna U.	793	499	14	0	150	0	335	0
Fairleigh Dickinson U.	794	498	456	0	0	0	42	0
Adelphi U.	795	495	430	0	65	0	0	0
Agnes Scott C.	796	494 i	294 i	0 i	77 i	0 i	123 i	0 i
Benedictine U.	797	489	338	0	151	0	0	0
Central Wyoming C.	797	489	489	0	0	0	0	0
East Central U.	799	483	447	4	30	1	0	1
Point Loma Nazarene U.	800	482	34	133	15	7	162	131
Pontifical Catholic U. Puerto Rico, Ponce	801	478	167	0	302	0	9	0
U. Houston-Victoria	802	475	419	12	0	0	44	0
Palo Alto U.	803	473 i	225 i	0 i	122 i	2 i	34 i	90 i
Whitworth U.	803	473	216	0	199	0	58	0
Barry U.	805	469	98	0	12	237	122	0
Lewis-Clark State C.	806	468	468	0	0	0	0	0
Baldwin Wallace U.	807	463	47	163	71	18	4	160
Northwest Nazarene U.	808	456	302	0	154	0	0	0
Grambling State U.	809	449	377	52	20	0	0	0
Colorado Mesa U.	810	443	290	9	0	9	135	0
U. North Alabama	811	442	332	0	110	0	0	0
McNeese State U.	812	435	32	81	301	0	21	0
DePauw U.	813	430	102	0	322	0	6	0
Indiana U., Kokomo	814	429	31	0	396	0	2	0
Oakwood U.	815	427	371	0	10	0	46	0

TABLE 5

Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Southern Arkansas U.	815	427	252	2	173	0	0	0
MCPHS U.	817	426	166	0	213	9	38	0
Western Connecticut State U.	818	424	144	81	199	0	0	0
Indiana U., Southeast	819	421	41	3	375	0	2	0
Loyola U., New Orleans	820	419	37	30	21	0	331	0
Minot State U.	821	412	314	45	53	0	0	0
Shaw U.	821	412	162	250	0	0	0	0
Truckee Meadows Community C.	823	403	403	0	0	0	0	0
Northern Vermont U.	824	400	400	0	0	0	0	0
Coker U.	825	398	379	0	0	0	19	0
Eastern New Mexico U., Portales	826	394	343	22	29	0	0	0
SUNY, New Paltz	827	392	265	1	103	4	12	7
Austin C.	828	388	121	0	120	0	147	0
Westmont C.	828	388 i	227 i	0 i	0 i	0 i	161 i	0 i
Marist C.	830	386	188	0	41	36	26	95
Minnesota State U., Moorhead	831	378	26	204	86	3	47	12
Ouachita Baptist U.	831	378	378	0	NA	0	0	0
Pennsylvania State U., New Kensington	831	378	0	0	8	0	370	0
Southern California U. of Health Sciences	831	378	377	0	0	0	1	0
American C. of Financial Services	835	376	0	0	376	0	0	0
Doane U.	836	374	299	0	75	0	0	0
Wabash C.	837	370	210	0	156	0	4	0
Bryn Athyn C.	838	361 i	0 i	0 i	273 i	0 i	88 i	0 i
Northwest Missouri State U.	839	360	108	0	252	0	0	0
U. Minnesota, Crookston	840	358	0	201	157	0	0	0
Coppin State U.	841	357	209	0	0	13	115	20
Future Generations U.	842	356 i	0 i	19 i	288 i	46 i	0 i	3 i
Augustana C.	843	351	159	0	131	11	41	9
Delta State U.	843	351	336	0	15	0	0	0
Life Chiropractic C.-West	845	350	0	0	350	0	0	0
Pacific Lutheran U.	846	347	229	28	23	0	62	5
Ramapo C. New Jersey	847	346	284	0	62	0	0	0
Taylor U.	847	346	11	0	145	158	0	32
A. T. Still U. of Health Sciences	849	345	197	13	106	16	13	0

TABLE 5
Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Evansville	850	336	190	5	115	0	0	26
Pennsylvania State U., Wilkes-Barre	851	335	335	0	0	0	0	0
Pitzer C.	852	330	0	0	330	0	0	0
Wittenberg U.	853	325	162	0	163	0	0	0
Ohio Wesleyan U.	854	323	174	0	130	19	0	0
Pennsylvania State U., Abington	855	320	132	0	105	0	69	14
Truman State U.	856	318	29	2	228	0	21	38
U. Maine, Augusta	857	317	18	0	297	0	2	0
Alabama C., Osteopathic Medicine	858	311	0	0	311	0	0	0
Francis Marion U.	859	308	228	0	0	0	0	80
Pacific Northwest U. of Health Sciences	860	307	200	0	91	0	0	16
California State U., Maritime Academy	861	305	220	41	44	0	0	0
SUNY, Oneonta	861	305	3	27	209	4	4	58
Commonwealth U. of Pennsylvania	863	304	162	16	119	0	7	0
Bradley U.	864	301	115	26	147	13	0	0
U. North Carolina, Pembroke	865	297	297	0	0	0	0	0
Georgia C. and State U.	866	294	174	0	65	8	47	0
Maryland Institute C. of Art	867	292	134	20	75	3	30	30
Montana State U., Northern	867	292	207	85	0	0	0	0
Concordia U., Wisconsin	869	291	162	0	18	100	11	0
Southern C. of Optometry	870	288	5	0	0	250	0	33
Northern State U.	871	282	110	97	47	14	14	0
Arkansas C. of Health Education	872	277	104	0	129	0	44	0
Albion C.	873	276	226	0	0	50	0	0
Columbus State U.	873	276	210	0	3	NA	63	0
Kansas City U.	875	274	166	0	108	0	0	0
Fuller Theological Seminary	876	271	75	0	20	0	176	0
Linfield U.	876	271	9	0	181	0	81	0
Northern New Mexico C.	878	264	264	0	0	0	0	0
Alverno C.	879	263	0	0	187	0	0	76
Bard C.	879	263	71	0	192	0	0	0
Indiana U., Northwest	881	253	33	0	205	0	15	0
Rogers State U.	881	253	81	103	23	23	23	0
Georgia Gwinnett C.	883	249	216	0	22	0	11	0

TABLE 5
Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Manchester U.	883	249	46	0	53	0	9	141
Life U.	885	248	0	0	124	43	62	19
Washington and Lee U.	886	243	224	0	NA	0	19	0
Hamline U.	887	241	109	0	132	0	0	0
Mississippi Valley State U.	888	233	220	0	13	0	0	0
U. Dallas	888	233	30	0	20	147	32	4
Centre C.	890	232	204	0	28	0	0	0
West Virginia U., Institute of Technology	891	229	94	16	12	0	105	2
Antioch U.	892	225	112	73	0	20	20	0
Valdosta State U.	892	225	67	108	48	2	0	0
Millersville U. Pennsylvania	894	224	95	11	101	0	15	2
Whittier C.	895	220	11	0	45	0	164	0
Luther C.	896	217	71	0	99	0	47	0
C. Southern Nevada	897	210	201	9	0	0	0	0
Converse U.	898	205	164	0	0	0	0	41
St. Mary's C. Maryland	898	205	152	31	0	0	22	0
SUNY, system office	898	205	39	0	0	0	159	7
Maine Maritime Academy	901	203	31	172	0	0	0	0
Jacksonville U.	902	200	0	185	0	7	8	0
Metropolitan State U.	903	196 i	104 i	13 i	54 i	9 i	10 i	6 i
U. Ana G. Mendez, Carolina	904	193	193	0	0	0	0	0
Oral Roberts U.	905	190	0	0	14	0	0	176
Northeastern State U.	906	187	121	22	44	0	0	0
Delaware Valley U.	907	183	28	52	51	20	8	24
U. Lynchburg	908	182 i	102 i	2 i	45 i	13 i	15 i	5 i
LeTourneau U.	909	175	88	0	69	15	3	0
William Carey U.	910	170	16	0	85	25	44	0
Eastern Oregon U.	911	163	143	8	10	2	0	0
Castleton U.	912	162	152	0	10	0	0	0
Saint Martin's U.	913	152	102	35	0	10	5	0
U. Puerto Rico, Arecibo	914	150 i	91 i	20 i	27 i	2 i	7 i	3 i

i = imputed. NA = not available; data were not provided by institution.

^a Johns Hopkins University includes the Applied Physics Laboratory, with \$2,333,049 thousand in total R&D expenditures in FY 2023.

^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^c The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

Note(s):

Institutions are included in the short form population if they reported less than \$1 million in total R&D expenditures during the previous fiscal year. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 6

Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2023

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Alabama	1,582,468
Public	1,556,105
Alabama A&M U.	15,588
Alabama State U.	3,229
Auburn U. System	350,554
Auburn U., Auburn	349,273
Auburn U., Montgomery	1,281
Jacksonville State U.	538
Troy U.	3,785
U. Alabama System	1,128,787
U. Alabama, Birmingham	780,479
U. Alabama, Huntsville	163,428
U. Alabama, Tuscaloosa	184,880
U. North Alabama	442
U. South Alabama	53,182
Private	26,363
Alabama C., Osteopathic Medicine	311
Oakwood U.	427
Tuskegee U.	25,625
Alaska	241,536
Public (U. Alaska System)	239,713
U. Alaska, Anchorage	19,850
U. Alaska, Fairbanks	218,041
U. Alaska, Southeast	1,822
Private	1,823
Alaska Pacific U.	1,823
Arizona	1,940,390
Public	1,939,790
Arizona Board of Regents	1,936,736
Arizona State U.	903,779
Northern Arizona U.	77,533
U. Arizona	955,424
Dine C.	3,054
Private	600
Sonoran U. Health Sciences	600
Arkansas	460,137
Public	458,895
Arkansas State U. System	7,323
Arkansas State U., Jonesboro	7,323
Arkansas Tech U.	668
Southern Arkansas U.	427
U. Arkansas System	447,385
U. Arkansas for Medical Sciences	209,409
U. Arkansas, Fayetteville	221,525
U. Arkansas, Little Rock	8,685
U. Arkansas, Pine Bluff	7,766
U. Central Arkansas	3,092
Private	1,242
Arkansas C. of Health Education	277

TABLE 6

Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2023

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Hendrix C.	587
Ouachita Baptist U.	378
California	13,479,680
Public	9,596,807
California State U. System	546,986
California Polytechnic State U., San Luis Obispo	35,830
California State Polytechnic U., Humboldt	18,800
California State Polytechnic U., Pomona	10,722
California State U., Bakersfield	6,409
California State U., Channel Islands	3,992
California State U., Chico	5,984
California State U., Dominguez Hills	5,558
California State U., East Bay	21,312
California State U., Fresno	11,411
California State U., Fullerton	25,811
California State U., Long Beach	21,458
California State U., Los Angeles	10,186
California State U., Maritime Academy	305
California State U., Monterey Bay	10,678
California State U., Northridge	23,093
California State U., Sacramento	28,027
California State U., San Bernardino	13,152
California State U., San Marcos	11,443
California State U., Stanislaus	2,305
San Diego State U.	158,013
San Francisco State U.	34,466
San Jose State U.	83,406
Sonoma State U.	4,625
Naval Postgraduate School	77,364
U. California System	8,972,457
U. California, Berkeley	1,076,754
U. California, Davis	962,399
U. California, Irvine	609,614
U. California, Los Angeles	1,721,665
U. California, Merced	62,279
U. California, Office of the President	63,629
U. California, Riverside	214,802
U. California, San Diego	1,705,410
U. California, San Francisco	2,046,539
U. California, Santa Barbara	305,483
U. California, Santa Cruz	203,883
Private	3,882,873
Azusa Pacific U.	6,097
Biola U.	1,461
California Baptist U.	554
California Institute of Technology	490,672
California Lutheran U.	1,279
Chapman U.	41,791
Charles R. Drew U. of Medicine and Science	19,551

TABLE 6

Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2023

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
Dominican U. California	1,001	i
Fuller Theological Seminary	271	
High Tech High Graduate School of Ed.	5,939	
La Sierra U.	2,496	i
Life Chiropractic C.-West	350	
Loma Linda U.	22,262	
Loyola Marymount U.	14,086	
Marshall B. Ketchum U.	1,777	i
Occidental C.	4,718	i
Palo Alto U.	473	i
Pepperdine U.	10,632	
Point Loma Nazarene U.	482	
Santa Clara U.	5,679	
Scripps Research Institute	494,946	
Southern California U. of Health Sciences	378	
Stanford U.	1,537,846	
The Claremont Colleges	26,407	
Claremont Graduate U.	7,262	
Claremont McKenna C.	6,925	
Harvey Mudd C.	3,682	
Keck Graduate Institute	4,059	
Pitzer C.	330	
Pomona C.	4,149	
Touro C. and U. System ^a	2,877	
Touro U., California	2,877	
U. of the Pacific	1,972	
U. San Diego	12,902	
U. San Francisco	9,633	
U. Southern California	1,154,804	
Western U. of Health Sciences	8,929	
Westmont C.	388	i
Whittier C.	220	
Colorado	2,087,823	
Public	2,031,062	
Colorado Mesa U.	443	
Colorado School of Mines	104,297	
Colorado State U. System	499,697	
Colorado State U., Fort Collins	498,073	
Colorado State U., Pueblo	1,624	
Fort Lewis C.	3,372	
Metropolitan State U. of Denver	651	
U. Colorado System	1,367,492	
U. Colorado Anschutz Medical Campus	686,026	
U. Colorado Boulder	651,924	
U. Colorado Colorado Springs	7,012	
U. Colorado Denver	22,530	
U. Northern Colorado	9,064	
U.S. Air Force Academy	44,880	
Western Colorado U.	1,166	

TABLE 6

Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2023

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Private	56,761
Colorado C.	2,498
Regis U.	779
U. Denver	53,484
Connecticut	1,759,439
Public	401,668
Connecticut State U. System	10,814
Central Connecticut State U.	934
Eastern Connecticut State U.	1,449
Southern Connecticut State U.	8,007
Western Connecticut State U.	424
U. Connecticut	390,165
U.S. Coast Guard Academy	689
Private	1,357,771
Connecticut C.	1,440
Fairfield U.	1,484
Hartford International U. for Religion and Peace	1,485
Quinnipiac U.	1,218
Sacred Heart U.	4,733
Trinity C., Hartford	4,099
U. Bridgeport	542
U. Hartford	1,533
U. New Haven	3,602
Wesleyan U.	10,828
Yale U.	1,326,807
Delaware	461,627
Public	461,627
Delaware State U.	33,499
U. Delaware	428,128
District of Columbia	925,418
Public	10,439
National Defense U.	2,494
U. of the District of Columbia	7,945
Private	914,979
American U.	76,041
Catholic U. of America	47,022
Gallaudet U.	9,894
George Washington U.	360,260
Georgetown U.	337,006
Howard U.	84,756
Florida	3,524,775
Public (State U. Florida Board of Governors)	2,914,461
Florida A&M U.	65,159
Florida Atlantic U.	77,593
Florida Gulf Coast U.	24,899
Florida International U.	306,434
Florida Polytechnic U.	2,260
Florida State U.	414,463
New C. Florida	1,080

TABLE 6

Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2023

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
U. Central Florida	247,259
U. Florida	1,250,201
U. North Florida	23,269
U. South Florida	461,390
U. West Florida	40,454
Private	610,314
Barry U.	469
Bethune-Cookman U.	682
Eckerd C.	1,599
Embry-Riddle Aeronautical U.	27,451
Florida Institute of Technology	16,859
Jacksonville U.	200
Keiser U.	539
Nova Southeastern U.	50,173
Rollins C.	995
Stetson U.	513
U. Miami	509,951
U. Tampa	883
Georgia	3,667,775
Public (U. System Georgia Board of Regents)	2,448,340
Albany State U.	1,932
Augusta U.	139,121
Clayton State U.	732
Columbus State U.	276
Fort Valley State U.	15,536
Georgia C. and State U.	294
Georgia Gwinnett C.	249
Georgia Institute of Technology	1,405,080
Georgia Southern U.	40,026
Georgia State U.	237,493
Kennesaw State U.	32,497
Savannah State U.	1,706
U. Georgia	570,956
U. North Georgia	1,643
U. West Georgia	574
Valdosta State U.	225
Private	1,219,435
Agnes Scott C.	494
Berry C.	1,046
Clark Atlanta U.	10,320
Emory U.	1,094,328
Life U.	248
Mercer U.	45,247
Morehouse C.	5,750
Morehouse School of Medicine	57,125
Spelman C.	4,877
Hawaii	339,716
Public (U. Hawaii System)	336,803
U. Hawaii, Hilo	8,112

TABLE 6

Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2023

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
U. Hawaii, Manoa	313,143
U. Hawaii, Maui C.	1,376
U. Hawaii, system office	14,172
Private	2,913
Hawaii Pacific U.	2,913
Idaho	207,362
Public	206,906
Boise State U.	52,989
Idaho State U.	17,548
Lewis-Clark State C.	468
U. Idaho	135,901
Private	456
Northwest Nazarene U.	456
Illinois	3,480,636
Public	1,469,491
Chicago State U.	3,756
Eastern Illinois U.	869
Illinois State U.	32,961
Northeastern Illinois U.	2,262
Northern Illinois U.	29,134
Southern Illinois U. System	80,218
Southern Illinois U., Carbondale	58,291
Southern Illinois U., Edwardsville	21,927
U. Illinois System	1,316,467
U. Illinois, Chicago	492,936
U. Illinois, Springfield	2,508
U. Illinois, Urbana-Champaign	821,023
Western Illinois U.	3,824
Private	2,011,145
Augustana C.	351
Benedictine U.	489
Bradley U.	301
DePaul U.	13,267
Elmhurst U.	613
Erikson Institute	2,414
Illinois C. of Optometry	1,324
Illinois Institute of Technology	33,021
Lake Forest C.	562
Loyola U., Chicago	52,445
Midwestern U.	12,725
Northwestern U.	1,114,269
Rosalind Franklin U. of Medicine and Science	11,629
Rush U.	132,394
Toyota Technological Institute, Chicago	4,636
U. Chicago	628,302
Wheaton C., Wheaton	2,403
Indiana	2,152,037
Public	1,811,255
Ball State U.	11,650

TABLE 6

Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2023

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Indiana State U.	1,327
Indiana U.	943,400
Indiana U., Bloomington	853,056
Indiana U., Kokomo	429
Indiana U., Northwest	253
Indiana U., South Bend	1,593
Indiana U., Southeast	421
Indiana U.-Purdue U., Indianapolis	87,648
Purdue U.	854,878
Purdue U., Fort Wayne	2,804
Purdue U., Northwest	7,504
Purdue U., West Lafayette	844,570
Private	340,782
Butler U.	1,396
DePauw U.	430
Earlham C.	815
Indiana Wesleyan U.	852
Manchester U.	249
Marian U., Indianapolis	3,009
Taylor U.	346
U. Evansville	336
U. Notre Dame	331,943
Valparaiso U.	1,036
Wabash C.	370
Iowa	1,104,793
Public (Iowa Board of Regents)	1,087,521
Iowa State U.	420,823
U. Iowa	662,134
U. Northern Iowa	4,564
Private	17,272
Coe C.	802
Cornell C.	563
Des Moines U.	3,932
Dordt U.	712
Drake U.	1,724
Grinnell C.	7,597
Luther C.	217
Palmer C. of Chiropractic	1,725
Palmer C. of Chiropractic, Davenport	1,725
Kansas	1,055,589
Public (Kansas Board of Regents)	1,055,589
Emporia State U.	816
Fort Hays State U.	732
Kansas State U.	217,992
Pittsburg State U.	2,979
U. Kansas	466,222
Wichita State U.	366,848
Kentucky	756,781
Public (Kentucky Council on Postsecondary Education)	756,549

TABLE 6

Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2023

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Eastern Kentucky U.	1,446
Kentucky State U.	11,591
Morehead State U.	2,658
Murray State U.	3,193
Northern Kentucky U.	3,790
U. Kentucky	504,005
U. Louisville	220,568
Western Kentucky U.	9,298
Private	232
Centre C.	232
Louisiana	1,067,223
Public (State of Louisiana Board of Regents)	790,550
Louisiana State U. System	489,324
Louisiana State U., Baton Rouge	384,268
Louisiana State U., Health Sciences Center, New Orleans	68,707
Louisiana State U., Health Sciences Center, Shreveport	35,624
Louisiana State U., Shreveport	725
Southern U. System	13,969
Southern U. and A&M C., Agricultural Research and Extension Center	7,764
Southern U. and A&M C., Baton Rouge	5,201
Southern U., New Orleans	1,004
U. Louisiana System	287,257
Grambling State U.	449
Louisiana Tech U.	31,676
McNeese State U.	435
Nicholls State U.	1,259
Northwestern State U. Louisiana	2,057
Southeastern Louisiana U.	2,858
U. Louisiana, Lafayette	225,924
U. Louisiana, Monroe	2,203
U. New Orleans	20,396
Private	276,673
Dillard U.	2,296
Loyola U., New Orleans	419
Tulane U.	258,439
Xavier U. Louisiana	15,519
Maine	213,096
Public	196,429
Maine Maritime Academy	203
U. Maine System	196,226
U. Maine	188,690
U. Maine Farmington	1,289
U. Maine, Augusta	317
U. Southern Maine	5,930
Private	16,667
Bates C.	2,118
Bowdoin C.	3,339
Colby C.	4,454
U. New England	6,756

TABLE 6

Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2023

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Maryland	5,989,287
Public	2,186,300
Morgan State U.	43,868
St. Mary's C. Maryland	205
U. System Maryland	1,634,866
Bowie State U.	2,612
Coppin State U.	357
Salisbury U.	14,557
Towson U.	17,198
U. Baltimore	6,615
U. Maryland ^b	1,385,302
U. Maryland Center for Environmental Science	53,233
U. Maryland, Baltimore County	144,262
U. Maryland, Eastern Shore	10,730
U.S. Naval Academy	10,920
Uniformed Services U. of the Health Sciences	496,441
Private	3,802,987
Johns Hopkins U. ^c	3,801,585
Loyola U., Maryland	1,110
Maryland Institute C. of Art	292
Massachusetts	5,179,797
Public	827,205
Massachusetts System of Public Higher Education	1,485
Bridgewater State U.	750
Framingham State U.	735
U. Massachusetts System	825,720
U. Massachusetts, Amherst	268,657
U. Massachusetts, Boston	70,978
U. Massachusetts, Dartmouth	42,018
U. Massachusetts, Lowell	117,336
U. Massachusetts, Medical School	326,731
Private	4,352,592
Amherst C.	8,152
Babson C.	1,957
Bentley U.	1,589
Boston C.	81,425
Boston U.	773,200
Brandeis U.	103,653
C. of the Holy Cross	893
Clark U.	11,539
Emerson C.	665
Franklin W. Olin C. of Engineering	2,450
Harvard U.	1,435,218
Hult International Business School	1,159
Massachusetts Institute of Technology	1,000,081
MCPHS U.	426
Merrimack C.	1,560
MGH Institute of Health Professions	7,426
Mount Holyoke C.	2,533

TABLE 6

Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2023

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
New England C. of Optometry	2,491
Northeastern U.	288,558
Simmons U.	620
Smith C.	5,954
Stonehill C.	542
Suffolk U.	5,164
Tufts U.	247,276
Wellesley C.	6,320
Western New England U.	1,115
Williams C.	6,448
Woods Hole Oceanographic Institution	287,825
Worcester Polytechnic Institute	66,353
Michigan	3,371,562
Public	3,268,614
Central Michigan U.	25,363
Eastern Michigan U.	8,363
Ferris State U.	1,915
Grand Valley State U.	6,231
Lake Superior State U.	2,545
Michigan State U.	844,076
Michigan Technological U.	103,819
Northern Michigan U.	1,871
Oakland U.	37,263
Saginaw Valley State U.	3,143
U. Michigan	1,937,957
U. Michigan, Ann Arbor	1,925,875
U. Michigan, Dearborn	10,839
U. Michigan, Flint	1,243
Wayne State U.	250,911
Western Michigan U. and Homer Stryker M.D. School of Medicine	45,157
Private	102,948
Albion C.	276
Andrews U.	1,255
Calvin U.	2,555
Hope C.	6,910
Kalamazoo C.	789
Kettering U.	641
Lawrence Technological U.	4,632
U. Detroit Mercy	5,142
Van Andel Research Institute	80,748
Minnesota	1,372,063
Public	1,354,495
Minnesota State Colleges and Universities System	6,530
Metropolitan State U.	196
Minnesota State U., Mankato	3,055
Minnesota State U., Moorhead	378
St. Cloud State U.	2,901
U. Minnesota	1,347,965
U. Minnesota, Crookston	358

TABLE 6

Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2023

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
U. Minnesota, Duluth	25,534
U. Minnesota, Morris	698
U. Minnesota, Rochester	1,192
U. Minnesota, Twin Cities	1,320,183
Private	17,568
Augsburg U.	917
C. of Saint Benedict	1,400
Carleton C.	4,185
Concordia C., Moorhead	589
Gustavus Adolphus C.	969
Hamline U.	241
Macalester C.	1,935
Saint John's U.	1,479
Saint Mary's U. Minnesota	789
St. Catherine U.	1,060
St. Olaf C.	1,724
U. of St. Thomas (MN)	2,280
Mississippi	608,909
Public (Mississippi State Institutions of Higher Learning)	606,076
Alcorn State U.	19,141
Delta State U.	351
Jackson State U.	19,457
Mississippi State U.	319,684
Mississippi Valley State U.	233
U. Mississippi	172,176
U. Southern Mississippi	75,034
Private	2,833
Tougaloo C.	2,663
William Carey U.	170
Missouri	1,875,957
Public (Missouri Department of Higher Education)	615,547
Lincoln U., Jefferson City	8,196
Missouri State U.	14,654
Northwest Missouri State U.	360
Truman State U.	318
U. Central Missouri	715
U. Missouri System	591,304
Missouri U. of Science and Technology	61,496
U. Missouri, Columbia	462,435
U. Missouri, Kansas City	54,565
U. Missouri, Saint Louis	12,808
Private	1,260,410
A. T. Still U. of Health Sciences	345
Graduate School of the Stowers Institute for Medical Research	666
Kansas City U.	274
Saint Louis U.	85,921
U. of Health Sciences and Pharmacy in St. Louis	4,343
Washington U., Saint Louis	1,168,861
Montana	384,956

TABLE 6

Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2023

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Public (Montana U. System)	384,956
Aaniiih Nakoda C.	1,226
Montana State U.	230,844
Montana State U., Billings	870
Montana State U., Bozeman	229,682
Montana State U., Northern	292
Salish Kootenai C.	553
U. Montana	152,333
Montana Technological U.	18,375
U. Montana, Missoula	133,958
Nebraska	680,711
Public (U. Nebraska System)	651,894
U. Nebraska, Kearney	3,681
U. Nebraska, Lincoln and Medical Center ^d	617,372
U. Nebraska, Omaha	30,841
Private	28,817
Creighton U.	28,443
Doane U.	374
Nevada	327,247
Public (Nevada System of Higher Education)	320,329
C. Southern Nevada	210
Desert Research Institute	30,716
Nevada State C.	1,744
Truckee Meadows Community C.	403
U. Nevada, Las Vegas	98,751
U. Nevada, Reno	188,505
Private	6,918
Roseman U. of Health Sciences	6,065
Touro C. and U. System ^a	853
Touro U., Nevada	853
New Hampshire	592,971
Public (U. System of New Hampshire)	226,115
Keene State C.	1,071
Plymouth State U.	1,361
U. New Hampshire	223,683
Private	366,856
Dartmouth C. and Dartmouth Hitchcock Medical Center	366,856
New Jersey	1,718,753
Public	1,134,098
C. New Jersey	2,641
Kean U.	10,062
Montclair State U.	38,209
New Jersey Institute of Technology	161,078
Ramapo C. New Jersey	346
Rowan U.	47,810
Rutgers, the State U. of New Jersey	871,033
Rutgers, State U. New Jersey, Camden	9,527
Rutgers, State U. New Jersey, New Brunswick	831,719
Rutgers, State U. New Jersey, Newark	29,787

TABLE 6

Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2023

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Stockton U.	2,386
William Paterson U.	533
Private	584,655
Fairleigh Dickinson U.	498
Monmouth U.	2,517
Princeton U.	513,365
Rider U.	522
Seton Hall U.	7,068
Stevens Institute of Technology	60,685
New Mexico	565,224
Public (New Mexico Higher Education Department)	565,224
Eastern New Mexico U., Portales	394
New Mexico Highlands U.	3,468
New Mexico Institute of Mining and Technology	118,735
New Mexico State U.	126,337
Northern New Mexico C.	264
U. New Mexico	316,026
New York	9,069,226
Public	1,806,503
CUNY System	279,813
CUNY, Advanced Science Research Center	17,309
CUNY, Baruch C.	4,084
CUNY, Brooklyn C.	8,535
CUNY, C. Staten Island	4,730
CUNY, City C.	63,159
CUNY, Graduate Center	54,089
CUNY, Graduate School of Public Health and Health Policy	26,651
CUNY, Hunter C.	37,172
CUNY, John Jay C. of Criminal Justice	22,967
CUNY, Lehman C.	5,918
CUNY, Medgar Evers C.	881
CUNY, New York City C. of Technology	2,819
CUNY, Queens C.	25,492
CUNY, system office	4,296
CUNY, York C.	1,711
SUNY System	1,506,197
SUNY, Binghamton U.	141,685
SUNY, Buffalo State U.	2,636
SUNY, C. Brockport	1,877
SUNY, C. Cortland	715
SUNY, C. of Environmental Science and Forestry	32,682
SUNY, C. of Optometry	4,423
SUNY, C. Plattsburgh	1,722
SUNY, Cobleskill	2,566
SUNY, Downstate Health Sciences U.	35,600
SUNY, Farmingdale State C.	631
SUNY, Geneseo	1,958
SUNY, New Paltz	392
SUNY, Old Westbury	634

TABLE 6

Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2023

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
SUNY, Oneonta	305
SUNY, Oswego	1,595
SUNY, Polytechnic Institute	284,677
SUNY, Potsdam	904
SUNY, Stony Brook U.	324,531
SUNY, system office	205
SUNY, U. Albany	141,671
SUNY, U. Buffalo	471,569
SUNY, Upstate Medical U.	53,219
U.S. Military Academy	20,493
Private	7,262,723
Adelphi U.	495
Albany C. of Pharmacy and Health Sciences	2,594
Albany Medical C.	23,259
Albert Einstein C. of Medicine	336,238
Alfred U.	4,154
Bard C.	263
Barnard C.	6,320
Canisius U.	905
Clarkson U.	25,399
Cold Spring Harbor Laboratory	117,483
Colgate U.	4,930
Columbia U. in the City of New York	1,341,952
Cooper Union	571
Cornell U.	1,451,971
Fordham U.	23,832
Hamilton C.	3,285
Hobart and William Smith Colleges	2,373
Hofstra U.	8,162
Icahn School of Medicine at Mount Sinai	972,476
Iona U.	649
Ithaca C.	861
Long Island U.	16,612
Manhattan C.	1,250
Marist C.	386
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	5,324
New School	22,680
New York Institute of Technology	5,790
New York U.	1,457,424
Niagara U.	661
Pace U.	4,056
Pratt Institute	1,558
Rensselaer Polytechnic Institute	121,706
Rochester Institute of Technology	72,405
Rockefeller U.	385,168
Siena C.	764
Skidmore C.	2,384
St. Bonaventure U.	1,037
St. John's U., New York	3,955

TABLE 6

Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2023

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
St. Lawrence U.	521
Syracuse U.	183,850
Teachers C., Columbia U.	34,183
Touro C. and U. System ^a	117,660
New York Medical C.	17,113
Touro U., New York	100,547
U. Rochester	481,227
Union C., Schenectady	1,881
Utica U.	812
Vassar C.	2,596
Yeshiva U.	8,661
North Carolina	4,351,306
Public (U. North Carolina)	2,526,854
Appalachian State U.	8,479
East Carolina U.	67,082
Elizabeth City State U.	1,641
Fayetteville State U.	3,569
North Carolina A&T State U.	62,307
North Carolina Central U.	18,477
North Carolina State U.	633,251
U. North Carolina, Asheville	6,761
U. North Carolina, Chapel Hill	1,549,617
U. North Carolina, Charlotte	92,027
U. North Carolina, general administration	5,735
U. North Carolina, Greensboro	44,521
U. North Carolina, Pembroke	297
U. North Carolina, Wilmington	21,879
Western Carolina U.	2,543
Winston-Salem State U.	8,668
Private	1,824,452
Davidson C.	2,926
Duke U.	1,507,996
Elon U.	2,544
Johnson C. Smith U.	1,602
Shaw U.	412
Wake Forest U.	308,972
North Dakota	374,324
Public (North Dakota U. System)	372,937
Minot State U.	412
North Dakota State U.	190,330
U. North Dakota	182,195
Private	1,387
United Tribes Technical C.	1,387
Ohio	3,396,625
Public	2,603,489
Air Force Institute of Technology	56,848
U. System Ohio Board of Regents	2,546,641
Bowling Green State U.	20,726
Central State U.	11,123

TABLE 6

Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2023

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Cleveland State U.	87,941
Kent State U.	58,984
Miami U.	28,430
Northeast Ohio Medical U.	13,116
Ohio State U.	1,449,188
Ohio U.	59,877
U. Akron	21,525
U. Cincinnati	698,642
U. Toledo	67,656
Wright State U.	26,189
Youngstown State U.	3,244
Private	793,136
Antioch U.	225
Baldwin Wallace U.	463
C. Wooster	2,209
Case Western Reserve U.	553,740
Denison U.	1,012
Heidelberg U.	1,254
John Carroll U.	2,083
Kenyon C.	1,371
Oberlin C.	1,408
Ohio Wesleyan U.	323
U. Dayton	228,723
Wittenberg U.	325
Oklahoma	726,703
Public (Oklahoma State System of Higher Education)	701,668
Oklahoma Agricultural and Mechanical Colleges	249,503
Langston U.	10,505
Oklahoma State U., Center for Health Sciences	12,500
Oklahoma State U., Stillwater	226,498
Oklahoma State System of Higher Education	253
Rogers State U.	253
Regional University System of Oklahoma	9,122
East Central U.	483
Northeastern State U.	187
Southwestern Oklahoma State U.	582
U. Central Oklahoma	7,870
U. Oklahoma	442,790
U. Oklahoma, Norman and Health Science Center	436,964
U. Oklahoma, Tulsa	5,826
Private	25,035
Oral Roberts U.	190
U. Tulsa	24,845
Oregon	1,097,681
Public	1,073,391
Eastern Oregon U.	163
Oregon Health and Science U.	517,742
Oregon Institute of Technology	5,585
Oregon State U.	337,985

TABLE 6

Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2023

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Portland State U.	46,324
Southern Oregon U.	1,092
U. Oregon	164,500
Private	24,290
Lewis and Clark C.	2,686
Linfield U.	271
National U. of Natural Medicine	1,336
Pacific U.	10,719
Reed C.	6,750
U. Portland	986
Willamette U.	1,542
Pennsylvania	5,971,685
Public	2,937,389
Commonwealth U. of Pennsylvania	304
Lincoln U.	628
Pennsylvania State System of Higher Education	17,149
East Stroudsburg U. Pennsylvania	2,928
Indiana U. Pennsylvania	6,052
Kutztown U. Pennsylvania	722
Millersville U. Pennsylvania	224
Pennsylvania Western U.	508
Slippery Rock U. Pennsylvania	583
West Chester U. Pennsylvania	6,132
Pennsylvania State U.	1,223,166
Pennsylvania State U., Abington	320
Pennsylvania State U., Altoona	1,215
Pennsylvania State U., Behrend	7,614
Pennsylvania State U., Berks	640
Pennsylvania State U., Great Valley School of Graduate Professional Studies	712
Pennsylvania State U., Harrisburg	5,159
Pennsylvania State U., New Kensington	378
Pennsylvania State U., University Park and Hershey Medical Center	1,206,793
Pennsylvania State U., Wilkes-Barre	335
Temple U.	292,029
U. Pittsburgh	1,398,078
U. Pittsburgh, Pittsburgh	1,398,078
U.S. Army War C.	6,035
Private	3,034,296
Allegheny C.	532
American C. of Financial Services	376
Arcadia U.	1,321
Bryn Athyn C.	361
Bryn Mawr C.	9,039
Bucknell U.	5,887
Carnegie Mellon U.	484,757
Delaware Valley U.	183
Dickinson C.	1,584
Drexel U.	169,583
Duquesne U.	14,989

TABLE 6

Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2023

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Franklin and Marshall C.	4,111
Gannon U.	889
Geisinger Commonwealth School of Medicine	500
Gettysburg C.	1,099
Haverford C.	4,088
Juniata C.	1,177
La Salle U.	1,045
Lafayette C.	1,991
Lake Erie C. of Osteopathic Medicine	517
Lehigh U.	56,301
Mercyhurst U.	734
Moravian U.	516
Muhlenberg C.	509
Philadelphia C. of Osteopathic Medicine	7,459
Robert Morris U.	1,419
Saint Francis U.	592
Saint Joseph's U.	8,675
Salus U.	663
Susquehanna U.	499
Swarthmore C.	5,620
Thomas Jefferson U.	258,345
U. Pennsylvania	1,953,617
U. Scranton	1,169
Ursinus C.	1,150
Villanova U.	31,513
Widener U., Chester	804
Wilkes U.	682
Rhode Island	520,211
Public	150,671
Naval War C.	5,819
Rhode Island Board of Governors for Higher Education	144,852
Rhode Island C.	839
U. Rhode Island	144,013
Private	369,540
Brown U.	353,591
Bryant U.	558
Providence C.	5,533
Rhode Island School of Design	5,661
Roger Williams U.	3,465
Salve Regina U.	732
South Carolina	922,429
Public	915,834
C. Charleston	7,231
Citadel Military C. South Carolina	3,757
Clemson U.	286,503
Coastal Carolina U.	4,729
Francis Marion U.	308
Medical U. South Carolina	333,826
South Carolina State U.	7,814

TABLE 6

Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2023

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
U. South Carolina	268,477
U. South Carolina Upstate	2,554
U. South Carolina, Aiken	2,250
U. South Carolina, Beaufort	1,466
U. South Carolina, Columbia	262,207
Winthrop U.	3,189
Private	6,595
Benedict C.	2,307
Claflin U.	1,418
Coker U.	398
Converse U.	205
Furman U.	2,267
South Dakota	130,672
Public	129,915
Oglala Lakota C.	588
South Dakota Board of Regents	129,327
Black Hills State U.	2,260
Dakota State U.	5,253
Northern State U.	282
South Dakota School of Mines and Technology	20,337
South Dakota State U.	71,340
U. South Dakota	29,855
Private	757
Augustana U.	757
Tennessee	1,973,429
Public	688,937
Tennessee Board of Regents System	204,947
Austin Peay State U.	3,950
East Tennessee State U.	42,335
Middle Tennessee State U.	9,577
Tennessee State U.	28,246
Tennessee Technological U.	20,797
U. Memphis	100,042
U. Tennessee System	483,990
U. Tennessee, Chattanooga	14,671
U. Tennessee, Health Science Center	130,472
U. Tennessee, Knoxville	338,847
Private	1,284,492
Fisk U.	4,867
Lincoln Memorial U.	1,641
Lipscomb U.	1,946
Meharry Medical C.	22,002
Sewanee: U. of the South	592
Southern C. of Optometry	288
Vanderbilt U. and Vanderbilt U. Medical Center	1,253,156
Texas	8,336,641
Public	7,049,920
Stephen F. Austin State U.	3,661
Texas A&M U. System	1,414,133

TABLE 6

Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2023

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Prairie View A&M U.	21,791
Tarleton State U.	23,345
Texas A&M International U.	5,602
Texas A&M U., College Station and Health Science Center	1,277,814
Texas A&M U.-Central Texas	951
Texas A&M U.-Commerce	7,029
Texas A&M U.-Corpus Christi	39,305
Texas A&M U.-Kingsville	26,401
Texas A&M U.-San Antonio	1,593
West Texas A&M U.	10,302
Texas Southern U.	16,287
Texas State U. System	167,097
Lamar U.	9,168
Sam Houston State U.	11,760
Sul Ross State U.	4,878
Texas State U.	141,291
Texas Tech U. System	303,907
Angelo State U.	946
Midwestern State U.	1,027
Texas Tech U.	240,107
Texas Tech U., Health Sciences Center	48,638
Texas Tech U., Health Sciences Center, El Paso	13,189
Texas Woman's U.	6,922
U. Houston System	236,511
U. Houston	231,942
U. Houston-Clear Lake	2,127
U. Houston-Downtown	1,967
U. Houston-Victoria	475
U. North Texas System	202,610
U. North Texas, Dallas	1,293
U. North Texas, Denton	106,665
U. North Texas, Health Science Center	94,652
U. Texas System	4,698,792
U. Texas Health Science Center, Houston	374,105
U. Texas Health Science Center, San Antonio	281,078
U. Texas Health Science Center, Tyler	32,077
U. Texas M. D. Anderson Cancer Center	1,255,190
U. Texas Medical Branch	233,192
U. Texas of the Permian Basin	2,769
U. Texas Rio Grande Valley	82,444
U. Texas Southwestern Medical Center	800,391
U. Texas, Arlington	147,265
U. Texas, Austin	1,035,838
U. Texas, Dallas	146,779
U. Texas, El Paso	145,724
U. Texas, San Antonio	158,453
U. Texas, Tyler	3,487
Private	1,286,721
Abilene Christian U.	8,182

TABLE 6

Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2023

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Austin C.	388
Baylor C. of Medicine	847,305
Baylor U.	82,074
LeTourneau U.	175
Rice U.	255,115
Southern Methodist U.	59,749
Southwestern U.	575
St. Edward's U.	1,334
Texas Christian U.	24,050
Trinity U.	5,296
U. Dallas	233
U. of the Incarnate Word	2,245
Utah	1,267,198
Public (Utah System of Higher Education)	1,129,450
Southern Utah U.	1,259
U. Utah	723,713
Utah State U.	401,437
Utah Valley U.	2,015
Weber State U.	1,026
Private	137,748
Brigham Young U., Provo	137,748
Vermont	239,734
Public	234,368
U. Vermont	233,806
Vermont State Colleges	562
Castleton U.	162
Northern Vermont U.	400
Private	5,366
Middlebury C.	2,975
Norwich U.	1,637
Saint Michael's C.	754
Virginia	2,299,472
Public	2,273,190
Christopher Newport U.	3,507
Eastern Virginia Medical School	23,991
George Mason U.	252,239
James Madison U.	21,265
Longwood U.	838
Norfolk State U.	6,194
Old Dominion U.	71,334
Radford U.	1,315
U. of Mary Washington	1,115
U. Virginia's C. Wise	1,223
U. Virginia, Charlottesville	714,457
Virginia Commonwealth U.	479,930
Virginia Military Institute	2,350
Virginia Polytechnic Institute and State U.	598,113
Virginia State U.	13,504
William & Mary	81,815

TABLE 6

Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2023

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Private	26,282
Edward Via C. of Osteopathic Medicine	7,597
Hampton U.	9,769
Liberty U.	1,900
Marymount U.	2,601
Roanoke C.	932
U. Lynchburg	182
U. Richmond	3,058
Washington and Lee U.	243
Washington	2,164,509
Public	2,153,894
Central Washington U.	3,683
Eastern Washington U.	2,546
Evergreen State C.	791
Northwest Indian C.	6,184
U. Washington	1,746,072
U. Washington, Bothell	5,738
U. Washington, Seattle	1,734,091
U. Washington, Tacoma	6,243
Washington State U.	378,744
Western Washington U.	15,874
Private	10,615
Gonzaga U.	535
Pacific Lutheran U.	347
Pacific Northwest U. of Health Sciences	307
Saint Martin's U.	152
Seattle Pacific U.	1,671
Seattle U.	3,949
U. Puget Sound	1,613
Whitman C.	1,568
Whitworth U.	473
West Virginia	289,840
Public (West Virginia Higher Education Policy Commission)	289,484
Bluefield State U.	987
Concord U.	807
Marshall U.	33,693
West Liberty U.	910
West Virginia School of Osteopathic Medicine	1,459
West Virginia State U.	5,226
West Virginia U.	246,173
West Virginia U., Institute of Technology	229
Private	356
Future Generations U.	356
Wisconsin	2,219,635
Public (U. Wisconsin System)	1,817,376
U. Wisconsin-Eau Claire	2,191
U. Wisconsin-Green Bay	2,801
U. Wisconsin-La Crosse	2,921
U. Wisconsin-Madison	1,731,949

TABLE 6

Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2023

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
U. Wisconsin-Milwaukee	60,712
U. Wisconsin-Oshkosh	2,087
U. Wisconsin-Platteville	1,481
U. Wisconsin-River Falls	2,772
U. Wisconsin-Stevens Point	4,589
U. Wisconsin-Stout	512
U. Wisconsin-Superior	4,825
U. Wisconsin-Whitewater	536
Private	402,259
Alverno C.	263
Carthage C.	1,013
Concordia U., Wisconsin	291
Lawrence U.	794
Marquette U.	47,819
Medical C. Wisconsin	346,691
Milwaukee School of Engineering	3,317
Northland C.	1,442
St. Norbert C.	629
Wyoming	150,613
Public (Wyoming Department of Education)	150,613
Central Wyoming C.	489
U. Wyoming	150,124
American Samoa	1,055
Public	1,055
American Samoa Community C.	1,055
Guam	22,388
Public (U. Guam Board of Regents)	22,388
U. Guam	22,388
Puerto Rico	119,775
Public (U. Puerto Rico)	109,569
U. Puerto Rico, Aguadilla	741
U. Puerto Rico, Arecibo	150
U. Puerto Rico, Cayey	1,519
U. Puerto Rico, Humacao	2,074
U. Puerto Rico, Mayaguez	13,989
U. Puerto Rico, Medical Sciences Campus	61,235
U. Puerto Rico, Ponce	659
U. Puerto Rico, Rio Piedras	29,202
Private	10,206
Ana G. Mendez U. System	3,071
U. Ana G. Mendez, Carolina	193
U. Ana G. Mendez, Cupey	746
U. Ana G. Mendez, Gurabo	2,132
Polytechnic U. Puerto Rico	1,039
Pontifical Catholic U. Puerto Rico, Ponce	478
San Juan Bautista School of Medicine	740
U. Central del Caribe	4,878
Virgin Islands	20,259
Public	20,259

TABLE 6

Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2023

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
U. of the Virgin Islands	20,259

i = imputed.

^a The Touro College and University System is a private higher education institution with campuses in the states of California, Nevada, and New York. FY 2023 research expenditures across all campuses total \$121,390 thousand.

^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^c Johns Hopkins University includes the Applied Physics Laboratory, with \$2,333,049 thousand in total R&D expenditures in FY 2023.

^d The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 7

Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2023 total R&D expenditures: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
All institutions	-	86,444,096	89,839,693	97,835,067	108,841,148	46,182,382	49,192,709	54,056,186	59,678,935
Johns Hopkins U. ^a	1	3,110,494	3,181,385	3,420,312	3,801,585	2,682,410	2,774,643	2,971,816	3,324,551
U. California, San Francisco	2	1,651,073	1,710,036	1,805,950	2,046,539	676,331	683,179	780,318	858,066
U. Pennsylvania	3	1,579,364	1,631,950	1,791,311	1,953,617	721,308	792,089	873,318	936,469
U. Michigan, Ann Arbor	4	1,673,862	1,639,645	1,770,708	1,925,875	884,880	891,125	970,636	1,041,430
U. Washington, Seattle	5	1,456,902	1,488,645	1,559,708	1,734,091	1,024,195	1,046,377	1,083,090	1,188,836
U. Wisconsin-Madison	6	1,363,931	1,380,075	1,523,513	1,731,949	632,558	646,764	740,854	816,814
U. California, Los Angeles	7	1,392,941	1,454,880	1,536,197	1,721,665	655,030	721,043	848,138	878,571
U. California, San Diego	8	1,403,735	1,425,499	1,533,357	1,705,410	727,289	801,117	970,696	1,083,790
U. North Carolina, Chapel Hill	9	1,159,725	1,205,883	1,361,028	1,549,617	706,145	747,895	827,158	907,710
Stanford U.	10	1,203,950	1,274,483	1,384,555	1,537,846	751,414	811,183	860,125	943,669
Duke U.	11	1,196,638	1,237,686	1,390,538	1,507,996	707,746	776,632	901,807	974,202
New York U.	12	947,293	1,063,704	1,276,038	1,457,424	448,850	547,027	668,381	787,204
Cornell U.	13	1,190,063	1,183,524	1,300,357	1,451,971	562,021	592,359	636,481	705,132
Ohio State U.	14	968,260	1,236,111	1,363,388	1,449,188	539,359	559,797	636,902	694,647
Harvard U.	15	1,239,983	1,254,008	1,308,458	1,435,218	605,603	616,589	628,683	639,953
Georgia Institute of Technology	16	1,048,988	1,114,481	1,231,485	1,405,080	790,518	852,319	940,488	1,083,903
U. Pittsburgh, Pittsburgh	17	1,105,532	1,135,416	1,251,998	1,398,078	689,273	724,993	814,647	916,735
U. Maryland ^b	18	1,103,062	1,142,264	1,228,550	1,385,302	689,125	713,283	750,447	825,546
Columbia U. in the City of New York	19	1,032,909	1,098,570	1,230,924	1,341,952	762,289	831,648	904,346	988,670
Yale U.	20	1,094,135	1,165,148	1,191,201	1,326,807	585,170	647,656	689,270	741,198
U. Minnesota, Twin Cities	21	1,042,382	1,072,961	1,202,084	1,320,183	514,092	570,946	652,384	702,483
Texas A&M U., College Station and Health Science Center	22	1,130,803	1,147,720	1,152,666	1,277,814	517,489	528,057	505,355	546,481
U. Texas M. D. Anderson Cancer Center	23	1,051,297	1,124,971	1,182,536	1,255,190	186,488	217,073	225,659	259,285
Vanderbilt U. and Vanderbilt U. Medical Center	24	824,803	1,019,273	1,086,223	1,253,156	514,299	586,880	666,282	751,019
U. Florida	25	942,223	959,965	1,085,834	1,250,201	397,202	423,154	467,739	529,391
Pennsylvania State U., University Park and Hershey Medical Center	26	991,923	970,544	1,019,940	1,206,793	638,930	622,532	681,159	781,303
Washington U., Saint Louis	27	920,215	989,214	1,047,098	1,168,861	559,882	606,127	681,353	758,464
U. Southern California	28	941,198	955,565	1,039,905	1,154,804	562,120	574,185	601,747	683,819
Northwestern U.	29	874,671	913,178	1,000,695	1,114,269	531,654	572,975	618,771	678,062
Emory U.	30	808,792	852,922	958,281	1,094,328	452,636	515,940	568,149	664,370
U. California, Berkeley	31	840,000	846,872	981,035	1,076,754	349,989	354,478	468,542	496,298
U. Texas, Austin	32	797,199	779,348	845,896	1,035,838	500,409	489,827	536,296	621,223
Massachusetts Institute of Technology	33	987,968	949,076	989,166	1,000,081	488,741	483,526	531,056	559,766
Icahn School of Medicine at Mount Sinai	34	747,014	820,260	893,968	972,476	480,452	554,582	610,646	658,916

TABLE 7

Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2023 total R&D expenditures: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. California, Davis	35	816,693	817,409	883,807	962,399	380,965	373,719	468,468	494,847
U. Arizona	36	760,975	770,031	824,340	955,424	328,807	353,117	374,936	434,700
Arizona State U.	37	673,357	677,303	797,224	903,779	278,150	274,541	309,094	340,880
Indiana U., Bloomington	38	710,850	695,258	751,309	853,056	319,039	326,326	360,300	432,223
Baylor C. of Medicine	39	685,641	716,976	827,005	847,305	315,101	365,472	420,054	440,345
Purdue U., West Lafayette	40	687,144	679,482	754,627	844,570	270,605	295,278	352,890	385,738
Michigan State U.	41	713,197	710,178	759,229	844,076	329,748	349,889	381,504	435,564
Rutgers, State U. New Jersey, New Brunswick	42	688,077	643,955	712,231	831,719	311,743	339,015	351,660	400,930
U. Illinois, Urbana-Champaign	43	689,176	731,268	765,909	821,023	387,853	406,612	420,953	460,491
U. Texas Southwestern Medical Center	44	595,939	632,134	719,002	800,391	242,679	257,611	298,154	336,126
U. Alabama, Birmingham	45	618,226	644,330	713,480	780,479	400,110	423,290	421,223	451,880
Boston U.	46	583,267	652,096	725,402	773,200	339,172	402,443	413,102	409,551
U. Utah	47	607,061	624,737	670,119	723,713	314,023	340,434	367,040	416,079
U. Virginia, Charlottesville	48	652,002	611,313	662,658	714,457	300,348	297,273	332,993	354,748
U. Cincinnati	49	530,138	551,826	615,070	698,642	285,899	309,097	350,392	391,943
U. Colorado Anschutz Medical Campus ^c	50	na	562,855	611,358	686,026	na	363,999	429,949	474,523
U. Iowa	51	538,583	553,876	594,215	662,134	259,639	283,763	314,346	331,824
U. Colorado Boulder	52	525,674	547,724	611,380	651,924	427,869	459,816	507,892	538,715
North Carolina State U.	53	546,290	547,118	583,203	633,251	232,110	239,115	250,582	279,179
U. Chicago	54	458,891	497,651	591,805	628,302	352,447	394,275	456,806	476,689
U. Nebraska, Lincoln and Medical Center ^d	55	na	na	na	617,372	na	na	na	280,120
U. California, Irvine	56	490,597	523,752	534,947	609,614	241,734	255,010	291,393	335,393
Virginia Polytechnic Institute and State U.	57	556,341	542,045	591,861	598,113	210,792	216,733	240,305	282,152
U. Georgia	58	482,786	493,944	545,631	570,956	171,351	188,451	220,343	221,804
Case Western Reserve U.	59	439,778	421,868	467,389	553,740	357,589	340,438	380,423	431,736
Oregon Health and Science U.	60	446,890	452,812	479,226	517,742	321,572	329,016	346,724	374,043
Princeton U.	61	396,502	404,448	461,185	513,365	203,259	205,000	218,390	219,600
U. Miami	62	381,410	375,841	439,300	509,951	224,184	231,001	265,212	291,783
U. Kentucky	63	417,674	429,241	476,517	504,005	200,664	220,703	253,852	265,543
Colorado State U., Fort Collins	64	407,302	447,197	456,911	498,073	287,100	303,901	316,727	354,401
Uniformed Services U. of the Health Sciences	65	324,510	384,490	277,240	496,441	235,202	275,573	194,187	403,671
Scripps Research Institute	66	444,964	485,435	492,639	494,946	243,502	272,181	242,135	278,099
U. Illinois, Chicago	67	412,147	429,585	440,573	492,936	223,030	237,949	251,328	274,424
California Institute of Technology	68	449,651	438,624	478,142	490,672	316,519	293,197	326,401	310,519
Carnegie Mellon U.	69	386,996	402,376	449,707	484,757	217,625	234,993	259,160	279,954

TABLE 7

Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2023 total R&D expenditures: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Rochester	70	397,211	409,255	450,805	481,227	296,241	309,647	334,503	368,190
Virginia Commonwealth U.	71	283,874	364,096	411,729	479,930	152,751	160,995	169,450	184,852
SUNY, U. Buffalo	72	422,038	425,349	439,709	471,569	200,155	210,257	218,231	257,857
U. Kansas	73	368,811	385,637	405,267	466,222	185,007	187,249	200,117	211,111
U. Missouri, Columbia	74	332,180	388,779	432,310	462,435	156,190	163,576	182,432	217,091
U. South Florida ^e	75	333,344	385,965	405,166	461,390	158,958	185,364	206,552	242,224
U. Oklahoma, Norman and Health Science Center	76	362,209	380,048	408,656	436,964	183,728	193,639	210,994	219,964
U. Delaware	77	220,445	231,532	368,107	428,128	144,142	157,725	194,775	202,469
Iowa State U.	78	363,107	360,275	393,184	420,823	165,912	169,177	187,156	195,394
Florida State U.	79	350,430	328,604	355,986	414,463	162,296	150,108	163,744	195,323
Utah State U.	80	304,256	325,223	344,851	401,437	242,156	264,575	280,866	322,336
U. Connecticut	81	280,131	302,329	367,557	390,165	164,848	183,362	230,752	238,701
Rockefeller U.	82	356,217	357,543	360,877	385,168	86,280	96,318	94,693	101,422
Louisiana State U., Baton Rouge	83	286,733	296,673	344,556	384,268	87,895	103,178	111,886	127,243
Washington State U.	84	335,201	357,648	368,396	378,744	154,623	179,536	187,580	207,086
U. Texas Health Science Center, Houston	85	273,862	308,823	342,633	374,105	133,624	165,139	184,205	197,759
Dartmouth C. and Dartmouth Hitchcock Medical Center	86	326,349	330,226	344,126	366,856	142,219	152,335	155,445	168,740
Wichita State U.	87	153,816	192,042	261,519	366,848	53,540	77,427	93,367	142,371
George Washington U.	88	270,369	266,108	275,483	360,260	157,533	161,349	161,867	162,892
Brown U.	89	266,127	276,331	310,780	353,591	185,676	198,574	215,067	239,744
Auburn U., Auburn	90	255,281	266,374	304,439	349,273	73,468	91,157	104,883	125,783
Medical C. Wisconsin	91	264,325	276,850	309,244	346,691	128,783	136,385	152,301	155,403
U. Tennessee, Knoxville	92	320,407	316,273	324,435	338,847	138,402	135,202	149,260	153,637
Oregon State U.	93	268,385	276,955	297,934	337,985	167,494	179,180	192,621	222,169
Georgetown U.	94	258,659	279,932	313,220	337,006	98,682	130,419	127,213	127,370
Albert Einstein C. of Medicine	95	288,654	301,715	318,314	336,238	204,635	214,619	220,780	230,151
Medical U. South Carolina	96	272,590	277,761	284,553	333,826	153,802	162,394	163,395	168,957
U. Notre Dame	97	227,535	240,324	280,604	331,943	104,030	109,891	124,411	147,985
U. Massachusetts, Medical School	98	279,096	347,337	358,204	326,731	192,938	248,873	258,147	223,490
SUNY, Stony Brook U.	99	263,470	274,516	312,698	324,531	146,478	162,972	184,154	192,448
Mississippi State U.	100	280,485	275,143	303,418	319,684	120,616	116,713	138,207	150,804
U. New Mexico	101	243,375	332,566	331,164	316,026	161,627	242,212	232,774	205,351
U. Hawaii, Manoa	102	275,929	271,768	277,323	313,143	163,694	157,772	169,762	192,205
Wake Forest U.	103	244,643	264,216	269,109	308,972	166,596	188,887	180,754	204,713
Florida International U.	104	236,842	246,075	281,665	306,434	103,366	105,309	129,683	156,381

TABLE 7

Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2023 total R&D expenditures: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. California, Santa Barbara	105	254,434	248,961	278,897	305,483	123,198	122,168	161,241	179,896
Temple U.	106	299,707	299,778	301,395	292,029	154,600	153,316	143,580	154,516
Northeastern U.	107	200,068	211,342	231,607	288,558	136,273	143,421	150,093	186,013
Woods Hole Oceanographic Institution	108	227,573	262,048	255,017	287,825	191,186	222,351	211,550	238,554
Clemson U.	109	228,597	237,485	263,158	286,503	82,203	89,883	119,512	129,955
SUNY, Polytechnic Institute	110	355,651	465,273	413,763	284,677	27,998	25,427	32,396	34,393
U. Texas Health Science Center, San Antonio	111	202,572	219,734	238,510	281,078	102,959	106,824	119,071	143,730
U. Massachusetts, Amherst	112	219,389	213,824	245,158	268,657	116,170	116,349	129,044	138,849
U. South Carolina, Columbia	113	219,734	215,374	229,162	262,207	90,243	88,529	106,752	124,330
Tulane U.	114	204,430	205,206	222,605	258,439	107,290	113,819	127,544	152,468
Thomas Jefferson U.	115	171,377	200,393	246,212	258,345	74,676	109,448	114,452	110,366
Rice U.	116	198,681	207,404	216,202	255,115	88,768	95,648	105,345	119,853
George Mason U.	117	218,445	214,207	230,068	252,239	104,070	103,712	119,406	125,437
Wayne State U.	118	243,259	235,519	242,247	250,911	113,137	117,976	126,814	128,521
Tufts U.	119	216,241	224,956	231,224	247,276	148,320	166,809	150,081	154,458
U. Central Florida	120	213,757	218,596	221,488	247,259	101,332	109,310	110,131	124,256
West Virginia U.	121	188,452	199,907	214,081	246,173	79,657	89,802	97,327	114,708
Texas Tech U.	122	199,643	197,739	226,729	240,107	31,475	33,938	45,136	58,922
Georgia State U.	123	202,451	206,472	215,908	237,493	78,199	79,834	81,641	91,331
U. Vermont	124	191,147	195,320	216,307	233,806	97,981	103,554	117,163	128,645
U. Texas Medical Branch	125	180,595	185,759	204,518	233,192	114,103	117,915	123,467	150,272
U. Houston	126	200,428	202,536	240,126	231,942	71,779	77,489	84,295	99,450
Montana State U., Bozeman	127	166,285	193,577	200,820	229,682	93,759	113,257	118,974	142,965
U. Dayton	128	163,718	191,228	211,494	228,723	154,101	181,445	203,206	216,729
Oklahoma State U., Stillwater	129	187,060	198,799	195,041	226,498	39,873	47,428	53,885	64,098
U. Louisiana, Lafayette	130	164,070	181,400	205,201	225,924	40,044	65,436	77,110	84,898
U. New Hampshire	131	156,901	167,373	206,392	223,683	100,373	99,323	129,721	152,377
U. Arkansas, Fayetteville	132	165,887	164,443	184,080	221,525	47,454	48,534	64,252	82,164
U. Louisville	133	198,818	200,362	229,582	220,568	88,251	97,179	117,363	100,890
U. Alaska, Fairbanks	134	152,299	172,957	202,516	218,041	101,414	128,229	154,742	156,702
Kansas State U.	135	213,900	203,846	212,974	217,992	79,100	77,779	81,820	82,610
U. California, Riverside	136	184,894	189,600	199,135	214,802	92,503	97,182	114,257	120,524
U. Arkansas for Medical Sciences	137	174,549	194,709	205,493	209,409	70,508	83,387	95,080	94,483
U. California, Santa Cruz	138	150,400	160,615	176,760	203,883	76,468	86,263	107,082	112,847
North Dakota State U.	139	155,645	164,050	174,904	190,330	31,614	42,824	45,343	53,339

TABLE 7

Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2023 total R&D expenditures: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Maine	140	134,183	146,801	171,931	188,690	54,376	65,249	84,072	92,870
U. Nevada, Reno	141	159,790	175,386	181,782	188,505	64,793	77,246	83,631	83,603
U. Alabama, Tuscaloosa	142	95,200	129,509	163,204	184,880	43,017	53,880	67,986	86,244
Syracuse U.	143	149,652	151,717	157,407	183,850	31,861	34,200	33,976	46,595
U. North Dakota	144	111,663	143,506	147,717	182,195	44,153	58,463	62,737	65,890
U. Mississippi	145	122,960	116,175	152,903	172,176	82,361	76,886	84,270	85,186
Drexel U.	146	143,123	152,752	151,903	169,583	82,576	93,517	99,399	108,724
U. Oregon	147	114,259	139,193	160,500	164,500	81,278	82,242	97,238	100,265
U. Alabama, Huntsville	148	131,648	149,792	169,532	163,428	104,288	116,971	132,060	126,040
New Jersey Institute of Technology	149	163,447	166,587	167,135	161,078	85,746	77,057	71,326	70,080
U. Texas, San Antonio	150	138,586	145,362	147,629	158,453	34,334	42,952	54,384	58,171
San Diego State U.	151	97,710	107,681	129,762	158,013	41,117	43,473	55,671	68,045
U. Wyoming	152	93,061	93,202	139,764	150,124	57,353	54,444	68,772	68,467
U. Texas, Arlington	153	133,793	126,477	133,770	147,265	44,950	46,946	56,025	56,337
U. Texas, Dallas	154	132,192	122,825	130,914	146,779	55,983	58,249	60,706	66,127
U. Texas, El Paso	155	108,628	109,410	130,501	145,724	39,126	43,930	60,387	70,873
U. Maryland, Baltimore County	156	83,867	84,418	110,319	144,262	59,391	59,882	65,368	86,573
U. Rhode Island	157	109,967	129,296	129,102	144,013	67,242	78,923	93,190	102,056
SUNY, Binghamton U.	158	117,870	124,565	130,882	141,685	24,564	23,225	24,888	31,601
SUNY, U. Albany	159	138,088	114,501	129,796	141,671	67,039	56,425	51,492	62,935
Texas State U.	160	70,714	72,510	110,102	141,291	26,950	31,116	38,936	44,297
Augusta U.	161	103,961	116,480	127,313	139,121	55,797	61,943	64,609	64,410
Brigham Young U., Provo	162	38,569	43,916	45,610	137,748	24,632	30,439	31,636	31,216
U. Idaho	163	112,810	105,895	115,603	135,901	51,450	51,021	56,160	61,531
U. Montana, Missoula	164	110,218	121,571	125,603	133,958	62,067	70,686	73,507	75,490
Rush U.	165	94,438	107,398	114,874	132,394	65,343	73,279	79,647	93,180
U. Tennessee, Health Science Center	166	99,716	109,562	115,161	130,472	48,264	56,021	60,221	70,676
New Mexico State U.	167	107,275	110,580	121,472	126,337	60,971	64,699	71,718	71,764
Rensselaer Polytechnic Institute	168	122,753	119,056	121,809	121,706	52,150	52,465	50,605	56,445
New Mexico Institute of Mining and Technology	169	24,591	28,745	89,900	118,735	22,922	24,900	72,594	100,873
Cold Spring Harbor Laboratory	170	115,198	114,903	118,034	117,483	62,215	56,907	59,163	54,123
U. Massachusetts, Lowell	171	92,216	94,708	111,144	117,336	41,304	48,179	62,195	61,413
U. North Texas, Denton	172	84,239	81,252	93,538	106,665	13,653	18,702	23,056	30,017
Colorado School of Mines	173	78,517	81,443	98,404	104,297	55,560	61,421	66,200	68,795
Michigan Technological U.	174	77,927	81,715	91,084	103,819	36,172	41,505	48,766	52,102

TABLE 7

Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2023 total R&D expenditures: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Brandeis U.	175	91,355	95,001	102,378	103,653	41,440	43,471	44,205	46,654
Touro U., New York ^f	176	439	419	576	100,547	73	77	19	40,008
U. Memphis	177	69,463	67,092	71,271	100,042	18,063	21,578	24,686	26,913
U. Nevada, Las Vegas	178	105,872	101,009	94,967	98,751	29,252	27,178	28,867	38,815
U. North Texas, Health Science Center	179	42,766	50,698	72,675	94,652	25,917	32,464	55,062	77,660
U. North Carolina, Charlotte	180	50,050	51,877	43,126	92,027	27,618	27,145	26,871	33,784
Cleveland State U.	181	78,189	71,451	81,225	87,941	53,756	47,402	53,395	56,550
Indiana U.-Purdue U., Indianapolis	182	70,778	65,330	64,162	87,648	31,862	30,290	29,353	39,869
Saint Louis U.	183	69,528	79,005	82,740	85,921	34,419	41,411	42,170	44,157
Howard U.	184	44,933	52,412	67,594	84,756	29,256	35,443	37,331	47,662
San Jose State U.	185	47,301	60,100	71,695	83,406	34,102	30,877	30,984	31,780
U. Texas Rio Grande Valley	186	56,702	58,187	64,401	82,444	13,093	13,018	18,317	25,068
Baylor U.	187	39,765	48,809	66,014	82,074	8,851	11,025	15,856	17,147
William & Mary	188	66,763	68,801	75,953	81,815	30,436	29,928	33,730	32,631
Boston C.	189	63,063	65,156	68,958	81,425	31,038	34,257	36,560	39,356
Van Andel Research Institute	190	58,982	65,789	78,626	80,748	18,538	22,231	29,424	30,934
Florida Atlantic U.	191	53,845	58,471	61,748	77,593	23,695	28,510	28,641	35,108
Northern Arizona U.	192	64,456	69,129	66,729	77,533	39,387	41,744	43,453	50,491
Naval Postgraduate School	193	62,903	65,101	64,055	77,364	51,870	54,855	44,852	62,715
American U.	194	71,839	65,912	67,616	76,041	16,123	12,076	14,752	17,462
U. Southern Mississippi	195	72,322	67,417	72,477	75,034	42,870	44,401	48,368	48,374
Rochester Institute of Technology	196	57,777	56,043	62,383	72,405	28,092	31,187	33,373	37,334
South Dakota State U.	197	60,939	51,542	59,590	71,340	22,531	18,607	22,991	28,897
Old Dominion U.	198	65,704	62,332	64,877	71,334	30,330	25,514	27,804	31,104
U. Massachusetts, Boston	199	64,219	63,723	65,215	70,978	27,575	23,673	23,131	27,098
Louisiana State U., Health Sciences Center, New Orleans	200	43,419	44,370	53,995	68,707	31,381	34,272	33,087	35,933
U. Toledo	201	54,100	53,169	64,654	67,656	27,770	32,601	36,694	37,872
East Carolina U.	202	57,820	51,662	55,693	67,082	20,168	22,813	29,648	30,851
Worcester Polytechnic Institute	203	43,092	48,702	56,904	66,353	26,074	30,166	34,004	37,736
Florida A&M U.	204	41,319	47,124	50,636	65,159	33,136	36,761	41,943	54,363
U. California, Office of the President	205	60,686	50,848	54,640	63,629	217	653	158	25
CUNY, City C.	206	45,632	57,361	65,569	63,159	30,106	34,218	38,596	38,669
North Carolina A&T State U.	207	36,151	40,751	47,908	62,307	22,338	25,755	29,094	37,152
U. California, Merced	208	45,966	45,964	48,147	62,279	20,000	18,621	23,421	28,576
Missouri U. of Science and Technology	209	47,001	54,437	53,357	61,496	22,860	26,164	28,792	32,457

TABLE 7

Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2023 total R&D expenditures: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Puerto Rico, Medical Sciences Campus	210	37,217	44,111	47,578	61,235	27,033	33,262	35,050	46,789
U. Wisconsin-Milwaukee	211	61,069	55,664	56,822	60,712	25,354	24,397	24,036	25,612
Stevens Institute of Technology	212	44,747	43,386	53,563	60,685	33,461	33,998	41,836	44,036
Ohio U.	213	51,914	49,764	52,465	59,877	15,543	19,164	20,587	21,919
Southern Methodist U.	214	43,081	41,960	57,544	59,749	17,752	17,886	17,680	19,986
Kent State U.	215	50,307	50,408	52,175	58,984	15,004	15,179	16,195	17,959
Southern Illinois U., Carbondale	216	41,617	47,210	46,967	58,291	12,735	12,655	13,582	17,209
Morehouse School of Medicine	217	29,813	32,637	42,489	57,125	22,500	25,181	31,339	41,069
Air Force Institute of Technology	218	35,584	45,703	44,391	56,848	22,854	27,025	32,479	45,087
Lehigh U.	219	38,064	41,279	51,769	56,301	26,816	29,051	36,535	39,909
U. Missouri, Kansas City	220	36,356	33,855	52,657	54,565	22,320	21,203	31,134	28,115
CUNY, Graduate Center	221	4,787	4,265	5,509	54,089	2,561	2,496	2,535	2,792
U. Denver	222	41,349	38,751	45,561	53,484	24,753	23,415	26,040	33,148
U. Maryland Center for Environmental Science	223	54,560	51,201	53,718	53,233	15,498	14,072	15,109	15,378
SUNY, Upstate Medical U.	224	41,557	44,870	50,586	53,219	23,940	24,974	27,737	30,069
U. South Alabama	225	51,102	47,610	43,491	53,182	21,825	23,758	23,762	28,637
Boise State U.	226	43,307	46,065	47,617	52,989	26,914	31,357	32,015	35,801
Loyola U., Chicago	227	39,365	44,036	46,169	52,445	24,018	26,793	26,972	29,712
Nova Southeastern U.	228	26,035	24,513	31,189	50,173	10,452	10,386	9,314	11,637
Texas Tech U., Health Sciences Center	229	44,135	41,583	46,574	48,638	13,043	12,148	14,620	14,732
Marquette U.	230	37,136	37,087	40,638	47,819	13,187	13,918	15,316	20,055
Rowan U.	231	26,018	26,458	29,949	47,810	15,551	17,400	18,613	18,454
Catholic U. of America	232	25,221	35,548	38,191	47,022	22,503	23,128	26,285	35,502
Portland State U.	233	43,667	41,311	41,483	46,324	31,315	29,842	30,922	31,731
Mercer U.	234	49,116	51,989	50,222	45,247	31,572	34,413	32,504	29,944
Western Michigan U. and Homer Stryker M.D. School of Medicine	235	24,541	25,314	27,768	45,157	13,187	13,944	12,895	12,631
U.S. Air Force Academy	236	42,197	32,086	36,506	44,880	33,554	31,818	35,826	44,056
U. North Carolina, Greensboro	237	28,966	37,033	41,303	44,521	20,447	24,423	29,822	31,581
Morgan State U.	238	17,193	20,628	29,482	43,868	14,101	16,319	24,670	30,451
East Tennessee State U.	239	13,925	18,449	23,420	42,335	7,329	8,358	9,715	10,776
U. Massachusetts, Dartmouth	240	26,836	28,729	33,136	42,018	6,506	8,223	11,162	13,742
Chapman U.	241	26,660	25,820	34,212	41,791	7,850	8,574	11,098	10,015
U. West Florida	242	37,397	36,837	38,870	40,454	12,369	13,313	17,114	17,954
Georgia Southern U.	243	12,166	37,201	36,362	40,026	1,790	3,373	2,605	3,562
Texas A&M U.-Corpus Christi	244	32,284	30,500	36,014	39,305	13,349	10,967	15,229	17,742

TABLE 7

Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2023 total R&D expenditures: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Montclair State U.	245	17,636	17,390	32,202	38,209	3,782	4,146	5,189	5,916
Oakland U.	246	12,949	20,261	38,061	37,263	5,068	7,426	9,533	9,600
CUNY, Hunter C.	247	38,345	33,816	35,348	37,172	26,025	23,166	21,142	22,124
California Polytechnic State U., San Luis Obispo	248	26,605	25,953	33,155	35,830	10,178	11,163	15,084	14,810
Louisiana State U., Health Sciences Center, Shreveport	249	25,321	24,600	29,502	35,624	11,452	12,359	15,503	18,742
SUNY, Downstate Health Sciences U.	250	33,204	34,459	30,918	35,600	26,454	27,620	25,081	28,543
San Francisco State U.	251	33,828 i	35,768	36,617	34,466	15,834 i	15,993	15,276	16,507
Teachers C., Columbia U.	252	22,630	24,335	30,978	34,183	7,614	8,521	10,177	11,871
Marshall U.	253	22,250	23,620	25,692	33,693	11,078	12,854	16,369	19,797
Delaware State U.	254	23,105 i	23,193	29,016	33,499	14,319 i	16,460	24,361	24,167
Illinois Institute of Technology	255	29,122	29,698	29,791	33,021	24,244	24,762	25,963	28,027
Illinois State U.	256	31,539	24,152	25,510	32,961	8,719	9,787	8,673	13,612
SUNY, C. of Environmental Science and Forestry	257	29,296	28,440	32,904	32,682	7,809	6,979	7,766	9,231
Kennesaw State U.	258	17,954	18,880	21,705	32,497	1,983	3,104	3,290	5,908
U. Texas Health Science Center, Tyler	259	21,265	27,928	33,872	32,077	7,732	12,007	14,362	12,555
Louisiana Tech U.	260	26,585	27,417	26,591	31,676	7,167	6,428	5,734	8,118
Villanova U.	261	25,505	24,723	25,955	31,513	4,921	5,826	6,476	8,741
U. Nebraska, Omaha	262	16,134	19,006	24,259	30,841	9,996	13,503	17,301	22,096
Desert Research Institute	263	26,428	26,365	28,478	30,716	15,791	16,641	17,341	20,061
U. South Dakota	264	29,279	27,537	30,322	29,855	13,034	11,664	13,702	14,101
Rutgers, State U. New Jersey, Newark	265	28,006	23,854	28,345	29,787	16,196	16,281	16,099	16,315
U. Puerto Rico, Rio Piedras	266	22,895	28,896	28,083	29,202	14,071	15,108	16,905	16,053
Northern Illinois U.	267	25,420	25,261	27,068	29,134	8,030	9,080	9,840	10,849
Creighton U.	268	20,339	23,251	27,609	28,443	7,583	8,585	12,022	12,681
Miami U.	269	24,489	25,138	28,799	28,430	10,473	9,412	10,277	10,724
Tennessee State U.	270	25,942	21,977 i	18,012	28,246	19,272	15,066 i	10,859	15,983
California State U., Sacramento	271	24,939	23,699	23,795	28,027	5,693	5,582	6,646	11,284
Embry-Riddle Aeronautical U.	272	17,786	19,830	28,650	27,451	11,542	14,859	23,863	23,733
CUNY, Graduate School of Public Health and Health Policy	273	12,177	15,035	16,423	26,651	8,722	12,254	11,880	13,413
Texas A&M U.-Kingsville	274	22,745	23,578	23,451	26,401	9,610	9,265	8,225	9,584
Wright State U.	275	49,825	26,259	27,440	26,189	35,321	19,617	20,529	19,081
California State U., Fullerton	276	5,929	9,006	16,642	25,811	4,121	4,551	6,136	6,049
Tuskegee U.	277	20,973	21,355	21,941	25,625	15,122	15,424	14,911	16,023
U. Minnesota, Duluth	278	26,137	23,767	23,362	25,534	6,454	5,325	6,122	7,533
CUNY, Queens C.	279	16,470	16,063	21,434	25,492	12,726	12,386	14,756	17,811

TABLE 7

Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2023 total R&D expenditures: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Clarkson U.	280	15,104	16,765	21,703	25,399	7,095	7,246	8,834	10,611
Central Michigan U.	281	17,448	21,726	25,105	25,363	7,450	6,919	9,773	9,591
Florida Gulf Coast U.	282	6,671	8,197	9,896	24,899	5,304	4,467	6,482	9,858
U. Tulsa	283	18,787	17,187	17,416	24,845	4,697	5,876	5,893	8,545
Texas Christian U.	284	15,326	15,336	18,353	24,050	3,168	4,448	5,670	7,627
Eastern Virginia Medical School	285	20,870	19,415	22,165	23,991	15,748	14,774	17,616	17,947
Fordham U.	286	20,456	16,731	20,432	23,832	3,831	4,076	4,856	4,687
Tarleton State U.	287	14,890	17,729	20,056	23,345	4,139	4,620	5,055	5,478
U. North Florida	288	13,573	15,782	18,394	23,269	4,568	7,267	7,758	8,113
Albany Medical C.	289	23,510	22,443	22,297	23,259	12,940	13,166	13,384	14,193
California State U., Northridge	290	21,228	16,573	19,638	23,093	17,261	13,989	15,546	19,169
CUNY, John Jay C. of Criminal Justice	291	13,939	11,791	16,233	22,967	5,297	3,519	5,777	7,452
New School	292	13,186	14,281	19,218	22,680	1,050	1,324	1,261	1,337
U. Colorado Denver ^c	293	na	18,039	18,080	22,530	na	11,866	12,668	17,181
U. Guam	294	13,043	17,666	20,481	22,388	9,722	14,316	17,066	18,992
Loma Linda U.	295	15,984 ⁱ	14,029	15,517	22,262	11,385 ⁱ	10,116	9,134	12,485
Meharry Medical C.	296	13,870	15,840	17,960	22,002	12,573	13,784	15,048	18,398
Southern Illinois U., Edwardsville	297	18,273	18,044	19,152	21,927	3,467	3,844	3,250	3,621
U. North Carolina, Wilmington	298	16,544	16,656	20,053	21,879	6,783	6,852	7,178	8,116
Prairie View A&M U.	299	18,723	17,582	20,429	21,791	9,249	9,566	11,665	12,354
U. Akron	300	23,496	17,340	19,943	21,525	10,574	9,024	11,036	10,709
California State U., Long Beach	301	16,684	15,134	17,807	21,458	12,014	11,178	11,739	13,758
California State U., East Bay	302	9,072	10,852	19,035	21,312	2,348	3,289	8,997	8,508
James Madison U.	303	10,247	14,687	17,021	21,265	2,609	2,379	2,884	3,475
Tennessee Technological U.	304	14,085	15,387	16,398	20,797	6,471	7,625	8,156	9,975
Bowling Green State U.	305	18,729	18,619	19,342	20,726	6,397	7,263	7,918	8,208
U.S. Military Academy	306	12,473	19,696	20,841	20,493	8,406	13,708	19,708	19,390
U. New Orleans	307	16,594	16,979	21,911	20,396	3,868	3,674	8,270	5,283
South Dakota School of Mines and Technology	308	14,490	15,746	20,061	20,337	10,659	11,587	15,100	14,640
U. of the Virgin Islands	309	13,631	15,231	20,259	20,259	11,787	13,099	19,127	19,127
U. Alaska, Anchorage	310	22,713	21,332	21,024	19,850	15,290	15,079	15,249	12,646
Charles R. Drew U. of Medicine and Science	311	13,682	13,228	14,581	19,551	9,863	9,945	10,656	13,297
Jackson State U.	312	15,081	16,157	17,481	19,457	13,662	14,038	15,045	16,443
Alcorn State U.	313	13,710	14,188	16,664 ⁱ	19,141	7,023	7,593	9,294 ⁱ	10,996
California State Polytechnic U., Humboldt	314	14,236	14,103	15,612	18,800	2,399	1,975	2,421	3,280

TABLE 7

Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2023 total R&D expenditures: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed						
		2020	2021	2022	2023	2020	2021	2022	2023			
North Carolina Central U.	315	15,833	14,105	16,600	18,477	i	12,787	10,676	13,709	15,188	i	
Montana Technological U.	316	12,987	14,933	14,188	18,375		4,322	6,133	5,600	9,585		
Idaho State U.	317	14,478	13,953	16,615	17,548		7,849	7,216	9,080	9,230		
CUNY, Advanced Science Research Center	318	11,373	15,403	16,507	17,309		9,208	11,840	12,580	11,916		
Towson U.	319	3,612	3,794	8,788	17,198		2,010	1,758	2,844	3,653		
New York Medical C.	320	20,137	18,872	16,461	17,113		12,106	10,739	9,070	8,226		
Florida Institute of Technology	321	18,271	23,195	17,706	16,859		10,999	13,049	10,970	11,520		
Long Island U.	322	13,997	15,059	17,183	16,612		1,349	2,686	2,652	1,993		
Texas Southern U.	323	10,138	9,128	12,120	16,287		6,249	5,562	7,550	10,969		
Western Washington U.	324	12,823	13,450	15,081	15,874		3,966	4,290	6,347	6,598		
Alabama A&M U.	325	8,749	9,180	i	9,611		15,588	5,643	7,432	i	9,221	12,197
Fort Valley State U.	326	4,921	4,842		9,969		15,536	4,806	4,429	7,265	7,505	
Xavier U. Louisiana	327	11,387	12,799		14,156		15,519	9,680	11,213	11,733	12,833	
Duquesne U.	328	17,485	10,521		13,944		14,989	4,981	5,020	6,309	6,555	
U. Tennessee, Chattanooga	329	10,834	11,192		12,808		14,671	3,915	4,507	5,214	6,003	
Missouri State U.	330	13,131	10,014		11,162		14,654	12,310	8,931	10,084	12,973	
Salisbury U.	331	9,496	10,552		10,614		14,557	2,413	3,271	3,734	5,049	
U. Hawaii, system office	332	13,568	12,918		12,646		14,172	13,367	12,688	12,511	14,150	
Loyola Marymount U.	333	7,193	12,819		12,773		14,086	1,105	2,170	2,824	2,921	
U. Puerto Rico, Mayaguez	334	26,553	18,368		18,274		13,989	15,842	13,073	16,223	12,260	
Virginia State U.	335	10,014	10,123		12,326		13,504	5,642	4,846	7,115	7,166	
DePaul U.	336	6,557	6,675		8,362		13,267	5,156	4,518	3,757	5,592	
Texas Tech U., Health Sciences Center, El Paso	337	10,421	11,360		14,206		13,189	1,703	1,831	2,339	2,415	
California State U., San Bernardino	338	10,819	11,607		11,929		13,152	5,886	5,867	6,693	7,606	
Northeast Ohio Medical U.	339	15,758	13,853		13,465		13,116	10,684	9,999	9,400	8,873	
U. San Diego	340	8,607	7,580		10,143		12,902	2,398	2,554	2,911	3,501	
U. Missouri, Saint Louis	341	15,352	14,632		13,247		12,808	6,146	5,812	4,573	4,569	
Midwestern U.	342	10,479	10,961		11,069		12,725	936	1,506	1,609	2,862	
Oklahoma State U., Center for Health Sciences	343	8,378	7,758		8,368		12,500	2,618	2,304	3,366	4,773	
Sam Houston State U.	344	12,437	13,315		12,009		11,760	4,764	5,632	4,936	3,307	
Ball State U.	345	9,429	8,826		9,932		11,650	2,397	2,469	5,302	6,355	
Rosalind Franklin U. of Medicine and Science	346	14,601	13,805		12,988		11,629	8,504	9,357	7,292	7,124	
Kentucky State U.	347	7,963	8,756		9,284		11,591	4,456	3,716	4,743	7,605	
Clark U.	348	10,277	7,931		8,813		11,539	3,350	2,754	2,500	2,235	
California State U., San Marcos	349	13,250	10,213		9,238		11,443	11,547	8,831	7,986	9,845	

TABLE 7

Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2023 total R&D expenditures: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
California State U., Fresno	350	8,856	9,213	12,603	11,411	3,117	4,101	5,928	4,864
Central State U.	351	6,107	8,751	10,274	11,123	3,097	4,165	5,576	5,523
U.S. Naval Academy	352	13,123	10,818	10,664	10,920	12,577	10,247	10,147	10,260
U. Michigan, Dearborn	353	8,777	7,472	8,180	10,839	2,264	2,366	2,537	3,464
Wesleyan U.	354	8,300	8,009	10,101	10,828	4,305	4,032	5,267	5,955
U. Maryland, Eastern Shore	355	8,092	8,636	9,274	10,730	8,084	8,346	9,062	10,201
California State Polytechnic U., Pomona	356	7,396	7,011	7,909	10,722	5,514	4,396	5,407	8,162
Pacific U.	357	5,842	4,690	6,128	10,719	2,596	2,072	2,672	7,133
California State U., Monterey Bay	358	5,874	6,882	8,975	10,678	3,889	3,813	5,051	5,639
Pepperdine U.	359	2,006	2,655	3,775	10,632	693	835	883	674
Langston U.	360	14,409	6,345	6,481	10,505	9,004	3,089	3,616	5,473
Clark Atlanta U.	361	8,452	8,892	8,791	10,320	5,324	5,355	5,895	7,687
West Texas A&M U.	362	6,220	9,920	9,438	10,302	1,542	2,195	2,123	2,118
California State U., Los Angeles	363	10,590	9,382	9,839	10,186	8,380	7,342	8,605	8,973
Kean U.	364	2,201	3,538	5,499	10,062	775	362	715	1,870
Gallaudet U.	365	4,599	6,126	6,360	9,894	1,841	2,140	3,287	5,523
Hampton U.	366	11,402	11,669	11,462	9,769	11,278	11,517	11,274	9,445
U. San Francisco	367	2,161	1,375	2,657	9,633	148	255	547	1,015
Middle Tennessee State U.	368	8,697	22,531	22,631	9,577	3,062	4,150	4,347	3,822
Rutgers, State U. New Jersey, Camden	369	3,950	5,142	6,480	9,527	1,952	2,905	3,349	3,042
Western Kentucky U.	370	8,241	6,944	7,720	9,298	3,265	2,348	3,127	3,401
Lamar U.	371	4,327	4,734	5,304	9,168	2,146	1,873	1,180	2,259
U. Northern Colorado	372	3,738	3,159	3,308	9,064	1,853	1,942	1,692	1,705
Bryn Mawr C.	373	11,575	8,987	9,123	9,039	1,531	1,429	1,257	1,289
Western U. of Health Sciences	374	5,899	6,688	9,029	8,929	4,486	5,620	7,131	6,099
U. Arkansas, Little Rock	375	9,711	7,397	7,530	8,685	7,289	6,939	6,675	7,544
Saint Joseph's U.	376	3,150	2,922	9,041	8,675	1,047	1,158	2,520	2,680
Winston-Salem State U.	377	5,781	8,123	10,436	8,668	4,498	4,841	8,903	7,901
Yeshiva U.	378	2,763	5,452	7,274	8,661	772	1,509	1,695	1,229
CUNY, Brooklyn C.	379	7,074	6,318	6,220	8,535	4,651	4,505	4,623	5,518
Appalachian State U.	380	4,894	4,509	7,189	8,479	1,469	1,694	2,567	3,497
Eastern Michigan U.	381	9,088	7,233	8,025	8,363	2,598	2,237	2,346	2,521
Lincoln U., Jefferson City	382	5,777	7,621	11,500	8,196	3,636	5,621	8,988	4,610
Abilene Christian U.	383	2,631	4,597	6,310	8,182	999	827	1,032	946
Hofstra U.	384	1,445	5,545	6,939	8,162	997	1,266	2,118	1,995

TABLE 7

Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2023 total R&D expenditures: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Amherst C.	385	4,906	4,636	7,177	8,152	1,775	1,375	2,862	2,869
U. Hawaii, Hilo	386	6,992	7,411	8,001	8,112	5,274	5,510	5,292	6,068
Southern Connecticut State U.	387	5,413	5,750	6,286	8,007	1,026	713	848	1,433
U. of the District of Columbia	388	4,590	8,104	10,779	7,945	2,664	6,851	9,859	7,367
U. Central Oklahoma	389	5,788 i	5,997 i	7,070 i	7,870 i	1,444 i	1,516 i	1,869 i	2,071 i
South Carolina State U.	390	4,697 i	5,735 i	6,773 i	7,814	4,076 i	4,493 i	4,910 i	5,330
U. Arkansas, Pine Bluff	391	8,540	8,713	7,506	7,766	4,393	3,960	3,306	4,204
Southern U. and A&M C., Agricultural Research and Extension Center	392	4,475	6,164	7,048	7,764	2,085	3,588	4,261	4,688
Pennsylvania State U., Behrend	393	1,743	5,509	6,384	7,614	543	2,286	3,262	4,378
Edward Via C. of Osteopathic Medicine	394	7,475	6,629	7,121	7,597	566	537	482	678
Grinnell C.	394	5,826	4,122	5,867	7,597	644	344	242	1,082
Purdue U., Northwest	396	5,839	5,647	6,387	7,504	1,996	2,280	3,171	3,409
Philadelphia C. of Osteopathic Medicine	397	3,360	6,186	6,667	7,459	422	318	40	442
MGH Institute of Health Professions	398	3,549	3,037	5,805	7,426	3,014	2,500	4,628	6,200
Arkansas State U., Jonesboro	399	8,640	8,422	8,214	7,323	4,712	4,249	3,932	3,083
Claremont Graduate U.	400	9,403	7,235	8,382	7,262	809	1,152	1,610	1,422
C. Charleston	401	5,728	6,361	6,421	7,231	3,087	4,126	4,485	5,036
Seton Hall U.	402	5,718	5,320	5,741	7,068	2,725	2,137	2,092	2,778
Texas A&M U.-Commerce	403	4,166	3,827	4,955	7,029	1,226	1,283	1,776	1,936
U. Colorado Colorado Springs	404	5,557	5,338	7,761	7,012	3,508	3,942	5,345	5,205
Claremont McKenna C.	405	5,846	4,515	5,893	6,925	771	637	1,070	1,035
Texas Woman's U.	406	4,135	4,943	6,029	6,922	1,700	1,514	2,091	2,439
Hope C.	407	3,822	5,211	6,355	6,910	1,155	1,992	3,691	3,639
U. North Carolina, Asheville	408	4,789	4,844	5,973	6,761	2,405	2,322	2,600	3,323
U. New England	409	6,886	6,234	6,664	6,756	5,064	3,864	3,660	4,777
Reed C.	410	5,155	5,132 i	5,922 i	6,750 i	1,806	1,916 i	2,139 i	2,420 i
U. Baltimore	411	15,054	14,672	6,646	6,615	11,748	11,692	4,853	4,250
Williams C.	412	4,924 i	4,902 i	5,657 i	6,448 i	1,086 i	1,152 i	1,286 i	1,455 i
California State U., Bakersfield	413	7,053	6,253	4,815	6,409	4,486	3,827	2,665	3,525
Barnard C.	414	3,748	4,632	4,988	6,320	2,800	3,527	3,758	4,235
Wellesley C.	414	8,088	6,252	6,326	6,320	4,441	3,469	2,915	2,921
U. Washington, Tacoma	416	3,504	4,291	5,484	6,243	3,075	3,459	4,553	3,875
Grand Valley State U.	417	6,792	6,809	6,695	6,231	1,831	1,415	1,819	1,808
Norfolk State U.	418	7,153	4,316	3,593	6,194	7,148	3,976	3,398	4,381
Northwest Indian C.	419	3,650 i	4,641 i	5,632	6,184 i	3,112 i	3,704 i	4,298	4,595 i

TABLE 7

Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2023 total R&D expenditures: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
West Chester U. Pennsylvania	420	6,414	4,433	5,903	6,132	724	608	854	1,386
Azusa Pacific U.	421	7,068	5,318	3,389	6,097	128	212	282	140
Roseman U. of Health Sciences	422	4,380	5,985	6,296	6,065	56	53	30	38
Indiana U. Pennsylvania	423	6,531	6,180	6,313	6,052	1,309	1,503	1,797	1,702
U.S. Army War C.	424	4,500	4,662 i	5,496 i	6,035 i	4,500	4,662 i	5,496 i	6,035 i
California State U., Chico	425	4,305	4,209	4,177	5,984	2,520	2,258	2,312	3,152
Smith C.	426	4,685	4,085	5,831	5,954	2,650	2,433	2,403	3,013
High Tech High Graduate School of Ed.	427	3,304	5,032	6,203	5,939	0	0	0	0
U. Southern Maine	428	5,635	5,480	5,498	5,930	2,231	2,020	2,201	2,598
CUNY, Lehman C.	429	4,154	4,181	4,656	5,918	3,197	3,382	3,652	4,487
Bucknell U.	430	5,051 i	4,476	5,259	5,887	1,730 i	1,696	2,539	2,359
U. Oklahoma, Tulsa	431	7,483	7,185	7,945	5,826	1,953	1,267	1,804	1,328
Naval War C.	432	5,944	5,542	5,529	5,819	5,944	5,542	5,529	5,819
New York Institute of Technology	433	3,580	4,465	5,555	5,790	1,542	1,988	2,988	3,252
Morehouse C.	434	4,825	4,533	5,664	5,750	4,825	4,533	5,664	5,750
U. Washington, Bothell	435	7,107	8,311	8,197	5,738	2,815	2,956	4,009	3,787
U. North Carolina, general administration	436	3,942	4,024	3,522	5,735	572	408	369	0
Santa Clara U.	437	2,682	3,142	4,225	5,679	1,522	1,930	2,660	3,448
Rhode Island School of Design	438	3,918 i	4,499 i	5,080 i	5,661	287 i	294 i	301 i	311
Swarthmore C.	439	3,544	3,296	4,225	5,620	1,041	1,414	1,733	2,315
Texas A&M International U.	440	3,067	3,740	4,486	5,602	986	1,243	1,624	1,966
Oregon Institute of Technology	441	4,267	4,314	5,086 i	5,585 i	326	252	340	1,375
California State U., Dominguez Hills	442	2,065	2,690	4,230	5,558	1,433	2,001	3,156	2,457
Providence C.	443	1,092	766	2,012	5,533	913	574	1,649	4,648
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	444	3,737	3,776	4,954	5,324	342	376	858	273
Trinity U.	445	3,472	2,905	3,657	5,296	1,207	1,078	1,345	2,203
Dakota State U.	446	4,412	3,416	4,684	5,253	3,957	2,603	3,976	2,437
West Virginia State U.	447	5,775	6,565	6,703	5,226	3,993	4,119	4,278	2,800
Southern U. and A&M C., Baton Rouge	448	3,849	4,943	4,344	5,201	2,996	3,770	3,595	4,444
Suffolk U.	449	2,106	2,043	1,401	5,164	844	634	340	893
Pennsylvania State U., Harrisburg	450	1,866	2,938	2,927	5,159	451	1,616	1,911	3,045
U. Detroit Mercy	451	4,786	4,578	5,186	5,142	4,226	3,917	4,663	4,434
Colgate U.	452	2,913	3,306	4,343	4,930	918	1,440	1,570	1,521
Sul Ross State U.	453	2,068	3,004 i	3,940 i	4,878	481	843 i	1,205 i	1,568
U. Central del Caribe	453	3,931	3,831	5,053	4,878	2,743	2,492	2,807	2,929

TABLE 7

Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2023 total R&D expenditures: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Spelman C.	455	2,750	2,282	2,686	4,877	2,136	1,886	2,539	4,567
Fisk U.	456	3,904	4,320	4,000	4,867	3,811	3,940	3,486	3,819
U. Wisconsin-Superior	457	2,301	2,602	4,615	4,825	1,382	1,843	3,635	3,559
Sacred Heart U.	458	1,298	972	3,741	4,733	691	675	862	639
CUNY, C. Staten Island	459	3,682	2,860	3,545	4,730	2,295	2,234	2,916	3,296
Coastal Carolina U.	460	1,903	2,245	3,724	4,729	1,211	948	1,130	1,847
Occidental C.	461	2,657	3,587	4,139	4,718	1,567	2,348	2,622	2,967
Toyota Technological Institute, Chicago	462	5,887	4,967	4,470	4,636	3,038	3,090	2,199	2,127
Lawrence Technological U.	463	1,521	1,764	3,050	4,632	405	284	1,109	1,786
Sonoma State U.	464	1,545	2,957	3,774	4,625	936	2,212	2,889	3,483
U. Wisconsin-Stevens Point	465	4,764	4,401	3,740	4,589	2,193	1,776	1,235	2,079
U. Northern Iowa	466	2,970	3,259	3,486	4,564	1,881	1,995	2,132	2,975
Colby C.	467	1,536	1,672	2,530	4,454	809	750	1,466	3,011
SUNY, C. of Optometry	468	3,477	3,460	4,497	4,423	1,688	2,105	2,080	2,469
U. of Health Sciences and Pharmacy in St. Louis	469	4,835	5,313	4,280	4,343	3,767	4,063	2,523	3,110
CUNY, system office	470	1,704	1,664	2,900	4,296	884	768	798	2,901
Carleton C.	471	3,732	3,800	4,358	4,185	1,236	1,499	1,914	2,800
Alfred U.	472	2,780	2,660	3,477	4,154	947	939	1,008	1,958
Pomona C.	473	2,855	2,146	2,589	4,149	1,123	930	1,217	1,205
Franklin and Marshall C.	474	3,623	3,722	4,440	4,111	1,202	1,363	1,680	1,469
Trinity C., Hartford	475	1,428	1,775	1,620	4,099	1,019	1,348	1,049	687
Haverford C.	476	4,473	3,835	4,487	4,088	2,680	2,455	2,722	2,344
CUNY, Baruch C.	477	2,396	2,521	3,156	4,084	1,470	1,691	1,894	1,879
Keck Graduate Institute	478	1,412	1,350	1,282	4,059	727	685	643	2,338
Pace U.	479	4,272	3,649	3,524	4,056	2,997	2,536	2,534	2,698
California State U., Channel Islands	480	1,497	2,341	3,377	3,992	553	993	1,638	1,773
St. John's U., New York	481	3,282	2,940	3,592	3,955	1,805	1,950	2,456	2,792
Austin Peay State U.	482	2,833	2,740	3,149	3,950	475	597	870	1,401
Seattle U.	483	2,060	1,562	1,894	3,949	1,303	1,102	1,143	1,165
Des Moines U.	484	5,021	5,164	5,307	3,932	449	1,019	1,589	556
Western Illinois U.	485	2,461	3,532	4,311	3,824	1,801	3,163	4,032	3,283
Northern Kentucky U.	486	2,693	3,403	3,888	3,790	1,462	2,156	2,596	2,413
Troy U.	487	1,692	1,548	2,517	3,785	1,591	1,488	2,296	3,069
Citadel Military C. South Carolina	488	1,012	2,054	4,993	3,757	736	1,714	4,360	3,287
Chicago State U.	489	980	2,414	3,701	3,756	978	2,414	3,699	3,756

TABLE 7

Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2023 total R&D expenditures: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Central Washington U.	490	2,674	2,410	3,176	3,683	1,701	1,778	2,429	2,499
Harvey Mudd C.	491	2,916	2,359	3,350	3,682	1,748	1,443	1,956	1,968
U. Nebraska, Kearney	492	2,640	3,201	4,009	3,681	1,259	1,327	1,900	1,739
Stephen F. Austin State U.	493	3,672	3,204	3,184	3,661	1,257	1,029	879	1,098
U. New Haven	494	3,843	4,069	4,548	3,602	1,440	2,069	2,447	2,227
Fayetteville State U.	495	2,797	3,933	3,206	3,569	1,008	1,988	1,667	1,847
Christopher Newport U.	496	2,608	2,656	2,762	3,507	1,365	1,497	1,701	2,055
U. Texas, Tyler	497	2,007	2,279	3,246	3,487	774	929	1,585	1,652
New Mexico Highlands U.	498	1,090	1,882	2,674	3,468	1,034	1,828	2,622	3,416
Roger Williams U.	499	1,531	1,854	2,156	3,465	1,045	1,202	1,351	1,973
Fort Lewis C.	500	1,370	1,926	2,765	3,372	1,228	1,746	2,590	2,816
Bowdoin C.	501	2,719	2,417	2,648	3,339	1,862	1,836	1,867	2,186
Milwaukee School of Engineering	502	3,190	3,193	3,545	3,317	613	751	969	722
Hamilton C.	503	1,869	1,747	1,879	3,285	144	286	338	413
Youngstown State U.	504	4,120	2,775	4,157	3,244	3,308	2,198	3,533	2,691
Alabama State U.	505	2,582	2,631	3,178	3,229	2,582	2,338	2,930	2,848
Murray State U.	506	3,019	3,844	3,371	3,193	1,929	2,721	2,176	2,058
Winthrop U.	507	2,217	2,586	3,424	3,189	1,563	1,495	2,542	2,358
Saginaw Valley State U.	508	2,343	2,428	2,862	3,143	1,809	1,899	2,341	2,503
U. Central Arkansas	509	3,455	3,990	3,684	3,092	1,421	1,640	1,731	1,824
U. Richmond	510	2,469	2,294	2,670	3,058	1,628	1,534	1,624	1,379
Minnesota State U., Mankato	511	2,754	2,170	2,206	3,055	525	575	575	905
Dine C.	512	347	1,570	2,091	3,054	347	1,570	2,091	2,255
Marian U., Indianapolis	513	ne	ne	ne	3,009	ne	ne	ne	918
Pittsburg State U.	514	2,173	2,730	2,884	2,979	477	759	1,167	1,591
Middlebury C.	515	1,720	2,927	2,603	2,975	1,546	2,639	2,281	2,564
East Stroudsburg U. Pennsylvania	516	797	1,440	1,410	2,928	534	538	598	909
Davidson C.	517	2,263	2,466	2,788	2,926	1,411	1,151	1,370	1,340
U. Wisconsin-La Crosse	518	2,795	3,001	2,942	2,921	817	895	968	714
Hawaii Pacific U.	519	1,796	1,849	3,302	2,913	1,699	1,741	2,667	1,942
St. Cloud State U.	520	3,056	2,379	2,226	2,901	459	577	401	689
Touro U., California	521	3,551	3,489	2,561	2,877	1,558	1,377	964	1,279
Southeastern Louisiana U.	522	2,258	1,723	2,407	2,858	884	795	1,285	1,366
CUNY, New York City C. of Technology	523	2,130	1,367	1,955	2,819	1,585	1,197	1,769	2,498
Purdue U., Fort Wayne	524	2,264	2,495	2,134	2,804	589	401	313	226

TABLE 7

Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2023 total R&D expenditures: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Wisconsin-Green Bay	525	1,982	1,879	2,713	2,801	890	876	1,046	1,222
U. Wisconsin-River Falls	526	1,107	999	1,546	2,772	488	212	318	551
U. Texas of the Permian Basin	527	2,105	3,504	3,577	2,769	757	1,762	1,538	1,013
Lewis and Clark C.	528	3,350	2,281	2,566	2,686	1,268	702	746	776
Tougaloo C.	529	2,102	2,092	2,336	2,663	2,102	2,092	2,336	2,643
Morehead State U.	530	1,883	1,754	2,880	2,658	1,674	1,727	2,086	1,718
C. New Jersey	531	1,464	1,912	3,464	2,641	951	1,079	1,984	1,755
SUNY, Buffalo State U.	532	2,253	1,962	2,172	2,636	1,241	977	1,299	1,615
Bowie State U.	533	1,967	1,398	3,351	2,612	1,967	1,398	3,351	2,469
Marymount U.	534	ne	2,307	1,298	2,601	ne	337	178	396
Vassar C.	535	1,568	1,606	2,580	2,596	1,055	918	1,052	1,204
Albany C. of Pharmacy and Health Sciences	536	3,765	3,687	2,276	2,594	1,938	1,900	1,110	1,256
SUNY, Cobleskill	537	625	1,106	1,211	2,566	559	243	379	730
Calvin U.	538	2,107	2,637	3,169	2,555	927	929	931	854
U. South Carolina Upstate	539	437	496	594	2,554	133	216	358	330
Eastern Washington U.	540	2,282	1,921	2,437	2,546	1,153	775	855	1,015
Lake Superior State U.	541	935	1,226	2,056	2,545	263	605	1,184	1,475
Elon U.	542	1,968	2,032	1,797	2,544	106	138	428	479
Western Carolina U.	543	2,696	2,847	2,783	2,543	1,707	1,697	1,727	1,600
Mount Holyoke C.	544	2,016	2,026	2,112	2,533	1,442	1,539	1,511	1,612
Monmouth U.	545	1,729	1,667	1,938	2,517	110	174	535	762
U. Illinois, Springfield	546	3,406	2,612	2,881	2,508	976	1,071	1,210	1,057
Colorado C.	547	2,291	5,467	3,646	2,498	196	3,725	1,371	611
La Sierra U.	548	1,647	1,517	2,246	2,496	618	812	972	1,066
National Defense U.	549	4,583	3,786	3,920	2,494	4,583	3,786	3,920	2,494
New England C. of Optometry	550	1,150	1,978	1,868	2,491	785	1,623	1,609	1,946
Franklin W. Olin C. of Engineering	551	1,404	1,627	2,554	2,450	293	636	809	641
Erikson Institute	552	1,992	1,723	2,068	2,414	1,006	772	815	1,245
Wheaton C., Wheaton	553	1,322	729	1,784	2,403	324	148	448	428
Stockton U.	554	4,236	1,246	1,657	2,386	872	486	728	688
Skidmore C.	555	2,412	2,335	1,734	2,384	1,827	1,739	861	1,288
Hobart and William Smith Colleges	556	2,114	1,941	3,228	2,373	1,072	758	1,264	1,019
Virginia Military Institute	557	712	1,351	1,746	2,350	347	1,075	1,137	1,534
Benedict C.	558	649	745	1,059	2,307	635	725	1,057	1,665
California State U., Stanislaus	559	1,843	2,085	1,966	2,305	1,284	1,354	1,056	1,150

TABLE 7

Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2023 total R&D expenditures: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Dillard U.	560	2,523	2,528	2,270	2,296	1,200	1,257	1,422	1,228
U. of St. Thomas (MN)	561	2,679	5,146	2,476	2,280	450	1,321	527	531
Furman U.	562	2,101	2,431	2,650	2,267	847	1,028	1,280	1,300
Northeastern Illinois U.	563	2,018	1,913	2,224	2,262	2,018	1,913	2,224	2,262
Black Hills State U.	564	1,499	1,280	1,987	2,260	1,287	1,124	1,676	1,918
Florida Polytechnic U.	564	1,091	1,269	1,725	2,260	252	459	706	1,172
U. South Carolina, Aiken	566	2,590	2,042	2,595	2,250	2,328	1,884	857	782
U. of the Incarnate Word	567	1,469	1,982	2,064	2,245	869	1,076	1,078	1,086
C. Wooster	568	1,076	1,396 i	1,717	2,209	283	510 i	737	594
U. Louisiana, Monroe	569	2,362	2,198	3,128	2,203	2,025	1,465	1,993	1,655
U. Wisconsin-Eau Claire	570	1,318	1,852	1,628	2,191	647	909	681	1,027
U. Ana G. Mendez, Gurabo	571	2,049	1,574	1,419	2,132	946	926	1,407	2,132
U. Houston-Clear Lake	572	1,363	1,716	1,800	2,127	632	865	841	1,273
Bates C.	573	2,303	2,620	2,468	2,118	1,885	2,079	1,785	1,455
U. Wisconsin-Oshkosh	574	1,618 i	1,656	1,990	2,087	1,092 i	1,083	1,336	1,249
John Carroll U.	575	522	374	738	2,083	437	324	529	916
U. Puerto Rico, Humacao	576	1,456	1,321	1,448	2,074	1,279	1,137	1,160	1,822
Northwestern State U. Louisiana	577	1,940	1,663	1,848	2,057 i	598	738	742	822 i
Utah Valley U.	578	336	1,154	1,895	2,015	289	1,028	1,280	1,671
Lafayette C.	579	1,390	1,015	2,059	1,991	755	508	1,300	1,141
U. of the Pacific	580	1,713	1,371	1,835	1,972	1,375	1,106	1,351	1,300
U. Houston-Downtown	581	2,299	1,828	1,485	1,967	1,392	1,169	903	1,495
SUNY, Geneseo	582	1,642	2,070	2,091	1,958	950	1,273	1,564	1,292
Babson C.	583	2,352	1,286	1,825	1,957	14	0	45	224
Lipscomb U.	584	307 i	321	1,251	1,946	206 i	222	283	309
Macalester C.	585	1,755	1,280	1,691	1,935	647	617	943	1,094
Albany State U.	586	1,060	880	1,059	1,932	836	552	628	1,681
Ferris State U.	587	394	853	1,929	1,915	87	565	549	1,430
Liberty U.	588	1,894	937	1,736	1,900	886	120	897	532
Union C., Schenectady	589	1,062	1,396	1,479	1,881	462	976	750	729
SUNY, C. Brockport	590	1,719	1,114	1,500	1,877	781	500	751	813
Northern Michigan U.	591	1,523	1,364	1,888	1,871	446	366	571	560
Alaska Pacific U.	592	1,261	1,036	1,607	1,823	148	189	581	627
U. Alaska, Southeast	593	1,264	1,176	1,570	1,822	1,098	1,046	1,392	1,463
Marshall B. Ketchum U.	594	1,357 i	1,351 i	1,559 i	1,777 i	323 i	343 i	383 i	433 i

TABLE 7

Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2023 total R&D expenditures: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Nevada State C.	595	561	1,014	1,191	1,744	532	1,012	1,167	1,711
Palmer C. of Chiropractic, Davenport	596	1,900	2,233	2,050	1,725	1,400	1,733	1,550	1,500
Drake U.	597	1,201	1,488	1,691	1,724	730	1,016	1,211	954
St. Olaf C.	597	1,032	816	1,532	1,724	230	271	726	933
SUNY, C. Plattsburgh	599	1,452	1,280	1,043	1,722	950	824	584	1,121
CUNY, York C.	600	1,691	1,133	1,912	1,711	1,513	922	1,659	1,504
Savannah State U.	601	1,804	1,804	1,888	1,706	1,804	1,804	1,881	1,675
Seattle Pacific U.	602	643	683	742	1,671	569	630	639	581
U. North Georgia	603	1,905	1,415	1,734	1,643	542	497	734	477
Elizabeth City State U.	604	1,473	1,717	1,934	1,641	1,455	1,603	1,667	1,093
Lincoln Memorial U.	604	ne	ne	1,330	1,641	ne	ne	0	2
Norwich U.	606	749	890	1,405	1,637	531	588	940	1,366
Colorado State U., Pueblo	607	3,104	2,990	3,117	1,624	1,161	1,508	1,278	952
U. Puget Sound	608	895	1,233	1,051	1,613	401	591	780	1,300
Johnson C. Smith U.	609	2,472	2,578	i 2,685	1,602	2,230	2,049	i 1,868	1,554
Eckerd C.	610	406	367	596	1,599	139	139	201	632
SUNY, Oswego	611	1,534	1,003	1,209	1,595	492	415	544	894
Indiana U., South Bend	612	1,249	898	1,075	1,593	400	337	297	420
Texas A&M U.-San Antonio	612	567	1,311	1,242	1,593	89	277	394	1,233
Bentley U.	614	777	1,430	1,161	1,589	246	762	509	802
Dickinson C.	615	929	767	798	1,584	222	305	238	700
Whitman C.	616	865	1,034	1,270	1,568	558	481	434	449
Merrimack C.	617	503	407	1,010	1,560	306	337	804	892
Pratt Institute	618	ne	2,547	2,325	1,558	ne	294	228	50
Willamette U.	619	1,546	1,817	2,183	1,542	401	896	791	490
U. Hartford	620	1,436	1,252	1,090	1,533	854	766	886	1,269
U. Puerto Rico, Cayey	621	1,974	1,881	1,390	1,519	1,210	1,202	757	733
Hartford International U. for Religion and Peace	622	345	512	1,105	1,485	0	0	0	0
Fairfield U.	623	1,210	849	1,097	1,484	365	147	197	180
U. Wisconsin-Platteville	624	1,104	i 1,144	i 1,349	i 1,481	i 336	i 353	i 435	i 465
Saint John's U.	625	1,130	i 1,125	i 1,298	i 1,479	i 0	i 0	i 0	i 0
U. South Carolina, Beaufort	626	599	976	1,041	1,466	156	464	440	889
Biola U.	627	2,868	i 3,003	i 3,260	1,461	0	i 0	0	0
West Virginia School of Osteopathic Medicine	628	1,311	1,255	1,329	1,459	i 419	423	468	500
Eastern Connecticut State U.	629	1,799	1,646	1,734	1,449	177	108	126	210

TABLE 7

Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2023 total R&D expenditures: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Eastern Kentucky U.	630	1,010	986	1,089	1,446	554	530	551	798
Northland C.	631	1,101	1,096 i	1,265 i	1,442 i	657	697 i	778 i	880 i
Connecticut C.	632	1,598	1,244	1,875	1,440	483	439	620	648
Robert Morris U.	633	ne	ne	1,277 i	1,419	ne	ne	605 i	664
Clafin U.	634	1,910	1,015	1,179	1,418	1,907	1,005	1,179	1,418
Oberlin C.	635	1,182	776	1,036	1,408	743	505	492	880
C. of Saint Benedict	636	1,069 i	1,064 i	1,228 i	1,400 i	43 i	46 i	51 i	58 i
Butler U.	637	679	1,071	1,691	1,396	362	741	1,227	1,077
United Tribes Technical C.	638	976	441	1,270	1,387	929	405	869	1,337
U. Hawaii, Maui C.	639	1,033	967	1,147	1,376	995	951	1,087	1,234
Kenyon C.	640	908	1,500	1,330	1,371	714	1,022	1,021	1,092
Plymouth State U.	641	664	2,318	669	1,361	558	421	571	877
National U. of Natural Medicine	642	1,428	850	1,013	1,336	912	523	685	862
St. Edward's U.	643	9,619	9,527	3,393	1,334	7,700	7,600	1,940	315
Indiana State U.	644	1,471	1,042	1,354	1,327	949	582	894	980
Illinois C. of Optometry	645	478	490	831	1,324	97	13	46	19
Arcadia U.	646	1,072	889	1,488	1,321	750	371	747	772
Radford U.	647	774	832	1,056	1,315	161	253	161	109
U. North Texas, Dallas	648	ne	ne	ne	1,293	ne	ne	ne	50
U. Maine Farmington	649	961	996 i	1,174 i	1,289 i	666	699 i	862 i	922 i
Auburn U., Montgomery	650	312	442	698	1,281	192	201	464	864
California Lutheran U.	651	630	1,129	627	1,279	271	518	298	490
Nicholls State U.	652	650	551	687	1,259	86	182	301	624
Southern Utah U.	652	955	773	846	1,259	741	650	603	990
Andrews U.	654	1,033	802	1,043	1,255	263	256	295	445
Heidelberg U.	655	1,125	1,725	1,184	1,254	188	308	262	197
Manhattan C.	656	1,307	1,864	1,641	1,250	398	397	440	422
U. Michigan, Flint	657	1,247	752	933	1,243	276	113	138	258
Aaniiih Nakoda C.	658	ne	ne	864	1,226	ne	ne	864	1,226
U. Virginia's C. Wise	659	2,434	3,310	2,628	1,223	952	1,307	786	447
Quinnipiac U.	660	930 i	926 i	1,069 i	1,218 i	448 i	475 i	530 i	600 i
Pennsylvania State U., Altoona	661	714	678	1,296	1,215	9	225	222	297
U. Minnesota, Rochester	662	733	730	784	1,192	122	103	93	32
Juniata C.	663	937	380	545	1,177	323	229	442	1,012
U. Scranton	664	595	630	1,207	1,169	312	394	892	866

TABLE 7

Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2023 total R&D expenditures: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Western Colorado U.	665	571	559	826	1,166	403	360	516	641
Hult International Business School	666	910 i	953 i	1,043 i	1,159 i	432 i	466 i	506 i	555 i
Ursinus C.	667	497	835	1,044	1,150	430	682	743	942
U. of Mary Washington	668	1,393	1,123	1,229	1,115	660	485	501	406
Western New England U.	668	505	1,973	2,052	1,115	201	781	648	538
Loyola U., Maryland	670	672	628	866	1,110	326	339	206	544
Gettysburg C.	671	913	648	1,030	1,099	320	268	333	517
Southern Oregon U.	672	493	534	447	1,092	237	312	135	612
New C. Florida	673	999	960	1,252	1,080	114	92	61	146
Keene State C.	674	1,063	919	770	1,071	1,043	894	770	834
St. Catherine U.	675	963	1,157	933	1,060	204	270	300	673
American Samoa Community C.	676	1,536	815	961 i	1,055 i	1,536	815	961 i	1,027 i
Berry C.	677	646	371	541	1,046	207	332	453	993
La Salle U.	678	818	829	917	1,045 i	14	21	0	0 i
Polytechnic U. Puerto Rico	679	813	821	620	1,039	813	821	620	1,039
St. Bonaventure U.	680	585	378	642	1,037	265	215	386	554
Valparaiso U.	681	718	925	688	1,036	672	805	572	920
Midwestern State U.	682	891	882	886	1,027	599	515	416	491
Weber State U.	683	676	822	813	1,026	424	423	500	759
Carthage C.	684	ne	ne	ne	1,013	ne	ne	ne	722
Denison U.	685	727	786 i	845	1,012	573	609 i	645	589
Southern U., New Orleans	686	310	297	1,317	1,004	256	222	345	536
Dominican U. California	687	786 i	823 i	901 i	1,001 i	677 i	731 i	794 i	871 i
Rollins C.	688	414	533	532	995	165	165	189	415
Bluefield State U.	689	485	506	642	987	483	501	506	574
U. Portland	690	737	718	811	986	94	90	133	251
Gustavus Adolphus C.	691	843	953	1,136	969	365	445	468	467
Texas A&M U.-Central Texas	692	623	814	894	951	398	653	788	906
Angelo State U.	693	798	943	740	946	0	20	85	140
Central Connecticut State U.	694	1,572	1,314	1,035	934	901	663	511	393
Roanoke C.	695	606	738	955	932	18	10	3	16
Augsburg U.	696	883	815	815	917	377	408	370	485
West Liberty U.	697	738	738	815	910	365	406	498	490
Canisius U.	698	1,094	1,036	1,160	905	869	597	454	411
SUNY, Potsdam	699	ne	540	622	904	ne	433	454	682

TABLE 7

Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2023 total R&D expenditures: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
C. of the Holy Cross	700	321	445	688	893	308	425	653	691
Gannon U.	701	351	972	569	889	32	61	150	199
U. Tampa	702	559	551	886	883	197	124	418	121
CUNY, Medgar Evers C.	703	882	694	595	881	588	470	380	266
Montana State U., Billings	704	399	522	685	870	312	429	518	710
Eastern Illinois U.	705	540	529	553	869	256	289	320	413
Ithaca C.	706	1,199	1,030	1,000	861	981	685	703	453
Touro U., Nevada	707	ne	ne	697	853	ne	ne	72	131
Indiana Wesleyan U.	708	316	878	722	852	54	216	187	275
Rhode Island C.	709	10,094	10,990	11,127	839	4,128	4,894	5,372	786
Longwood U.	710	368	544	249	838	312	412	47	642
Emporia State U.	711	594	586	510	816	517	312	291	589
Earlham C.	712	165	287	405	815	11	8	0	0
Utica U.	713	549	466	562	812	0	0	0	0
Concord U.	714	ne	ne	ne	807	ne	ne	ne	756
Widener U., Chester	715	586	417	600	804	277	351	474	636
Coe C.	716	561	538	614	802	368	330	401	562
Lawrence U.	717	423	536	671	794	165	248	286	327
Evergreen State C.	718	390	783	586	791	279	256	119	45
Kalamazoo C.	719	603 i	600 i	692 i	789 i	212 i	225 i	251 i	284 i
Saint Mary's U. Minnesota	719	610	640	889	789	554	538	638	573
Regis U.	721	311	476	744	779	156	328	494	702
Siena C.	722	884	923	675	764	382	265	291	303
Augustana U.	723	1,038	1,013	724	757	976	1,013	724	757
Saint Michael's C.	724	957	876	754	754	775	744	485	598
Bridgewater State U.	725	345	522	954	750	198	363	821	449
U. Ana G. Mendez, Cupey	726	818	739	728	746	662	598	728	746
U. Puerto Rico, Aguadilla	727	562	639	823	741	283	425	617	700
San Juan Bautista School of Medicine	728	612	598	662	740	202	448	466	547
Framingham State U.	729	2,317	1,790 i	1,263 i	735	179	352 i	525 i	700
Mercyhurst U.	730	1,177 i	920 i	661	734 i	354 i	219 i	82	90 i
Clayton State U.	731	346	616	600	732	302	532	498	642
Fort Hays State U.	731	1,172	800	641	732	764	482	342	361
Salve Regina U.	731	591	624	813	732	578	624	813	732
Louisiana State U., Shreveport	734	494	462	723	725	321	273	568	401

TABLE 7

Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2023 total R&D expenditures: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Kutztown U. Pennsylvania	735	472	292	450	722	276	159	351	584
SUNY, C. Cortland	736	255	381	530	715	215	340	396	507
U. Central Missouri	736	401	495	642	715	250	296	399	459
Dordt U.	738	1,106	696	679	712	1,049	594	552	581
Pennsylvania State U., Great Valley School of Graduate Professional Studies	738	ne	927	432	712	ne	457	251	343
U. Minnesota, Morris	740	1,004	855	805	698	213	162	150	87
U.S. Coast Guard Academy	741	398	155	1,019	689	302	154	898	278
Bethune-Cookman U.	742	636	928	707	682	529	715	494	650
Wilkes U.	742	968	372	423	682	518	109	134	203
Arkansas Tech U.	744	856	751	921	668	382	632	737	393
Graduate School of the Stowers Institute for Medical Research	745	416	555	780	666	0	0	0	0
Emerson C.	746	919	581	581	665	84	198	122	133
Salus U.	747	650	677	680	663	450	414	417	396
Niagara U.	748	1,124	509	440	661	24	34	54	10
U. Puerto Rico, Ponce	749	616 i	580	1,369	659	489 i	427	1,089	510
Metropolitan State U. of Denver	750	496	416	666	651	304	263	261	390
Iona U.	751	239	411	650	649	239	411	650	649
Kettering U.	752	2,081	1,315	816	641	568	353	213	77
Pennsylvania State U., Berks	753	372	382	564	640	273	293	507	550
SUNY, Old Westbury	754	335 i	347 i	428	634	196 i	206 i	243	389
SUNY, Farmingdale State C.	755	589	606	611	631	166	180	185	180
St. Norbert C.	756	304	412	741	629	7	177	474	514
Lincoln U.	757	ne	ne	ne	628	ne	ne	ne	430
Simmons U.	758	604	487	668	620	566	466	383	254
Elmhurst U.	759	209	464	676	613	209	459	676	224
Sonoran U. Health Sciences	760	ne	ne	520	600	ne	ne	0	0
Saint Francis U.	761	878	872	533	592 i	173	199	221	242 i
Sewanee: U. of the South	761	864	668	547	592	35	45	6	17
Concordia C., Moorhead	763	275	308	291	589	94	35	32	352
Oglala Lakota C.	764	516	473	424	588	506	473	424	588
Hendrix C.	765	649	651	709	587	563	584	629	538
Slippery Rock U. Pennsylvania	766	390	295	323	583	79	50	11	200
Southwestern Oklahoma State U.	767	484	614	531	582	276	419	303	300
Southwestern U.	768	261	408	520	575	3	11	11	52
U. West Georgia	769	483	396 i	309	574	220	197 i	174	172

TABLE 7

Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2023 total R&D expenditures: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed						
		2020	2021	2022	2023	2020	2021	2022	2023			
Cooper Union	770	501	545	501	571	i	233	233	202	229	i	
Cornell C.	771	370	464	409	563		228	264	116	72		
Lake Forest C.	772	372	267	493	562	i	0	0	37	42	i	
Bryant U.	773	302	347	534	558		227	280	394	436		
California Baptist U.	774	ne	ne	ne	554		ne	ne	ne	0		
Salish Kootenai C.	775	807	596	782	553		802	596	782	553		
Stonehill C.	776	833	695	772	542		674	526	425	283		
U. Bridgeport	776	164	ne	ne	542		59	ne	ne	251		
Keiser U.	778	423	443	i	485	i	539	i	0	0	i	
Jacksonville State U.	779	1,244	275	197	538		1,216	245	113	423		
U. Wisconsin-Whitewater	780	736	760	713	536		525	623	445	280		
Gonzaga U.	781	506	212	640	535		305	107	226	254		
William Paterson U.	782	9,603	7,867	7,574	533		1,896	1,893	1,896	168		
Allegheny C.	783	449	ne	ne	532		64	ne	ne	192		
Rider U.	784	170	322	353	522		58	126	200	364		
St. Lawrence U.	785	441	ne	ne	521		262	ne	ne	201		
Lake Erie C. of Osteopathic Medicine	786	472	502	484	517		0	0	0	0		
Moravian U.	787	309	255	386	516		91	90	185	192		
Stetson U.	788	670	611	580	513		479	304	379	452		
U. Wisconsin-Stout	789	555	406	367	512		175	27	61	138		
Muhlenberg C.	790	398	288	447	509	i	115	28	27	31	i	
Pennsylvania Western U.	791	na	na	na	508		na	na	na	460		
Geisinger Commonwealth School of Medicine	792	150	i	ne	ne		500	71	i	ne	ne	15
Susquehanna U.	793	496	360	333	499		61	20	31	14		
Fairleigh Dickinson U.	794	656	318	225	498		560	248	222	456		
Adelphi U.	795	351	i	342	377		495	283	i	274	316	430
Agnes Scott C.	796	152	351	433	494	i	99	152	260	294	i	
Benedictine U.	797	ne	ne	150	489		ne	ne	64	338		
Central Wyoming C.	797	ne	ne	504	489		ne	ne	504	489		
East Central U.	799	251	242	480	483		169	216	447	447		
Point Loma Nazarene U.	800	237	505	565	482		162	126	1	34		
Pontifical Catholic U. Puerto Rico, Ponce	801	239	350	334	478		125	186	97	167		
U. Houston-Victoria	802	ne	ne	ne	475		ne	ne	ne	419		
Palo Alto U.	803	417	428	426	473	i	179	207	205	225	i	
Whitworth U.	803	660	403	438	i	473	140	91	153	i	216	

TABLE 7

Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2023 total R&D expenditures: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Barry U.	805	237	343	367	469	9	40	65	98
Lewis-Clark State C.	806	660	401	582	468	660	349	550	468
Baldwin Wallace U.	807	ne	210	167	463	ne	20	7	47
Northwest Nazarene U.	808	408	442	509	456	178	307	356	302
Grambling State U.	809	2,427	2,124	1,287	449	787	731	554	377
Colorado Mesa U.	810	452	823	802	443	228	664	676	290
U. North Alabama	811	ne	539	650	442	ne	331	320	332
McNeese State U.	812	585	664	432	435	54	17	22	32
DePauw U.	813	253	304	175	430	39	89	48	102
Indiana U., Kokomo	814	483	441	490	429	20	27	75	31
Oakwood U.	815	538	474	340	427	375	463	329	371
Southern Arkansas U.	815	275	611	281	427	44	422	113	252
MCPHS U.	817	473	346	290	426	192	85	80	166
Western Connecticut State U.	818	539	353	399	424	347	201	221	144
Indiana U., Southeast	819	582	591	523	421	15	64	13	41
Loyola U., New Orleans	820	338	476	911	419	4	93	29	37
Minot State U.	821	253	512	187	412	125	439	143	314
Shaw U.	821	ne	ne	259	412	ne	ne	168	162
Truckee Meadows Community C.	823	ne	ne	334	403	ne	ne	334	403
Northern Vermont U.	824	ne	ne	ne	400	ne	ne	ne	400
Coker U.	825	485	ne	ne	398	460	ne	ne	379
Eastern New Mexico U., Portales	826	358	355	499	394	298	323	466	343
SUNY, New Paltz	827	330	329	308	392	149	114	139	265
Austin C.	828	342	302	349	388	116	85	110	121
Westmont C.	828	211	295	340	388	174	180	201	227
Marist C.	830	156	ne	ne	386	61	ne	ne	188
Minnesota State U., Moorhead	831	169	462	420	378	89	222	124	26
Ouachita Baptist U.	831	268	217	309	378	234	217	309	378
Pennsylvania State U., New Kensington	831	ne	152	ne	378	ne	129	ne	0
Southern California U. of Health Sciences	831	420	418	246	378	339	360	204	377
American C. of Financial Services	835	ne	ne	338	376	ne	ne	0	0
Doane U.	836	896	699	502	374	762	596	430	299
Wabash C.	837	ne	ne	465	370	ne	ne	304	210
Bryn Athyn C.	838	432	316	317	361	0	0	0	0
Northwest Missouri State U.	839	239	190	231	360	107	100	100	108

TABLE 7

Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2023 total R&D expenditures: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Minnesota, Crookston	840	210	ne	ne	358	10	ne	ne	0
Coppin State U.	841	202	299	398	357	168	212	275	209
Future Generations U.	842	271 i	270 i	312 i	356 i	0 i	0 i	0 i	0 i
Augustana C.	843	205	271	353	351	56	116	158	159
Delta State U.	843	592	238	673	351	592	219	661	336
Life Chiropractic C.-West	845	ne	ne	350	350	ne	ne	0	0
Pacific Lutheran U.	846	449	370	495	347	100	147	170	229
Ramapo C. New Jersey	847	441	408	365	346	379	373	319	284
Taylor U.	847	232	214	204	346	3	9	16	11
A. T. Still U. of Health Sciences	849	656	448	517	345	462	257	281	197
U. Evansville	850	245	284	285	336	65	144	171	190
Pennsylvania State U., Wilkes-Barre	851	ne	250	267	335	ne	249	267	335
Pitzer C.	852	313	225	287	330	0	0	0	0
Wittenberg U.	853	297	445	508	325	165	228	331	162
Ohio Wesleyan U.	854	323	404	267	323	120	275	97	174
Pennsylvania State U., Abington	855	ne	369	323	320	ne	279	184	132
Truman State U.	856	296	237	327	318	60	46	73	29
U. Maine, Augusta	857	ne	ne	ne	317	ne	ne	ne	18
Alabama C., Osteopathic Medicine	858	303	184	236	311	41	17	34	0
Francis Marion U.	859	216	207	402	308	75	174	289	228
Pacific Northwest U. of Health Sciences	860	808	ne	ne	307	738	ne	ne	200
California State U., Maritime Academy	861	3,202	2,799	526	305	621	548	192	220
SUNY, Oneonta	861	214	214	288	305	115	24	3	3
Commonwealth U. of Pennsylvania	863	ne	ne	ne	304	ne	ne	ne	162
Bradley U.	864	851	416	240	301	235	101	88	115
U. North Carolina, Pembroke	865	344	243	290	297	344	243	290	297
Georgia C. and State U.	866	270	247	216	294	160	127	51	174
Maryland Institute C. of Art	867	618	634	407	292	215	309	93	134
Montana State U., Northern	867	322	372	214	292	125	148	43	207
Concordia U., Wisconsin	869	293	439	168	291	235	170	150	162
Southern C. of Optometry	870	446	ne	ne	288	11	ne	ne	5
Northern State U.	871	240	190	305	282	100	173	174	110
Arkansas C. of Health Education	872	900	672	301	277	350	69	46	104
Albion C.	873	1,132	847 i	562 i	276	272	257 i	242 i	226
Columbus State U.	873	261	206	271	276	93	77	228	210

TABLE 7

Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2023 total R&D expenditures: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Kansas City U.	875	235	ne	ne	274	142	ne	ne	166
Fuller Theological Seminary	876	ne	ne	ne	271	ne	ne	ne	75
Linfield U.	876	319	239	154	271	149	67	7	9
Northern New Mexico C.	878	404	350	239	264	404	350	239	264
Alverno C.	879	237	215	228	263	0	0	0	0
Bard C.	879	242	248	255	263	65	67	69	71
Indiana U., Northwest	881	488	553	495	253	176	273	203	33
Rogers State U.	881	ne	ne	ne	253	ne	ne	ne	81
Georgia Gwinnett C.	883	478	489	367	249	338	372	249	216
Manchester U.	883	286	266	303	249	117	134	100	46
Life U.	885	429	364	419	248	0	0	0	0
Washington and Lee U.	886	214	256	249	243	176	163	179	224
Hamline U.	887	ne	493	162	241	ne	320	35	109
Mississippi Valley State U.	888	653	391	344	233	646	379	330	220
U. Dallas	888	ne	249	564	233	ne	5	157	30
Centre C.	890	376	265	314	232	58	136	173	204
West Virginia U., Institute of Technology	891	ne	ne	ne	229	ne	ne	ne	94
Antioch U.	892	ne	ne	263	225	ne	ne	187	112
Valdosta State U.	892	496	423	262	225	60	123	47	67
Millersville U. Pennsylvania	894	402	931	395	224	246	785	213	95
Whittier C.	895	248	300	260	220	13	0	5	11
Luther C.	896	365	289	212	217	145	95	45	71
C. Southern Nevada	897	194	335	303	210	183	327	275	201
Converse U.	898	185	294	254	205	148	241	209	164
St. Mary's C. Maryland	898	556	349	1,063	205	303	124	599	152
SUNY, system office	898	ne	ne	ne	205	ne	ne	ne	39
Maine Maritime Academy	901	ne	ne	198	203	ne	ne	198	31
Jacksonville U.	902	459	460	162	200	0	0	0	0
Metropolitan State U.	903	156	162	176	196	80	85	94	104
U. Ana G. Mendez, Carolina	904	647	602	645	193	520	489	645	193
Oral Roberts U.	905	ne	ne	ne	190	ne	ne	ne	0
Northeastern State U.	906	406	279	351	187	330	179	208	121
Delaware Valley U.	907	ne	182	265	183	ne	41	7	28
U. Lynchburg	908	ne	150	164	182	ne	86	93	102
LeTourneau U.	909	271	346	239	175	125	217	169	88

TABLE 7

Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2023 total R&D expenditures: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
William Carey U.	910	ne	ne	ne	170	ne	ne	ne	16
Eastern Oregon U.	911	172	162	206	163	150	143	190	143
Castleton U.	912	ne	ne	598	162	ne	ne	522	152
Saint Martin's U.	913	201	299	305	152	147	222	203	102
U. Puerto Rico, Arecibo	914	ne	ne	ne	150	ne	ne	ne	91
All other surveyed institutions	-	1,162,498	584,014	574,287	0	614,353	264,773	253,668	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

^a Johns Hopkins University includes the Applied Physics Laboratory, with \$2,333,049 thousand in total and \$2,268,228 thousand in federally financed R&D expenditures in FY 2023.

^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^c The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

^d The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

^e The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

^f Touro University, New York includes the Lovelace Biomedical Research Institute. In FY 2023, the Lovelace Biomedical Research Institute joined the Touro University System.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 8

Total and federally financed higher education R&D expenditures, by type of R&D: FYs 1953–2023

(Dollars in millions)

Fiscal year	Total					Federal				
	All R&D expenditures	Basic research		Applied research and experimental development		All federal R&D expenditures	Basic research		Applied research and experimental development	
		Amount	Percent	Amount	Percent		Amount	Percent	Amount	Percent
Total, S&E ^a										
1953	255	110	43.1	145	56.9	138	na	na	na	na
1954	290	136	46.9	154	53.1	160	na	na	na	na
1955	312	159	51.0	153	49.0	169	na	na	na	na
1956	372	200	53.8	172	46.2	213	na	na	na	na
1957	410	240	58.5	170	41.5	229	na	na	na	na
1958	456	281	61.6	175	38.4	254	na	na	na	na
1959	526	343	65.2	183	34.8	306	na	na	na	na
1960	646	433	67.0	213	33.0	405	na	na	na	na
1961	763	536	70.2	227	29.8	500	na	na	na	na
1962	904	659	72.9	245	27.1	613	na	na	na	na
1963	1,081	814	75.3	267	24.7	760	na	na	na	na
1964	1,275	1,003	78.7	272	21.3	917	na	na	na	na
1965	1,474	1,138	77.2	336	22.8	1,073	na	na	na	na
1966	1,715	1,303	76.0	412	24.0	1,261	na	na	na	na
1967	1,921	1,457	75.8	464	24.2	1,409	na	na	na	na
1968	2,149	1,650	76.8	499	23.2	1,572	na	na	na	na
1969	2,225	1,711	76.9	514	23.1	1,600	na	na	na	na
1970	2,335	1,796	76.9	539	23.1	1,647	na	na	na	na
1971	2,500	1,914	76.6	586	23.4	1,724	na	na	na	na
1972	2,630	2,022	76.9	608	23.1	1,795	1,420	79.1	375	20.9
1973	2,884	2,053	71.2	831	28.8	1,985	1,454	73.2	531	26.8
1974	3,023	2,154	71.3	869	28.7	2,032	1,523	74.9	509	25.1
1975	3,409	2,410	70.7	999	29.3	2,288	1,695	74.1	593	25.9
1976	3,729	2,549	68.4	1,180	31.6	2,512	1,841	73.3	671	26.7
1977	4,067	2,800	68.8	1,267	31.2	2,726	2,007	73.6	720	26.4
1978 ^b	4,625	na	na	na	na	3,059	na	na	na	na
1979	5,366	3,619	67.4	1,747	32.6	3,598	2,577	71.6	1,022	28.4
1980	6,063	4,036	66.6	2,026	33.4	4,098	2,861	69.8	1,237	30.2
1981	6,847	4,594	67.1	2,253	32.9	4,571	3,260	71.3	1,311	28.7
1982	7,324	4,879	66.6	2,445	33.4	4,768	3,402	71.3	1,367	28.7
1983	7,882	5,303	67.3	2,579	32.7	4,989	3,547	71.1	1,442	28.9
1984	8,620	5,733	66.5	2,887	33.5	5,431	3,830	70.5	1,601	29.5
1985	9,687	6,556	67.7	3,131	32.3	6,064	4,343	71.6	1,722	28.4
1986	10,928	7,492	68.6	3,435	31.4	6,712	4,868	72.5	1,844	27.5
1987	12,153	8,393	69.1	3,760	30.9	7,343	5,375	73.2	1,968	26.8
1988	13,463	8,894	66.1	4,569	33.9	8,193	5,678	69.3	2,515	30.7
1989	14,979	9,793	65.4	5,186	34.6	8,993	6,195	68.9	2,797	31.1
1990	16,290	10,645	65.3	5,645	34.7	9,640	6,649	69.0	2,991	31.0
1991	17,589	11,607	66.0	5,982	34.0	10,238	7,128	69.6	3,110	30.4
1992	18,821	12,516	66.5	6,305	33.5	11,095	7,718	69.6	3,377	30.4
1993	19,954	13,303	66.7	6,651	33.3	11,960	8,398	70.2	3,562	29.8
1994	21,035	13,989	66.5	7,046	33.5	12,654	8,878	70.2	3,775	29.8
1995	22,179	14,812	66.8	7,367	33.2	13,337	9,399	70.5	3,938	29.5
1996	23,055	15,481	67.1	7,574	32.9	13,847	9,868	71.3	3,978	28.7
1997	24,380	16,602	68.1	7,778	31.9	14,321	10,316	72.0	4,006	28.0
1998	25,867	19,058	73.7	6,810	26.3	15,159	11,862	78.2	3,298	21.8

TABLE 8

Total and federally financed higher education R&D expenditures, by type of R&D: FYs 1953–2023

(Dollars in millions)

Fiscal year	Total						Federal				
	All R&D expenditures	Basic research		Applied research and experimental development		All federal R&D expenditures	Basic research		Applied research and experimental development		
		Amount	Percent	Amount	Percent		Amount	Percent	Amount	Percent	
1999	27,544	20,450	74.2	7,094	25.8	16,112	12,746	79.1	3,365	20.9	
2000	30,084	22,547	74.9	7,537	25.1	17,548	13,936	79.4	3,611	20.6	
2001	32,801	24,392	74.4	8,409	25.6	19,227	15,038	78.2	4,188	21.8	
2002	36,383	27,363	75.2	9,019	24.8	21,856	17,262	79.0	4,593	21.0	
2003	40,077	30,105	75.1	9,973	24.9	24,753	19,627	79.3	5,126	20.7	
2004	43,238	31,957	73.9	11,281	26.1	27,627	21,353	77.3	6,274	22.7	
2005	45,774	34,353	75.0	11,421	25.0	29,187	22,885	78.4	6,302	21.6	
2006	47,759	36,082	75.5	11,677	24.5	30,132	23,697	78.6	6,434	21.4	
2007	49,495	37,726	76.2	11,769	23.8	30,430	24,001	78.9	6,429	21.1	
2008	51,872	39,322	75.8	12,550	24.2	31,272	24,430	78.1	6,842	21.9	
2009	54,863	40,913	74.6	13,950	25.4	32,576	25,025	76.8	7,551	23.2	
Total, S&E and non-S&E ^a											
2010	61,287	40,949	66.8	20,337	33.2	37,478	25,678	68.5	11,800	31.5	
2011	65,274	43,455	66.6	21,819	33.4	40,768	27,675	67.9	13,093	32.1	
2012	65,729	43,120	65.6	22,609	34.4	40,142	26,850	66.9	13,292	33.1	
2013	66,978	43,976	65.7	23,001	34.3	39,446	26,409	66.9	13,037	33.1	
2014	67,161	43,594	64.9	23,567	35.1	37,961	25,210	66.4	12,751	33.6	
2015	68,520	44,386	64.8	24,134	35.2	37,847	25,242	66.7	12,605	33.3	
2016	71,737	45,697	63.7	26,040	36.3	38,788	25,302	65.2	13,486	34.8	
2017	75,149	47,204	62.8	27,945	37.2	40,248	26,022	64.7	14,226	35.3	
2018	79,026	49,889	63.1	29,137	36.9	41,860	27,068	64.7	14,792	35.3	
2019	83,490	52,722	63.1	30,768	36.9	44,460	28,796	64.8	15,664	35.2	
2020	86,306	54,376	63.0	31,930	37.0	46,107	29,459	63.9	16,648	36.1	
2021	89,701	56,229	62.7	33,472	37.3	49,118	31,303	63.7	17,815	36.3	
2022	97,670	61,736	63.2	35,934	36.8	53,975	34,686	64.3	19,289	35.7	
2023	108,681	68,468	63.0	40,213	37.0	59,604	38,130	64.0	21,474	36.0	

na = not applicable; separate data for federally financed basic research, applied research, and experimental development were not collected for these years.

S&E = science and engineering.

^a Totals for FYs 1953–2009 represent R&D expenditures in S&E fields only. Beginning in FY 2010, totals and type of R&D data include R&D expenditures in S&E fields and non-S&E fields.

^b FY 1978 data are estimated based on data collected from doctorate-granting institutions only.

Note(s):

Type of R&D estimation procedure was revised for FY 1998 and later years; hence, these data are not directly comparable to data for FY 1997 and earlier years. Prior to FY 2010, R&D expenditures by type of R&D were based on percentage estimates of basic research provided by universities and colleges. Beginning in FY 2010, institutions were asked for dollar amounts of federally funded and nonfederally funded R&D expenditures for basic research, applied research, and experimental development. Because of rounding, detail may not add to total.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 9

Higher education R&D expenditures, by source of funds and type of R&D: FYs 2010–23

(Dollars in thousands)

Fiscal year	Total				Federal				Nonfederal			
	All R&D expenditures	Basic research	Applied research	Experimental development	All R&D expenditures	Basic research	Applied research	Experimental development	All R&D expenditures	Basic research	Applied research	Experimental development
2010	61,286,610	40,949,184	15,107,127	5,230,299	37,477,582	25,677,713	9,133,503	2,666,366	23,809,028	15,271,471	5,973,624	2,563,933
2011	65,274,393	43,455,207	16,298,883	5,520,303	40,768,251	27,675,430	10,227,797	2,865,024	24,506,142	15,779,777	6,071,086	2,655,279
2012	65,729,007	43,119,743	16,787,565	5,821,699	40,142,223	26,850,432	10,268,318	3,023,473	25,586,784	16,269,311	6,519,247	2,798,226
2013	66,977,566	43,976,241	16,905,628	6,095,697	39,445,931	26,409,024	10,052,792	2,984,115	27,531,635	17,567,217	6,852,836	3,111,582
2014	67,161,428	43,594,083	17,313,106	6,254,239	37,961,118	25,210,261	9,775,786	2,975,071	29,200,310	18,383,822	7,537,320	3,279,168
2015	68,519,962	44,385,516	17,538,719	6,595,727	37,846,802	25,241,977	9,694,550	2,910,275	30,673,160	19,143,539	7,844,169	3,685,452
2016	71,737,194	45,696,853	19,412,137	6,628,204	38,787,982	25,301,803	10,582,217	2,903,962	32,949,212	20,395,050	8,829,920	3,724,242
2017	75,149,390	47,204,066	20,816,754	7,128,570	40,248,055	26,022,388	11,223,064	3,002,603	34,901,335	21,181,678	9,593,690	4,125,967
2018	79,025,976	49,888,637	21,737,440	7,399,899	41,860,383	27,068,411	11,685,645	3,106,327	37,165,593	22,820,226	10,051,795	4,293,572
2019	83,490,430	52,722,175	23,049,547	7,718,708	44,460,361	28,796,350	12,358,201	3,305,810	39,030,069	23,925,825	10,691,346	4,412,898
2020	86,306,106	54,376,334	23,863,994	8,065,778	46,106,870	29,458,997	12,871,293	3,776,580	40,199,236	24,917,337	10,992,701	4,289,198
2021	89,700,890	56,228,532	24,780,115	8,692,243	49,117,850	31,303,103	13,711,015	4,103,732	40,583,040	24,925,429	11,069,100	4,588,511
2022	97,669,577	61,735,510	26,683,325	9,250,742	53,974,897	34,685,946	14,872,219	4,416,732	43,694,680	27,049,564	11,811,106	4,834,010
2023	108,681,008	68,468,210	29,595,527	10,617,271	59,603,993	38,129,644	16,372,525	5,101,824	49,077,015	30,338,566	13,223,002	5,515,447

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 10

Higher education R&D expenditures, by R&D field: FYs 2010–23

(Dollars in thousands)

Field	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Mechanical engineering	1,458,382	1,556,892	1,550,151	1,647,640	1,503,710	1,513,951	1,434,699	1,535,866	1,630,560	1,705,001	1,813,738	1,882,114	2,062,472	2,324,946
Metallurgical and materials engineering	703,332	738,892	757,967	812,231	1,202,757	1,101,599	743,980	735,699	762,688	792,373	818,672	841,720	886,659	1,039,160
Engineering nec	1,805,283	1,922,269	1,993,410	2,084,091	2,010,395	2,020,713	2,258,800	2,113,850	1,971,653	2,191,089	2,240,469	2,396,259	2,466,359	2,611,821
Non-S&E	2,899,059	3,286,376	3,530,026	3,634,796	3,428,145	3,613,677	4,133,999	4,302,000	4,644,142	4,857,395	5,038,722	5,118,609	5,862,482	6,904,991
Business management and business administration	370,015	400,376	443,079	473,157	481,154	569,570	642,332	725,524	784,623	868,197	888,023	934,630	1,081,102	1,218,052
Communication and communications technologies	130,396	153,743	159,920	148,496	166,040	168,512	166,414	202,562	191,641	206,796	192,511	186,843	213,728	253,609
Education	993,588	1,120,766	1,233,437	1,220,888	1,243,226	1,292,178	1,340,553	1,384,611	1,503,956	1,522,064	1,607,695	1,617,052	1,740,791	2,042,372
Humanities	260,374	313,032	339,633	386,736	402,173	430,058	443,912	493,627	505,164	539,318	565,489	561,342	713,322	846,919
Law	98,109	124,779	131,514	173,479	149,235	174,692	184,344	223,843	266,365	255,830	267,888	282,769	358,689	430,807
Social work	177,331	194,667	199,046	212,323	225,897	214,205	211,548	235,296	245,120	285,655	306,409	319,611	363,069	416,735
Visual and performing arts	68,717	77,358	84,596	87,291	95,837	100,681	133,699	124,805	137,341	159,288	175,067	178,471	228,271	283,750
Non-S&E nec	800,529	901,655	938,801	932,426	664,583	663,781	1,011,197	911,732	1,009,932	1,020,247	1,035,640	1,037,891	1,163,510	1,412,747

na = not applicable; separate data for natural resources and conservation, materials science, anthropology, and industrial and manufacturing engineering were not collected prior to FY 2016.

nec = not elsewhere classified; S&E = science and engineering.

^a Prior to FY 2016, expenditures for natural resources and conservation, materials science, anthropology, and industrial and manufacturing engineering were not collected separately. See the FY 2016 Technical Notes, Appendix A (<https://ncesdata.nsf.gov/herd/2016>) for information detailing where these fields were previously reported.

Note(s):

FY 2016 R&D expenditure amounts in various fields may show increases or decreases from amounts reported in FY 2015 because of the reclassification of disciplines. See the FY 2016 Technical Notes, Appendix A (<https://ncesdata.nsf.gov/herd/2016>) for specific details about discipline changes

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 11

Federally financed higher education R&D expenditures, by R&D field: FYs 2010–23

(Dollars in thousands)

Field	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Mechanical engineering	953,244	1,032,641	1,035,551	1,061,270	946,699	957,328	861,067	937,881	993,253	1,055,683	1,160,467	1,274,074	1,409,635	1,551,973
Metallurgical and materials engineering	429,412	455,722	462,246	465,657	494,403	501,180	442,377	440,746	464,470	483,777	504,491	559,479	589,113	693,211
Engineering nec	1,143,313	1,219,670	1,213,939	1,203,160	1,109,730	1,072,653	1,055,185	957,810	825,430	892,726	936,043	979,697	999,645	1,143,363
Non-S&E	967,151	1,119,656	1,202,227	1,181,558	1,136,854	1,071,197	1,112,516	1,215,935	1,247,806	1,242,901	1,237,536	1,355,900	1,491,165	1,724,799
Business management and business administration	86,440	99,661	96,659	95,268	77,292	69,856	68,285	69,113	71,785	73,180	74,141	97,392	97,921	109,626
Communication and communications technologies	41,339	53,266	53,337	51,060	54,334	42,461	36,763	61,310	34,259	35,640	39,806	39,465	42,680	58,280
Education	535,744	632,117	689,060	666,506	663,543	644,087	624,514	653,112	680,407	668,083	671,646	699,705	783,552	890,786
Humanities	57,510	61,420	67,692	76,804	75,113	59,961	57,171	59,051	49,999	49,806	53,655	56,682	68,935	65,170
Law	19,338	27,388	24,575	22,522	23,731	24,414	26,082	33,024	50,926	31,869	26,695	28,799	32,389	35,110
Social work	94,422	105,661	109,359	111,693	109,172	101,662	95,299	110,678	114,295	133,068	140,774	165,256	182,395	205,510
Visual and performing arts	4,843	6,521	10,435	7,039	9,049	8,603	8,585	8,335	10,797	9,103	15,119	11,384	21,183	20,717
Non-S&E nec	127,515	133,622	151,110	150,666	124,620	120,153	195,817	221,312	235,338	242,152	215,700	257,217	262,110	339,600

na = not applicable; separate data for natural resources and conservation, materials science, anthropology, and industrial and manufacturing engineering were not collected prior to FY 2016.

nec = not elsewhere classified; S&E = science and engineering.

^a Prior to FY 2016, expenditures for natural resources and conservation, materials science, anthropology, and industrial and manufacturing engineering were not collected separately. See the FY 2016 Technical Notes, Appendix A (<https://ncesdata.nsf.gov/herd/2016>) for information detailing where these fields were previously reported.

Note(s):

FY 2016 R&D expenditure amounts in various fields may show increases or decreases from amounts reported in FY 2015 because of the reclassification of disciplines. See the FY 2016 Technical Notes, Appendix A (<https://ncesdata.nsf.gov/herd/2016>) for specific details about discipline changes

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 12

Nonfederally financed higher education R&D expenditures, by R&D field: FYs 2010–23

(Dollars in thousands)

Field	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Mechanical engineering	505,138	524,251	514,600	586,370	557,011	556,623	573,632	597,985	637,307	649,318	653,271	608,040	652,837	772,973
Metallurgical and materials engineering	273,920	283,170	295,721	346,574	708,354	600,419	301,603	294,953	298,218	308,596	314,181	282,241	297,546	345,949
Engineering nec	661,970	702,599	779,471	880,931	900,665	948,060	1,203,615	1,156,040	1,146,223	1,298,363	1,304,426	1,416,562	1,466,714	1,468,458
Non-S&E	1,931,908	2,166,720	2,327,799	2,453,238	2,291,291	2,542,480	3,021,483	3,086,065	3,396,336	3,614,494	3,801,186	3,762,709	4,371,317	5,180,192
Business management and business administration	283,575	300,715	346,420	377,889	403,862	499,714	574,047	656,411	712,838	795,017	813,882	837,238	983,181	1,108,426
Communication and communications technologies	89,057	100,477	106,583	97,436	111,706	126,051	129,651	141,252	157,382	171,156	152,705	147,378	171,048	195,329
Education	457,844	488,649	544,377	554,382	579,683	648,091	716,039	731,499	823,549	853,981	936,049	917,347	957,239	1,151,586
Humanities	202,864	251,612	271,941	309,932	327,060	370,097	386,741	434,576	455,165	489,512	511,834	504,660	644,387	781,749
Law	78,771	97,391	106,939	150,957	125,504	150,278	158,262	190,819	215,439	223,961	241,193	253,970	326,300	395,697
Social work	82,909	89,006	89,687	100,630	116,725	112,543	116,249	124,618	130,825	152,587	165,635	154,355	180,674	211,225
Visual and performing arts	63,874	70,837	74,161	80,252	86,788	92,078	125,114	116,470	126,544	150,185	159,948	167,087	207,088	263,033
Non-S&E nec	673,014	768,033	787,691	781,760	539,963	543,628	815,380	690,420	774,594	778,095	819,940	780,674	901,400	1,073,147

na = not applicable; separate data for natural resources and conservation, materials science, anthropology, and industrial and manufacturing engineering were not collected prior to FY 2016.

nec = not elsewhere classified; S&E = science and engineering.

^a Prior to FY 2016, expenditures for natural resources and conservation, materials science, anthropology, and industrial and manufacturing engineering were not collected separately. See the FY 2016 Technical Notes, Appendix A (<https://ncesdata.nsf.gov/herd/2016>) for information detailing where these fields were previously reported.

Note(s):

FY 2016 R&D expenditure amounts in various fields may show increases or decreases from amounts reported in FY 2015 because of the reclassification of disciplines. See the FY 2016 Technical Notes, Appendix A (<https://ncesdata.nsf.gov/herd/2016>) for specific details about discipline changes

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 13

Higher education R&D expenditures, by source of funds and R&D field: FY 2023

(Dollars in thousands)

Field	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
All R&D fields	108,681,008	59,603,993	5,437,566	27,654,829	6,221,128	6,671,012	3,092,480
Science	84,307,571	46,947,867	3,999,425	20,710,669	4,729,099	5,523,920	2,396,591
Computer and information sciences	3,617,348	2,417,938	92,811	746,035	184,448	102,976	73,140
Geosciences, atmospheric sciences, and ocean sciences	4,032,534	2,693,891	256,518	744,177	91,593	160,734	85,621
Atmospheric science and meteorology	723,727	583,161	19,012	89,160	8,111	14,336	9,947
Geological and earth sciences	1,488,300	921,482	75,003	336,752	50,694	61,060	43,309
Ocean sciences and marine sciences	1,365,092	891,194	130,518	237,128	21,338	62,096	22,818
Geosciences, atmospheric sciences, and ocean sciences nec	455,415	298,054	31,985	81,137	11,450	23,242	9,547
Life sciences	62,204,360	33,896,235	3,161,287	14,981,678	4,118,928	4,173,988	1,872,244
Agricultural sciences	4,285,689	1,458,868	1,055,262	1,312,589	163,362	153,390	142,218
Biological and biomedical sciences	19,526,385	11,753,581	605,856	4,541,078	909,293	1,239,276	477,301
Health sciences	35,724,571	19,390,822	1,245,027	8,327,824	2,967,948	2,644,523	1,148,427
Natural resources and conservation	1,079,516	512,675	166,015	303,113	19,284	48,391	30,038
Life sciences nec	1,588,199	780,289	89,127	497,074	59,041	88,408	74,260
Mathematics and statistics	1,060,700	661,446	30,663	293,464	13,942	52,785	8,400
Physical sciences	6,944,769	4,621,763	129,636	1,520,045	216,254	302,363	154,708
Astronomy and astrophysics	967,125	659,781	6,716	174,140	2,870	71,341	52,277
Chemistry	2,301,102	1,413,489	56,323	594,769	89,182	107,492	39,847
Materials science	319,102	205,797	3,257	69,680	17,630	5,714	17,024
Physics	2,966,923	2,123,118	44,142	597,719	63,168	101,088	37,688
Physical sciences nec	390,517	219,578	19,198	83,737	43,404	16,728	7,872
Psychology	1,637,829	978,784	59,755	462,658	13,266	101,674	21,692
Social sciences	3,615,227	1,202,546	208,838	1,444,371	48,351	560,818	150,303
Anthropology	151,778	46,631	2,882	86,134	1,697	9,028	5,406
Economics	723,797	206,477	51,013	282,137	13,846	134,058	36,266
Political science and government	556,983	111,794	18,347	256,138	4,953	122,971	42,780
Sociology, demography, and population studies	727,782	317,113	38,872	247,163	8,174	102,853	13,607
Social sciences nec	1,454,887	520,531	97,724	572,799	19,681	191,908	52,244
Sciences nec	1,194,804	475,264	59,917	518,241	42,317	68,582	30,483
Engineering	17,468,446	10,931,327	961,129	3,329,879	1,316,843	469,350	459,918
Aerospace, aeronautical, and astronautical engineering	1,913,964	1,425,681	49,179	169,291	234,299	13,133	22,381
Bioengineering and biomedical engineering	1,885,216	1,198,449	72,787	405,953	65,963	108,655	33,409
Chemical engineering	1,246,882	713,248	49,789	289,767	111,376	50,687	32,015
Civil engineering	1,900,543	929,044	321,866	464,145	89,171	53,101	43,216
Electrical, electronic, and communications engineering	3,838,675	2,794,497	95,317	565,978	213,480	91,116	78,287
Industrial and manufacturing engineering	707,239	481,861	42,289	123,495	38,000	11,101	10,493
Mechanical engineering	2,324,946	1,551,973	75,145	418,863	188,103	42,727	48,135

TABLE 13

Higher education R&D expenditures, by source of funds and R&D field: FY 2023

(Dollars in thousands)

Field	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Metallurgical and materials engineering	1,039,160	693,211	31,768	188,925	75,209	26,021	24,026
Engineering nec	2,611,821	1,143,363	222,989	703,462	301,242	72,809	167,956
Non-S&E	6,904,991	1,724,799	477,012	3,614,281	175,186	677,742	235,971
Business management and business administration	1,218,052	109,626	46,073	895,095	44,567	61,346	61,345
Communication and communications technologies	253,609	58,280	17,077	125,641	6,620	37,174	8,817
Education	2,042,372	890,786	198,505	630,046	47,941	237,427	37,667
Humanities	846,919	65,170	21,484	594,879	14,677	111,700	39,009
Law	430,807	35,110	27,187	251,221	12,851	83,021	21,417
Social work	416,735	205,510	60,678	107,154	4,131	35,487	3,775
Visual and performing arts	283,750	20,717	14,035	219,951	1,711	15,636	11,700
Non-S&E nec	1,412,747	339,600	91,973	790,294	42,688	95,951	52,241

nec = not elsewhere classified; S&E = science and engineering.

Note(s):

This table includes only institutions reporting \$1 million or more in total R&D expenditures in 2022. Institutions reporting less than \$1 million in total R&D expenditures in 2022 completed a shorter version of the survey form in FY 2023, and that form did not collect R&D expenditures by source and detailed field. For R&D expenditures by major field at institutions completing the shorter version of the survey, see [table 84](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 14

Federally financed higher education R&D expenditures, by federal agency and R&D field: FY 2023

(Dollars in thousands)

Field	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
All R&D fields	59,603,993	9,047,729	2,671,326	33,097,927	2,295,593	6,699,546	1,700,216	4,091,656
Science	46,947,867	4,260,197	1,466,742	31,317,960	1,570,433	4,579,053	1,552,432	2,201,050
Computer and information sciences	2,417,938	1,089,161	71,235	194,801	30,726	844,522	19,686	167,807
Geosciences, atmospheric sciences, and ocean sciences	2,693,891	321,866	123,855	59,854	538,770	886,194	40,799	722,553
Atmospheric science and meteorology	583,161	76,730	27,141	3,750	178,388	110,762	2,386	184,004
Geological and earth sciences	921,482	75,696	74,059	6,891	234,313	347,686	20,629	162,208
Ocean sciences and marine sciences	891,194	157,043	12,613	12,340	82,347	364,017	5,816	257,018
Geosciences, atmospheric sciences, and ocean sciences nec	298,054	12,397	10,042	36,873	43,722	63,729	11,968	119,323
Life sciences	33,896,235	1,632,039	236,841	28,903,440	91,364	907,224	1,385,357	739,970
Agricultural sciences	1,458,868	18,706	45,986	201,617	10,573	98,938	950,048	133,000
Biological and biomedical sciences	11,753,581	428,195	142,053	10,127,080	28,376	630,442	226,729	170,706
Health sciences	19,390,822	1,060,987	24,669	17,877,236	36,780	82,761	44,231	264,158
Natural resources and conservation	512,675	105,418	20,579	24,391	12,700	68,535	139,324	141,728
Life sciences nec	780,289	18,733	3,554	673,116	2,935	26,548	25,025	30,378
Mathematics and statistics	661,446	185,496	10,810	73,821	101,103	251,663	7,056	31,497
Physical sciences	4,621,763	739,426	977,109	729,009	769,296	1,284,351	14,884	107,688
Astronomy and astrophysics	659,781	19,836	21,740	639	475,657	138,298	81	3,530
Chemistry	1,413,489	151,600	194,936	616,933	17,360	403,844	6,270	22,546
Materials science	205,797	82,646	31,740	12,947	2,180	64,495	1,918	9,871
Physics	2,123,118	447,113	686,482	75,520	253,344	605,192	2,676	52,791
Physical sciences nec	219,578	38,231	42,211	22,970	20,755	72,522	3,939	18,950
Psychology	978,784	80,354	744	713,565	16,442	83,291	3,620	80,768
Social sciences	1,202,546	101,687	17,502	505,495	15,219	192,977	69,862	299,804
Anthropology	46,631	5,238	1,145	6,276	135	23,878	1,751	8,208
Economics	206,477	7,953	8,241	65,924	481	28,457	49,764	45,657
Political science and government	111,794	18,621	2,798	24,266	385	29,655	740	35,329
Sociology, demography, and population studies	317,113	18,537	109	175,312	478	44,202	6,156	72,319
Social sciences nec	520,531	51,338	5,209	233,717	13,740	66,785	11,451	138,291
Sciences nec	475,264	110,168	28,646	137,975	7,513	128,831	11,168	50,963
Engineering	10,931,327	4,687,204	1,190,092	1,346,015	713,488	1,731,109	106,665	1,156,754
Aerospace, aeronautical, and astronautical engineering	1,425,681	934,883	24,542	8,032	243,344	47,170	882	166,828
Bioengineering and biomedical engineering	1,198,449	180,574	18,976	809,336	10,653	112,066	25,480	41,364
Chemical engineering	713,248	122,331	194,182	115,522	12,700	189,820	9,669	69,024
Civil engineering	929,044	125,841	150,480	50,189	21,442	205,336	14,982	360,774
Electrical, electronic, and communications engineering	2,794,497	1,609,605	192,325	121,774	174,566	521,668	7,554	167,005
Industrial and manufacturing engineering	481,861	296,911	21,269	14,111	33,466	58,221	2,175	55,708
Mechanical engineering	1,551,973	726,112	191,190	98,491	133,253	280,269	8,374	114,284
Metallurgical and materials engineering	693,211	332,441	154,593	37,692	16,424	120,492	1,878	29,691
Engineering nec	1,143,363	358,506	242,535	90,868	67,640	196,067	35,671	152,076
Non-S&E	1,724,799	100,328	14,492	433,952	11,672	389,384	41,119	733,852

TABLE 14

Federally financed higher education R&D expenditures, by federal agency and R&D field: FY 2023

(Dollars in thousands)

Field	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
Business management and business administration	109,626	14,182	3,277	9,979	113	20,474	4,020	57,581
Communication and communications technologies	58,280	6,670	3,194	20,882	566	17,372	921	8,675
Education	890,786	18,407	1,882	111,763	6,200	265,552	10,904	476,078
Humanities	65,170	6,849	374	11,938	1	13,708	469	31,831
Law	35,110	285	323	8,057	0	2,267	281	23,897
Social work	205,510	907	6	183,042	2	1,281	1,350	18,922
Visual and performing arts	20,717	883	452	2,518	2,575	4,851	253	9,185
Non-S&E nec	339,600	52,145	4,984	85,773	2,215	63,879	22,921	107,683

DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; nec = not elsewhere classified; S&E = science and engineering; USDA = Department of Agriculture.

^a Includes all other agencies reported.

Note(s):

This table includes only institutions reporting \$1 million or more in total R&D expenditures in 2022. Institutions reporting less than \$1 million in total R&D expenditures in 2022 completed a shorter version of the survey form in FY 2023, and that form did not collect federally financed R&D expenditures by source and detailed field. For federally financed R&D expenditures by major field at institutions completing the shorter version of the survey, see [table 85](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 15
Higher education R&D expenditures from foreign sources, by highest degree granted and institutional control: FYs 2010–23 and by source of foreign funds for FYs 2016–23

(Dollars in thousands)

Source of foreign funds, highest degree granted, and institutional control	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
All institutions														
All foreign funds	642,858	719,255	797,787	979,476	1,003,537	1,065,671	1,184,867	1,220,885	1,254,464	1,273,247	1,308,620	1,344,876	1,479,456	1,619,058
Foreign government	na	na	na	na	na	na	170,707	177,628	254,879	279,743	303,279	294,477	302,196	315,926
Business	na	na	na	na	na	na	489,011	511,639	543,810	571,151	622,596	652,999	715,366	756,578
Nonprofit organizations	na	na	na	na	na	na	302,815	320,921	275,125	276,290	251,276	265,515	338,493	402,698
Higher education institutions	na	na	na	na	na	na	114,511	112,178	116,147	110,672	108,794	107,804	96,078	97,835
All other sources	na	na	na	na	na	na	107,823	98,519	64,503	35,391	22,675	24,081	27,323	46,021
Doctorate														
All foreign funds	640,490	715,437	795,057	975,436	999,123	1,060,276	1,171,157	1,216,291	1,247,904	1,268,633	1,302,997	1,339,869	1,474,873	1,615,222
Foreign government	na	na	na	na	na	na	168,903	177,238	254,328	279,313	303,055	294,354	301,172	314,605
Business	na	na	na	na	na	na	479,482	509,144	540,437	569,428	620,022	650,316	714,473	756,218
Nonprofit organizations	na	na	na	na	na	na	302,156	320,365	274,462	275,364	249,678	264,105	336,871	400,986
Higher education institutions	na	na	na	na	na	na	114,023	111,836	115,290	109,704	108,075	107,594	95,868	97,667
All other sources	na	na	na	na	na	na	106,593	97,708	63,387	34,824	22,167	23,500	26,489	45,746
Nondoctorate														
All foreign funds	2,368	3,818	2,730	4,040	4,414	5,395	13,710	4,594	6,560	4,614	5,623	5,007	4,583	3,836
Foreign government	na	na	na	na	na	na	1,804	390	551	430	224	123	1,024	1,321
Business	na	na	na	na	na	na	9,529	2,495	3,373	1,723	2,574	2,683	893	360
Nonprofit organizations	na	na	na	na	na	na	659	556	663	926	1,598	1,410	1,622	1,712
Higher education institutions	na	na	na	na	na	na	488	342	857	968	719	210	210	168
All other sources	na	na	na	na	na	na	1,230	811	1,116	567	508	581	834	275
Public														
All foreign funds	381,519	418,115	437,190	493,577	518,759	528,668	546,467	565,881	594,110	597,565	625,204	649,479	713,494	782,433
Foreign government	na	na	na	na	na	na	57,063	51,385	116,776	89,490	77,922	64,982	65,507	70,808
Business	na	na	na	na	na	na	265,472	263,530	277,907	308,199	355,645	380,285	431,565	458,575
Nonprofit organizations	na	na	na	na	na	na	153,363	174,841	120,179	121,210	113,522	126,342	141,038	158,942
Higher education institutions	na	na	na	na	na	na	51,123	56,551	60,238	60,971	64,300	65,226	61,127	60,035
All other sources	na	na	na	na	na	na	19,446	19,574	19,010	17,695	13,815	12,644	14,257	34,073
Private														
All foreign funds	261,339	301,140	360,597	485,899	484,778	537,003	638,400	655,004	660,354	675,682	683,416	695,397	765,962	836,625
Foreign government	na	na	na	na	na	na	113,644	126,243	138,103	190,253	225,357	229,495	236,689	245,118
Business	na	na	na	na	na	na	223,539	248,109	265,903	262,952	266,951	272,714	283,801	298,003
Nonprofit organizations	na	na	na	na	na	na	149,452	146,080	154,946	155,080	137,754	139,173	197,455	243,756
Higher education institutions	na	na	na	na	na	na	63,388	55,627	55,909	49,701	44,494	42,578	34,951	37,800
All other sources	na	na	na	na	na	na	88,377	78,945	45,493	17,696	8,860	11,437	13,066	11,948

na = not applicable; separate data for source of foreign funds were not collected for these years.

Note(s):

Prior to FY 2016, only total R&D expenditures from foreign sources was collected. Beginning in FY 2016, institutions were asked for the source of foreign funding.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 16

Externally funded higher education R&D expenditures, by highest degree granted, institutional control, and type of agreement: FYs 2010–23

(Dollars in thousands)

Type of agreement, highest degree granted, and institutional control	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
All institutions														
All externally funded R&D	49,344,078	52,694,073	52,141,609	52,076,758	51,463,714	51,957,808	53,866,345	56,300,440	58,847,676	62,419,495	64,316,329	67,255,949	73,176,312	81,026,179
Contracts	10,771,669	11,013,679	11,368,460	11,538,086	11,549,460	12,025,539	12,166,676	12,836,363	13,421,993	14,504,897	15,379,517	16,043,718	17,425,027	19,578,852
Grants, reimbursements, and all other agreements	38,572,409	41,680,394	40,773,149	40,538,672	39,914,254	39,932,269	41,699,669	43,464,077	45,425,683	47,914,598	48,936,812	51,212,231	55,751,285	61,447,327
Doctorate														
All externally funded R&D	48,504,214	51,725,752	51,314,264	51,439,912	50,881,747	51,452,527	53,027,143	55,772,958	58,347,330	61,911,307	63,808,415	66,730,567	72,571,882	80,352,340
Contracts	10,607,924	10,830,416	11,224,244	11,441,480	11,458,471	11,959,592	11,996,991	12,779,611	13,364,734	14,431,570	15,300,976	15,972,114	17,340,013	19,461,909
Grants, reimbursements, and all other agreements	37,896,290	40,895,336	40,090,020	39,998,432	39,423,276	39,492,935	41,030,152	42,993,347	44,982,596	47,479,737	48,507,439	50,758,453	55,231,869	60,890,431
Nondoctorate														
All externally funded R&D	839,864	968,321	827,345	636,846	581,967	505,281	839,202	527,482	500,346	508,188	507,914	525,382	604,430	673,839
Contracts	163,745	183,263	144,216	96,606	90,989	65,947	169,685	56,752	57,259	73,327	78,541	71,604	85,014	116,943
Grants, reimbursements, and all other agreements	676,119	785,058	683,129	540,240	490,978	439,334	669,517	470,730	443,087	434,861	429,373	453,778	519,416	556,896
Public														
All externally funded R&D	31,934,135	34,048,019	33,752,723	33,705,035	33,067,468	33,292,859	34,453,166	35,917,977	37,546,488	39,665,446	41,017,967	42,611,373	46,413,251	51,563,234
Contracts	7,153,099	7,274,860	7,507,054	7,835,919	7,697,443	7,963,143	7,936,739	8,363,518	8,876,201	9,547,486	10,126,899	10,366,645	11,193,006	12,562,402
Grants, reimbursements, and all other agreements	24,781,036	26,773,159	26,245,669	25,869,116	25,370,025	25,329,716	26,516,427	27,554,459	28,670,287	30,117,960	30,891,068	32,244,728	35,220,245	39,000,832
Private														
All externally funded R&D	17,409,943	18,646,054	18,388,886	18,371,723	18,396,246	18,664,949	19,413,179	20,382,463	21,301,188	22,754,049	23,298,362	24,644,576	26,763,061	29,462,945
Contracts	3,618,570	3,738,819	3,861,406	3,702,167	3,852,017	4,062,396	4,229,937	4,472,845	4,545,792	4,957,411	5,252,618	5,677,073	6,232,021	7,016,450
Grants, reimbursements, and all other agreements	13,791,373	14,907,235	14,527,480	14,669,556	14,544,229	14,602,553	15,183,242	15,909,618	16,755,396	17,796,638	18,045,744	18,967,503	20,531,040	22,446,495

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 17

Higher education R&D expenditures, by type of cost, highest degree granted and institutional control: FYs 2010–23

(Dollars in thousands)

Type of cost, highest degree granted, and institutional control	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
All institutions														
All R&D	61,286,610	65,274,393	65,729,007	66,977,566	67,161,428	68,519,962	71,737,194	75,149,390	79,025,976	83,490,430	86,306,106	89,700,890	97,669,577	108,681,008
Direct costs	46,159,649	49,311,567	49,897,854	51,053,891	51,526,881	52,581,984	55,249,921	57,936,618	60,777,825	64,348,093	66,531,452	69,164,148	75,314,959	84,208,503
Salaries, wages, and fringe benefits	25,929,799	27,860,610	28,339,070	28,776,405	29,091,347	29,873,368	31,434,483	33,231,923	34,676,268	36,568,801	38,729,838	40,340,825	43,107,638	47,089,302
Software	105,970	116,422	103,456	107,685	96,523	117,008	113,557	109,653	121,863	136,544	158,589	173,000	192,893	222,099
Noncapitalized software	88,456	98,438	93,250	95,652	84,281	93,205	95,169	98,627	110,799	120,989	144,328	158,516	178,170	200,525
Capitalized software	17,514	17,984	10,206	12,033	12,242	23,803	18,388	11,026	11,064	15,555	14,261	14,484	14,723	21,574
Capitalized equipment	2,148,421	2,256,025	2,040,534	2,254,429	2,036,405	2,119,812	2,169,348	2,193,753	2,148,471	2,439,584	2,588,728	2,662,102	2,696,624	3,259,897
Passed through to subrecipients	4,956,929	5,436,850	5,531,421	5,689,087	5,702,930	5,633,803	5,696,733	5,915,794	6,332,293	6,757,122	7,100,926	7,626,789	8,605,444	9,514,892
Other direct costs	13,018,530	13,641,660	13,883,373	14,226,285	14,599,676	14,837,993	15,835,800	16,485,495	17,498,930	18,446,042	17,953,371	18,361,432	20,712,360	24,122,313
Indirect costs	15,126,961	15,962,826	15,831,153	15,923,675	15,634,547	15,937,978	16,487,273	17,212,772	18,248,151	19,142,337	19,774,654	20,536,742	22,354,618	24,472,505
Recovered	10,465,893	11,352,339	11,221,624	11,220,177	10,874,009	11,101,271	11,453,249	12,022,688	12,746,261	13,608,664	14,036,742	14,660,910	16,186,007	17,701,860
Unrecovered	4,661,068	4,610,487	4,609,529	4,703,498	4,760,538	4,836,707	5,034,024	5,190,084	5,501,890	5,533,673	5,737,912	5,875,832	6,168,611	6,770,645
Doctorate														
All R&D	60,266,691	64,064,133	64,700,201	66,182,145	66,410,192	67,860,286	70,686,976	74,441,469	78,355,175	82,803,180	85,613,262	89,020,989	96,892,572	107,813,315
Direct costs	45,266,156	48,282,499	49,022,847	50,363,045	50,877,741	52,010,844	54,331,508	57,313,332	60,194,555	63,754,118	65,935,372	68,579,823	74,654,660	83,467,547
Salaries, wages, and fringe benefits	25,494,721	27,357,645	27,906,910	28,436,384	28,757,780	29,582,616	31,084,360	32,913,287	34,363,836	36,256,876	38,416,748	40,016,043	42,761,923	46,710,009
Software	98,119	110,285	95,627	102,523	91,347	111,642	108,665	107,222	119,962	134,754	156,208	169,135	188,696	218,009
Noncapitalized software	80,940	92,808	86,115	90,658	79,643	88,077	90,568	96,578	109,040	119,354	142,277	155,015	174,034	196,632
Capitalized software	17,179	17,477	9,512	11,865	11,704	23,565	18,097	10,644	10,922	15,400	13,931	14,120	14,662	21,377
Capitalized equipment	2,086,956	2,192,296	1,995,345	2,219,549	2,011,004	2,095,590	2,039,169	2,166,520	2,124,588	2,418,126	2,565,540	2,634,091	2,664,916	3,222,971
Passed through to subrecipients	4,901,412	5,371,178	5,469,627	5,647,933	5,663,448	5,609,183	5,659,155	5,884,468	6,302,791	6,728,976	7,073,375	7,598,720	8,570,862	9,473,272
Other direct costs	12,684,948	13,251,095	13,555,338	13,956,656	14,354,162	14,611,813	15,440,159	16,241,835	17,283,378	18,215,386	17,723,501	18,161,834	20,468,263	23,843,286
Indirect costs	15,000,535	15,781,634	15,677,354	15,819,100	15,532,451	15,849,442	16,355,468	17,128,137	18,160,620	19,049,062	19,677,890	20,441,166	22,237,912	24,345,768
Recovered	10,382,463	11,236,113	11,125,166	11,147,825	10,808,998	11,041,336	11,384,466	11,966,759	12,686,453	13,547,840	13,974,021	14,597,389	16,107,931	17,622,931
Unrecovered	4,618,072	4,545,521	4,552,188	4,671,275	4,723,453	4,808,106	4,971,002	5,161,378	5,474,167	5,501,222	5,703,869	5,843,777	6,129,981	6,722,837
Nondoctorate														
All R&D	1,019,919	1,210,260	1,028,806	795,421	751,236	659,676	1,050,218	707,921	670,801	687,250	692,844	679,901	777,005	867,693
Direct costs	893,493	1,029,068	875,007	690,846	649,140	571,140	918,413	623,286	583,270	593,975	596,080	584,325	660,299	740,956
Salaries, wages, and fringe benefits	435,078	502,965	432,160	340,021	333,567	290,752	350,123	318,636	312,432	311,925	313,090	324,782	345,715	379,293
Software	7,851	6,137	7,829	5,162	5,176	5,366	4,892	2,431	1,901	1,790	2,381	3,865	4,197	4,090
Noncapitalized software	7,516	5,630	7,135	4,994	4,638	5,128	4,601	2,049	1,759	1,635	2,051	3,501	4,136	3,893
Capitalized software	335	507	694	168	538	238	291	382	142	155	330	364	61	197
Capitalized equipment	61,465	63,729	45,189	34,880	25,401	24,222	130,179	27,233	23,883	21,458	23,188	28,011	31,708	36,926
Passed through to subrecipients	55,517	65,672	61,794	41,154	39,482	24,620	37,578	31,326	29,502	28,146	27,551	28,069	34,582	41,620
Other direct costs	333,582	390,565	328,035	269,629	245,514	226,180	395,641	243,660	215,552	230,656	229,870	199,598	244,097	279,027

TABLE 17

Higher education R&D expenditures, by type of cost, highest degree granted and institutional control: FYs 2010–23

(Dollars in thousands)

Type of cost, highest degree granted, and institutional control	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Indirect costs	126,426	181,192	153,799	104,575	102,096	88,536	131,805	84,635	87,531	93,275	96,764	95,576	116,706	126,737
Recovered	83,430	116,226	96,458	72,352	65,011	59,935	68,783	55,929	59,808	60,824	62,721	63,521	78,076	78,929
Unrecovered	42,996	64,966	57,341	32,223	37,085	28,601	63,022	28,706	27,723	32,451	34,043	32,055	38,630	47,808
Public														
All R&D	41,266,626	43,915,960	44,162,595	44,814,125	44,640,610	45,382,410	47,074,583	49,257,662	51,890,982	54,655,748	56,636,880	58,652,526	63,790,149	71,001,044
Direct costs	31,705,979	33,922,562	34,339,324	34,970,423	34,982,571	35,611,429	36,936,818	38,696,275	40,643,826	42,882,969	44,473,828	46,002,099	49,975,980	55,854,390
Salaries, wages, and fringe benefits	18,317,189	19,636,095	19,949,722	20,205,730	20,413,042	20,779,313	21,724,959	22,901,546	23,752,695	25,070,725	26,482,823	27,545,544	29,334,957	31,827,740
Software	82,340	96,499	83,509	85,149	74,459	92,877	89,420	81,618	94,259	103,511	121,049	139,402	149,377	166,452
Noncapitalized software	69,454	80,693	74,897	76,518	65,040	74,445	74,083	73,831	85,049	92,431	111,955	127,363	139,020	151,443
Capitalized software	12,886	15,806	8,612	8,631	9,419	18,432	15,337	7,787	9,210	11,080	9,094	12,039	10,357	15,009
Capitalized equipment	1,457,694	1,555,049	1,476,328	1,655,640	1,468,659	1,508,998	1,578,490	1,554,190	1,522,210	1,744,709	1,924,758	1,938,848	1,976,535	2,339,646
Passed through to subrecipients	3,065,688	3,418,705	3,502,384	3,608,137	3,558,959	3,541,642	3,520,318	3,662,377	3,917,036	4,149,921	4,384,669	4,597,781	5,168,816	5,737,216
Other direct costs	8,783,068	9,216,214	9,327,381	9,415,767	9,467,452	9,688,599	10,023,631	10,496,544	11,357,626	11,814,103	11,560,529	11,780,524	13,346,295	15,783,336
Indirect costs	9,560,647	9,993,398	9,823,271	9,843,702	9,658,039	9,770,981	10,137,765	10,561,387	11,247,156	11,772,779	12,163,052	12,650,427	13,814,169	15,146,654
Recovered	6,175,654	6,585,483	6,554,816	6,539,581	6,339,755	6,409,794	6,622,242	6,946,564	7,365,362	7,916,489	8,105,717	8,506,984	9,429,765	10,371,525
Unrecovered	3,384,993	3,407,915	3,268,455	3,304,121	3,318,284	3,361,187	3,515,523	3,614,823	3,881,794	3,856,290	4,057,335	4,143,443	4,384,404	4,775,129
Private														
All R&D	20,019,984	21,358,433	21,566,412	22,163,441	22,520,818	23,137,552	24,662,611	25,891,728	27,134,994	28,834,682	29,669,226	31,048,364	33,879,428	37,679,964
Direct costs	14,453,670	15,389,005	15,558,530	16,083,468	16,544,310	16,970,555	18,313,103	19,240,343	20,133,999	21,465,124	22,057,624	23,162,049	25,338,979	28,354,113
Salaries, wages, and fringe benefits	7,612,610	8,224,515	8,389,348	8,570,675	8,678,305	9,094,055	9,709,524	10,330,377	10,923,573	11,498,076	12,247,015	12,795,281	13,772,681	15,261,562
Software	23,630	19,923	19,947	22,536	22,064	24,131	24,137	28,035	27,604	33,033	37,540	33,598	43,516	55,647
Noncapitalized software	19,002	17,745	18,353	19,134	19,241	18,760	21,086	24,796	25,750	28,558	32,373	31,153	39,150	49,082
Capitalized software	4,628	2,178	1,594	3,402	2,823	5,371	3,051	3,239	1,854	4,475	5,167	2,445	4,366	6,565
Capitalized equipment	690,727	700,976	564,206	598,789	567,746	610,814	590,858	639,563	626,261	694,875	663,970	723,254	720,089	920,251
Passed through to subrecipients	1,891,241	2,018,145	2,029,037	2,080,950	2,143,971	2,092,161	2,176,415	2,253,417	2,415,257	2,607,201	2,716,257	3,029,008	3,436,628	3,777,676
Other direct costs	4,235,462	4,425,446	4,555,992	4,810,518	5,132,224	5,149,394	5,812,169	5,988,951	6,141,304	6,631,939	6,392,842	6,580,908	7,366,065	8,338,977
Indirect costs	5,566,314	5,969,428	6,007,882	6,079,973	5,976,508	6,166,997	6,349,508	6,651,385	7,000,995	7,369,558	7,611,602	7,886,315	8,540,449	9,325,851
Recovered	4,290,239	4,766,856	4,666,808	4,680,596	4,534,254	4,691,477	4,831,007	5,076,124	5,380,899	5,692,175	5,931,025	6,153,926	6,756,242	7,330,335
Unrecovered	1,276,075	1,202,572	1,341,074	1,399,377	1,442,254	1,475,520	1,518,501	1,575,261	1,620,096	1,677,383	1,680,577	1,732,389	1,784,207	1,995,516

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 18

Higher education R&D expenditures for equipment, by R&D field, source of funds, and institutional control: FY 2023

(Dollars in thousands)

Field	All expenditures			Federal			Nonfederal		
	Total	Public	Private	Total	Public	Private	Total	Public	Private
All R&D fields	3,259,897	2,339,646	920,251	1,573,117	1,118,877	454,240	1,686,780	1,220,769	466,011
Science	2,241,374	1,592,102	649,272	1,028,164	709,612	318,552	1,213,210	882,490	330,720
Computer and information sciences	133,914	87,839	46,075	73,273	53,965	19,308	60,641	33,874	26,767
Geosciences, atmospheric sciences, and ocean sciences	149,477	126,397	23,080	93,196	84,032	9,164	56,281	42,365	13,916
Atmospheric science and meteorology	23,967	20,543	3,424	18,240	16,109	2,131	5,727	4,434	1,293
Geological and earth sciences	57,147	42,211	14,936	28,915	24,042	4,873	28,232	18,169	10,063
Ocean sciences and marine sciences	60,956	56,891	4,065	42,381	40,469	1,912	18,575	16,422	2,153
Geosciences, atmospheric sciences, and ocean sciences nec	7,407	6,752	655	3,660	3,412	248	3,747	3,340	407
Life sciences	1,331,012	981,716	349,296	538,741	356,947	181,794	792,271	624,769	167,502
Agricultural sciences	157,445	154,953	2,492	52,081	51,407	674	105,364	103,546	1,818
Biological and biomedical sciences	566,598	361,193	205,405	261,976	159,324	102,652	304,622	201,869	102,753
Health sciences	541,976	414,862	127,114	199,709	129,061	70,648	342,267	285,801	56,466
Natural resources and conservation	19,270	18,224	1,046	7,153	6,560	593	12,117	11,664	453
Life sciences nec	45,723	32,484	13,239	17,822	10,595	7,227	27,901	21,889	6,012
Mathematics and statistics	13,546	4,323	9,223	6,646	3,231	3,415	6,900	1,092	5,808
Physical sciences	526,210	329,911	196,299	288,280	192,110	96,170	237,930	137,801	100,129
Astronomy and astrophysics	50,196	35,657	14,539	24,463	15,682	8,781	25,733	19,975	5,758
Chemistry	179,214	122,035	57,179	82,629	58,200	24,429	96,585	63,835	32,750
Materials science	19,923	14,459	5,464	9,231	6,389	2,842	10,692	8,070	2,622
Physics	223,252	137,847	85,405	149,604	99,111	50,493	73,648	38,736	34,912
Physical sciences nec	53,625	19,913	33,712	22,353	12,728	9,625	31,272	7,185	24,087
Psychology	16,859	10,023	6,836	9,106	4,451	4,655	7,753	5,572	2,181
Social sciences	21,316	13,662	7,654	5,269	4,203	1,066	16,047	9,459	6,588
Anthropology	2,183	1,636	547	666	444	222	1,517	1,192	325
Economics	4,171	3,202	969	1,512	1,392	120	2,659	1,810	849
Political science and government	1,455	1,279	176	583	513	70	872	766	106
Sociology, demography, and population studies	3,168	2,583	585	346	196	150	2,822	2,387	435
Social sciences nec	10,339	4,962	5,377	2,162	1,658	504	8,177	3,304	4,873
Sciences nec	49,040	38,231	10,809	13,653	10,673	2,980	35,387	27,558	7,829
Engineering	946,787	692,397	254,390	526,048	391,954	134,094	420,739	300,443	120,296
Aerospace, aeronautical, and astronautical engineering	129,830	101,862	27,968	81,026	75,476	5,550	48,804	26,386	22,418
Bioengineering and biomedical engineering	96,590	60,148	36,442	44,056	23,052	21,004	52,534	37,096	15,438
Chemical engineering	81,273	62,703	18,570	46,266	32,972	13,294	35,007	29,731	5,276
Civil engineering	55,115	45,759	9,356	24,507	21,339	3,168	30,608	24,420	6,188
Electrical, electronic, and communications engineering	205,886	142,328	63,558	131,082	100,399	30,683	74,804	41,929	32,875

TABLE 18

Higher education R&D expenditures for equipment, by R&D field, source of funds, and institutional control: FY 2023

(Dollars in thousands)

Field	All expenditures			Federal			Nonfederal		
	Total	Public	Private	Total	Public	Private	Total	Public	Private
Industrial and manufacturing engineering	31,933	18,023	13,910	18,130	7,946	10,184	13,803	10,077	3,726
Mechanical engineering	129,395	96,324	33,071	70,832	55,898	14,934	58,563	40,426	18,137
Metallurgical and materials engineering	71,977	47,735	24,242	48,955	31,124	17,831	23,022	16,611	6,411
Engineering nec	144,788	117,515	27,273	61,194	43,748	17,446	83,594	73,767	9,827
Non-S&E	71,736	55,147	16,589	18,905	17,311	1,594	52,831	37,836	14,995
Business management and business administration	4,629	3,332	1,297	317	279	38	4,312	3,053	1,259
Communication and communications technologies	3,448	3,138	310	541	316	225	2,907	2,822	85
Education	6,954	5,736	1,218	2,270	1,865	405	4,684	3,871	813
Humanities	4,568	1,542	3,026	241	219	22	4,327	1,323	3,004
Law	743	526	217	121	120	1	622	406	216
Social work	293	279	14	167	156	11	126	123	3
Visual and performing arts	4,688	3,090	1,598	838	667	171	3,850	2,423	1,427
Non-S&E nec	46,413	37,504	8,909	14,410	13,689	721	32,003	23,815	8,188

nec = not elsewhere classified; S&E = science and engineering.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 19

Total R&D expenditures within medical schools, by highest degree granted and institutional control: FYs 2010–23

(Dollars in thousands)

Number, medical school status, highest degree granted, and institutional control	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
All institutions														
Number of institutions with medical schools	141	144	145	146	150	152	157	155	156	159	160	160	158	162
All R&D	40,380,697	42,941,206	43,056,379	44,826,210	46,138,811	47,372,130	49,965,703	52,568,534	55,515,110	60,549,529	62,485,784	65,070,863	70,483,643	78,914,718
Medical school R&D	21,437,682	23,215,960	22,885,999	22,716,092	22,867,301	23,550,033	24,764,109	26,282,480	27,849,424	29,906,763	30,849,038	33,120,326	35,844,570	39,484,286
Doctorate														
Number of institutions with medical schools	131	130	135	137	140	142	144	144	147	152	154	154	152	156
All R&D	40,333,614	42,835,538	42,957,410	44,780,213	46,085,337	47,326,040	49,878,276	52,496,944	55,458,527	60,498,790	62,436,517	65,020,742	70,426,308	78,851,268
Medical school R&D	21,419,712	23,174,106	22,844,442	22,695,488	22,847,813	23,531,182	24,714,792	26,245,661	27,819,236	29,879,611	30,822,412	33,094,404	35,815,877	39,439,598
Nondoctorate														
Number of institutions with medical schools	10	14	10	9	10	10	13	11	9	7	6	6	6	6
All R&D	47,083	105,668	98,969	45,997	53,474	46,090	87,427	71,590	56,583	50,739	49,267	50,121	57,335	63,450
Medical school R&D	17,970	41,854	41,557	20,604	19,488	18,851	49,317	36,819	30,188	27,152	26,626	25,922	28,693	44,688
Public														
Number of institutions with medical schools	83	84	85	86	89	91	94	94	94	99	100	100	100	100
All R&D	24,313,348	25,927,387	25,938,222	27,210,089	28,237,378	28,969,948	30,259,622	31,838,522	33,691,595	37,359,453	38,614,534	39,963,419	43,020,781	48,350,609
Medical school R&D	11,684,912	12,678,932	12,375,216	12,419,947	12,416,501	12,785,042	13,172,552	13,964,235	15,001,469	16,178,180	16,796,108	17,975,229	19,336,759	21,413,275
Private														
Number of institutions with medical schools	58	60	60	60	61	61	63	61	62	60	60	60	58	62
All R&D	16,067,349	17,013,819	17,118,157	17,616,121	17,901,433	18,402,182	19,706,081	20,730,012	21,823,515	23,190,076	23,871,250	25,107,444	27,462,862	30,564,109
Medical school R&D	9,752,770	10,537,028	10,510,783	10,296,145	10,450,800	10,764,991	11,591,557	12,318,245	12,847,955	13,728,583	14,052,930	15,145,097	16,507,811	18,071,011

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 20

Higher education R&D expenditures for clinical trials, by source of funds, highest degree granted, and institutional control: FYs 2010–23

(Dollars in thousands)

Number, source of funds, highest degree granted, and institutional control	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
All institutions														
Number of institutions with clinical trials R&D	173	178	166	168	175	177	174	181	180	191	190	196	197	199
All R&D	43,587,067	46,154,058	46,182,393	47,418,917	48,723,966	50,430,594	52,866,113	56,010,657	60,125,167	64,859,287	66,906,855	69,665,953	76,975,674	85,708,847
All clinical trials R&D	1,714,192	1,794,605	1,873,001	1,965,214	2,202,132	2,340,220	2,587,395	2,852,132	3,180,148	3,353,337	3,424,231	3,691,923	4,148,463	4,591,549
Federal R&D	27,502,023	29,715,665	28,976,410	28,789,379	28,198,218	28,177,539	29,009,700	30,368,146	31,975,156	34,781,763	36,094,729	38,585,147	42,970,627	47,366,346
Federal clinical trials R&D	705,908	827,470	851,445	924,466	967,384	1,010,842	1,057,250	1,112,079	1,229,621	1,402,179	1,422,069	1,717,643	1,882,255	2,084,362
Nonfederal R&D	16,085,044	16,438,393	17,205,983	18,629,538	20,525,748	22,253,055	23,856,413	25,642,511	28,150,011	30,077,524	30,812,126	31,080,806	34,005,047	38,342,501
Nonfederal clinical trials R&D	1,008,284	967,135	1,021,556	1,040,748	1,234,748	1,329,378	1,530,145	1,740,053	1,950,527	1,951,158	2,002,162	1,974,280	2,266,208	2,507,187
Doctorate														
Number of institutions with clinical trials R&D	147	150	150	153	158	162	158	166	167	177	179	181	183	184
All R&D	43,531,732	46,058,907	46,080,033	47,361,367	48,665,453	50,369,223	52,788,285	55,935,168	60,065,299	64,779,841	66,833,097	69,540,915	76,822,243	85,541,360
All clinical trials R&D	1,707,121	1,785,054	1,864,766	1,957,251	2,192,744	2,333,744	2,580,786	2,847,006	3,176,169	3,349,337	3,419,355	3,684,688	4,141,517	4,585,004
Federal R&D	27,465,906	29,664,114	28,918,557	28,753,249	28,169,821	28,149,627	28,979,577	30,339,888	31,948,946	34,749,034	36,069,100	38,534,189	42,902,379	47,292,630
Federal clinical trials R&D	701,140	820,906	844,494	917,197	959,511	1,005,674	1,052,420	1,107,707	1,226,383	1,399,096	1,418,626	1,711,929	1,876,815	2,079,285
Nonfederal R&D	16,065,826	16,394,793	17,161,476	18,608,118	20,495,632	22,219,596	23,808,708	25,595,280	28,116,353	30,030,807	30,763,997	31,006,726	33,919,864	38,248,730
Nonfederal clinical trials R&D	1,005,981	964,148	1,020,272	1,040,054	1,233,233	1,328,070	1,528,366	1,739,299	1,949,786	1,950,241	2,000,729	1,972,759	2,264,702	2,505,719
Nondoctorate														
Number of institutions with clinical trials R&D	26	28	16	15	17	15	16	15	13	14	11	15	14	15
All R&D	55,335	95,151	102,360	57,550	58,513	61,371	77,828	75,489	59,868	79,446	73,758	125,038	153,431	167,487
All clinical trials R&D	7,071	9,551	8,235	7,963	9,388	6,476	6,609	5,126	3,979	4,000	4,876	7,235	6,946	6,545
Federal R&D	36,117	51,551	57,853	36,130	28,397	27,912	30,123	28,258	26,210	32,729	25,629	50,958	68,248	73,716
Federal clinical trials R&D	4,768	6,564	6,951	7,269	7,873	5,168	4,830	4,372	3,238	3,083	3,443	5,714	5,440	5,077
Nonfederal R&D	19,218	43,600	44,507	21,420	30,116	33,459	47,705	47,231	33,658	46,717	48,129	74,080	85,183	93,771
Nonfederal clinical trials R&D	2,303	2,987	1,284	694	1,515	1,308	1,779	754	741	917	1,433	1,521	1,506	1,468
Public														
Number of institutions with clinical trials R&D	100	101	96	99	105	110	106	110	113	123	123	125	125	127
All R&D	27,143,937	29,081,518	28,993,617	29,729,578	30,628,443	31,888,357	33,093,010	34,885,172	37,838,586	40,986,027	42,415,108	43,882,966	48,351,615	53,922,395
All clinical trials R&D	578,615	599,545	633,542	709,484	754,680	802,260	946,784	1,070,209	1,209,865	1,291,224	1,416,674	1,561,313	1,738,518	1,969,639
Federal R&D	15,921,337	17,253,156	16,779,967	16,780,475	16,373,306	16,420,639	16,971,884	17,696,570	18,755,790	20,552,572	21,362,477	22,580,661	25,352,618	28,028,685
Federal clinical trials R&D	162,213	204,202	223,816	244,154	235,678	245,828	262,305	264,682	304,152	387,333	440,614	577,706	643,389	717,853
Nonfederal R&D	11,222,600	11,828,362	12,213,650	12,949,103	14,255,137	15,467,718	16,121,126	17,188,602	19,082,796	20,433,455	21,052,631	21,302,305	22,998,997	25,893,710
Nonfederal clinical trials R&D	416,402	395,343	409,726	465,330	519,002	556,432	684,479	805,527	905,713	903,891	976,060	983,607	1,095,129	1,251,786
Private														
Number of institutions with clinical trials R&D	73	77	70	69	70	67	68	71	67	68	67	71	72	72
All R&D	16,443,130	17,072,540	17,188,776	17,689,339	18,095,523	18,542,237	19,773,103	21,125,485	22,286,581	23,873,260	24,491,747	25,782,987	28,624,059	31,786,452
All clinical trials R&D	1,135,577	1,195,060	1,239,459	1,255,730	1,447,452	1,537,960	1,640,611	1,781,923	1,970,283	2,062,113	2,007,557	2,130,610	2,409,945	2,621,910

TABLE 20

Higher education R&D expenditures for clinical trials, by source of funds, highest degree granted, and institutional control: FYs 2010–23

(Dollars in thousands)

Number, source of funds, highest degree granted, and institutional control	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Federal R&D	11,580,686	12,462,509	12,196,443	12,008,904	11,824,912	11,756,900	12,037,816	12,671,576	13,219,366	14,229,191	14,732,252	16,004,486	17,618,009	19,337,661
Federal clinical trials R&D	543,695	623,268	627,629	680,312	731,706	765,014	794,945	847,397	925,469	1,014,846	981,455	1,139,937	1,238,866	1,366,509
Nonfederal R&D	4,862,444	4,610,031	4,992,333	5,680,435	6,270,611	6,785,337	7,735,287	8,453,909	9,067,215	9,644,069	9,759,495	9,778,501	11,006,050	12,448,791
Nonfederal clinical trials R&D	591,882	571,792	611,830	575,418	715,746	772,946	845,666	934,526	1,044,814	1,047,267	1,026,102	990,673	1,171,079	1,255,401

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 21

Higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
All institutions	-	61,286,610	65,274,393	65,729,007	66,977,566	67,161,428	68,519,962	71,737,194	75,149,390	79,025,976	83,490,430	86,306,106	89,700,890	97,669,577	108,681,008
Johns Hopkins U. ^a	1	2,004,482	2,145,308	2,106,185	2,168,568	2,242,478	2,305,679	2,431,180	2,562,307	2,661,033	2,917,436	3,110,494	3,181,385	3,420,312	3,801,585
U. California, San Francisco	2	935,509	995,226	1,032,673	1,042,841	1,084,031	1,126,620	1,294,261	1,409,398	1,595,732	1,595,098	1,651,073	1,710,036	1,805,950	2,046,539
U. Pennsylvania	3	836,322	886,036	847,077	828,422	828,350	864,068	1,296,429	1,374,293	1,441,931	1,506,285	1,579,364	1,631,950	1,791,311	1,953,617
U. Michigan, Ann Arbor	4	1,184,445	1,279,123	1,322,711	1,375,117	1,349,262	1,369,278	1,436,448	1,530,139	1,600,869	1,675,805	1,673,862	1,639,645	1,770,708	1,925,875
U. Washington, Seattle	5	1,022,740	1,148,533	1,109,008	1,192,513	1,176,340	1,180,563	1,277,679	1,348,220	1,413,902	1,425,601	1,456,902	1,488,645	1,559,708	1,734,091
U. Wisconsin-Madison	6	1,029,295	1,111,642	1,169,779	1,123,501	1,108,564	1,069,077	1,157,680	1,193,413	1,205,518	1,297,331	1,363,931	1,380,075	1,523,513	1,731,949
U. California, Los Angeles	7	936,995	982,357	1,003,375	966,659	948,197	1,021,227	1,037,528	1,076,917	1,318,110	1,306,376	1,392,941	1,454,880	1,536,197	1,721,665
U. California, San Diego	8	943,219	1,009,378	1,073,864	1,075,554	1,067,388	1,101,466	1,087,117	1,133,454	1,265,196	1,353,763	1,403,735	1,425,499	1,533,357	1,705,410
U. North Carolina, Chapel Hill	9	755,284	869,174	884,791	973,007	989,766	966,781	1,045,338	1,102,063	1,136,158	1,153,773	1,159,725	1,205,883	1,361,028	1,549,617
Stanford U.	10	839,839	907,971	903,238	945,450	959,247	1,022,551	1,066,269	1,109,708	1,157,597	1,204,116	1,203,950	1,274,483	1,384,555	1,537,846
Duke U.	11	983,289	1,022,207	1,009,911	992,821	1,036,813	1,036,698	1,055,778	1,126,924	1,167,611	1,226,517	1,196,638	1,237,686	1,390,538	1,507,996
New York U.	12	365,944	430,752	458,645	471,909	523,623	602,041	809,739	917,744	887,558	934,720	947,293	1,063,704	1,276,038	1,457,424
Cornell U.	13	749,721	781,651	802,387	845,184	883,292	954,412	974,199	984,478	1,071,621	1,144,534	1,190,063	1,183,524	1,300,357	1,451,971
Ohio State U.	14	755,194	832,126	766,513	793,373	815,075	817,881	818,464	864,327	875,014	929,250	968,260	1,236,111	1,363,388	1,449,188
Harvard U.	15	583,361	649,774	799,432	1,012,766	933,975	1,013,753	1,077,253	1,123,160	1,173,371	1,239,736	1,239,983	1,254,008	1,308,458	1,435,218
Georgia Institute of Technology	16	615,833	655,375	688,905	730,488	725,550	765,370	790,706	804,301	891,728	960,167	1,048,988	1,114,481	1,231,485	1,405,080
U. Pittsburgh, Pittsburgh	17	822,491	899,386	866,638	872,736	856,806	861,205	889,793	939,706	1,006,513	1,080,951	1,105,532	1,135,416	1,251,998	1,398,078
U. Maryland ^b	18	na	na	na	na	na	na	na	na	na	1,096,600	1,103,062	1,142,264	1,228,550	1,385,302
Columbia U. in the City of New York	19	807,235	878,900	889,487	889,188	890,642	868,159	837,312	893,062	947,504	1,003,615	1,032,909	1,098,570	1,230,924	1,341,952
Yale U.	20	623,510	656,967	656,555	788,784	772,840	803,004	881,765	951,084	990,399	1,072,309	1,094,135	1,165,148	1,191,201	1,326,807
U. Minnesota, Twin Cities	21	786,074	847,419	826,173	858,378	876,870	880,618	910,181	921,681	954,683	1,013,112	1,042,382	1,072,961	1,202,084	1,320,183
Texas A&M U., College Station and Health Science Center	22	689,624	705,720	693,421	820,015	854,214	866,678	892,718	905,474	922,178	952,156	1,130,803	1,147,720	1,152,666	1,277,814
U. Texas M. D. Anderson Cancer Center	23	599,529	663,279	685,814	718,096	794,980	833,406	852,095	888,029	929,710	969,496	1,051,297	1,124,971	1,182,536	1,255,190
Vanderbilt U. and Vanderbilt U. Medical Center	24	504,959	566,031	560,466	571,603	683,890	647,816	640,842	712,036	738,620	776,937	824,803	1,019,273	1,086,223	1,253,156
U. Florida	25	681,548	739,931	696,985	695,063	708,526	739,522	791,294	801,418	865,093	928,639	942,223	959,965	1,085,834	1,250,201

TABLE 21

Higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Pennsylvania State U., University Park and Hershey Medical Center	26	770,449	794,846	797,679	837,880	800,773	791,031	825,561	854,815	908,708	949,679	991,923	970,544	1,019,940	1,206,793
Washington U., Saint Louis	27	695,974	725,039	706,410	684,847	664,752	694,069	741,115	754,462	816,139	887,088	920,215	989,214	1,047,098	1,168,861
U. Southern California	28	592,791	603,294	623,544	645,636	687,222	691,031	702,866	764,322	891,625	909,683	941,198	955,565	1,039,905	1,154,804
Northwestern U.	29	575,078	618,980	631,078	639,781	645,333	656,167	713,491	751,809	805,672	857,069	874,671	913,178	1,000,695	1,114,269
Emory U.	30	529,453	547,316	565,766	575,943	558,600	585,210	614,527	664,888	712,417	794,928	808,792	852,922	958,281	1,094,328
U. California, Berkeley	31	694,049	707,945	730,348	727,002	744,343	788,505	774,255	770,822	796,505	802,931	840,000	846,872	981,035	1,076,754
U. Texas, Austin	32	589,502	632,171	621,538	634,132	585,251	604,376	621,692	652,187	679,781	696,111	797,199	779,348	845,896	1,035,838
Massachusetts Institute of Technology	33	677,138	723,610	824,130	900,524	908,017	930,719	946,159	952,017	964,336	1,009,466	987,968	949,076	989,166	1,000,081
Icahn School of Medicine at Mount Sinai	34	370,666	405,527	400,680	428,654	463,429	508,353	540,296	575,448	640,141	722,241	747,014	820,260	893,968	972,476
U. California, Davis	35	679,915	707,896	713,292	725,734	711,721	721,077	741,892	738,347	788,832	804,282	816,693	817,409	883,807	962,399
U. Arizona	36	586,647	610,565	625,365	629,466	588,088	606,219	604,464	622,200	687,066	734,270	760,975	770,031	824,340	955,424
Arizona State U.	37	329,345	355,215	385,959	405,154	426,651	458,412	518,239	545,016	617,717	639,637	673,357	677,303	797,224	903,779
Indiana U., Bloomington	38	177,520	184,096	184,486	197,897	206,039	485,076	508,766	540,421	566,907	668,157	710,850	695,258	751,309	853,056
Baylor C. of Medicine	39	447,874	466,061	474,700	508,799	496,314	520,220	572,527	604,952	623,396	651,920	685,641	716,976	827,005	847,305
Purdue U., West Lafayette	40	548,980	578,231	602,501	595,739	564,923	558,611	606,302	622,813	631,574	663,927	687,144	679,482	754,627	844,570
Michigan State U.	41	431,373	454,248	507,061	515,707	526,906	558,248	613,369	694,917	715,290	725,708	713,197	710,178	759,229	844,076
Rutgers, State U. New Jersey, New Brunswick	42	428,432	432,306	434,901	493,320	644,116	628,613	630,212	681,719	706,282	657,249	688,077	643,955	712,231	831,719
U. Illinois, Urbana-Champaign	43	515,133	545,669	583,754	743,487	621,733	639,817	625,180	642,084	652,709	677,523	689,176	731,268	765,909	821,023
U. Texas Southwestern Medical Center	44	419,220	431,883	435,085	440,620	434,627	438,824	442,666	461,797	474,260	496,697	595,939	632,134	719,002	800,391
U. Alabama, Birmingham	45	489,845	503,698	453,779	440,796	428,563	516,229	537,825	561,851	588,207	607,863	618,226	644,330	713,480	780,479
Boston U.	46	352,817	355,916	334,496	368,281	367,328	388,336	395,921	421,360	484,205	534,205	583,267	652,096	725,402	773,200
U. Utah	47	379,200	414,316	430,056	494,058	486,140	518,928	350,212	380,295	552,306	601,133	607,061	624,737	670,119	723,713
U. Virginia, Charlottesville	48	276,308	398,096	383,359	385,828	358,576	373,218	397,458	469,682	551,761	613,938	652,002	611,313	662,658	714,457
U. Cincinnati	49	411,269	448,936	433,668	438,642	422,873	436,028	430,579	455,250	480,095	529,796	530,138	551,826	615,070	698,642
U. Colorado Anschutz Medical Campus ^c	50	na	na	na	na	na	na	na	na	na	na	na	562,855	611,358	686,026
U. Iowa	51	444,034	443,893	446,429	435,377	449,147	443,218	473,362	494,280	511,973	508,353	538,583	553,876	594,215	662,134
U. Colorado Boulder	52	349,449	390,677	392,004	385,849	379,475	420,775	453,123	499,389	514,573	513,822	525,674	547,724	611,380	651,924

TABLE 21

Higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
North Carolina State U.	53	360,795	378,154	404,225	417,468	446,112	468,293	489,918	500,445	509,841	541,100	546,290	547,118	583,203	633,251
U. Chicago	54	437,721	453,562	419,631	402,621	390,082	412,536	420,997	433,328	423,993	459,171	458,891	497,651	591,805	628,302
U. Nebraska, Lincoln and Medical Center ^d	55	na	na	na	na	na	na	na	na	na	na	na	na	na	617,372
U. California, Irvine	56	327,594	344,678	350,030	347,773	340,056	329,798	345,319	361,414	426,610	448,967	490,597	523,752	534,947	609,614
Virginia Polytechnic Institute and State U.	57	398,169	450,058	454,417	496,169	513,149	504,282	521,773	522,425	531,636	541,969	556,341	542,045	591,861	598,113
U. Georgia	58	295,339	335,901	351,395	350,225	355,471	374,264	410,345	455,432	453,249	477,536	482,786	493,944	545,631	570,956
Case Western Reserve U.	59	418,164	429,206	431,090	425,788	419,011	401,527	405,655	408,609	434,441	438,994	439,778	421,868	467,389	553,740
Oregon Health and Science U.	60	314,990	334,324	305,530	308,767	314,802	326,915	331,524	348,449	372,180	415,629	446,890	452,812	479,226	517,742
Princeton U.	61	242,570	263,335	275,666	269,908	293,274	279,851	307,653	334,125	365,007	385,739	396,502	404,448	461,185	513,365
U. Miami	62	280,671	323,486	365,301	344,757	345,805	331,036	358,441	367,877	357,104	360,716	381,410	375,841	439,300	509,951
U. Kentucky	63	359,944	372,932	360,776	339,764	328,239	331,705	349,661	378,374	393,034	410,581	417,674	429,241	476,517	504,005
Colorado State U., Fort Collins	64	302,896	330,784	375,919	313,238	307,978	317,219	331,862	338,404	374,955	398,477	407,302	447,197	456,911	498,073
Uniformed Services U. of the Health Sciences	65	134,126	175,365	143,250	164,232	262,489	361,173	256,203	298,370	308,326	417,300	324,510	384,490	277,240	496,441
Scripps Research Institute	66	387,298	400,768	398,673	399,899	386,231	384,161	364,670	354,582	396,839	427,734	444,964	485,435	492,639	494,946
U. Illinois, Chicago	67	362,939	380,828	388,625	367,848	347,888	354,560	337,296	372,619	361,690	382,949	412,147	429,585	440,573	492,936
California Institute of Technology	68	362,172	377,514	379,713	347,105	367,182	374,424	371,060	400,312	391,003	399,931	449,651	438,624	478,142	490,672
Carnegie Mellon U.	69	222,790	242,882	255,933	271,277	251,222	242,004	319,168	328,100	331,383	359,720	386,996	402,376	449,707	484,757
U. Rochester	70	414,655	429,034	389,612	389,355	353,419	346,932	346,165	353,003	370,645	393,960	397,211	409,255	450,805	481,227
Virginia Commonwealth U.	71	197,709	207,756	201,366	196,015	201,858	218,925	225,999	235,464	246,190	255,648	283,874	364,096	411,729	479,930
SUNY, U. Buffalo	72	349,670	353,172	360,226	387,863	386,562	382,935	389,569	401,591	410,220	413,817	422,038	425,349	439,709	471,569
U. Kansas	73	267,961	274,727	286,262	298,498	301,534	311,383	297,933	300,319	339,046	352,643	368,811	385,637	405,267	466,222
U. Missouri, Columbia	74	238,500	230,957	239,810	236,423	237,266	246,684	280,051	293,006	294,686	310,421	332,180	388,779	432,310	462,435
U. South Florida ^e	75	385,029	394,963	443,206	459,409	488,641	485,354	505,965	557,889	385,686	391,325	333,344	385,965	405,166	461,390
U. Oklahoma, Norman and Health Science Center	76	218,089	249,297	240,974	255,674	253,344	242,367	259,998	272,239	283,638	302,679	362,209	380,048	408,656	436,964
U. Delaware	77	153,311	169,746	170,174	179,967	175,563	175,724	176,295	183,428	186,192	206,270	220,445	231,532	368,107	428,128
Iowa State U.	78	250,120	267,641	260,995	266,596	313,263	306,125	328,385	323,584	361,206	358,474	363,107	360,275	393,184	420,823
Florida State U.	79	227,329	230,411	225,378	250,877	252,548	256,449	268,288	282,901	297,661	329,205	350,430	328,604	355,986	414,463
Utah State U.	80	149,169	174,167	157,355	158,352	169,605	175,353	180,590	187,314	219,397	283,917	304,256	325,223	344,851	401,437

TABLE 21

Higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
U. Connecticut	81	237,908	253,792	256,854	242,251	258,056	259,397	265,522	267,647	269,685	285,764	280,131	302,329	367,557	390,165
Rockefeller U.	82	265,750	272,491	292,896	298,474	316,368	323,932	335,136	348,845	353,142	351,089	356,217	357,543	360,877	385,168
Louisiana State U., Baton Rouge	83	289,872	287,841	285,395	283,400	290,076	281,154	291,972	265,168	286,726	296,497	286,733	296,673	344,556	384,268
Washington State U.	84	304,352	320,510	335,930	305,510	288,752	303,214	301,640	331,051	331,424	344,997	335,201	357,648	368,396	378,744
U. Texas Health Science Center, Houston	85	240,772	261,172	236,250	233,256	233,737	234,299	237,016	246,060	258,411	271,525	273,862	308,823	342,633	374,105
Dartmouth C. and Dartmouth Hitchcock Medical Center	86	194,141	210,631	195,930	201,591	212,606	209,646	233,636	308,445	323,927	323,020	326,349	330,226	344,126	366,856
Wichita State U.	87	51,524	63,538	61,279	61,388	58,859	59,940	65,930	78,514	81,137	128,795	153,816	192,042	261,519	366,848
George Washington U.	88	196,917	197,621	196,448	202,428	227,995	241,117	231,829	245,519	260,656	269,799	270,369	266,108	275,483	360,260
Brown U.	89	335,838	344,090	365,120	361,010	341,531	342,040	347,016	212,290	244,838	256,954	266,127	276,331	310,780	353,591
Auburn U., Auburn	90	145,115	163,335	133,013	147,229	142,487	135,899	152,381	190,340	212,925	231,619	255,281	266,374	304,439	349,273
Medical C. Wisconsin	91	191,816	215,358	209,040	201,237	199,713	199,283	199,925	209,618	229,436	251,300	264,325	276,850	309,244	346,691
U. Tennessee, Knoxville ^f	92	150,671	167,456	179,252	193,054	179,041	173,533	183,268	203,800	259,607	247,693	320,407	316,273	324,435	338,847
Oregon State U.	93	216,595	228,814	240,507	232,677	230,963	245,317	254,275	267,068	272,433	263,830	268,385	276,955	297,934	337,985
Georgetown U.	94	159,355	169,916	180,308	178,995	172,726	176,131	183,788	212,319	221,449	240,960	258,659	279,932	313,220	337,006
Albert Einstein C. of Medicine	95	na	na	na	na	na	na	289,660	289,685	297,328	298,824	288,654	301,715	318,314	336,238
Medical U. South Carolina	96	224,632	213,346	236,586	245,451	242,594	243,534	260,098	262,267	282,253	295,600	272,590	277,761	284,553	333,826
U. Notre Dame	97	110,369	134,410	157,691	175,220	182,228	190,954	202,216	212,823	219,993	240,078	227,535	240,324	280,604	331,943
U. Massachusetts, Medical School	98	232,039	262,714	256,090	245,923	241,869	250,338	253,099	279,884	274,211	281,507	279,096	347,337	358,204	326,731
SUNY, Stony Brook U.	99	204,728	211,356	219,744	225,712	211,631	220,580	230,621	238,612	245,016	260,813	263,470	274,516	312,698	324,531
Mississippi State U.	100	231,675	226,070	233,197	206,424	209,729	226,359	239,446	240,972	244,102	264,526	280,485	275,143	303,418	319,684
U. New Mexico	101	211,771	220,565	220,360	227,703	228,849	232,271	239,550	246,597	251,322	239,696	243,375	332,566	331,164	316,026
U. Hawaii, Manoa	102	303,085	318,316	312,311	326,750	324,342	316,497	304,476	292,021	276,388	280,416	275,929	271,768	277,323	313,143
Wake Forest U.	103	192,034	209,134	204,328	182,721	176,380	171,926	170,006	182,227	191,371	238,933	244,643	264,216	269,109	308,972
Florida International U.	104	110,271	110,006	118,058	128,070	132,531	163,033	170,846	177,292	196,180	225,864	236,842	246,075	281,665	306,434
U. California, Santa Barbara	105	225,730	230,435	233,883	236,497	231,322	222,870	230,139	238,246	235,164	243,778	254,434	248,961	278,897	305,483
Temple U.	106	124,528	134,533	138,318	224,087	224,101	227,468	246,392	268,385	276,011	284,301	299,707	299,778	301,395	292,029
Northeastern U.	107	79,949	86,783	107,862	116,088	116,245	122,915	129,040	142,349	166,711	183,998	200,068	211,342	231,607	288,558
Woods Hole Oceanographic Institution	108	181,746	198,775	204,352	198,232	220,016	216,592	212,374	194,088	204,400	229,143	227,573	262,048	255,017	287,825

TABLE 21

Higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Clemson U.	109	174,693	166,350	142,096	152,444	161,070	171,215	183,965	193,268	213,458	218,760	228,597	237,485	263,158	286,503
SUNY, Polytechnic Institute	110	na	na	na	na	412,851	295,313	316,680	308,861	257,358	352,889	355,651	465,273	413,763	284,677
U. Texas Health Science Center, San Antonio	111	207,115	198,655	184,298	175,983	172,716	170,277	194,885	169,200	179,219	188,483	202,572	219,734	238,510	281,078
U. Massachusetts, Amherst	112	169,141	181,297	194,775	190,739	200,199	213,902	214,576	210,416	211,140	223,177	219,389	213,824	245,158	268,657
U. South Carolina, Columbia	113	229,145	201,592	214,901	203,365	206,173	208,736	209,271	208,670	206,355	205,940	219,734	215,374	229,162	262,207
Tulane U.	114	165,513	171,703	164,373	160,414	157,825	152,658	165,438	180,993	193,294	196,933	204,430	205,206	222,605	258,439
Thomas Jefferson U.	115	103,064	104,923	100,506	89,273	118,378	119,631	122,396	142,569	148,573	170,458	171,377	200,393	246,212	258,345
Rice U.	116	97,903	110,235	117,223	131,003	138,536	144,679	154,543	167,277	161,831	182,564	198,681	207,404	216,202	255,115
George Mason U.	117	84,120	88,089	90,198	95,913	98,680	106,410	108,899	112,404	149,138	186,267	218,445	214,207	230,068	252,239
Wayne State U.	118	254,492	259,895	227,070	224,331	218,435	213,878	221,537	227,728	238,859	244,217	243,259	235,519	242,247	250,911
Tufts U.	119	156,106	156,395	160,922	156,525	160,825	168,314	189,085	223,409	213,457	213,285	216,241	224,956	231,224	247,276
U. Central Florida	120	117,985	109,190	116,891	126,681	185,555	215,519	198,211	200,387	215,332	225,085	213,757	218,596	221,488	247,259
West Virginia U.	121	154,926	166,420	169,303	167,144	164,454	170,145	172,477	185,606	185,110	187,512	188,452	199,907	214,081	246,173
Texas Tech U.	122	133,360	149,399	138,026	142,676	159,308	163,897	172,521	191,482	185,742	193,923	199,643	197,739	226,729	240,107
Georgia State U.	123	81,015	92,725	91,148	111,999	123,915	139,596	161,314	200,171	201,235	195,572	202,451	206,472	215,908	237,493
U. Vermont	124	129,856	132,356	115,697	115,486	109,701	114,547	115,611	117,667	128,293	135,859	191,147	195,320	216,307	233,806
U. Texas Medical Branch	125	188,399	193,555	180,888	180,198	178,014	173,506	179,541	185,106	181,831	175,372	180,595	185,759	204,518	233,192
U. Houston	126	119,811	113,709	116,288	130,844	140,597	150,628	162,049	169,431	177,484	195,398	200,428	202,536	240,126	231,942
Montana State U., Bozeman	127	135,084	125,966	124,228	113,136	113,348	108,414	112,073	129,622	125,129	154,811	166,285	193,577	200,820	229,682
U. Dayton	128	93,309	90,557	81,030	84,252	86,881	98,182	116,589	135,214	147,001	165,343	163,718	191,228	211,494	228,723
Oklahoma State U., Stillwater	129	147,094	162,786	166,523	134,500	126,543	129,968	181,617	189,024	188,756	184,276	187,060	198,799	195,041	226,498
U. Louisiana, Lafayette	130	69,412	69,978	65,275	61,887	67,580	77,300	80,099	100,956	124,713	144,187	164,070	181,400	205,201	225,924
U. New Hampshire	131	115,562	143,002	165,156	147,446	147,544	144,735	145,015	145,375	146,430	148,980	156,901	167,373	206,392	223,683
U. Arkansas, Fayetteville	132	113,909	120,007	123,199	125,501	125,824	133,660	145,020	157,791	175,498	180,225	165,887	164,443	184,080	221,525
U. Louisville	133	189,090	197,438	196,842	186,772	183,376	163,262	172,907	177,588	176,655	177,862	198,818	200,362	229,582	220,568
U. Alaska, Fairbanks	134	161,986	165,530	160,407	162,658	155,769	142,742	144,259	152,694	140,917	144,457	152,299	172,957	202,516	218,041
Kansas State U.	135	160,679	169,167	176,141	183,096	184,945	188,721	193,254	196,478	218,299	218,622	213,900	203,846	212,974	217,992
U. California, Riverside	136	130,288	132,238	135,494	132,617	133,558	144,511	152,233	163,632	167,847	177,655	184,894	189,600	199,135	214,802
U. Arkansas for Medical Sciences	137	119,518	122,066	129,056	133,677	131,438	132,451	125,378	128,508	139,187	153,135	174,549	194,709	205,493	209,409
U. California, Santa Cruz	138	143,919	155,617	155,516	150,777	151,734	151,713	151,192	124,344	127,538	142,958	150,400	160,615	176,760	203,883
North Dakota State U.	139	126,419	134,064	135,493	150,173	154,437	153,542	156,297	153,119	145,669	152,381	155,645	164,050	174,904	190,330

TABLE 21

Higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
U. Maine	140	111,282	111,600	92,135	77,583	101,247	79,500	79,222	99,502	106,694	129,913	134,183	146,801	171,931	188,690
U. Nevada, Reno	141	95,423	89,740	85,726	89,797	87,324	90,138	95,475	105,869	144,426	152,128	159,790	175,386	181,782	188,505
U. Alabama, Tuscaloosa	142	40,762	53,633	55,885	55,443	53,140	58,234	62,549	63,282	71,992	83,317	95,200	129,509	163,204	184,880
Syracuse U.	143	107,024	83,686	85,649	70,967	66,321	69,896	84,651	145,705	147,751	154,366	149,652	151,717	157,407	183,850
U. North Dakota	144	76,560	74,882	80,149	68,942	67,595	64,384	70,275	102,823	109,865	110,836	111,663	143,506	147,717	182,195
U. Mississippi	145	110,020	122,765	121,731	108,168	109,922	94,040	121,665	134,542	137,521	158,809	122,960	116,175	152,903	172,176
Drexel U.	146	118,349	115,020	116,768	123,813	131,170	128,027	127,909	138,577	155,908	149,481	143,123	152,752	151,903	169,583
U. Oregon	147	94,107	103,019	105,030	94,522	91,203	79,698	100,754	95,974	111,896	110,664	114,259	139,193	160,500	164,500
U. Alabama, Huntsville	148	75,683	75,724	87,388	101,016	89,325	88,439	96,865	94,376	99,405	109,744	131,648	149,792	169,532	163,428
New Jersey Institute of Technology	149	92,318	100,491	102,851	107,310	106,081	110,512	130,812	142,164	162,349	161,232	163,447	166,587	167,135	161,078
U. Texas, San Antonio	150	56,279	58,667	57,233	53,626	47,061	54,949	59,831	70,163	72,682	84,326	138,586	145,362	147,629	158,453
San Diego State U.	151	99,137	106,591	92,867	86,733	95,674	93,572	90,722	89,187	88,177	92,964	97,710	107,681	129,762	158,013
U. Wyoming	152	55,319	57,549	65,611	65,490	51,422	56,996	112,056	125,032	113,063	80,353	93,061	93,202	139,764	150,124
U. Texas, Arlington	153	71,414	72,483	78,556	86,735	89,175	77,798	87,386	97,197	105,688	123,858	133,793	126,477	133,770	147,265
U. Texas, Dallas	154	82,044	93,230	90,700	98,842	99,727	98,551	106,205	113,205	113,315	126,661	132,192	122,825	130,914	146,779
U. Texas, El Paso	155	68,870	74,069	79,649	83,249	79,537	89,418	91,330	94,565	91,032	106,809	108,628	109,410	130,501	145,724
U. Maryland, Baltimore County	156	87,156	91,657	74,993	71,819	67,833	68,688	70,166	70,406	71,481	80,632	83,867	84,418	110,319	144,262
U. Rhode Island	157	90,016	102,630	114,323	101,898	91,706	93,828	97,900	101,871	104,490	115,160	109,967	129,296	129,102	144,013
SUNY, Binghamton U.	158	72,057	72,539	81,000	76,005	71,382	79,895	85,192	98,089	113,851	104,297	117,870	124,565	130,882	141,685
SUNY, U. Albany	159	359,364	148,625	137,758	137,759	130,955	111,705	120,232	156,386	173,031	181,531	138,088	114,501	129,796	141,671
Texas State U.	160	30,560	33,487	36,664	37,053	39,265	47,694	54,298	60,741	64,322	64,554	70,714	72,510	110,102	141,291
Augusta U.	161	na	na	na	64,033	64,118	67,737	71,338	99,661	99,081	96,502	103,961	116,480	127,313	139,121
Brigham Young U., Provo	162	32,997	37,142	33,843	36,562	38,051	39,126	42,304	43,406	40,755	39,582	38,569	43,916	45,610	137,748
U. Idaho	163	87,207	96,229	97,227	95,891	95,594	97,493	102,457	109,537	111,590	113,107	112,810	105,895	115,603	135,901
U. Montana, Missoula	164	63,540	60,159	59,313	60,189	55,032	60,485	70,059	85,044	90,563	104,665	110,218	121,571	125,603	133,958
Rush U.	165	73,398	79,212	80,300	81,770	80,551	79,048	73,351	74,062	89,101	96,267	94,438	107,398	114,874	132,394
U. Tennessee, Health Science Center	166	81,904	81,220	77,754	71,902	67,841	65,771	71,547	73,393	79,460	96,979	99,716	109,562	115,161	130,472
New Mexico State U.	167	157,872	139,062	141,151	142,365	134,262	132,377	106,282	102,218	96,270	101,457	107,275	110,580	121,472	126,337
Rensselaer Polytechnic Institute	168	83,952	84,834	92,720	92,495	105,608	102,841	101,127	104,797	100,856	103,739	122,753	119,056	121,809	121,706
New Mexico Institute of Mining and Technology	169	51,696	43,857	37,875	32,499	48,338	26,265	19,598	20,491	21,383	24,616	24,591	28,745	89,900	118,735
Cold Spring Harbor Laboratory	170	ne	89,913	84,072	78,236	76,733	84,653	88,943	97,288	115,870	126,773	115,198	114,903	118,034	117,483

TABLE 21

Higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
U. Massachusetts, Lowell	171	59,345	60,013	60,624	63,136	64,591	70,384	68,494	69,677	72,266	83,996	92,216	94,708	111,144	117,336
U. North Texas, Denton	172	31,496	42,475	46,943	49,518	44,180	43,628	37,106	43,789	44,025	78,691	84,239	81,252	93,538	106,665
Colorado School of Mines	173	44,879	48,704	58,836	59,091	59,695	58,349	60,931	59,477	60,372	70,397	78,517	81,443	98,404	104,297
Michigan Technological U.	174	63,471	70,089	71,989	70,689	68,526	69,607	72,536	71,629	78,678	80,443	77,927	81,715	91,084	103,819
Brandeis U.	175	71,006	74,889	74,660	76,060	74,992	74,700	73,435	68,437	61,639	60,825	91,355	95,001	102,378	103,653
Touro U., New York ^d	176	ne	1,247	889	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	100,547
U. Memphis	177	49,517	48,321	51,194	48,141	55,566	46,675	48,321	49,695	64,297	58,700	69,463	67,092	71,271	100,042
U. Nevada, Las Vegas	178	44,457	39,526	34,543	35,935	39,448	42,000	62,825	66,285	83,800	99,445	105,872	101,009	94,967	98,751
U. North Texas, Health Science Center	179	38,862	45,943	46,865	44,904	47,002	46,335	50,567	48,476	49,503	50,124	42,766	50,698	72,675	94,652
U. North Carolina, Charlotte	180	31,814	27,533	25,141	24,764	23,342	24,870	27,815	26,097	39,888	47,187	50,050	51,877	43,126	92,027
Cleveland State U.	181	34,235	55,502	61,111	67,378	61,783	57,662	77,720	83,762	83,641	80,077	78,189	71,451	81,225	87,941
Indiana U.-Purdue U., Indianapolis	182	296,194	322,617	316,914	332,760	324,261	55,973	57,853	58,056	60,501	67,635	70,778	65,330	64,162	87,648
Saint Louis U.	183	46,839	53,179	49,086	48,231	44,481	44,457	42,151	56,402	60,380	66,103	69,528	79,005	82,740	85,921
Howard U.	184	40,080	42,341	45,486	42,789	40,771	47,322	41,038	45,768	45,965	44,163	44,933	52,412	67,594	84,756
San Jose State U.	185	38,241	40,149	34,727	38,326	43,509	45,037	41,662	39,192	41,366	44,309	47,301	60,100	71,695	83,406
U. Texas Rio Grande Valley	186	na	na	na	na	na	na	31,007	29,500	27,125	52,016	56,702	58,187	64,401	82,444
Baylor U.	187	10,925	12,343	10,161	13,616	20,729	24,642	26,767	29,400	31,936	33,304	39,765	48,809	66,014	82,074
William & Mary	188	57,461	58,919	55,805	57,940	59,015	61,554	63,027	64,127	65,269	64,835	66,763	68,801	75,953	81,815
Boston C.	189	50,537	52,253	51,442	50,702	49,724	47,761	54,469	58,088	57,030	61,956	63,063	65,156	68,958	81,425
Van Andel Research Institute	190	ne	ne	ne	ne	ne	40,502	40,040	44,578	55,171	61,738	58,982	65,789	78,626	80,748
Florida Atlantic U.	191	56,472	62,024	65,377	23,967	22,997	21,214	26,750	46,025	48,024	51,085	53,845	58,471	61,748	77,593
Northern Arizona U.	192	28,803	30,785	28,100	30,516	31,590	35,206	39,580	46,253	52,899	58,914	64,456	69,129	66,729	77,533
Naval Postgraduate School	193	103,510	101,363	132,450	94,880	99,032	89,170	65,529	60,386	59,213	67,323	62,903	65,101	64,055	77,364
American U.	194	39,747	46,611	43,526	61,087	63,628	58,325	57,064	56,034	61,741	71,053	71,839	65,912	67,616	76,041
U. Southern Mississippi	195	42,059	46,591	60,079	51,962	51,938	51,840	59,363	61,659	61,336	76,464	72,322	67,417	72,477	75,034
Rochester Institute of Technology	196	38,663	34,889	36,935	36,613	35,945	40,442	45,518	51,263	49,413	58,175	57,777	56,043	62,383	72,405
South Dakota State U.	197	67,552	69,680	68,743	63,843	58,334	58,373	60,677	63,412	63,465	66,794	60,939	51,542	59,590	71,340
Old Dominion U.	198	97,176	102,192	104,579	99,138	67,037	65,092	70,054	67,990	60,321	67,425	65,704	62,332	64,877	71,334

TABLE 21

Higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
U. Massachusetts, Boston	199	56,416	57,040	60,086	60,380	61,186	62,374	64,223	70,019	61,473	62,018	64,219	63,723	65,215	70,978
Louisiana State U., Health Sciences Center, New Orleans	200	59,776	57,007	53,712	49,443	45,486	46,840	43,067	40,785	38,989	40,914	43,419	44,370	53,995	68,707
U. Toledo	201	70,399	74,149	68,228	69,072	61,900	52,354	50,019	50,030	50,320	55,006	54,100	53,169	64,654	67,656
East Carolina U.	202	23,995	28,114	31,990	38,271	29,925	26,549	25,273	26,117	39,074	55,611	57,820	51,662	55,693	67,082
Worcester Polytechnic Institute	203	18,613	22,137	20,232	25,298	29,929	36,130	37,822	33,368	33,067	39,878	43,092	48,702	56,904	66,353
Florida A&M U.	204	53,474	53,326	52,263	51,149	46,367	46,522	45,390	37,578	39,682	42,470	41,319	47,124	50,636	65,159
U. California, Office of the President	205	72,542	63,420	65,627	67,447	50,103	48,341	39,051	46,399	55,676	67,702	60,686	50,848	54,640	63,629
CUNY, City C.	206	46,699	60,648	57,982	55,138	52,654	53,223	62,484	54,627	53,979	52,738	45,632	57,361	65,569	63,159
North Carolina A&T State U.	207	35,297	34,930	35,103	33,994	35,047	35,172	33,759	37,379	38,140	37,339	36,151	40,751	47,908	62,307
U. California, Merced	208	21,591	21,328	22,656	22,909	23,916	29,688	29,370	35,093	38,226	44,890	45,966	45,964	48,147	62,279
Missouri U. of Science and Technology	209	42,263	41,581	38,588	40,397	39,065	35,842	35,756	38,243	42,986	47,807	47,001	54,437	53,357	61,496
U. Puerto Rico, Medical Sciences Campus	210	39,134	64,017	45,649	43,374	40,444	43,316	46,232	42,423	41,216	45,014	37,217	44,111	47,578	61,235
U. Wisconsin-Milwaukee	211	71,181	65,648	61,771	56,587	60,752	63,414	59,813	54,181	55,771	53,773	61,069	55,664	56,822	60,712
Stevens Institute of Technology	212	35,544	41,622	31,929	28,908	30,826	34,082	35,765	35,144	33,060	36,695	44,747	43,386	53,563	60,685
Ohio U.	213	50,440	57,643	57,203	59,734	60,800	61,078	59,117	61,092	53,303	53,735	51,914	49,764	52,465	59,877
Southern Methodist U.	214	18,742	24,453	24,397	22,544	32,401	29,282	31,819	29,879	31,140	42,562	43,081	41,960	57,544	59,749
Kent State U.	215	26,331	27,455	26,507	23,149	25,666	38,069	34,661	42,003	42,792	47,188	50,307	50,408	52,175	58,984
Southern Illinois U., Carbondale	216	69,924	71,130	71,097	70,854	65,256	57,509	53,172	48,416	49,636	41,729	41,617	47,210	46,967	58,291
Morehouse School of Medicine	217	30,669	33,946	37,586	36,638	41,858	33,367	38,774	36,925	33,215	31,289	29,813	32,637	42,489	57,125
Air Force Institute of Technology	218	31,259	31,879	32,746	27,592	23,902	26,866	29,998	35,733	33,360	34,016	35,584	45,703	44,391	56,848
Lehigh U.	219	37,332	32,086	31,992	35,220	37,066	36,788	32,941	36,969	38,674	38,185	38,064	41,279	51,769	56,301
U. Missouri, Kansas City	220	30,163	32,769	29,227	28,829	29,164	26,595	26,292	25,123	25,136	31,956	36,356	33,855	52,657	54,565
CUNY, Graduate Center	221	11,562	11,974	9,173	11,982	7,797	6,175	7,093	8,011	4,781	5,399	4,787	4,265	5,509	54,089
U. Denver	222	15,748	17,004	15,237	19,262	18,183	16,116	21,326	22,289	27,270	36,551	41,349	38,751	45,561	53,484
U. Maryland Center for Environmental Science	223	42,670	50,007	48,224	53,683	50,814	52,235	54,974	55,078	54,136	56,033	54,560	51,201	53,718	53,233

TABLE 21

Higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
SUNY, Upstate Medical U.	224	43,824	39,988	35,897	34,286	33,460	32,453	31,892	35,551	36,674	38,091	41,557	44,870	50,586	53,219
U. South Alabama	225	35,500	42,233	40,172	40,590	41,681	43,722	46,670	41,431	41,056	52,540	51,102	47,610	43,491	53,182
Boise State U.	226	18,731	24,204	27,920	25,690	26,568	31,341	32,085	34,992	41,382	39,824	43,307	46,065	47,617	52,989
Loyola U., Chicago	227	43,903	42,708	45,903	51,676	50,774	48,664	42,672	39,738	39,332	39,223	39,365	44,036	46,169	52,445
Nova Southeastern U.	228	10,116	12,322	12,908	12,712	13,716	14,775	19,559	22,508	23,296	24,567	26,035	24,513	31,189	50,173
Texas Tech U., Health Sciences Center	229	51,282	58,774	61,219	61,412	38,015	40,438	40,235	39,767	37,819	44,072	44,135	41,583	46,574	48,638
Marquette U.	230	14,310	19,876	18,606	20,856	23,633	24,816	28,422	30,034	32,471	37,777	37,136	37,087	40,638	47,819
Rowan U.	231	2,987	3,247	3,783	3,407	8,202	8,044	10,212	12,856	16,247	22,892	26,018	26,458	29,949	47,810
Catholic U. of America	232	21,454	25,397	24,971	23,235	22,331	24,265	25,139	24,282	25,497	24,484	25,221	35,548	38,191	47,022
Portland State U.	233	56,533	58,975	58,489	55,435	54,787	53,872	56,572	48,964	46,911	50,045	43,667	41,311	41,483	46,324
Mercer U.	234	27,298	29,039	31,376	28,892	30,209	32,838	31,735	29,447	34,197	44,128	49,116	51,989	50,222	45,247
Western Michigan U. and Homer Stryker M.D. School of Medicine	235	26,391	25,051	21,073	18,979	18,942	19,679	18,927	22,372	21,184	25,071	24,541	25,314	27,768	45,157
U.S. Air Force Academy	236	62,097	73,607	56,044	57,164	44,663	38,326	55,358	48,287	35,925	43,941	42,197	32,086	36,506	44,880
U. North Carolina, Greensboro	237	22,436	26,121	19,080	16,590	20,723	23,026	23,965	23,231	22,743	26,325	28,966	37,033	41,303	44,521
Morgan State U.	238	12,804	12,803	17,751	15,475	15,720	13,577	15,727	14,978	12,993	13,253	17,193	20,628	29,482	43,868
East Tennessee State U.	239	9,869	10,249	11,213	8,919	7,836	6,930	7,982	9,493	14,043	14,197	13,925	18,449	23,420	42,335
U. Massachusetts, Dartmouth	240	25,725	25,644	22,732	27,326	28,219	26,776	26,824	26,102	26,626	28,036	26,836	28,729	33,136	42,018
Chapman U.	241	3,830	3,547	3,314	4,463	4,794	5,353	6,554	10,626	14,141	19,592	26,660	25,820	34,212	41,791
U. West Florida	242	17,757	21,710	16,221	19,332	19,579	31,232	40,815	35,054	41,035	38,555	37,397	36,837	38,870	40,454
Georgia Southern U.	243	3,704	3,912	5,719	18,069	20,245	17,152	17,395	16,084	12,978	11,166	12,166	37,201	36,362	40,026
Texas A&M U.-Corpus Christi	244	17,266	17,509	15,776	17,418	21,321	24,507	24,786	27,993	30,253	32,944	32,284	30,500	36,014	39,305
Montclair State U.	245	2,255	3,621	5,123	4,568	4,266	4,274	5,207	5,796	7,980	15,588	17,636	17,390	32,202	38,209
Oakland U.	246	12,856	15,868	18,194	16,767	15,196	17,108	16,001	14,561	13,817	18,002	12,949	20,261	38,061	37,263
CUNY, Hunter C.	247	38,900	39,772	41,022	40,059	38,879	36,368	37,094	31,273	33,702	37,478	38,345	33,816	35,348	37,172
California Polytechnic State U., San Luis Obispo	248	19,732	16,532	17,412	16,067	15,096	16,312	18,081	17,979	16,352	25,249	26,605	25,953	33,155	35,830
Louisiana State U., Health Sciences Center, Shreveport	249	30,817	31,021	29,365	28,266	25,004	24,069	23,353	22,560	24,463	26,262	25,321	24,600	29,502	35,624
SUNY, Downstate Health Sciences U.	250	32,512	41,993	43,257	39,354	33,331	28,652	33,735	31,873	34,661	36,015	33,204	34,459	30,918	35,600

TABLE 21

Higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
San Francisco State U.	251	25,615	26,198	30,291	33,885	29,457	26,345	28,273	29,940	30,903	31,888	33,828	i 35,768	36,617	34,466
Teachers C., Columbia U.	252	17,167	18,406	20,805	19,649	20,538	23,269	24,124	24,194	24,477	24,865	22,630	24,335	30,978	34,183
Marshall U.	253	24,501	26,723	18,998	19,617	20,382	19,936	20,687	18,348	20,050	19,622	22,250	23,620	25,692	33,693
Delaware State U.	254	15,200	19,019	15,668	17,295	17,679	15,980	21,320	20,793	21,377	23,017	23,105	i 23,193	29,016	33,499
Illinois Institute of Technology	255	36,554	44,463	32,576	36,722	31,356	34,336	29,826	32,659	33,280	34,334	29,122	29,698	29,791	33,021
Illinois State U.	256	18,417	17,833	17,760	17,589	19,159	18,742	20,408	20,080	21,055	27,082	31,539	24,152	25,510	32,961
SUNY, C. of Environmental Science and Forestry	257	26,916	25,024	i 23,132	i 21,239	19,027	22,051	24,504	27,923	26,610	29,137	29,296	28,440	32,904	32,682
Kennesaw State U.	258	1,854	1,961	3,511	i 5,062	2,192	4,762	8,279	9,510	11,214	12,850	17,954	18,880	21,705	32,497
U. Texas Health Science Center, Tyler	259	ne	ne	ne	ne	ne	12,191	11,799	16,292	17,949	i 19,606	i 21,265	27,928	33,872	32,077
Louisiana Tech U.	260	26,020	27,583	26,546	24,949	22,942	23,827	23,104	22,741	24,655	26,143	26,585	27,417	26,591	31,676
Villanova U.	261	10,066	i 10,044	8,547	i 7,049	13,700	14,512	14,903	19,037	20,730	22,837	25,505	24,723	25,955	31,513
U. Nebraska, Omaha	262	8,951	9,509	8,376	9,181	9,222	9,422	10,459	12,061	12,943	14,302	16,134	19,006	24,259	30,841
Desert Research Institute	263	34,367	35,331	33,056	27,695	23,778	22,103	29,422	29,440	27,875	26,991	26,428	26,365	28,478	30,716
U. South Dakota	264	30,616	28,959	31,982	33,187	30,700	25,661	25,864	28,358	30,943	32,028	29,279	27,537	30,322	29,855
Rutgers, State U. New Jersey, Newark	265	27,745	35,774	34,797	37,134	28,083	24,387	21,492	25,898	27,206	26,661	28,006	23,854	28,345	29,787
U. Puerto Rico, Rio Piedras	266	30,515	32,582	33,099	29,234	28,793	28,579	23,491	21,204	17,085	24,088	22,895	28,896	28,083	29,202
Northern Illinois U.	267	27,036	21,748	21,823	23,027	16,427	17,722	21,225	19,150	23,280	26,570	25,420	25,261	27,068	29,134
Creighton U.	268	27,700	31,443	32,594	29,983	25,560	23,825	23,510	24,315	20,587	24,039	20,339	23,251	27,609	28,443
Miami U.	269	26,521	26,093	26,311	23,924	21,216	16,108	16,057	17,239	19,658	22,380	24,489	25,138	28,799	28,430
Tennessee State U.	270	12,432	13,468	15,439	16,177	20,068	19,955	19,520	18,108	17,681	15,236	25,942	21,977	i 18,012	28,246
California State U., Sacramento	271	15,207	16,344	14,053	15,564	13,136	17,930	20,676	21,106	21,429	23,544	24,939	23,699	23,795	28,027
Embry-Riddle Aeronautical U.	272	12,189	16,289	19,376	16,484	15,393	11,942	16,761	13,335	16,767	12,478	17,786	19,830	28,650	27,451
CUNY, Graduate School of Public Health and Health Policy	273	na	na	na	na	na	na	na	na	9,751	9,521	12,177	15,035	16,423	26,651
Texas A&M U.-Kingsville	274	17,378	17,114	17,419	18,653	21,819	20,894	21,309	22,633	21,150	22,268	22,745	23,578	23,451	26,401
Wright State U.	275	48,575	48,501	46,213	50,489	54,985	54,289	55,484	59,379	68,035	64,208	49,825	26,259	27,440	26,189
California State U., Fullerton	276	21,776	28,186	22,222	18,478	7,919	5,611	5,755	5,510	6,348	7,173	5,929	9,006	16,642	25,811
Tuskegee U.	277	15,581	15,685	15,991	21,150	24,945	20,740	i 16,535	16,535	16,535	20,562	20,973	21,355	21,941	25,625

TABLE 21

Higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
U. Minnesota, Duluth	278	21,150	23,400	21,530	21,383	21,904	27,550	27,528	24,956	25,189	27,530	26,137	23,767	23,362	25,534
CUNY, Queens C.	279	16,845	23,219	22,399	19,762	23,434	19,092	19,168	15,936	16,676	18,391	16,470	16,063	21,434	25,492
Clarkson U.	280	18,584	17,951	14,809	12,061	13,750	13,406	12,983	15,148	16,927	17,147	15,104	16,765	21,703	25,399
Central Michigan U.	281	7,483	8,671	10,907	12,879	15,015	12,880	14,166	14,652	15,616	17,102	17,448	21,726	25,105	25,363
Florida Gulf Coast U.	282	13,906	17,051	14,393	14,204	9,626	8,992	7,335	6,025	5,115	5,907	6,671	8,197	9,896	24,899
U. Tulsa	283	23,387	19,489	20,270	21,757	27,077	25,066	22,347	20,879	20,072	18,648	18,787	17,187	17,416	24,845
Texas Christian U.	284	5,306	5,595	7,775	8,574	7,872	8,007	6,589	7,255	5,808	6,552	15,326	15,336	18,353	24,050
Eastern Virginia Medical School	285	44,420	36,569	37,745	44,183	43,917	42,296	32,550	28,671	30,010	27,064	20,870	19,415	22,165	23,991
Fordham U.	286	19,289	18,350	19,311	18,822	17,961	20,939	25,374	20,807	20,644	20,287	20,456	16,731	20,432	23,832
Tarleton State U.	287	10,763	10,426	9,393	9,722	10,996	9,825	9,404	10,893	12,503	13,171	14,890	17,729	20,056	23,345
U. North Florida	288	8,041	9,379	7,031	4,480	3,674	3,689	5,141	6,476	9,994	12,341	13,573	15,782	18,394	23,269
Albany Medical C.	289	22,953	20,876	17,735	15,093	16,093	18,043	20,166	20,443	21,187	23,028	23,510	22,443	22,297	23,259
California State U., Northridge	290	29,469	25,654	29,491	9,640	12,991	13,333	16,330	17,979	19,618	21,095	21,228	16,573	19,638	23,093
CUNY, John Jay C. of Criminal Justice	291	5,916	6,205	9,319	7,355	8,633	8,689	9,688	11,934	14,310	12,295	13,939	11,791	16,233	22,967
New School	292	5,178	6,420	7,568	9,219	7,160	8,978	17,425	12,740	13,606	13,421	13,186	14,281	19,218	22,680
U. Colorado Denver ^c	293	na	na	na	na	na	na	na	na	na	na	na	18,039	18,080	22,530
U. Guam	294	5,555	5,626	6,131	6,043	7,075	6,062	7,402	8,842	11,225	12,249	13,043	17,666	20,481	22,388
Loma Linda U.	295	35,990	39,409	31,772	31,715	23,375	25,519	22,977	21,846	19,892	17,938	15,984	14,029	15,517	22,262
Meharry Medical C.	296	27,001	29,055	25,559	22,532	18,997	13,998	14,768	16,782	16,980	18,286	13,870	15,840	17,960	22,002
Southern Illinois U., Edwardsville	297	31,781	33,736	26,992	25,807	18,915	19,051	18,780	17,393	18,420	18,088	18,273	18,044	19,152	21,927
U. North Carolina, Wilmington	298	23,143	22,593	19,722	18,145	14,648	15,564	15,715	16,015	16,955	17,515	16,544	16,656	20,053	21,879
Prairie View A&M U.	299	12,565	15,243	14,552	13,198	12,292	13,123	12,616	13,982	17,278	18,018	18,723	17,582	20,429	21,791
U. Akron	300	52,884	60,352	66,413	69,640	69,528	58,512	58,817	41,326	32,582	30,020	23,496	17,340	19,943	21,525
California State U., Long Beach	301	15,494	14,595	13,696	12,796	10,097	8,830	16,390	18,805	22,880	18,664	16,684	15,134	17,807	21,458
California State U., East Bay	302	1,312	1,644	1,039	934	ne	ne	837	ne	ne	ne	9,072	10,852	19,035	21,312
James Madison U.	303	7,038	7,303	8,891	5,835	4,628	3,712	3,303	3,248	4,191	8,726	10,247	14,687	17,021	21,265
Tennessee Technological U.	304	16,754	13,247	10,233	9,715	10,097	11,082	11,528	12,079	12,765	13,801	14,085	15,387	16,398	20,797
Bowling Green State U.	305	8,124	8,999	8,566	13,157	8,861	7,995	14,460	14,333	17,991	17,026	18,729	18,619	19,342	20,726
U.S. Military Academy	306	22,171	13,799	12,227	11,630	14,819	15,312	13,500	13,617	13,582	10,765	12,473	19,696	20,841	20,493
U. New Orleans	307	35,021	35,359	28,450	24,607	20,614	18,960	15,719	15,939	14,437	15,328	16,594	16,979	21,911	20,396

TABLE 21

Higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
South Dakota School of Mines and Technology	308	28,572	32,070	19,140	12,156	10,524	14,970	15,396	15,541	15,092	12,973	14,490	15,746	20,061	20,337
U. of the Virgin Islands	309	32,350	21,994	25,719	20,041	20,371	20,630	21,215	12,298	11,957	12,236	13,631	15,231	20,259	20,259
U. Alaska, Anchorage	310	16,709	18,620	20,194	20,255	17,150	17,436	19,883	20,861	21,096	21,724	22,713	21,332	21,024	19,850
Charles R. Drew U. of Medicine and Science	311	22,152	22,150	20,580	18,547	20,686	14,128	13,360	15,652	11,490	13,739	13,682	13,228	14,581	19,551
Jackson State U.	312	44,862	49,998	46,943	36,264	26,609	23,908	23,832	22,790	19,465	18,160	15,081	16,157	17,481	19,457
Alcorn State U.	313	10,280	11,397	11,515	11,315	10,060	9,396	8,204	16,129	13,834	14,435	13,710	14,188	16,664	19,141
California State Polytechnic U., Humboldt	314	9,845	9,570	9,510	8,025	8,306	11,218	16,143	15,969	15,044	15,076	14,236	14,103	15,612	18,800
North Carolina Central U.	315	6,870	9,496	11,076	8,979	11,537	12,448	12,463	14,119	14,942	16,227	15,833	14,105	16,600	18,477
Montana Technological U.	316	7,424	6,705	11,765	11,059	11,348	11,595	11,851	13,059	12,666	12,731	12,987	14,933	14,188	18,375
Idaho State U.	317	20,495	21,450	21,179	22,147	20,610	17,866	20,447	18,564	18,081	14,972	14,478	13,953	16,615	17,548
CUNY, Advanced Science Research Center	318	na	na	na	na	na	569	ne	3,541	5,666	8,310	11,373	15,403	16,507	17,309
Towson U.	319	3,052	3,574	2,599	2,800	2,997	3,153	2,303	2,834	3,194	3,423	3,612	3,794	8,788	17,198
New York Medical C.	320	28,400	27,316	23,277	20,243	17,908	17,653	17,311	15,637	16,226	19,398	20,137	18,872	16,461	17,113
Florida Institute of Technology	321	12,054	14,523	17,100	13,298	14,255	14,282	18,860	18,180	17,378	17,876	18,271	23,195	17,706	16,859
Long Island U.	322	832	877	890	915	ne	ne	1,420	2,290	2,405	5,113	13,997	15,059	17,183	16,612
Texas Southern U.	323	7,003	6,318	6,380	6,548	6,038	5,005	4,495	4,722	3,740	4,893	10,138	9,128	12,120	16,287
Western Washington U.	324	10,571	9,498	7,597	8,157	8,567	9,921	10,743	13,014	13,075	11,983	12,823	13,450	15,081	15,874
Alabama A&M U.	325	30,497	30,238	29,979	29,720	29,461	29,202	25,112	21,022	16,932	12,840	8,749	9,180	9,611	15,588
Fort Valley State U.	326	5,310	3,850	3,665	3,688	4,547	4,320	5,138	5,374	3,916	4,563	4,921	4,842	9,969	15,536
Xavier U. Louisiana	327	8,029	9,849	10,606	8,789	9,346	9,588	12,084	12,424	11,784	10,152	11,387	12,799	14,156	15,519
Duquesne U.	328	15,804	16,814	15,547	15,661	15,025	16,159	17,089	17,197	17,420	16,947	17,485	10,521	13,944	14,989
U. Tennessee, Chattanooga	329	10,749	9,251	10,896	7,844	6,239	6,817	5,600	6,352	7,585	9,280	10,834	11,192	12,808	14,671
Missouri State U.	330	7,770	5,584	4,340	3,882	3,782	3,540	3,069	3,215	4,409	5,910	13,131	10,014	11,162	14,654
Salisbury U.	331	3,503	1,852	6,891	6,959	7,923	7,960	8,473	7,731	9,119	9,368	9,496	10,552	10,614	14,557
U. Hawaii, system office	332	ne	ne	ne	ne	ne	ne	ne	ne	12,340	12,159	13,568	12,918	12,646	14,172
Loyola Marymount U.	333	4,557	6,455	5,746	6,766	7,635	6,389	7,504	7,071	7,911	7,272	7,193	12,819	12,773	14,086
U. Puerto Rico, Mayaguez	334	26,475	34,424	32,115	29,225	27,152	28,100	25,491	26,130	24,769	26,877	26,553	18,368	18,274	13,989
Virginia State U.	335	7,466	8,562	10,296	9,535	8,374	7,808	8,147	10,725	10,673	11,457	10,014	10,123	12,326	13,504
DePaul U.	336	4,889	5,798	5,706	5,524	6,415	9,479	9,558	8,561	7,079	6,144	6,557	6,675	8,362	13,267

TABLE 21

Higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Texas Tech U., Health Sciences Center, El Paso	337	ne	ne	ne	ne	23,282	18,889	17,391	16,479	12,556	11,883	10,421	11,360	14,206	13,189
California State U., San Bernardino	338	4,188	11,591	9,303	11,942	13,582	15,317	10,771	12,924	16,702	16,062	10,819	11,607	11,929	13,152
Northeast Ohio Medical U.	339	10,819	13,581	13,358	12,722	15,916	17,103	18,823	19,216	18,231	18,016	15,758	13,853	13,465	13,116
U. San Diego	340	2,934	3,483	4,275	4,554	5,146	4,476	4,734	5,089	5,642	6,036	8,607	7,580	10,143	12,902
U. Missouri, Saint Louis	341	14,628	18,461	19,356	20,869	18,618	12,061	13,460	12,042	12,266	14,432	15,352	14,632	13,247	12,808
Midwestern U.	342	3,626	4,022	5,200	6,292	7,310	8,560	7,732	9,207	10,173	10,343	10,479	10,961	11,069	12,725
Oklahoma State U., Center for Health Sciences	343	4,398	2,815	2,122	2,137	1,805	1,625	2,182	2,454	2,608	5,408	8,378	7,758	8,368	12,500
Sam Houston State U.	344	7,555	5,816	4,349	4,608	3,996	3,086	3,266	3,658	7,152	9,445	12,437	13,315	12,009	11,760
Ball State U.	345	20,477	18,765	11,740	10,357	9,209	10,548	11,763	8,797	11,163	12,145	9,429	8,826	9,932	11,650
Rosalind Franklin U. of Medicine and Science	346	12,426	14,261	15,587	17,401	17,794	16,604	16,760	17,006	16,765	16,126	14,601	13,805	12,988	11,629
Kentucky State U.	347	4,912	4,562	6,859	5,605	5,694	6,017	7,178	8,151	9,125	8,433	7,963	8,756	9,284	11,591
Clark U.	348	7,111	6,861	7,260	5,693	6,168	7,050	6,970	8,453	8,318	10,193	10,277	7,931	8,813	11,539
California State U., San Marcos	349	5,788	6,795	7,802	8,809	8,302	6,432	6,634	6,549	8,348	10,595	13,250	10,213	9,238	11,443
California State U., Fresno	350	8,698	8,597	8,359	7,682	8,109	8,624	8,586	8,102	8,988	8,599	8,856	9,213	12,603	11,411
Central State U.	351	3,233	3,821	3,591	2,771	2,025	1,508	1,643	2,008	3,615	3,766	6,107	8,751	10,274	11,123
U.S. Naval Academy	352	11,093	10,543	9,610	10,816	10,861	9,609	11,374	13,541	14,057	13,621	13,123	10,818	10,664	10,920
U. Michigan, Dearborn	353	6,779	7,554	6,015	6,846	8,176	7,802	7,904	8,315	8,094	8,813	8,777	7,472	8,180	10,839
Wesleyan U.	354	8,397	10,367	8,945	8,120	7,262	7,223	7,740	8,945	10,662	9,958	8,300	8,009	10,101	10,828
U. Maryland, Eastern Shore	355	8,692	8,664	7,309	8,826	8,982	9,700	8,250	7,403	4,941	7,133	8,092	8,636	9,274	10,730
California State Polytechnic U., Pomona	356	6,493	7,198	6,597	6,988	5,455	4,611	5,254	5,863	8,043	6,099	7,396	7,011	7,909	10,722
Pacific U.	357	1,849	1,129	2,110	2,535	2,122	2,016	2,508	7,770	6,264	8,753	5,842	4,690	6,128	10,719
California State U., Monterey Bay	358	5,305	6,959	6,567	6,129	4,787	5,492	5,680	5,397	5,799	6,444	5,874	6,882	8,975	10,678
Pepperdine U.	359	2,672	1,924	2,571	2,400	2,401	2,714	3,178	2,396	1,954	2,170	2,006	2,655	3,775	10,632
Langston U.	360	4,492	5,206	5,326	4,932	8,512	8,126	11,178	11,025	10,872	10,719	14,409	6,345	6,481	10,505
Clark Atlanta U.	361	8,515	8,245	10,406	9,159	9,192	9,945	8,513	8,007	7,833	9,048	8,452	8,892	8,791	10,320
West Texas A&M U.	362	7,346	5,847	6,937	5,510	5,407	4,513	4,048	4,943	4,797	5,437	6,220	9,920	9,438	10,302
California State U., Los Angeles	363	7,714	8,823	7,192	7,659	5,172	5,010	5,371	8,274	9,594	12,476	10,590	9,382	9,839	10,186

TABLE 21

Higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Kean U.	364	ne	1,497	2,029	761	ne	1,064	908	ne	ne	ne	2,201	3,538	5,499	10,062
Gallaudet U.	365	7,652	7,161	6,765	6,769	5,655	4,477	6,947	7,603	7,617	5,382	4,599	6,126	6,360	9,894
Hampton U.	366	14,455	12,414	15,356	12,641	11,169	14,895	14,225	16,482	14,424	13,605	11,402	11,669	11,462	9,769
U. San Francisco	367	2,124	2,668	4,301	2,663	2,764	2,599	2,365	2,602	2,741	2,712	2,161	1,375	2,657	9,633
Middle Tennessee State U.	368	4,793	4,969	7,108	5,718	4,334	4,350	6,164	4,714	7,132	7,673	8,697	22,531	22,631	9,577
Rutgers, State U. New Jersey, Camden	369	3,574	5,079	3,810	5,722	4,919	5,123	4,250	5,103	3,264	3,211	3,950	5,142	6,480	9,527
Western Kentucky U.	370	9,943	8,344	10,639	9,322	8,280	7,854	8,926	10,814	9,617	9,281	8,241	6,944	7,720	9,298
Lamar U.	371	5,829	4,762	3,589	2,605	2,447	2,824	2,783	3,883	3,595	4,848	4,327	4,734	5,304	9,168
U. Northern Colorado	372	2,607	2,078	2,896	3,034	4,176	3,652	4,028	4,538	5,089	4,571	3,738	3,159	3,308	9,064
Bryn Mawr C.	373	7,476	8,388	9,837	9,452	9,143	11,692	10,867	11,146	10,282	9,846	11,575	8,987	9,123	9,039
Western U. of Health Sciences	374	1,786	1,768	3,005	3,721	5,474	4,904	6,895	6,187	5,140	4,951	5,899	6,688	9,029	8,929
U. Arkansas, Little Rock	375	11,007	12,039	10,500	13,107	8,068	7,003	7,604	6,833	8,167	9,975	9,711	7,397	7,530	8,685
Saint Joseph's U.	376	2,918	3,073	2,955	2,921	1,988	2,093	2,171	2,409	2,151	2,851	3,150	2,922	9,041	8,675
Winston-Salem State U.	377	ne	1,179	1,977	841	ne	ne	1,356	1,575	1,629	2,011	5,781	8,123	10,436	8,668
Yeshiva U.	378	314,240	281,334	289,027	271,166	306,826	306,174	46,130	3,258	3,302	2,420	2,763	5,452	7,274	8,661
CUNY, Brooklyn C.	379	6,846	9,306	9,216	8,064	9,407	9,091	9,602	7,393	6,600	6,837	7,074	6,318	6,220	8,535
Appalachian State U.	380	2,898	3,835	4,438	3,051	4,289	3,878	3,146	4,475	3,631	3,268	4,894	4,509	7,189	8,479
Eastern Michigan U.	381	14,133	11,643	12,437	3,128	1,428	1,761	3,815	6,281	6,600	7,175	9,088	7,233	8,025	8,363
Lincoln U., Jefferson City	382	8,475	8,518	7,899	6,585	6,742	6,296	5,826	5,164	4,215	4,581	5,777	7,621	11,500	8,196
Abilene Christian U.	383	662	487	ne	ne	ne	ne	ne	ne	ne	ne	ne	4,597	6,310	8,182
Hofstra U.	384	2,552	2,472	3,237	2,394	3,102	2,585	2,440	1,702	1,662	1,744	1,445	5,545	6,939	8,162
Amherst C.	385	3,628	4,623	5,448	6,275	4,308	4,412	4,260	4,070	4,849	6,325	4,906	4,636	7,177	8,152
U. Hawaii, Hilo	386	14,857	9,934	22,003	16,009	9,323	14,495	11,287	7,008	7,133	6,864	6,992	7,411	8,001	8,112
Southern Connecticut State U.	387	3,840	4,083	3,526	2,012	5,465	5,482	3,243	2,493	2,763	4,627	5,413	5,750	6,286	8,007
U. of the District of Columbia	388	5,012	4,422	4,030	3,073	2,361	2,043	3,469	3,733	2,960	4,800	4,590	8,104	10,779	7,945
U. Central Oklahoma	389	1,786	1,548	1,028	1,067	1,362	7,691	6,275	5,832	5,104	5,682	5,788	5,997	7,070	7,870
South Carolina State U.	390	7,167	10,037	12,909	12,809	12,709	12,607	13,076	14,300	15,130	3,659	4,697	5,735	6,773	7,814
U. Arkansas, Pine Bluff	391	8,343	9,415	9,082	8,911	8,198	8,425	8,873	8,136	8,349	9,024	8,540	8,713	7,506	7,766
Southern U. and A&M C., Agricultural Research and Extension Center	392	ne	6,143	8,122	5,530	5,606	4,761	4,704	5,000	5,296	5,448	4,475	6,164	7,048	7,764
Pennsylvania State U., Behrend	393	3,265	3,183	3,374	3,203	4,282	3,737	5,382	3,804	2,760	3,414	1,743	5,509	6,384	7,614

TABLE 21

Higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Edward Via C. of Osteopathic Medicine	394	ne	2,453	2,576	4,992	2,633	2,237	5,692	8,119	7,601	7,225	7,475	6,629	7,121	7,597
Grinnell C.	394	2,069	1,340	2,735	4,023	3,974	3,723	4,183	4,953	5,573	5,500	5,826	4,122	5,867	7,597
Purdue U., Northwest	396	na	na	na	na	na	na	na	8,924	8,062	5,272	5,839	5,647	6,387	7,504
Philadelphia C. of Osteopathic Medicine	397	1,278	2,401	1,898	2,614	2,209	2,561	2,458	2,969	3,059	3,162	3,360	6,186	6,667	7,459
MGH Institute of Health Professions	398	ne	607	ne	ne	ne	3,931	2,548	2,282	3,328	4,130	3,549	3,037	5,805	7,426
Arkansas State U., Jonesboro	399	11,115	13,435	14,250	10,463	8,099	8,453	8,169	7,952	8,245	8,945	8,640	8,422	8,214	7,323
Claremont Graduate U.	400	7,116	6,589	10,350	9,705	9,540	i 9,375	i 9,210	i 9,045	i 8,880	i 8,715	9,403	7,235	8,382	7,262
C. Charleston	401	14,218	8,320	9,579	10,224	10,034	10,607	10,189	8,927	7,375	7,610	5,728	6,361	6,421	7,231
Seton Hall U.	402	4,003	7,701	6,398	6,489	6,675	7,058	7,244	7,272	6,536	7,056	5,718	5,320	5,741	7,068
Texas A&M U.-Commerce	403	2,679	2,242	2,279	2,541	2,833	3,755	2,943	4,227	3,431	3,403	4,166	3,827	4,955	7,029
U. Colorado Colorado Springs	404	9,088	7,425	4,727	4,721	5,363	6,988	6,812	6,680	5,976	4,720	5,557	5,338	7,761	7,012
Claremont McKenna C.	405	5,725	5,316	5,365	i 5,414	i 5,463	ne 6,094	6,094	5,818	5,693	6,214	5,846	4,515	5,893	6,925
Texas Woman's U.	406	2,271	2,919	4,129	2,704	2,650	2,310	3,014	4,073	4,822	4,477	4,135	4,943	6,029	6,922
Hope C.	407	3,596	4,185	3,376	3,559	3,016	2,932	2,811	3,225	3,179	2,745	3,822	5,211	6,355	6,910
U. North Carolina, Asheville	408	2,671	3,157	3,068	2,647	2,150	2,384	3,348	2,863	3,414	4,602	4,789	4,844	5,973	6,761
U. New England	409	3,560	4,016	5,224	6,637	7,650	7,498	7,566	8,064	6,700	7,346	6,886	6,234	6,664	6,756
Reed C.	410	1,904	1,839	1,837	2,395	3,124	3,050	3,213	1,415	2,607	3,240	5,155	5,132	i 5,922	i 6,750
U. Baltimore	411	4,229	5,944	5,556	5,448	4,990	5,022	5,798	6,851	10,556	12,451	15,054	14,672	6,646	6,615
Williams C.	412	4,691	4,513	4,518	3,857	4,440	5,679	5,747	5,227	5,506	5,188	4,924	i 4,902	i 5,657	i 6,448
California State U., Bakersfield	413	2,083	3,162	1,241	2,602	2,432	3,192	3,161	4,652	5,577	7,591	7,053	6,253	4,815	6,409
Barnard C.	414	3,353	4,046	3,684	2,931	2,738	2,916	3,534	3,730	3,458	4,010	3,748	4,632	4,988	6,320
Wellesley C.	414	8,422	7,242	8,439	9,113	10,127	9,595	11,664	10,326	11,530	8,810	8,088	6,252	6,326	6,320
U. Washington, Tacoma	416	872	1,359	1,845	2,203	2,938	3,618	3,957	3,246	3,006	3,471	3,504	4,291	5,484	6,243
Grand Valley State U.	417	5,044	6,429	i 7,814	i 9,202	8,198	7,453	6,764	6,917	6,968	6,592	6,792	6,809	6,695	6,231
Norfolk State U.	418	5,944	7,140	8,336	6,431	6,936	5,348	7,593	7,296	6,914	8,050	7,153	4,316	3,593	6,194
Northwest Indian C.	419	2,426	2,744	i 2,847	3,247	2,609	1,631	i ne	ne	2,154	2,659	3,650	i 4,641	i 5,632	6,184
West Chester U. Pennsylvania	420	5,584	i 8,103	4,591	1,635	2,793	5,009	5,895	7,293	6,340	6,777	6,414	4,433	5,903	6,132
Azusa Pacific U.	421	ne	3,620	2,056	i ne	ne	7,521	8,898	8,430	8,380	5,598	7,068	5,318	3,389	6,097

TABLE 21

Higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023				
Roseman U. of Health Sciences	422	ne	840	ne	ne	3,021	3,287	3,433	4,167	3,973	4,176	i	4,380	5,985	6,296	6,065			
Indiana U. Pennsylvania	423	1,376	1,736	1,809	1,280	938	ne	1,241	2,291	6,450	8,119	6,531	6,180	6,313	6,052				
U.S. Army War C.	424	ne	ne	ne	ne	ne	ne	ne	ne	ne	4,418	i	ne	4,662	i	5,496	i	6,035	i
California State U., Chico	425	2,881	2,684	2,492	2,868	2,384	1,837	2,363	1,600	2,452	3,232	4,305	4,209	4,177	5,984				
Smith C.	426	4,613	4,529	4,246	4,234	4,283	5,268	4,466	6,055	5,954	6,041	4,685	4,085	5,831	5,954				
High Tech High Graduate School of Ed.	427	ne	ne	ne	ne	ne	ne	ne	ne	861	ne	3,304	5,032	6,203	5,939				
U. Southern Maine	428	16,358	16,938	13,915	11,725	9,408	i	7,091	i	4,773	7,147	7,414	6,654	5,635	5,480	5,498	5,930		
CUNY, Lehman C.	429	3,593	i	3,762	3,228	2,904	3,265	3,130	5,347	4,979	5,556	4,690	4,154	4,181	4,656	5,918			
Bucknell U.	430	5,456	5,043	4,009	4,297	4,464	4,140	4,516	i	4,892	i	5,269	5,625	5,051	i	4,476	5,259	5,887	
U. Oklahoma, Tulsa	431	ne	ne	ne	ne	ne	4,104	4,962	4,487	6,233	6,373	7,483	7,185	7,945	5,826				
Naval War C.	432	ne	ne	2,938	i	2,700	i	2,736	i	2,653	3,210	4,240	i	5,270	5,060	5,944	5,542	5,529	5,819
New York Institute of Technology	433	1,785	2,059	3,013	4,007	5,761	4,169	4,114	3,236	3,832	5,820	3,580	4,465	5,555	5,790				
Morehouse C.	434	7,857	8,485	i	9,113	9,581	7,349	6,180	4,315	3,667	4,531	4,564	4,825	4,533	5,664	5,750			
U. Washington, Bothell	435	630	2,857	4,285	4,704	7,550	7,657	8,406	10,219	8,097	7,950	7,107	8,311	8,197	5,738				
Santa Clara U.	436	3,816	2,407	3,329	2,376	2,883	1,659	2,056	2,145	2,299	2,319	2,682	3,142	4,225	5,679				
Swarthmore C.	437	2,984	2,994	3,281	3,415	3,528	2,943	3,211	3,569	3,921	4,203	3,544	3,296	4,225	5,620				
Texas A&M International U.	438	2,428	3,121	3,344	3,674	3,441	2,917	3,742	4,745	5,735	6,068	3,067	3,740	4,486	5,602				
Oregon Institute of Technology	439	ne	258	ne	ne	ne	2,056	4,027	3,595	i	3,163	4,793	4,267	4,314	5,086	i	5,585	i	
California State U., Dominguez Hills	440	2,743	2,780	2,894	4,671	3,614	i	2,557	2,790	1,858	2,043	1,957	2,065	2,690	4,230	5,558			
Providence C.	441	917	758	ne	983	ne	1,329	1,196	1,014	1,215	1,042	1,092	766	ne	5,533				
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	442	ne	2,342	2,562	2,979	3,356	3,089	3,177	3,285	3,502	3,769	3,737	3,776	4,954	5,324				
Trinity U.	443	1,446	1,355	1,611	3,094	2,992	2,633	2,383	3,274	3,244	3,736	3,472	2,905	3,657	5,296				
Dakota State U.	444	ne	1,015	5,709	1,574	1,446	1,152	2,171	2,284	3,619	3,710	4,412	3,416	4,684	5,253				
West Virginia State U.	445	3,770	4,176	5,087	4,491	7,221	7,365	5,224	6,305	6,535	5,829	5,775	6,565	6,703	5,226				
Southern U. and A&M C., Baton Rouge	446	6,865	6,819	i	6,773	4,920	4,812	4,766	4,322	4,043	4,171	4,492	3,849	4,943	4,344	5,201			
Suffolk U.	447	ne	1,624	1,303	1,551	1,534	1,305	1,492	i	1,679	i	ne	ne	2,106	2,043	1,401	5,164		
Pennsylvania State U., Harrisburg	448	2,734	3,460	2,903	2,230	2,557	3,379	2,558	1,654	2,119	2,805	1,866	2,938	2,927	5,159				

TABLE 21

Higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
U. Detroit Mercy	449	1,148	1,462	970	ne	1,320	1,882	3,654	2,748	4,605	5,210	4,786	4,578	5,186	5,142
Colgate U.	450	2,851	2,291	3,268	2,704	2,444	2,721	3,219	3,414	3,823	3,756	2,913	3,306	4,343	4,930
Sul Ross State U.	451	3,039	3,183	2,375	2,159	2,528	2,204	2,015	2,500	2,934	2,352	2,068	3,004	3,940	4,878
U. Central del Caribe	451	7,122	7,515	7,313	7,095	7,181	6,964	7,090	5,634	4,111	3,953	3,931	3,831	5,053	4,878
Spelman C.	453	3,181	2,273	2,148	1,602	1,595	1,524	1,929	2,079	2,350	2,751	2,750	2,282	2,686	4,877
Fisk U.	454	7,700	4,849	4,058	6,565	9,073	9,854	10,635	5,017	2,790	4,748	3,904	4,320	4,000	4,867
U. Wisconsin-Superior	455	5,890	6,187	6,041	ne	3,030	ne	ne	ne	3,068	2,250	2,301	2,602	4,615	4,825
Sacred Heart U.	456	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	972	ne	4,733
CUNY, C. Staten Island	457	3,290	4,188	4,955	3,691	3,731	3,060	3,511	4,250	4,118	3,986	3,682	2,860	3,545	4,730
Coastal Carolina U.	458	2,404	2,162	2,412	2,516	2,166	1,862	1,779	1,893	1,631	2,042	1,903	2,245	3,724	4,729
Occidental C.	459	2,289	1,809	1,592	1,634	2,177	1,544	2,008	1,764	1,445	2,458	2,657	3,587	4,139	4,718
Toyota Technological Institute, Chicago	460	ne	746	ne	ne	ne	2,543	2,710	2,880	3,251	3,681	5,887	4,967	4,470	4,636
Lawrence Technological U.	461	3,952	3,348	1,483	2,022	1,876	2,528	1,907	1,942	1,668	1,352	1,521	1,764	3,050	4,632
Sonoma State U.	462	858	825	ne	1,938	1,714	1,163	693	ne	ne	ne	1,545	2,957	3,774	4,625
U. Wisconsin-Stevens Point	463	6,766	6,171	5,576	4,392	3,919	3,446	2,973	3,420	3,867	4,314	4,764	4,401	3,740	4,589
U. Northern Iowa	464	3,064	4,248	3,615	3,678	3,711	4,032	3,632	3,303	2,983	3,628	2,970	3,259	3,486	4,564
Colby C.	465	1,782	1,772	1,996	1,822	1,673	1,748	1,903	2,071	2,240	1,852	1,536	1,672	2,530	4,454
SUNY, C. of Optometry	466	3,529	3,738	3,466	3,637	3,481	3,906	4,169	3,304	3,120	2,968	3,477	3,460	4,497	4,423
U. of Health Sciences and Pharmacy in St. Louis	467	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	4,835	5,313	4,280	4,343
CUNY, system office	468	ne	ne	1,817	1,210	1,088	1,782	1,655	1,114	3,253	2,619	1,704	1,664	2,900	4,296
Carleton C.	469	4,575	5,382	4,957	5,848	5,657	6,746	6,385	6,888	5,515	4,388	3,732	3,800	4,358	4,185
Alfred U.	470	4,524	6,084	5,451	6,731	4,655	5,193	3,975	3,231	3,641	5,153	2,780	2,660	3,477	4,154
Pomona C.	471	2,924	3,640	3,259	3,679	3,818	3,538	3,691	3,205	2,983	2,985	2,855	2,146	2,589	4,149
Franklin and Marshall C.	472	3,770	3,439	2,997	3,475	3,105	3,888	3,772	4,385	4,769	5,041	3,623	3,722	4,440	4,111
Trinity C., Hartford	473	1,875	1,934	2,102	1,786	2,131	1,717	1,598	2,856	1,672	1,858	1,428	1,775	1,620	4,099
Haverford C.	474	3,620	2,765	2,588	2,769	2,546	2,633	2,173	2,442	3,041	3,752	4,473	3,835	4,487	4,088
CUNY, Baruch C.	475	2,616	2,645	3,605	2,264	2,183	2,451	2,998	2,543	2,817	2,387	2,396	2,521	3,156	4,084
Keck Graduate Institute	476	ne	2,313	1,920	2,357	2,132	1,722	1,660	1,598	1,536	1,474	1,412	1,350	1,282	4,059
Pace U.	477	3,085	3,732	4,214	3,611	4,373	4,647	5,359	5,028	4,282	3,855	4,272	3,649	3,524	4,056
California State U., Channel Islands	478	ne	524	ne	1,236	3,862	1,949	1,383	1,096	1,248	1,572	1,497	2,341	3,377	3,992
St. John's U., New York	479	1,643	1,786	2,161	2,401	2,507	2,558	2,307	2,542	2,903	2,352	3,282	2,940	3,592	3,955

TABLE 21

Higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Pittsburg State U.	512	1,759	1,687	1,479	1,536	2,475	2,210	2,162	2,255	2,253	2,513	2,173	2,730	2,884	2,979
Middlebury C.	513	2,292	2,408	3,031	2,179	1,450	1,599	1,822	2,043	1,895	1,657	1,720	2,927	2,603	2,975
East Stroudsburg U. Pennsylvania	514	ne	250	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,410	2,928
Davidson C.	515	1,493	1,977	1,400	2,337	1,804	2,377	1,521	1,736	1,638	1,777	2,263	2,466	2,788	2,926
U. Wisconsin-La Crosse	516	4,141	3,862	i 3,583	3,796	3,424	3,615	3,211	3,187	3,569	2,692	2,795	3,001	2,942	2,921
Hawaii Pacific U.	517	ne	1,436	1,390	1,043	1,524	1,241	2,371	2,175	2,114	1,980	1,796	1,849	3,302	2,913
St. Cloud State U.	518	4,184	3,404	2,932	2,912	3,380	4,192	3,497	3,588	3,725	3,275	3,056	2,379	2,226	2,901
Touro U., California	519	1,221	1,779	2,237	2,155	3,067	3,106	3,466	3,122	3,233	3,543	3,551	3,489	2,561	2,877
Southeastern Louisiana U.	520	2,561	1,952	2,121	2,067	1,503	2,670	2,128	2,206	2,039	1,971	2,258	1,723	2,407	2,858
CUNY, New York City C. of Technology	521	231	343	ne	ne	ne	ne	ne	ne	2,418	2,711	2,130	1,367	1,955	2,819
Purdue U., Fort Wayne	522	8,523	8,864	8,570	8,128	7,882	7,052	5,952	5,254	4,945	2,416	2,264	2,495	2,134	2,804
U. Wisconsin-Green Bay	523	1,219	1,239	i 1,259	i 1,279	i 1,299	i 1,320	1,599	1,510	1,454	2,083	1,982	1,879	2,713	2,801
U. Wisconsin-River Falls	524	441	551	i ne	ne	ne	ne	ne	1,072	923	ne	1,107	999	ne	2,772
U. Texas of the Permian Basin	525	1,417	1,232	1,707	1,146	1,532	1,725	1,561	1,152	668	ne	2,105	3,504	3,577	2,769
Lewis and Clark C.	526	2,753	2,778	2,246	3,628	4,713	3,873	3,267	3,438	2,811	2,750	3,350	2,281	2,566	2,686
Tougaloo C.	527	2,978	2,753	2,613	2,639	2,285	2,689	2,473	3,030	3,173	3,380	2,102	2,092	i 2,336	i 2,663
Morehead State U.	528	2,145	2,018	2,174	2,631	1,892	1,838	2,399	2,860	2,434	2,028	1,883	1,754	2,880	2,658
C. New Jersey	529	850	486	ne	ne	ne	ne	ne	1,078	949	ne	1,464	1,912	3,464	2,641
SUNY, Buffalo State U.	530	1,935	2,539	2,970	2,106	1,996	2,366	2,221	1,887	1,928	2,124	2,253	1,962	2,172	2,636
Bowie State U.	531	ne	1,910	1,739	1,422	1,761	1,497	1,927	1,813	1,839	1,911	1,967	1,398	3,351	2,612
Marymount U.	532	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	2,307	1,298	2,601
Vassar C.	533	1,280	1,838	1,258	1,694	1,220	2,854	1,495	1,600	4,185	1,009	1,568	1,606	2,580	2,596
Albany C. of Pharmacy and Health Sciences	534	3,074	3,496	2,639	2,637	3,200	2,533	1,789	2,567	2,732	3,383	3,765	3,687	2,276	2,594
SUNY, Cobleskill	535	1,414	938	ne	908	ne	ne	ne	ne	ne	ne	ne	ne	1,211	2,566
Calvin U.	536	5,010	3,113	3,252	3,466	3,051	2,430	i 1,809	1,456	1,937	1,577	2,107	i 2,637	i 3,169	2,555
Eastern Washington U.	537	3,266	3,910	2,700	2,115	1,867	2,973	3,368	2,000	2,590	2,024	2,282	1,921	2,437	2,546
Lake Superior State U.	538	ne	752	ne	ne	ne	1,170	1,039	1,067	633	ne	ne	ne	2,056	2,545
Elon U.	539	ne	1,523	1,658	2,043	2,184	2,608	2,606	2,407	2,486	2,545	1,968	2,032	1,797	2,544
Western Carolina U.	540	2,376	1,451	1,811	1,028	1,048	1,145	1,305	1,474	1,507	2,633	2,696	2,847	2,783	2,543
Mount Holyoke C.	541	2,788	3,317	3,323	3,118	3,871	3,826	3,403	3,635	3,027	2,979	2,016	2,026	2,112	2,533
Monmouth U.	542	2,195	1,956	904	ne	865	ne	900	ne	ne	1,294	1,729	1,667	1,938	2,517
U. Illinois, Springfield	543	2,096	2,002	2,370	2,276	1,916	2,070	1,683	2,900	2,164	1,876	3,406	2,612	2,881	2,508

TABLE 21

Higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Colorado C.	544	671	1,198	1,248	1,229	1,823	2,247	1,775	2,215	2,560	2,233	2,291	5,467	3,646	2,498
La Sierra U.	545	ne	732	ne	ne	1,057	1,165	1,255	2,202	2,227	1,581	1,647	1,517	2,246	2,496 i
National Defense U.	546	ne	ne	ne	5,865	7,682	5,542	6,447	6,293	4,276	4,231	4,583	3,786	3,920	2,494
New England C. of Optometry	547	1,457	1,751	2,237	2,172	1,234	1,077	980	ne	1,026	1,223	1,150	1,978	1,868	2,491
Franklin W. Olin C. of Engineering	548	ne	1,016	1,777	1,157	1,561	2,136	1,762	1,553	1,254	1,655	1,404	1,627	2,554	2,450
Erikson Institute	549	ne	1,212	2,511	2,001	1,321	2,397	3,117	3,965	3,583	2,279	1,992	1,723	2,068	2,414
Wheaton C., Wheaton	550	ne	1,187	844	ne	1,302	783	ne	1,270	1,751	2,173	1,322	729	ne	2,403
Stockton U.	551	ne	1,455	927	ne	1,374	1,452	807	ne	2,560	2,634	4,236	1,246	1,657	2,386
Skidmore C.	552	2,850	2,113	1,885	1,903	1,811	1,772	1,327	1,859	2,584	3,012	2,412	2,335	1,734	2,384
Hobart and William Smith Colleges	553	1,434	1,566	1,516	2,238	1,221	946	ne	952	ne	1,919	2,114	1,941	3,228	2,373
Virginia Military Institute	554	849	374	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,746	2,350
Benedict C.	555	1,533	3,009	2,754	2,664	2,479	1,373	1,653	1,676	1,934	1,269	649	ne	ne	2,307
California State U., Stanislaus	556	ne	1,487	1,881	1,342	1,136	1,080	1,248	1,365	1,394	1,477	1,843	2,085	1,966	2,305
Dillard U.	557	8,425	7,936 i	7,448	7,741	6,939	9,387	9,566	7,095	6,573	2,772	2,523	2,528	2,270	2,296
U. of St. Thomas (MN)	558	1,330	1,316	1,030	1,424	916	ne	1,266	1,241	1,645	1,870	2,679	5,146	2,476	2,280
Furman U.	559	2,311	2,184	2,049	2,199	1,600	1,928	1,869	2,051	2,064	1,628	2,101	2,431	2,650	2,267
Northeastern Illinois U.	560	711	533	ne	ne	703	ne	ne	1,403	2,442	2,478	2,018	1,913	2,224	2,262
Black Hills State U.	561	2,883	1,643	2,466	3,061	2,380	2,430	2,833	2,109	1,571	2,031	1,499	1,280	1,987	2,260
Florida Polytechnic U.	561	na	na	na	na	na	212	ne	ne	ne	2,006	1,091	1,269	1,725	2,260
U. South Carolina, Aiken	563	337	750	ne	1,309	1,133	1,154	1,445	2,961	2,602	2,481	2,590	2,042	2,595	2,250
U. of the Incarnate Word	564	ne	667	ne	ne	ne	848	ne	ne	1,338	1,800	1,469	1,982	2,064	2,245
C. Wooster	565	988	1,225	966	ne	1,321	1,245 i	ne	1,644	1,494	1,758	1,076	1,396 i	1,717	2,209
U. Louisiana, Monroe	566	2,884	2,812	2,469	2,781	2,267	1,672	2,441	2,297	2,123	2,364	2,362	2,198	3,128	2,203
U. Wisconsin-Eau Claire	567	1,950	1,406	1,362	1,235	915	ne	1,238	1,641	1,227	1,530	1,318	1,852	1,628	2,191
U. Ana G. Mendez, Gurabo	568	6,620	7,098	6,953	6,916	2,694	2,473	2,518	1,777	1,579	3,945	2,049	1,574	1,419	2,132
U. Houston-Clear Lake	569	1,279	1,746	1,769	1,542	1,716	1,535	1,578	1,779	1,251	1,370	1,363	1,716	1,800	2,127
Bates C.	570	1,590	1,897	2,070	2,514	1,584	2,791	1,781	1,853	1,635	2,135	2,303	2,620	2,468	2,118
U. Wisconsin-Oshkosh	571	1,556	2,384	2,331	2,167	1,935 i	1,703 i	ne	1,507 i	1,544 i	1,581 i	1,618 i	1,656	1,990	2,087
U. Puerto Rico, Humacao	572	1,971 i	1,976	1,949	1,455	1,145	784	ne	ne	1,168	1,195	1,456	1,321	1,448	2,074
Northwestern State U. Louisiana	573	1,464	1,189	1,102	1,022	792	ne	1,628	1,373	1,623	2,058	1,940	1,663	1,848	2,057 i
Utah Valley U.	574	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,895	2,015

TABLE 21

Higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Lafayette C.	575	2,089	2,426	1,864	1,947	1,915	1,693	1,553	1,831	1,815	1,554	1,390	1,015	2,059	1,991
U. of the Pacific	576	6,120	4,704	5,291	4,563	4,088	2,734	3,013	2,155	3,014	3,078	1,713	1,371	1,835	1,972
U. Houston-Downtown	577	1,013	1,351	2,267	1,444	2,414	2,459	1,784	2,397	2,508	2,216	2,299	1,828	1,485	1,967
SUNY, Geneseo	578	1,373	2,677	2,132	1,201	1,084	1,314	1,750	1,758	1,939	2,139	1,642	2,070	2,091	1,958
Babson C.	579	ne	696	ne	ne	ne	ne	2,108	1,849	1,917	1,845	2,352	1,286	1,825	1,957
Lipscomb U.	580	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	307	321	ne	1,946
Macalester C.	581	4,389	4,653	1,721	1,457	1,455	1,286	1,562	1,916	1,404	1,808	1,755	1,280	1,691	1,935
Albany State U.	582	740	1,416	2,225	1,658	1,549	1,356	1,496	1,393	1,301	1,491	1,060	880	ne	1,932
Ferris State U.	583	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,915
Liberty U.	584	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,780	1,894	937	ne	1,900
Union C., Schenectady	585	1,984	1,615	1,516	2,402	1,924	1,560	2,150	1,189	1,540	1,740	1,062	1,396	1,479	1,881
SUNY, C. Brockport	586	831	1,248	1,487	1,321	1,192	1,367	1,335	1,289	1,293	1,390	1,719	1,114	1,500	1,877
Northern Michigan U.	587	910	841	ne	ne	ne	ne	1,118	1,339	1,728	1,520	1,523	1,364	1,888	1,871
Alaska Pacific U.	588	434	518	ne	ne	ne	1,246	1,358	1,248	1,544	1,774	1,261	1,036	1,607	1,823
U. Alaska, Southeast	589	1,759	1,274	1,382	1,559	1,512	1,588	1,808	1,621	1,641	1,341	1,264	1,176	1,570	1,822
Marshall B. Ketchum U.	590	ne	ne	ne	ne	1,030	1,468	1,491	1,512	1,451	1,430	1,357	1,351	1,559	1,777
Nevada State C.	591	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,191	1,744
Palmer C. of Chiropractic, Davenport	592	4,693	4,861	4,507	3,774	2,736	1,698	1,510	1,836	1,600	1,650	1,900	2,233	2,050	1,725
Drake U.	593	1,033	966	ne	918	ne	ne	1,558	1,215	1,103	865	ne	1,488	1,691	1,724
St. Olaf C.	593	1,574	1,130	1,518	1,242	1,353	1,346	1,605	1,539	1,155	1,010	1,032	816	ne	1,724
SUNY, C. Plattsburgh	595	1,664	1,098	913	ne	1,008	1,135	1,020	1,003	1,604	1,729	1,452	1,280	1,043	1,722
CUNY, York C.	596	ne	2,180	1,544	999	ne	716	ne	ne	ne	1,621	1,691	1,133	1,912	1,711
Savannah State U.	597	1,874	2,700	1,996	2,613	2,210	1,801	2,267	1,407	1,793	1,720	1,804	1,804	1,888	1,706
U. North Georgia	598	ne	ne	ne	ne	ne	ne	ne	2,064	2,465	2,068	1,905	1,415	1,734	1,643
Elizabeth City State U.	599	5,576	10,455	4,455	4,515	2,988	2,277	1,889	1,340	978	ne	1,473	1,717	1,934	1,641
Lincoln Memorial U.	599	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,641
Norwich U.	601	ne	1,583	1,498	1,825	1,857	1,985	1,249	878	ne	ne	ne	ne	ne	1,637
Colorado State U., Pueblo	602	413	364	ne	ne	ne	ne	ne	ne	ne	3,107	3,104	2,990	3,117	1,624
U. Puget Sound	603	461	530	ne	ne	ne	ne	ne	902	ne	ne	895	ne	1,051	1,613
Johnson C. Smith U.	604	ne	ne	ne	ne	ne	ne	2,094	2,255	2,468	2,148	2,472	2,578	2,685	1,602
SUNY, Oswego	605	783	977	ne	725	ne	ne	ne	1,658	1,982	1,781	1,534	1,003	1,209	1,595
Indiana U., South Bend	606	1,070	1,099	1,219	1,410	1,565	1,619	1,474	1,039	958	ne	ne	898	ne	1,593
Texas A&M U.-San Antonio	606	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,242	1,593
Bentley U.	608	ne	ne	ne	ne	ne	ne	ne	562	ne	ne	ne	ne	1,161	1,589

TABLE 21

Higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Whitman C.	609	1,415	1,142	849	ne	ne	ne	ne	ne	ne	1,083	865	ne	1,270	1,568
Merrimack C.	610	ne	ne	ne	ne	ne	ne	ne	ne	796	ne	503	ne	ne	1,560
Pratt Institute	611	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	2,547	2,325	1,558
Willamette U.	612	2,059	1,940	2,652	1,960	1,698	2,007	2,459	3,147	2,723	1,953	1,546	1,817	2,183	1,542
U. Hartford	613	1,137	2,419	2,007	1,807	1,606	1,701	1,803	1,801	1,073	1,528	1,436	1,252	1,090	1,533
U. Puerto Rico, Cayey	614	927	1,474	1,916	1,726	1,795	1,521	1,415	1,109	1,359	1,870	1,974	1,881	1,390	1,519
Hartford International U. for Religion and Peace	615	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,485
Fairfield U.	616	9,294	9,892	9,331 i	8,769	9,155	5,750	6,174	8,749	1,742	1,279	1,210	849	ne	1,484
U. Wisconsin-Platteville	617	681	715 i	ne	ne	1,000 i	970 i	ne	1,068 i	ne	1,084 i	1,104 i	1,144 i	1,349 i	1,481 i
Saint John's U.	618	640	891	ne	1,444	1,623	1,372	1,459	1,267	1,208	1,191 i	1,130 i	1,125 i	1,298 i	1,479 i
U. South Carolina, Beaufort	619	462	882	ne	ne	ne	892	ne	ne	ne	ne	ne	ne	ne	1,466
Biola U.	620	ne	ne	ne	ne	ne	ne	2,418 i	2,499 i	2,622 i	2,792 i	2,868 i	3,003 i	3,260	1,461
West Virginia School of Osteopathic Medicine	621	594	528	ne	ne	ne	ne	ne	ne	ne	ne	1,311	1,255	1,329	1,459 i
Eastern Connecticut State U.	622	ne	216	ne	ne	1,459	1,149	1,209	1,228	1,100	1,659	1,799	1,646	1,734	1,449
Eastern Kentucky U.	623	3,531	3,782	3,404	2,845	2,221	1,681	1,486	1,248	1,142	1,125	1,010	986	ne	1,446
Northland C.	624	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,096 i	1,265 i	1,442 i
Connecticut C.	625	1,532	1,801	1,740	1,842	1,966	1,900	1,972	1,875	1,349	1,894	1,598	1,244	1,875	1,440
Robert Morris U.	626	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,277 i	1,419
Clafin U.	627	3,252	5,439	5,255	2,661	1,818	1,255	1,772	1,360	1,509	1,746	1,910	1,015	1,179	1,418
Oberlin C.	628	1,985	1,710	1,856	1,670	1,819	1,932	1,305	1,887	1,803	2,076	1,182	776	ne	1,408
C. of Saint Benedict	629	ne	867	ne	1,347	1,451	1,179	1,305	1,122	1,142	1,126 i	1,069 i	1,064 i	1,228 i	1,400 i
Butler U.	630	ne	610	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,691	1,396
United Tribes Technical C.	631	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,387
U. Hawaii, Maui C.	632	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	967	ne	1,376
Kenyon C.	633	428	433	ne	ne	ne	ne	ne	ne	1,227	1,092	908	ne	1,330	1,371
National U. of Natural Medicine	634	ne	791	ne	ne	ne	ne	ne	921	ne	1,245	1,428	850	ne	1,336
St. Edward's U.	635	ne	7,160	5,906	8,040	3,975	9,515	9,325	10,149	10,431	9,650	9,619	9,527	3,393	1,334
Indiana State U.	636	1,541	1,980	1,857	1,238	1,436	1,541	1,763	1,284	1,323	1,682	1,471	1,042	1,354	1,327
Arcadia U.	637	1,649	1,888	956	ne	ne	ne	ne	ne	ne	ne	ne	889	ne	1,321
Radford U.	638	680	784	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,315
Andrews U.	639	1,195	854	ne	ne	ne	ne	ne	ne	ne	1,126	1,033	802	ne	1,255

TABLE 21

Higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023		
Heidelberg U.	640	ne	1,219	i	ne	1,129	1,539	1,109	1,286	1,621	1,280	1,237	1,125	1,725	1,184	1,254	
Manhattan C.	641	498	638	ne	ne	ne	ne	ne	ne	ne	1,190	1,307	1,864	1,641	1,250		
U. Virginia's C. Wise	642	481	336	ne	ne	ne	ne	ne	ne	ne	ne	ne	3,310	2,628	1,223		
Pennsylvania State U., Altoona	643	671	773	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,215		
U. Scranton	644	240	221	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,169		
Ursinus C.	645	540	594	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,150		
U. of Mary Washington	646	ne	1,374	907	ne	ne	690	ne	ne	1,242	1,315	1,393	1,123	1,229	1,115		
Western New England U.	646	ne	1,111	483	ne	ne	ne	1,291	610	ne	ne	ne	ne	2,052	1,115		
Gettysburg C.	648	814	669	ne	ne	ne	ne	ne	1,318	1,539	1,664	913	ne	ne	1,099		
New C. Florida	649	660	1,046	945	ne	897	ne	ne	998	ne	ne	ne	ne	ne	1,080		
Southern U., New Orleans	650	402	706	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,004		
Gustavus Adolphus C.	651	310	330	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	969		
Central Connecticut State U.	652	776	1,451	1,506	1,574	1,185	1,259	1,322	995	ne	1,381	1,572	1,314	1,035	934		
Canisius U.	653	221	205	ne	ne	ne	ne	ne	1,546	1,069	950	ne	1,036	1,160	905		
Ithaca C.	654	1,077	1,025	1,132	1,245	1,248	972	ne	ne	ne	ne	1,199	1,030	1,000	861		
Rhode Island C.	655	ne	8,027	10,389	10,385	8,938	10,080	9,943	9,030	9,287	9,480	10,094	10,990	11,127	839		
Framingham State U.	656	ne	ne	ne	ne	ne	ne	ne	1,901	164	ne	2,317	1,790	i	1,263	i	735
U.S. Coast Guard Academy	657	680	490	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	689		
U. Puerto Rico, Ponce	658	ne	160	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	659		
Lincoln U.	659	1,425	1,336	1,622	965	ne	ne	ne	ne	645	ne	ne	ne	ne	628		
Bryant U.	660	ne	316	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	558		
William Paterson U.	661	1,051	1,452	ne	ne	ne	ne	1,919	3,012	9,456	10,122	9,603	7,867	7,574	533		
Grambling State U.	662	993	2,135	2,179	1,695	1,469	1,863	1,570	5,911	2,981	2,836	2,427	2,124	1,287	i	449	
Albion C.	663	ne	799	ne	ne	ne	ne	ne	1,074	1,055	1,040	1,132	847	i	562	i	276
St. Mary's C. Maryland	664	342	427	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	205		
All other surveyed institutions	-	2,221,768	2,667,289	2,667,570	2,584,683	1,937,973	1,950,750	2,001,304	2,099,138	2,201,078	1,228,601	1,179,501	596,881	580,130	0		

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

^a Johns Hopkins University includes the Applied Physics Laboratory, with \$2,333,049 thousand in total R&D expenditures in FY 2023.^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.^c The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

^d The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

^e The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

^f The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

^g Touro University, New York includes the Lovelace Biomedical Research Institute. In FY 2023, the Lovelace Biomedical Research Institute joined the Touro University System.

Note(s):

Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
All institutions	-	108,681,008	59,603,993	5,437,566	27,654,829	6,221,128	6,671,012	3,092,480
Johns Hopkins U. ^a	1	3,801,585	3,324,551	10,271	164,758	126,685	168,401	6,919
U. California, San Francisco	2	2,046,539	858,066	45,056	505,006	143,206	313,964	181,241
U. Pennsylvania	3	1,953,617	936,469	27,849	642,815	203,003	134,455	9,026
U. Michigan, Ann Arbor	4	1,925,875	1,041,430	1,934	679,205	113,903	80,894	8,509
U. Washington, Seattle	5	1,734,091	1,188,836	33,833	125,390	71,487	260,986	53,559
U. Wisconsin-Madison	6	1,731,949	816,814	125,524	542,782	46,133	153,068	47,628
U. California, Los Angeles	7	1,721,665	878,571	105,632	354,575	109,531	219,227	54,129
U. California, San Diego	8	1,705,410	1,083,790	70,790	250,973	96,416	109,398	94,043
U. North Carolina, Chapel Hill	9	1,549,617	907,710	61,576	407,817	58,179	92,573	21,762
Stanford U.	10	1,537,846	943,669	31,872	189,108	144,300	219,578	9,319
Duke U.	11	1,507,996	974,202	773	191,004	219,452	96,327	26,238
New York U.	12	1,457,424	787,204	9,599	327,502	73,289	118,376	141,454
Cornell U.	13	1,451,971	705,132	95,202	276,682	59,081	129,082	186,792
Ohio State U.	14	1,449,188	694,647	64,139	424,124	155,194	63,964	47,120
Harvard U.	15	1,435,218	639,953	4,250	488,906	71,497	202,605	28,007
Georgia Institute of Technology	16	1,405,080	1,083,903	128,291	61,494	94,476	31,073	5,843
U. Pittsburgh, Pittsburgh	17	1,398,078	916,735	11,421	315,634	43,372	64,516	46,400
U. Maryland ^b	18	1,385,302	825,546	57,007	401,833	37,011	54,377	9,528
Columbia U. in the City of New York	19	1,341,952	988,670	6,298	119,863	91,828	132,930	2,363
Yale U.	20	1,326,807	741,198	1,710	404,706	80,221	93,363	5,609
U. Minnesota, Twin Cities	21	1,320,183	702,483	76,395	386,198	55,081	40,764	59,262
Texas A&M U., College Station and Health Science Center	22	1,277,814	546,481	251,300	353,916	37,390	53,710	35,017
U. Texas M. D. Anderson Cancer Center	23	1,255,190	259,285	300,907	256,545	248,261	38,163	152,029
Vanderbilt U. and Vanderbilt U. Medical Center	24	1,253,156	751,019	3,821	357,729	86,265	39,591	14,731
U. Florida	25	1,250,201	529,391	193,910	389,065	42,055	58,010	37,770
Pennsylvania State U., University Park and Hershey Medical Center	26	1,206,793	781,303	49,379	265,205	29,300	29,539	52,067
Washington U., Saint Louis	27	1,168,861	758,464	571	188,985	129,843	89,041	1,957
U. Southern California	28	1,154,804	683,819	11,881	239,488	93,933	72,744	52,939
Northwestern U.	29	1,114,269	678,062	586	303,778	67,114	58,196	6,533
Emory U.	30	1,094,328	664,370	244	279,302	64,772	81,897	3,743
U. California, Berkeley	31	1,076,754	496,298	47,005	242,494	75,493	188,887	26,577
U. Texas, Austin	32	1,035,838	621,223	37,601	235,987	79,753	52,764	8,510
Massachusetts Institute of Technology	33	1,000,081	559,766	2,079	73,497	176,277	112,591	75,871

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Icahn School of Medicine at Mount Sinai	34	972,476	658,916	8,359	147,069	80,437	62,202	15,493
U. California, Davis	35	962,399	494,847	78,096	244,082	55,403	48,643	41,328
U. Arizona	36	955,424	434,700	37,173	304,671	25,328	31,154	122,398
Arizona State U.	37	903,779	340,880	102,208	310,531	24,693	99,781	25,686
Indiana U., Bloomington	38	853,056	432,223	5,804	303,085	36,938	69,773	5,233
Baylor C. of Medicine	39	847,305	440,345	34,061	282,695	33,100	57,104	0
Purdue U., West Lafayette	40	844,570	385,738	42,119	267,313	78,298	31,453	39,649
Michigan State U.	41	844,076	435,564	46,353	300,588	18,603	22,693	20,275
Rutgers, State U. New Jersey, New Brunswick	42	831,719	400,930	117,514	207,008	37,495	64,220	4,552
U. Illinois, Urbana-Champaign	43	821,023	460,491	24,473	234,686	44,275	35,768	21,330
U. Texas Southwestern Medical Center	44	800,391	336,126	95,710	191,493	46,325	66,076	64,661
U. Alabama, Birmingham	45	780,479	451,880	14,884	184,658	74,171	36,533	18,353
Boston U.	46	773,200	409,551	500	230,370	23,362	93,532	15,885
U. Utah	47	723,713	416,079	4,670	214,320	48,761	35,413	4,470
U. Virginia, Charlottesville	48	714,457	354,748	13,101	214,946	31,588	31,392	68,682
U. Cincinnati	49	698,642	391,943	7,782	185,586	49,685	44,304	19,342
U. Colorado Anschutz Medical Campus	50	686,026	474,523	28,973	52,000	59,129	51,546	19,855
U. Iowa	51	662,134	331,824	7,627	228,803	34,039	24,365	35,476
U. Colorado Boulder	52	651,924	538,715	5,264	42,462	15,045	18,275	32,163
North Carolina State U.	53	633,251	279,179	134,547	150,288	64,505	4,472	260
U. Chicago	54	628,302	476,689	3,902	46,651	44,990	53,670	2,400
U. Nebraska, Lincoln and Medical Center ^c	55	617,372	280,120	76,042	177,595	32,720	27,961	22,934
U. California, Irvine	56	609,614	335,393	19,360	132,261	46,182	33,514	42,904
Virginia Polytechnic Institute and State U.	57	598,113	282,152	78,279	179,590	35,761	13,021	9,310
U. Georgia	58	570,956	221,804	61,887	257,757	12,988	11,982	4,538
Case Western Reserve U.	59	553,740	431,736	11,202	80,506	4,659	23,331	2,306
Oregon Health and Science U.	60	517,742	374,043	1,348	48,537	53,139	40,419	256
Princeton U.	61	513,365	219,600	1,252	144,341	20,077	76,101	51,994
U. Miami	62	509,951	291,783	16,251	128,438	48,022	25,118	339
U. Kentucky	63	504,005	265,543	34,829	151,066	11,737	12,511	28,319
Colorado State U., Fort Collins	64	498,073	354,401	22,951	75,358	13,597	21,049	10,717
Uniformed Services U. of the Health Sciences	65	496,441	403,671	0	88,281	0	4,489	0
Scripps Research Institute	66	494,946	278,099	3,331	146,451	31,164	35,901	0
U. Illinois, Chicago	67	492,936	274,424	9,293	158,846	9,469	30,905	9,999

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
California Institute of Technology	68	490,672	310,519	3,870	53,950	35,867	29,024	57,442
Carnegie Mellon U.	69	484,757	279,954	3,623	128,082	47,152	15,669	10,277
U. Rochester	70	481,227	368,190	3,666	57,142	30,075	16,014	6,140
Virginia Commonwealth U.	71	479,930	184,852	47,846	207,023	22,681	17,458	70
SUNY, U. Buffalo	72	471,569	257,857	32,647	124,197	20,309	29,292	7,267
U. Kansas	73	466,222	211,111	44,851	152,432	30,988	13,436	13,404
U. Missouri, Columbia	74	462,435	217,091	65,868	146,211	15,816	11,225	6,224
U. South Florida	75	461,390	242,224	25,735	160,703	13,502	16,015	3,211
U. Oklahoma, Norman and Health Science Center	76	436,964	219,964	22,816	169,611	12,753	10,096	1,724
U. Delaware	77	428,128	202,469	13,161	188,645	5,204	8,191	10,458
Iowa State U.	78	420,823	195,394	34,183	156,282	21,246	13,084	634
Florida State U.	79	414,463	195,323	36,977	166,809	5,614	3,466	6,274
Utah State U.	80	401,437	322,336	27,831	30,207	9,204	813	11,046
U. Connecticut	81	390,165	238,701	5,973	117,252	11,251	12,293	4,695
Rockefeller U.	82	385,168	101,422	101	244,237	3,089	35,953	366
Louisiana State U., Baton Rouge	83	384,268	127,243	73,829	156,614	14,807	6,295	5,480
Washington State U.	84	378,744	207,086	61,333	84,199	12,077	12,411	1,638
U. Texas Health Science Center, Houston	85	374,105	197,759	48,815	66,008	17,466	34,341	9,716
Dartmouth C. and Dartmouth Hitchcock Medical Center	86	366,856	168,740	46	166,114	2,415	20,865	8,676
Wichita State U.	87	366,848	142,371	19,008	33,911	171,010	504	44
George Washington U.	88	360,260	162,892	1,890	141,746	5,655	30,534	17,543
Brown U.	89	353,591	239,744	32	63,031	6,120	34,721	9,943
Auburn U., Auburn	90	349,273	125,783	34,950	158,454	11,570	5,092	13,424
Medical C. Wisconsin	91	346,691	155,403	754	113,726	38,419	33,075	5,314
U. Tennessee, Knoxville	92	338,847	153,637	13,175	151,783	7,899	7,696	4,657
Oregon State U.	93	337,985	222,169	57,839	30,449	9,154	3,260	15,114
Georgetown U.	94	337,006	127,370	1,719	87,408	17,345	68,114	35,050
Albert Einstein C. of Medicine	95	336,238	230,151	2,032	81,552	5,637	16,866	0
Medical U. South Carolina	96	333,826	168,957	7,944	110,106	26,042	8,152	12,625
U. Notre Dame	97	331,943	147,985	712	115,906	14,640	25,449	27,251
U. Massachusetts, Medical School	98	326,731	223,490	2,975	50,479	21,942	20,295	7,550
SUNY, Stony Brook U.	99	324,531	192,448	15,436	92,936	10,779	10,329	2,603
Mississippi State U.	100	319,684	150,804	92,674	63,773	3,140	7,858	1,435
U. New Mexico	101	316,026	205,351	7,072	79,298	5,469	16,855	1,981

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Hawaii, Manoa	102	313,143	192,205	17,555	78,084	3,390	20,472	1,437
Wake Forest U.	103	308,972	204,713	7,673	26,886	33,508	23,868	12,324
Florida International U.	104	306,434	156,381	21,887	115,737	3,019	7,971	1,439
U. California, Santa Barbara	105	305,483	179,896	7,230	65,230	14,790	27,455	10,882
Temple U.	106	292,029	154,516	6,867	81,497	25,150	16,517	7,482
Northeastern U.	107	288,558	186,013	3,336	68,663	11,524	18,604	418
Woods Hole Oceanographic Institution	108	287,825	238,554	882	15,591	5,431	10,476	16,891
Clemson U.	109	286,503	129,955	29,268	100,954	21,139	5,110	77
SUNY, Polytechnic Institute	110	284,677	34,393	31,886	25,429	188,351	181	4,437
U. Texas Health Science Center, San Antonio	111	281,078	143,730	30,582	70,676	10,393	25,514	183
U. Massachusetts, Amherst	112	268,657	138,849	11,465	90,429	9,220	12,373	6,321
U. South Carolina, Columbia	113	262,207	124,330	13,916	110,716	3,629	7,960	1,656
Tulane U.	114	258,439	152,468	4,121	60,978	8,428	16,709	15,735
Thomas Jefferson U.	115	258,345	110,366	10,315	76,704	21,845	13,815	25,300
Rice U.	116	255,115	119,853	9,801	78,447	7,506	33,684	5,824
George Mason U.	117	252,239	125,437	4,311	66,769	8,346	40,831	6,545
Wayne State U.	118	250,911	128,521	6,525	81,136	5,339	25,618	3,772
Tufts U.	119	247,276	154,458	2,328	33,998	15,988	29,439	11,065
U. Central Florida	120	247,259	124,256	5,893	99,427	9,659	3,642	4,382
West Virginia U.	121	246,173	114,708	11,687	92,314	4,977	2,874	19,613
Texas Tech U.	122	240,107	58,922	28,095	122,202	15,461	14,994	433
Georgia State U.	123	237,493	91,331	4,392	125,011	3,269	12,131	1,359
U. Vermont	124	233,806	128,645	632	85,988	4,622	7,305	6,614
U. Texas Medical Branch	125	233,192	150,272	7,479	58,807	6,138	10,496	0
U. Houston	126	231,942	99,450	28,641	84,315	8,565	6,492	4,479
Montana State U., Bozeman	127	229,682	142,965	18,379	59,067	956	4,403	3,912
U. Dayton	128	228,723	216,729	1,274	861	8,193	1,022	644
Oklahoma State U., Stillwater	129	226,498	64,098	24,323	124,314	12,528	773	462
U. Louisiana, Lafayette	130	225,924	84,898	11,605	46,907	82,197	317	0
U. New Hampshire	131	223,683	152,377	1,031	52,786	8,471	7,984	1,034
U. Arkansas, Fayetteville	132	221,525	82,164	41,687	72,849	7,368	7,514	9,943
U. Louisville	133	220,568	100,890	8,924	73,255	9,580	6,261	21,658
U. Alaska, Fairbanks	134	218,041	156,702	7,674	42,733	5,505	2,814	2,613
Kansas State U.	135	217,992	82,610	43,122	73,427	7,647	9,860	1,326

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. California, Riverside	136	214,802	120,524	10,655	55,114	7,288	10,826	10,395
U. Arkansas for Medical Sciences	137	209,409	94,483	13,854	84,563	5,274	6,102	5,133
U. California, Santa Cruz	138	203,883	112,847	6,863	51,368	7,591	18,454	6,760
North Dakota State U.	139	190,330	53,339	51,819	76,422	1,292	1,215	6,243
U. Maine	140	188,690	92,870	17,694	67,941	5,043	3,260	1,882
U. Nevada, Reno	141	188,505	83,603	7,744	83,470	2,666	1,926	9,096
U. Alabama, Tuscaloosa	142	184,880	86,244	16,660	77,554	1,973	1,753	696
Syracuse U.	143	183,850	46,595	10,706	108,685	9,170	8,570	124
U. North Dakota	144	182,195	65,890	46,885	50,685	17,438	955	342
U. Mississippi	145	172,176	85,186	10,670	68,074	3,311	4,583	352
Drexel U.	146	169,583	108,724	4,464	43,396	1,727	8,475	2,797
U. Oregon	147	164,500	100,265	1,674	19,590	443	6,634	35,894
U. Alabama, Huntsville	148	163,428	126,040	5,071	30,635	731	689	262
New Jersey Institute of Technology	149	161,078	70,080	19,994	64,230	1,385	1,616	3,773
U. Texas, San Antonio	150	158,453	58,171	21,583	67,694	5,971	1,988	3,046
San Diego State U.	151	158,013	68,045	6,745	77,130	469	3,666	1,958
U. Wyoming	152	150,124	68,467	7,464	67,771	2,848	1,934	1,640
U. Texas, Arlington	153	147,265	56,337	28,343	50,435	5,284	4,708	2,158
U. Texas, Dallas	154	146,779	66,127	13,085	38,169	12,518	16,383	497
U. Texas, El Paso	155	145,724	70,873	16,687	44,987	1,268	1,770	10,139
U. Maryland, Baltimore County	156	144,262	86,573	8,087	42,409	2,469	3,332	1,392
U. Rhode Island	157	144,013	102,056	6,615	29,165	2,094	3,441	642
SUNY, Binghamton U.	158	141,685	31,601	6,115	96,213	4,067	242	3,447
SUNY, U. Albany	159	141,671	62,935	1,019	69,881	927	4,707	2,202
Texas State U.	160	141,291	44,297	4,667	83,686	1,378	7,106	157
Augusta U.	161	139,121	64,410	214	62,558	4,396	6,836	707
Brigham Young U., Provo	162	137,748	31,216	1,145	99,661	2,980	2,649	97
U. Idaho	163	135,901	61,531	47,894	20,377	1,846	852	3,401
U. Montana, Missoula	164	133,958	75,490	1,511	53,689	220	2,498	550
Rush U.	165	132,394	93,180	2,208	12,316	16,533	8,157	0
U. Tennessee, Health Science Center	166	130,472	70,676	6,816	34,783	4,183	6,814	7,200
New Mexico State U.	167	126,337	71,764	24,741	18,791	1,873	3,039	6,129
Rensselaer Polytechnic Institute	168	121,706	56,445	3,289	45,192	10,959	3,123	2,698
New Mexico Institute of Mining and Technology	169	118,735	100,873	10,189	3,375	3,346	324	628

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Cold Spring Harbor Laboratory	170	117,483	54,123	209	38,367	3,914	20,870	0
U. Massachusetts, Lowell	171	117,336	61,413	4,420	39,726	7,554	2,527	1,696
U. North Texas, Denton	172	106,665	30,017	5,695	63,577	1,907	2,170	3,299
Colorado School of Mines	173	104,297	68,795	1,804	14,035	11,399	3,388	4,876
Michigan Technological U.	174	103,819	52,102	1,236	40,859	6,632	968	2,022
Brandeis U.	175	103,653	46,654	406	41,318	661	10,730	3,884
Touro U., New York	176	100,547	40,008	0	7,152	53,387	0	0
U. Memphis	177	100,042	26,913	9,680	58,132	1,839	3,273	205
U. Nevada, Las Vegas	178	98,751	38,815	2,536	51,945	1,599	1,096	2,760
U. North Texas, Health Science Center	179	94,652	77,660	3,180	11,773	847	1,003	189
U. North Carolina, Charlotte	180	92,027	33,784	1,922	52,624	3,136	553	8
Cleveland State U.	181	87,941	56,550	2,913	19,420	3,494	5,423	141
Indiana U.-Purdue U., Indianapolis	182	87,648	39,869	3,029	34,236	3,434	6,776	304
Saint Louis U.	183	85,921	44,157	646	21,971	5,412	13,484	251
Howard U.	184	84,756	47,662	2,840	22,461	4,552	5,140	2,101
San Jose State U.	185	83,406	31,780	7,116	38,582	2,101	2,478	1,349
U. Texas Rio Grande Valley	186	82,444	25,068	4,367	37,248	569	15,016	176
Baylor U.	187	82,074	17,147	2,879	45,076	3,460	12,667	845
William & Mary	188	81,815	32,631	3,882	35,413	1,174	5,385	3,330
Boston C.	189	81,425	39,356	2,517	18,254	974	19,273	1,051
Van Andel Research Institute	190	80,748	30,934	2,597	36,082	155	4,149	6,831
Florida Atlantic U.	191	77,593	35,108	8,511	23,101	2,611	7,308	954
Northern Arizona U.	192	77,533	50,491	9,030	15,566	1,023	1,250	173
Naval Postgraduate School	193	77,364	62,715	0	13,261	654	67	667
American U.	194	76,041	17,462	2,193	44,220	603	9,510	2,053
U. Southern Mississippi	195	75,034	48,374	13,504	12,285	372	499	0
Rochester Institute of Technology	196	72,405	37,334	9,828	19,161	3,084	2,178	820
South Dakota State U.	197	71,340	28,897	17,795	6,156	1,432	3,251	13,809
Old Dominion U.	198	71,334	31,104	13,535	23,954	387	1,915	439
U. Massachusetts, Boston	199	70,978	27,098	7,176	27,225	2,400	6,733	346
Louisiana State U., Health Sciences Center, New Orleans	200	68,707	35,933	447	24,332	3,478	4,235	282
U. Toledo	201	67,656	37,872	1,615	22,250	2,292	3,230	397
East Carolina U.	202	67,082	30,851	371	28,495	4,648	2,267	450
Worcester Polytechnic Institute	203	66,353	37,736	2,141	20,202	4,072	1,380	822

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Florida A&M U.	204	65,159	54,363	2,851	6,503	586	856	0
U. California, Office of the President	205	63,629	25	41,345	22,143	0	0	116
CUNY, City C.	206	63,159	38,669	11,846	10,996	223	1,047	378
North Carolina A&T State U.	207	62,307	37,152	2,075	21,880	628	292	280
U. California, Merced	208	62,279	28,576	6,985	20,709	1,294	2,464	2,251
Missouri U. of Science and Technology	209	61,496	32,457	682	17,847	3,907	1,037	5,566
U. Puerto Rico, Medical Sciences Campus	210	61,235	46,789	406	10,781	3,259	0	0
U. Wisconsin-Milwaukee	211	60,712	25,612	17,207	13,084	1,431	1,450	1,928
Stevens Institute of Technology	212	60,685	44,036	2,069	9,833	3,397	929	421
Ohio U.	213	59,877	21,919	1,041	31,828	3,767	1,011	311
Southern Methodist U.	214	59,749	19,986	1,393	33,204	1,601	3,399	166
Kent State U.	215	58,984	17,959	1,021	37,300	753	1,872	79
Southern Illinois U., Carbondale	216	58,291	17,209	3,522	29,972	6,916	672	0
Morehouse School of Medicine	217	57,125	41,069	987	10,710	0	4,359	0
Air Force Institute of Technology	218	56,848	45,087	0	11,659	102	0	0
Lehigh U.	219	56,301	39,909	2,479	11,921	893	1,081	18
U. Missouri, Kansas City	220	54,565	28,115	336	20,030	582	934	4,568
CUNY, Graduate Center	221	54,089	2,792	428	45,484	127	4,450	808
U. Denver	222	53,484	33,148	4,909	5,028	1,978	7,038	1,383
U. Maryland Center for Environmental Science	223	53,233	15,378	26,509	9,309	198	1,563	276
SUNY, Upstate Medical U.	224	53,219	30,069	2,231	11,303	6,335	2,054	1,227
U. South Alabama	225	53,182	28,637	683	19,291	1,300	2,422	849
Boise State U.	226	52,989	35,801	3,473	12,190	426	704	395
Loyola U., Chicago	227	52,445	29,712	242	12,892	4,302	4,062	1,235
Nova Southeastern U.	228	50,173	11,637	3,862	32,874	543	762	495
Texas Tech U., Health Sciences Center	229	48,638	14,732	18,670	9,432	608	3,205	1,991
Marquette U.	230	47,819	20,055	246	18,010	879	2,385	6,244
Rowan U.	231	47,810	18,454	6,659	20,501	1,230	966	0
Catholic U. of America	232	47,022	35,502	1,147	7,957	264	2,124	28
Portland State U.	233	46,324	31,731	5,312	5,753	708	2,244	576
Mercer U.	234	45,247	29,944	58	8,973	3,247	187	2,838
Western Michigan U. and Homer Stryker M.D. School of Medicine	235	45,157	12,631	1,216	25,832	3,280	603	1,595
U.S. Air Force Academy	236	44,880	44,056	0	0	357	0	467
U. North Carolina, Greensboro	237	44,521	31,581	363	10,750	450	1,055	322

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Morgan State U.	238	43,868	30,451	5,582	5,635	721	644	835
East Tennessee State U.	239	42,335	10,776	2,889	24,910	130	3,601	29
U. Massachusetts, Dartmouth	240	42,018	13,742	2,933	21,993	1,808	1,267	275
Chapman U.	241	41,791	10,015	303	23,533	383	7,481	76
U. West Florida	242	40,454	17,954	542	20,955	601	402	0
Georgia Southern U.	243	40,026	3,562	521	30,268	5,367	270	38
Texas A&M U.-Corpus Christi	244	39,305	17,742	10,790	5,118	230	2,783	2,642
Montclair State U.	245	38,209	5,916	707	29,934	26	1,621	5
Oakland U.	246	37,263	9,600	3,066	15,987	4,953	1,636	2,021
CUNY, Hunter C.	247	37,172	22,124	3,037	9,506	739	1,293	473
California Polytechnic State U., San Luis Obispo	248	35,830	14,810	4,997	12,550	1,205	2,182	86
Louisiana State U., Health Sciences Center, Shreveport	249	35,624	18,742	158	8,014	3,715	4,995	0
SUNY, Downstate Health Sciences U.	250	35,600	28,543	0	3,431	313	3,005	308
San Francisco State U.	251	34,466	16,507	1,978	14,434	0	1,536	11
Teachers C., Columbia U.	252	34,183	11,871	3,953	NA	1,428	14,239	2,692
Marshall U.	253	33,693	19,797	1,606	10,608	510	1,172	0
Delaware State U.	254	33,499	24,167	4,093	3,975	48	1,181	35
Illinois Institute of Technology	255	33,021	28,027	154	2,045	1,292	858	645
Illinois State U.	256	32,961	13,612	2,429	16,099	152	664	5
SUNY, C. of Environmental Science and Forestry	257	32,682	9,231	14,316	6,234	515	1,073	1,313
Kennesaw State U.	258	32,497	5,908	563	24,976	157	893	0
U. Texas Health Science Center, Tyler	259	32,077	12,555	10,087	3,795	172	5,468	0
Louisiana Tech U.	260	31,676	8,118	2,220	19,098	722	0	1,518
Villanova U.	261	31,513	8,741	1,405	17,513	622	3,165	67
U. Nebraska, Omaha	262	30,841	22,096	3,184	4,886	61	512	102
Desert Research Institute	263	30,716	20,061	1,657	4,378	802	2,890	928
U. South Dakota	264	29,855	14,101	1,798	13,128	44	782	2
Rutgers, State U. New Jersey, Newark	265	29,787	16,315	1,073	9,143	195	2,880	181
U. Puerto Rico, Rio Piedras	266	29,202	16,053	81	12,414	252	375	27
Northern Illinois U.	267	29,134	10,849	1,299	15,720	705	469	92
Creighton U.	268	28,443	12,681	3,943	9,597	1,033	467	722
Miami U.	269	28,430	10,724	2,483	12,745	1,350	1,066	62
Tennessee State U.	270	28,246	15,983	1,177	10,740	155	187	4
California State U., Sacramento	271	28,027	11,284	10,056	5,821	26	556	284

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Embry-Riddle Aeronautical U.	272	27,451	23,733	205	862	1,041	161	1,449
CUNY, Graduate School of Public Health and Health Policy	273	26,651	13,413	9,353	1,330	1,057	1,451	47
Texas A&M U.-Kingsville	274	26,401	9,584	7,058	3,311	487	5,932	29
Wright State U.	275	26,189	19,081	1,158	4,837	513	360	240
California State U., Fullerton	276	25,811	6,049	205	18,925	204	428	0
Tuskegee U.	277	25,625	16,023	3,565	2,539	0	0	3,498
U. Minnesota, Duluth	278	25,534	7,533	6,410	11,092	381	63	55
CUNY, Queens C.	279	25,492	17,811	1,345	5,536	8	710	82
Clarkson U.	280	25,399	10,611	3,910	9,214	1,093	406	165
Central Michigan U.	281	25,363	9,591	0	13,833	408	852	679
Florida Gulf Coast U.	282	24,899	9,858	9,477	3,533	108	1,891	32
U. Tulsa	283	24,845	8,545	306	8,079	6,766	1,149	0
Texas Christian U.	284	24,050	7,627	658	12,066	2,491	1,069	139
Eastern Virginia Medical School	285	23,991	17,947	329	3,650	1,277	612	176
Fordham U.	286	23,832	4,687	0	16,377	3	1,957	808
Tarleton State U.	287	23,345	5,478	4,392	12,689	286	500	0
U. North Florida	288	23,269	8,113	1,436	12,378	825	293	224
Albany Medical C.	289	23,259	14,193	120	3,464	3,956	1,360	166
California State U., Northridge	290	23,093	19,169	1,152	1,278	113	1,381	0
CUNY, John Jay C. of Criminal Justice	291	22,967	7,452	6,104	5,096	111	3,124	1,080
New School	292	22,680	1,337	708	3,483	56	16,080	1,016
U. Colorado Denver	293	22,530	17,181	2,387	513	846	1,258	345
U. Guam	294	22,388	18,992	2,252	1,083	59	2	0
Loma Linda U.	295	22,262	12,485	745	4,913	1,469	2,634	16
Meharry Medical C.	296	22,002	18,398	0	603	64	2,937	0
Southern Illinois U., Edwardsville	297	21,927	3,621	1,684	15,854	752	14	2
U. North Carolina, Wilmington	298	21,879	8,116	8,296	3,028	1,640	656	143
Prairie View A&M U.	299	21,791	12,354	4,391	3,550	490	1,006	0
U. Akron	300	21,525	10,709	190	7,434	1,836	746	610
California State U., Long Beach	301	21,458	13,758	1,930	3,618	149	1,468	535
California State U., East Bay	302	21,312	8,508	433	9,969	0	2,381	21
James Madison U.	303	21,265	3,475	925	16,041	18	780	26
Tennessee Technological U.	304	20,797	9,975	5,675	4,623	120	116	288
Bowling Green State U.	305	20,726	8,208	2,160	9,214	233	911	0

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U.S. Military Academy	306	20,493	19,390	0	66	269	700	68
U. New Orleans	307	20,396	5,283	897	12,325	491	267	1,133
South Dakota School of Mines and Technology	308	20,337	14,640	2,673	2,381	286	35	322
U. of the Virgin Islands	309	20,259	19,127	1,010	NA	48	74	0
U. Alaska, Anchorage	310	19,850	12,646	2,175	3,798	283	537	411
Charles R. Drew U. of Medicine and Science	311	19,551	13,297	886	3,758	0	1,610	0
Jackson State U.	312	19,457	16,443	0	1,601	4	1,375	34
Alcorn State U.	313	19,141	10,996	5,206	2,894	24	21	0
California State Polytechnic U., Humboldt	314	18,800	3,280	3,338	5,724	437	3,094	2,927
North Carolina Central U.	315	18,477	15,188	1,085	NA	494	883	827
Montana Technological U.	316	18,375	9,585	5,503	3,057	230	0	0
Idaho State U.	317	17,548	9,230	3,042	4,362	605	196	113
CUNY, Advanced Science Research Center	318	17,309	11,916	761	2,201	451	1,574	406
Towson U.	319	17,198	3,653	369	12,449	79	622	26
New York Medical C.	320	17,113	8,226	1,326	1,064	3,319	2,169	1,009
Florida Institute of Technology	321	16,859	11,520	768	4,253	142	176	0
Long Island U.	322	16,612	1,993	0	13,844	90	569	116
Texas Southern U.	323	16,287	10,969	1,227	4,042	0	49	0
Western Washington U.	324	15,874	6,598	1,504	5,107	66	2,520	79
Alabama A&M U.	325	15,588	12,197	162	2,848	381	0	0
Fort Valley State U.	326	15,536	7,505	8,031	0	0	0	0
Xavier U. Louisiana	327	15,519	12,833	722	1,161	0	803	0
Duquesne U.	328	14,989	6,555	1,055	4,349	275	2,755	0
U. Tennessee, Chattanooga	329	14,671	6,003	893	6,585	252	381	557
Missouri State U.	330	14,654	12,973	84	1,387	20	172	18
Salisbury U.	331	14,557	5,049	5,551	3,904	0	53	0
U. Hawaii, system office	332	14,172	14,150	0	22	0	0	0
Loyola Marymount U.	333	14,086	2,921	1,096	7,708	84	2,277	0
U. Puerto Rico, Mayaguez	334	13,989	12,260	193	421	455	660	0
Virginia State U.	335	13,504	7,166	3,051	2,566	0	713	8
DePaul U.	336	13,267	5,592	807	3,512	372	2,911	73
Texas Tech U., Health Sciences Center, El Paso	337	13,189	2,415	3,097	6,947	229	501	0
California State U., San Bernardino	338	13,152	7,606	2,799	2,051	1	695	0
Northeast Ohio Medical U.	339	13,116	8,873	202	3,440	0	601	0

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. San Diego	340	12,902	3,501	684	7,498	69	542	608
U. Missouri, Saint Louis	341	12,808	4,569	82	5,245	105	2,190	617
Midwestern U.	342	12,725	2,862	92	9,430	76	265	0
Oklahoma State U., Center for Health Sciences	343	12,500	4,773	40	7,600	11	76	0
Sam Houston State U.	344	11,760	3,307	579	6,787	235	315	537
Ball State U.	345	11,650	6,355	396	3,956	637	306	0
Rosalind Franklin U. of Medicine and Science	346	11,629	7,124	62	3,270	565	608	0
Kentucky State U.	347	11,591	7,605	3,969	NA	17	0	0
Clark U.	348	11,539	2,235	231	5,610	81	1,804	1,578
California State U., San Marcos	349	11,443	9,845	1,171	326	0	101	0
California State U., Fresno	350	11,411	4,864	1,394	3,770	238	1,120	25
Central State U.	351	11,123	5,523	3,857	1,743	0	0	0
U.S. Naval Academy	352	10,920	10,260	0	0	0	221	439
U. Michigan, Dearborn	353	10,839	3,464	0	4,361	2,601	331	82
Wesleyan U.	354	10,828	5,955	0	3,515	221	688	449
U. Maryland, Eastern Shore	355	10,730	10,201	237	266	0	24	2
California State Polytechnic U., Pomona	356	10,722	8,162	881	1,438	171	70	0
Pacific U.	357	10,719	7,133	1,098	2,053	70	365	0
California State U., Monterey Bay	358	10,678	5,639	2,125	2,706	64	144	0
Pepperdine U.	359	10,632	674	1	7,179	0	2,771	7
Langston U.	360	10,505	5,473	19	4,583	430	0	0
Clark Atlanta U.	361	10,320	7,687	0	2,523	79	31	0
West Texas A&M U.	362	10,302	2,118	4,772	2,243	1,135	34	0
California State U., Los Angeles	363	10,186	8,973	108	788	0	317	0
Kean U.	364	10,062	1,870	134	7,954	15	89	0
Gallaudet U.	365	9,894	5,523	25	3,462	0	526	358
Hampton U.	366	9,769	9,445	0	324	0	0	0
U. San Francisco	367	9,633	1,015	532	6,848	0	279	959
Middle Tennessee State U.	368	9,577	3,822	488	4,173	143	943	8
Rutgers, State U. New Jersey, Camden	369	9,527	3,042	1,842	3,214	544	860	25
Western Kentucky U.	370	9,298	3,401	790	4,906	78	123	0
Lamar U.	371	9,168	2,259	6,124	277	342	166	0
U. Northern Colorado	372	9,064	1,705	202	6,848	69	240	0
Bryn Mawr C.	373	9,039	1,289	0	7,105	16	629	0

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Western U. of Health Sciences	374	8,929	6,099	1,635	238	457	500	0
U. Arkansas, Little Rock	375	8,685	7,544	218	69	513	134	207
Saint Joseph's U.	376	8,675	2,680	1,129	1,657	2,517	434	258
Winston-Salem State U.	377	8,668	7,901	374	0	0	336	57
Yeshiva U.	378	8,661	1,229	0	6,104	0	1,008	320
CUNY, Brooklyn C.	379	8,535	5,518	838	1,998	44	119	18
Appalachian State U.	380	8,479	3,497	134	3,123	702	1,006	17
Eastern Michigan U.	381	8,363	2,521	72	5,463	0	297	10
Lincoln U., Jefferson City	382	8,196	4,610	3,552	34	0	0	0
Abilene Christian U.	383	8,182	946	0	194	6,934	108	0
Hofstra U.	384	8,162	1,995	237	5,786	0	144	0
Amherst C.	385	8,152	2,869	0	3,104	0	235	1,944
U. Hawaii, Hilo	386	8,112	6,068	22	809	59	940	214
Southern Connecticut State U.	387	8,007	1,433	136	5,810	68	239	321
U. of the District of Columbia	388	7,945	7,367	384	48	0	131	15
U. Central Oklahoma	389	7,870 i	2,071 i	833 i	4,867 i	95 i	3 i	1 i
South Carolina State U.	390	7,814	5,330	1,531	890	0	63	0
U. Arkansas, Pine Bluff	391	7,766	4,204	1,294	2,219	41	8	0
Southern U. and A&M C., Agricultural Research and Extension Center	392	7,764	4,688	3,037	24	0	15	0
Pennsylvania State U., Behrend	393	7,614	4,378	388	1,823	708	308	9
Edward Via C. of Osteopathic Medicine	394	7,597	678	136	6,699	0	84	0
Grinnell C.	394	7,597	1,082	0	5,816	0	239	460
Purdue U., Northwest	396	7,504	3,409	996	1,604	597	236	662
Philadelphia C. of Osteopathic Medicine	397	7,459	442	59	2,848	2,547	1,563	0
MGH Institute of Health Professions	398	7,426	6,200	0	20	0	1,206	0
Arkansas State U., Jonesboro	399	7,323	3,083	3,419	561	260	0	0
Claremont Graduate U.	400	7,262	1,422	354	984	2,709	1,228	565
C. Charleston	401	7,231	5,036	274	1,285	64	571	1
Seton Hall U.	402	7,068	2,778	2,633	1,195	104	211	147
Texas A&M U.-Commerce	403	7,029	1,936	809	3,726	3	494	61
U. Colorado Colorado Springs	404	7,012	5,205	29	1,042	523	207	6
Claremont McKenna C.	405	6,925	1,035	62	5,293	0	485	50
Texas Woman's U.	406	6,922	2,439	2,136	1,396	166	785	0
Hope C.	407	6,910	3,639	0	1,678	0	1,308	285

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. North Carolina, Asheville	408	6,761	3,323	547	615	126	2,148	2
U. New England	409	6,756	4,777	2	1,548	29	395	5
Reed C.	410	6,750 i	2,420 i	44 i	3,745 i	0 i	391 i	150 i
U. Baltimore	411	6,615	4,250	1,819	NA	20	422	104
Williams C.	412	6,448 i	1,455 i	0 i	2,164 i	0 i	178 i	2,651 i
California State U., Bakersfield	413	6,409	3,525	154	2,580	0	150	0
Barnard C.	414	6,320	4,235	0	1,006	8	1,071	0
Wellesley C.	414	6,320	2,921	449	NA	80	2,628	242
U. Washington, Tacoma	416	6,243	3,875	1,393	278	1	520	176
Grand Valley State U.	417	6,231	1,808	450	2,906	0	584	483
Norfolk State U.	418	6,194	4,381	574	677	182	380	0
Northwest Indian C.	419	6,184 i	4,595 i	0 i	1,589 i	0 i	0 i	0 i
West Chester U. Pennsylvania	420	6,132	1,386	54	4,176	124	392	0
Azusa Pacific U.	421	6,097	140	40	5,545	35	273	64
Roseman U. of Health Sciences	422	6,065	38	0	5,953	67	7	0
Indiana U. Pennsylvania	423	6,052	1,702	532	3,293	17	508	0
U.S. Army War C.	424	6,035 i	6,035 i	0 i	0 i	0 i	0 i	0 i
California State U., Chico	425	5,984	3,152	1,130	636	18	97	951
Smith C.	426	5,954	3,013	0	2,179	253	509	0
High Tech High Graduate School of Ed.	427	5,939	0	0	0	0	5,939	0
U. Southern Maine	428	5,930	2,598	3,070	185	0	72	5
CUNY, Lehman C.	429	5,918	4,487	0	782	365	181	103
Bucknell U.	430	5,887	2,359	61	2,031	299	235	902
U. Oklahoma, Tulsa	431	5,826	1,328	330	2,963	124	1,054	27
Naval War C.	432	5,819	5,819	0	0	0	0	0
New York Institute of Technology	433	5,790	3,252	125	2,146	60	207	0
Morehouse C.	434	5,750	5,750	0	NA	0	0	0
U. Washington, Bothell	435	5,738	3,787	617	486	1	667	180
Santa Clara U.	436	5,679	3,448	372	NA	364	1,424	71
Swarthmore C.	437	5,620	2,315	6	2,578	0	697	24
Texas A&M International U.	438	5,602	1,966	1,011	1,542	170	913	0
Oregon Institute of Technology	439	5,585 i	1,375	3,931 i	NA	97 i	182 i	0
California State U., Dominguez Hills	440	5,558	2,457	870	1,996	41	52	142
Providence C.	441	5,533	4,648	0	582	0	303	0

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	442	5,324	273	0	5,021	0	30	0
Trinity U.	443	5,296	2,203	2	1,238	0	1,834	19
Dakota State U.	444	5,253	2,437	231	660	692	25	1,208
West Virginia State U.	445	5,226	2,800	1,804	521	0	101	0
Southern U. and A&M C., Baton Rouge	446	5,201	4,444	75	34	648	0	0
Suffolk U.	447	5,164	893	737	3,303	0	231	0
Pennsylvania State U., Harrisburg	448	5,159	3,045	887	742	178	303	4
U. Detroit Mercy	449	5,142	4,434	0	529	140	39	0
Colgate U.	450	4,930	1,521	0	3,041	305	63	0
Sul Ross State U.	451	4,878	1,568	1,223	1,804	0	283	0
U. Central del Caribe	451	4,878	2,929	524	1,270	0	0	155
Spelman C.	453	4,877	4,567	0	0	0	310	0
Fisk U.	454	4,867	3,819	240	304	0	504	0
U. Wisconsin-Superior	455	4,825	3,559	81	1,062	87	36	0
Sacred Heart U.	456	4,733	639	0	3,892	0	202	0
CUNY, C. Staten Island	457	4,730	3,296	224	975	41	109	85
Coastal Carolina U.	458	4,729	1,847	1,004	1,694	0	184	0
Occidental C.	459	4,718 i	2,967 i	559 i	NA	554 i	638 i	0 i
Toyota Technological Institute, Chicago	460	4,636	2,127	0	1,633	321	463	92
Lawrence Technological U.	461	4,632	1,786	937	784	183	942	0
Sonoma State U.	462	4,625	3,483	585	321	46	190	0
U. Wisconsin-Stevens Point	463	4,589	2,079	948	997	0	302	263
U. Northern Iowa	464	4,564	2,975	541	911	0	137	0
Colby C.	465	4,454	3,011	0	580	0	356	507
SUNY, C. of Optometry	466	4,423	2,469	0	594	1,328	10	22
U. of Health Sciences and Pharmacy in St. Louis	467	4,343	3,110	0	1,060	84	89	0
CUNY, system office	468	4,296	2,901	413	730	18	234	0
Carleton C.	469	4,185	2,800	0	483	0	902	0
Alfred U.	470	4,154	1,958	1,596	242	330	28	0
Pomona C.	471	4,149	1,205	0	2,659	0	285	0
Franklin and Marshall C.	472	4,111	1,469	241	1,273	371	543	214
Trinity C., Hartford	473	4,099	687	0	3,330	7	75	0
Haverford C.	474	4,088	2,344	0	955	0	270	519
CUNY, Baruch C.	475	4,084	1,879	77	988	91	785	264

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Keck Graduate Institute	476	4,059	2,338	4	388	634	354	341
Pace U.	477	4,056	2,698	20	1,101	0	237	0
California State U., Channel Islands	478	3,992	1,773	1,086	737	219	177	0
St. John's U., New York	479	3,955	2,792	0	450	341	232	140
Austin Peay State U.	480	3,950	1,401	1,385	530	0	100	534
Seattle U.	481	3,949	1,165	78	2,223	55	428	0
Des Moines U.	482	3,932	556	7	3,225	0	144	0
Western Illinois U.	483	3,824	3,283	144	42	243	0	112
Northern Kentucky U.	484	3,790	2,413	77	1,113	6	181	0
Troy U.	485	3,785	3,069	81	398	1	203	33
Citadel Military C. South Carolina	486	3,757	3,287	159	258	0	0	53
Chicago State U.	487	3,756	3,756	0	0	0	0	0
Central Washington U.	488	3,683	2,499	650	282	85	132	35
Harvey Mudd C.	489	3,682	1,968	0	1,389	0	161	164
U. Nebraska, Kearney	490	3,681	1,739	590	1,307	25	0	20
Stephen F. Austin State U.	491	3,661	1,098	1,648	541	32	225	117
U. New Haven	492	3,602	2,227	629	204	24	487	31
Fayetteville State U.	493	3,569 i	1,847 i	536 i	1,005 i	130 i	51 i	0 i
Christopher Newport U.	494	3,507	2,055	0	1,218	94	140	0
U. Texas, Tyler	495	3,487	1,652	960	432	227	187	29
New Mexico Highlands U.	496	3,468	3,416	0	43	0	0	9
Roger Williams U.	497	3,465	1,973	102	912	72	406	0
Fort Lewis C.	498	3,372	2,816	23	143	6	384	0
Bowdoin C.	499	3,339	2,186	71	901	0	102	79
Milwaukee School of Engineering	500	3,317	722	0	71	2,509	15	0
Hamilton C.	501	3,285	413	0	1,813	0	819	240
Youngstown State U.	502	3,244	2,691	244	207	47	55	0
Alabama State U.	503	3,229	2,848	0	0	296	85	0
Murray State U.	504	3,193	2,058	29	993	79	34	0
Winthrop U.	505	3,189	2,358	54	707	7	63	0
Saginaw Valley State U.	506	3,143 i	2,503 i	0 i	476 i	6 i	138 i	20 i
U. Central Arkansas	507	3,092	1,824	583	615	40	11	19
U. Richmond	508	3,058	1,379	0	1,218	0	436	25
Minnesota State U., Mankato	509	3,055	905	196	1,537	0	45	372

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Dine C.	510	3,054	2,255	262	223	0	314	0
Marian U., Indianapolis	511	3,009	918	0	1,709	18	172	192
Pittsburg State U.	512	2,979	1,591	633	NA	755	0	0
Middlebury C.	513	2,975	2,564	10	25	0	376	0
East Stroudsburg U. Pennsylvania	514	2,928	909	1,421	546	0	52	0
Davidson C.	515	2,926	1,340	11	915	12	492	156
U. Wisconsin-La Crosse	516	2,921	714	804	639	709	44	11
Hawaii Pacific U.	517	2,913	1,942	0	179	438	344	10
St. Cloud State U.	518	2,901	689	305	719	835	145	208
Touro U., California	519	2,877	1,279	0	1,405	79	0	114
Southeastern Louisiana U.	520	2,858	1,366	237	758	472	25	0
CUNY, New York City C. of Technology	521	2,819	2,498	30	241	10	16	24
Purdue U., Fort Wayne	522	2,804	226	455	1,087	172	291	573
U. Wisconsin-Green Bay	523	2,801	1,222	556	868	52	103	0
U. Wisconsin-River Falls	524	2,772	551	1,832	39	213	0	137
U. Texas of the Permian Basin	525	2,769	1,013	525	832	190	7	202
Lewis and Clark C.	526	2,686	776	1	1,590	0	319	0
Tougaloo C.	527	2,663 i	2,643 i	4 i	4 i	4 i	4 i	4 i
Morehead State U.	528	2,658	1,718	381	11	530	18	0
C. New Jersey	529	2,641	1,755	72	482	0	332	0
SUNY, Buffalo State U.	530	2,636	1,615	765	222	0	17	17
Bowie State U.	531	2,612	2,469	143	0	0	0	0
Marymount U.	532	2,601	396	29	1,983	0	193	0
Vassar C.	533	2,596	1,204	20	872	0	490	10
Albany C. of Pharmacy and Health Sciences	534	2,594 i	1,256 i	0 i	882 i	287 i	169 i	0 i
SUNY, Cobleskill	535	2,566	730	1,832	0	4	0	0
Calvin U.	536	2,555	854	68	330	0	1,060	243
Eastern Washington U.	537	2,546	1,015	1,198	NA	8	221	104
Lake Superior State U.	538	2,545	1,475	166	720	66	37	81
Elon U.	539	2,544	479	0	1,989	0	20	56
Western Carolina U.	540	2,543	1,600	337	378	171	57	0
Mount Holyoke C.	541	2,533	1,612	125	504	0	292	0
Monmouth U.	542	2,517	762	657	280	168	612	38
U. Illinois, Springfield	543	2,508	1,057	426	818	0	207	0

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Colorado C.	544	2,498	611	0	1,000	0	887	0
La Sierra U.	545	2,496	1,066	0	734	0	696	0
National Defense U.	546	2,494	2,494	0	0	0	0	0
New England C. of Optometry	547	2,491	1,946	56	30	390	69	0
Franklin W. Olin C. of Engineering	548	2,450	641	0	639	230	837	103
Erikson Institute	549	2,414	1,245	0	178	0	991	0
Wheaton C., Wheaton	550	2,403	428	0	966	5	1,004	0
Stockton U.	551	2,386	688	711	815	36	74	62
Skidmore C.	552	2,384	1,288	0	510	0	586	0
Hobart and William Smith Colleges	553	2,373	1,019	526	572	0	136	120
Virginia Military Institute	554	2,350	1,534	296	510	0	10	0
Benedict C.	555	2,307	1,665	0	0	635	7	0
California State U., Stanislaus	556	2,305	1,150	513	168	468	6	0
Dillard U.	557	2,296	1,228	117	951	0	0	0
U. of St. Thomas (MN)	558	2,280	531	499	578	255	277	140
Furman U.	559	2,267	1,300	32	482	128	308	17
Northeastern Illinois U.	560	2,262	2,262	0	0	0	0	0
Black Hills State U.	561	2,260	1,918	82	258	0	2	0
Florida Polytechnic U.	561	2,260	1,172	141	723	183	41	0
U. South Carolina, Aiken	563	2,250	782	0	1,453	0	15	0
U. of the Incarnate Word	564	2,245	1,086	0	1,050	54	55	0
C. Wooster	565	2,209	594	0	775	0	840	0
U. Louisiana, Monroe	566	2,203	1,655	371	3	30	144	0
U. Wisconsin-Eau Claire	567	2,191	1,027	509	389	248	10	8
U. Ana G. Mendez, Gurabo	568	2,132	2,132	0	0	0	0	0
U. Houston-Clear Lake	569	2,127	1,273	251	48	533	22	0
Bates C.	570	2,118	1,455	0	349	0	272	42
U. Wisconsin-Oshkosh	571	2,087	1,249	136	545	157	0	0
U. Puerto Rico, Humacao	572	2,074	1,822	0	252	0	0	0
Northwestern State U. Louisiana	573	2,057	822	936	299	0	0	0
Utah Valley U.	574	2,015	1,671	279	36	14	15	0
Lafayette C.	575	1,991	1,141	23	687	5	135	0
U. of the Pacific	576	1,972	1,300	586	NA	9	77	0
U. Houston-Downtown	577	1,967	1,495	183	140	68	81	0

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
SUNY, Geneseo	578	1,958	1,292	9	491	0	52	114
Babson C.	579	1,957	224	0	758	78	131	766
Lipscomb U.	580	1,946	309	0	1,571	8	58	0
Macalester C.	581	1,935	1,094	58	508	0	275	0
Albany State U.	582	1,932	1,681	106	0	145	0	0
Ferris State U.	583	1,915	1,430	88	271	53	73	0
Liberty U.	584	1,900	532	5	1,315	48	0	0
Union C., Schenectady	585	1,881	729	0	1,048	17	34	53
SUNY, C. Brockport	586	1,877	813	155	610	0	290	9
Northern Michigan U.	587	1,871	560	25	1,079	1	80	126
Alaska Pacific U.	588	1,823	627	0	0	1,173	0	23
U. Alaska, Southeast	589	1,822	1,463	117	100	0	105	37
Marshall B. Ketchum U.	590	1,777 i	433 i	0 i	890 i	454 i	0 i	0 i
Nevada State C.	591	1,744	1,711	33	0	0	0	0
Palmer C. of Chiropractic, Davenport	592	1,725	1,500	0	225	0	0	0
Drake U.	593	1,724	954	368	340	34	26	2
St. Olaf C.	593	1,724	933	0	686	0	105	0
SUNY, C. Plattsburgh	595	1,722	1,121	0	530	0	69	2
CUNY, York C.	596	1,711	1,504	0	159	0	48	0
Savannah State U.	597	1,706	1,675	18	0	0	13	0
U. North Georgia	598	1,643	477	131	871	7	157	0
Elizabeth City State U.	599	1,641	1,093	403	NA	145	0	0
Lincoln Memorial U.	599	1,641	2	0	1,589	4	46	0
Norwich U.	601	1,637	1,366	5	261	0	5	0
Colorado State U., Pueblo	602	1,624	952	199	347	0	0	126
U. Puget Sound	603	1,613	1,300	0	138	0	175	0
Johnson C. Smith U.	604	1,602	1,554	0	48	0	0	0
SUNY, Oswego	605	1,595	894	49	595	1	32	24
Indiana U., South Bend	606	1,593	420	3	875	0	295	0
Texas A&M U.-San Antonio	606	1,593	1,233	51	51	4	224	30
Bentley U.	608	1,589	802	0	0	18	751	18
Whitman C.	609	1,568	449	0	676	0	443	0
Merrimack C.	610	1,560	892	0	336	0	247	85
Pratt Institute	611	1,558	50	878	0	0	630	0

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Willamette U.	612	1,542	490	0	961	0	91	0
U. Hartford	613	1,533	1,269	8	203	3	50	0
U. Puerto Rico, Cayey	614	1,519	733	0	412	0	374	0
Hartford International U. for Religion and Peace	615	1,485	0	0	0	0	1,485	0
Fairfield U.	616	1,484	180	0	751	0	553	0
U. Wisconsin-Platteville	617	1,481 i	465 i	378 i	249 i	339 i	39 i	11 i
Saint John's U.	618	1,479 i	0 i	0 i	1,479 i	0 i	0 i	0 i
U. South Carolina, Beaufort	619	1,466	889	43	417	0	117	0
Biola U.	620	1,461	0	0	9	0	1,298	154
West Virginia School of Osteopathic Medicine	621	1,459 i	500 i	12 i	947 i	0 i	0 i	0 i
Eastern Connecticut State U.	622	1,449	210	0	1,239	0	0	0
Eastern Kentucky U.	623	1,446	798	124	468	56	0	0
Northland C.	624	1,442 i	880 i	40 i	222 i	0 i	300 i	0 i
Connecticut C.	625	1,440	648	0	575	0	211	6
Robert Morris U.	626	1,419	664	79	632	22	22	0
Clafin U.	627	1,418	1,418	0	0	0	0	0
Oberlin C.	628	1,408	880	9	463	1	55	0
C. of Saint Benedict	629	1,400 i	58 i	0 i	1,342 i	0 i	0 i	0 i
Butler U.	630	1,396	1,077	0	199	20	100	0
United Tribes Technical C.	631	1,387	1,337	19	0	0	31	0
U. Hawaii, Maui C.	632	1,376	1,234	0	117	0	25	0
Kenyon C.	633	1,371	1,092	0	147	0	132	0
National U. of Natural Medicine	634	1,336	862	0	305	169	0	0
St. Edward's U.	635	1,334	315	186	762	0	71	0
Indiana State U.	636	1,327	980	83	212	32	11	9
Arcadia U.	637	1,321	772	182	0	0	367	0
Radford U.	638	1,315	109	135	903	13	155	0
Andrews U.	639	1,255	445	0	721	0	89	0
Heidelberg U.	640	1,254	197	799	243	0	15	0
Manhattan C.	641	1,250	422	222	460	146	0	0
U. Virginia's C. Wise	642	1,223	447	367	333	0	69	7
Pennsylvania State U., Altoona	643	1,215	297	6	666	91	144	11
U. Scranton	644	1,169	866	2	212	20	69	0
Ursinus C.	645	1,150	942	112	0	0	96	0

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. of Mary Washington	646	1,115	406	57	548	0	79	25
Western New England U.	646	1,115	538	54	302	89	132	0
Gettysburg C.	648	1,099	517	0	146	0	204	232
New C. Florida	649	1,080	146	0	367	425	142	0
Southern U., New Orleans	650	1,004	536	460	0	8	0	0
Gustavus Adolphus C.	651	969	467	9	107	181	54	151
Central Connecticut State U.	652	934	393	51	480	0	2	8
Canisius U.	653	905	411	0	0	0	494	0
Ithaca C.	654	861	453	130	178	0	42	58
Rhode Island C.	655	839	786	0	NA	0	53	0
Framingham State U.	656	735	700	0	35	0	0	0
U.S. Coast Guard Academy	657	689	278	0	287	0	124	0
U. Puerto Rico, Ponce	658	659	510	0	149	0	0	0
Lincoln U.	659	628	430	126	0	0	72	0
Bryant U.	660	558	436	0	122	0	0	0
William Paterson U.	661	533	168	0	350	4	11	0
Grambling State U.	662	449	377	52	20	0	0	0
Albion C.	663	276	226	0	0	50	0	0
St. Mary's C. Maryland	664	205	152	31	0	0	22	0

i = imputed. NA = not available; data were not provided by institution.

^a Johns Hopkins University includes the Applied Physics Laboratory, with \$2,333,049 thousand in total R&D expenditures in FY 2023.^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.^c The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.**Note(s):**Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#). For complete rankings of all institutions in both survey populations, see [table 5](#).**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 23

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	108,681,008	3,617,348	4,032,534	62,204,360	1,060,700	6,944,769	1,637,829	3,615,227	1,194,804	17,468,446	6,904,991
Johns Hopkins U. ^a	1	3,801,585	309,828	72,538	1,264,589	230,354	332,727	8,378	11,336	64,191	1,493,689	13,955
U. California, San Francisco	2	2,046,539	0	0	1,978,891	0	67,648	0	0	0	0	0
U. Pennsylvania	3	1,953,617	21,066	2,293	1,497,834	8,603	72,101	17,413	66,203	9,310	112,740	146,054
U. Michigan, Ann Arbor	4	1,925,875	17,076	19,164	1,116,866	21,033	70,259	23,483	217,488	5,664	324,306	110,536
U. Washington, Seattle	5	1,734,091	30,158	162,612	1,175,596	9,783	69,424	11,239	23,577	1,135	180,277	70,290
U. Wisconsin-Madison	6	1,731,949	38,571	77,933	1,058,529	8,838	113,636	13,198	75,982	57,926	171,445	115,891
U. California, Los Angeles	7	1,721,665	19,118	52,655	1,222,724	11,947	61,410	20,440	86,049	58,077	113,969	75,276
U. California, San Diego	8	1,705,410	37,484	245,278	1,043,913	5,471	105,927	13,623	23,568	0	176,720	53,426
U. North Carolina, Chapel Hill	9	1,549,617	41,385	34,095	1,141,727	4,894	51,933	56,582	95,692	139	49,721	73,449
Stanford U.	10	1,537,846	27,907	35,299	1,119,445	6,455	103,816	14,151	22,966	224	158,868	48,715
Duke U.	11	1,507,996	12,836	9,796	1,266,314	8,374	29,127	10,189	43,163	501	109,885	17,811
New York U.	12	1,457,424	16,701	732	1,065,030	19,747	30,409	26,613	41,857	0	132,311	124,024
Cornell U.	13	1,451,971	32,821	5,762	1,020,982	4,173	136,751	12,439	30,044	145	149,807	59,047
Ohio State U.	14	1,449,188	31,323	9,777	977,520	5,135	39,570	6,403	24,943	40,363	242,745	71,409
Harvard U.	15	1,435,218	28,969	30,302	793,236	19,878	134,733	8,218	169,192	12,681	99,830	138,179
Georgia Institute of Technology	16	1,405,080	198,783	13,138	42,645	9,953	39,186	4,464	7,944	0	1,061,402	27,565
U. Pittsburgh, Pittsburgh	17	1,398,078	12,535	13,409	1,205,739	5,160	33,092	16,409	5,653	13,638	82,238	10,205
U. Maryland ^b	18	1,385,302	80,519	87,557	719,375	6,039	135,422	11,142	72,987	18,057	183,899	70,305
Columbia U. in the City of New York	19	1,341,952	30,853	88,243	980,046	4,294	52,418	4,443	18,686	0	100,161	62,808
Yale U.	20	1,326,807	11,131	7,593	1,154,182	3,906	63,036	11,027	19,496	829	40,153	15,454
U. Minnesota, Twin Cities	21	1,320,183	24,219	16,935	948,410	8,376	47,610	33,730	39,384	3,864	145,670	51,985
Texas A&M U., College Station and Health Science Center	22	1,277,814	28,414	125,114	464,675	8,774	65,248	10,488	32,324	13,003	464,769	65,005
U. Texas M. D. Anderson Cancer Center	23	1,255,190	0	0	1,166,465	23,423	23,775	18,290	23,237	0	0	0
Vanderbilt U. and Vanderbilt U. Medical Center	24	1,253,156	24,592	3,637	958,220	2,323	30,399	17,439	28,357	0	82,313	105,876
U. Florida	25	1,250,201	20,449	19,578	922,704	2,928	43,930	15,487	17,586	4,575	150,126	52,838
Pennsylvania State U., University Park and Hershey Medical Center	26	1,206,793	108,873	33,406	346,482	24,625	111,514	41,284	42,771	0	453,476	44,362
Washington U., Saint Louis	27	1,168,861	5,859	6,986	1,043,446	1,309	30,262	8,442	2,859	178	33,691	35,829
U. Southern California	28	1,154,804	122,842	20,785	744,073	2,031	18,195	8,053	81,705	0	82,633	74,487
Northwestern U.	29	1,114,269	13,831	1,795	816,739	2,311	97,816	3,316	23,363	22,022	93,785	39,291
Emory U.	30	1,094,328	5,494	3,189	998,674	1,840	31,085	4,712	5,560	0	26,414	17,360
U. California, Berkeley	31	1,076,754	15,434	11,609	290,429	11,060	234,242	20,253	87,836	109,018	209,311	87,562
U. Texas, Austin	32	1,035,838	116,971	76,120	188,258	18,889	123,113	16,683	32,781	5,907	360,947	96,169

TABLE 23

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Massachusetts Institute of Technology	33	1,000,081	119,666	28,790	127,959	10,270	180,988	525	55,636	21,825	404,440	49,982
Icahn School of Medicine at Mount Sinai	34	972,476	0	0	972,476	0	0	0	0	0	0	0
U. California, Davis	35	962,399	6,959	38,078	682,290	4,722	36,471	4,171	38,849	10,491	124,470	15,898
U. Arizona	36	955,424	18,319	44,173	522,916	7,530	173,256	10,219	27,542	13,247	103,771	34,451
Arizona State U.	37	903,779	33,267	59,803	179,408	2,786	59,230	17,382	93,071	30,565	265,026	163,241
Indiana U., Bloomington	38	853,056	47,950	6,894	623,240	3,010	30,417	16,940	44,795	12,069	25,104	42,637
Baylor C. of Medicine	39	847,305	0	0	847,305	0	0	0	0	0	0	0
Purdue U., West Lafayette	40	844,570	31,316	9,201	282,174	3,115	60,623	5,839	17,096	2,636	360,289	72,281
Michigan State U.	41	844,076	18,855	7,557	377,253	13,271	207,802	14,085	46,373	16,262	86,949	55,669
Rutgers, State U. New Jersey, New Brunswick	42	831,719	8,406	35,546	619,096	11,898	28,283	15,490	10,539	2,248	61,910	38,303
U. Illinois, Urbana-Champaign	43	821,023	99,934	23,906	245,437	5,040	84,748	15,234	9,883	17,353	272,650	46,838
U. Texas Southwestern Medical Center	44	800,391	0	0	800,391	0	0	0	0	0	0	0
U. Alabama, Birmingham	45	780,479	1,013	0	721,450	169	5,624	11,715	782	0	28,505	11,221
Boston U.	46	773,200	22,142	10,080	486,968	5,008	42,374	26,387	14,027	7,622	111,856	46,736
U. Utah	47	723,713	249	11,126	453,037	3,727	24,991	5,663	14,062	0	113,129	97,729
U. Virginia, Charlottesville	48	714,457	28,652	7,041	418,932	2,301	27,920	7,392	12,798	848	112,702	95,871
U. Cincinnati	49	698,642	4,958	1,489	567,982	1,732	12,181	11,756	11,576	987	54,548	31,433
U. Colorado Anschutz Medical Campus	50	686,026	0	183	676,151	0	521	1,487	394	0	842	6,448
U. Iowa	51	662,134	4,037	3,415	478,820	1,074	63,779	10,435	4,172	2,535	57,579	36,288
U. Colorado Boulder	52	651,924	21,212	140,081	61,853	4,116	179,084	16,643	16,815	1,576	175,118	35,426
North Carolina State U.	53	633,251	26,585	34,922	284,651	18,035	28,745	1,887	8,771	16,191	196,594	16,870
U. Chicago	54	628,302	34,390	10,053	395,289	5,931	78,200	9,445	34,694	0	47,857	12,443
U. Nebraska, Lincoln and Medical Center ^c	55	617,372	10,348	3,364	413,555	5,687	37,541	17,233	11,621	928	76,802	40,293
U. California, Irvine	56	609,614	26,089	11,236	369,735	8,818	43,790	14,662	13,104	457	84,902	36,821
Virginia Polytechnic Institute and State U.	57	598,113	30,263	6,047	221,029	12,051	22,452	6,359	13,608	0	261,707	24,597
U. Georgia	58	570,956	5,970	25,512	343,271	6,927	11,502	30,072	38,671	7,940	27,420	73,671
Case Western Reserve U.	59	553,740	5,998	812	462,781	709	5,407	1,840	11,687	183	59,900	4,423
Oregon Health and Science U.	60	517,742	0	0	502,768	0	14	0	0	0	14,960	0
Princeton U.	61	513,365	29,801	33,668	128,054	16,810	109,961	6,305	83,793	0	87,035	17,938
U. Miami	62	509,951	3,156	61,748	398,810	1,693	7,163	18,271	2,075	302	8,034	8,699
U. Kentucky	63	504,005	5,019	3,438	381,193	1,448	8,370	6,526	6,340	14,176	62,529	14,966
Colorado State U., Fort Collins	64	498,073	4,521	59,772	313,226	3,310	19,169	3,362	13,333	14,204	52,539	14,637
Uniformed Services U. of the Health Sciences	65	496,441	0	0	448,540	0	0	47,901	0	0	0	0

TABLE 23

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Scripps Research Institute	66	494,946	0	0	494,946	0	0	0	0	0	0	0
U. Illinois, Chicago	67	492,936	12,543	1,331	347,162	5,823	28,674	4,041	11,499	12,958	46,820	22,085
California Institute of Technology	68	490,672	13,730	47,263	102,066	794	235,054	1,117	3,213	13,285	73,871	279
Carnegie Mellon U.	69	484,757	220,946	1,549	16,878	16,604	27,237	10,187	12,649	5,575	155,436	17,696
U. Rochester	70	481,227	3,544	3,103	304,786	396	124,977	6,934	1,167	10,533	22,767	3,020
Virginia Commonwealth U.	71	479,930	8,058	180	320,557	839	5,346	12,123	7,273	0	29,609	95,945
SUNY, U. Buffalo	72	471,569	20,464	6,700	263,888	2,886	15,320	5,809	4,321	2,708	123,383	26,090
U. Kansas	73	466,222	6,179	15,975	258,443	751	19,261	11,333	2,220	12,013	25,610	114,437
U. Missouri, Columbia	74	462,435	6,644	1,728	309,601	1,583	57,534	6,593	3,972	2,570	24,365	47,845
U. South Florida	75	461,390	18,841	24,544	232,123	2,902	10,460	7,605	33,891	1,490	62,025	67,509
U. Oklahoma, Norman and Health Science Center	76	436,964	9,628	83,345	174,395	2,621	21,859	5,725	17,870	0	58,746	62,775
U. Delaware	77	428,128	12,538	26,658	89,502	6,401	56,483	12,376	26,345	11,966	161,894	23,965
Iowa State U.	78	420,823	6,326	5,103	172,991	19,968	31,219	3,350	8,107	435	140,782	32,542
Florida State U.	79	414,463	10,374	20,511	75,107	8,048	78,948	19,078	25,182	6,239	67,635	103,341
Utah State U.	80	401,437	4,436	2,460	66,338	1,009	6,477	5,720	1,734	0	308,386	4,877
U. Connecticut	81	390,165	6,946	11,951	222,563	2,934	15,372	30,889	9,126	3,119	72,672	14,593
Rockefeller U.	82	385,168	8,060	151	369,447	1,396	6,114	0	0	0	0	0
Louisiana State U., Baton Rouge	83	384,268	10,527	41,171	181,370	8,112	36,946	1,077	5,824	12,114	63,779	23,348
Washington State U.	84	378,744	8,664	10,521	220,515	383	27,495	4,278	11,439	3,404	47,254	44,791
U. Texas Health Science Center, Houston	85	374,105	0	0	374,105	0	0	0	0	0	0	0
Dartmouth C. and Dartmouth Hitchcock Medical Center	86	366,856	18,309	9,202	179,246	10,328	24,630	15,408	22,605	3,097	41,232	42,799
Wichita State U.	87	366,848	0	162	7,402	758	2,802	1,138	1,530	0	336,096	16,960
George Washington U.	88	360,260	9,922	1,115	186,518	1,737	8,736	5,528	38,480	11,498	29,442	67,284
Brown U.	89	353,591	19,235	13,244	176,938	16,873	18,064	10,682	41,238	12,212	27,640	17,465
Auburn U., Auburn	90	349,273	6,337	5,277	147,192	4,229	19,616	3,763	4,507	3,879	108,344	46,129
Medical C. Wisconsin	91	346,691	0	0	338,863	0	0	0	0	0	7,828	0
U. Tennessee, Knoxville	92	338,847	8,009	3,939	110,556	3,447	25,471	4,134	10,761	22,268	116,222	34,040
Oregon State U.	93	337,985	5,346	57,207	175,883	1,358	7,604	1,398	7,579	3,718	71,532	6,360
Georgetown U.	94	337,006	18,504	0	198,724	2,853	13,835	2,003	45,315	3,033	0	52,739
Albert Einstein C. of Medicine	95	336,238	0	0	336,238	0	0	0	0	0	0	0
Medical U. South Carolina	96	333,826	0	0	333,826	0	0	0	0	0	0	0
U. Notre Dame	97	331,943	23,170	0	35,232	5,775	59,388	6,586	16,096	17,065	113,853	54,778
U. Massachusetts, Medical School	98	326,731	0	0	326,731	0	0	0	0	0	0	0

TABLE 23

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
SUNY, Stony Brook U.	99	324,531	15,550	39,762	136,089	7,442	49,245	5,969	2,869	20,112	40,873	6,620
Mississippi State U.	100	319,684	11,570	16,521	145,647	1,979	13,806	2,421	25,913	3,289	78,080	20,458
U. New Mexico	101	316,026	4,816	7,551	204,109	1,012	11,065	7,440	13,113	8,015	51,318	7,587
U. Hawaii, Manoa	102	313,143	22,818	88,512	133,335	593	25,554	603	2,906	5,914	29,058	3,850
Wake Forest U.	103	308,972	629	0	291,310	716	2,331	704	3,798	0	1,499	7,985
Florida International U.	104	306,434	22,726	29,061	71,169	3,628	31,704	41,054	21,873	3,554	56,199	25,466
U. California, Santa Barbara	105	305,483	23,101	38,926	13,211	1,759	68,503	4,387	11,052	18,612	111,017	14,915
Temple U.	106	292,029	5,498	1,323	227,767	1,004	15,792	11,114	3,521	844	8,815	16,351
Northeastern U.	107	288,558	28,375	5,205	46,459	1,443	33,512	12,014	11,463	0	119,529	30,558
Woods Hole Oceanographic Institution	108	287,825	0	194,513	0	0	0	0	0	0	93,312	0
Clemson U.	109	286,503	9,428	0	81,964	2,131	12,096	3,826	7,532	0	103,188	66,338
SUNY, Polytechnic Institute	110	284,677	18	0	2,369	0	0	0	0	0	282,110	180
U. Texas Health Science Center, San Antonio	111	281,078	0	0	281,078	0	0	0	0	0	0	0
U. Massachusetts, Amherst	112	268,657	30,057	4,835	79,726	3,383	27,580	9,888	8,461	880	82,841	21,006
U. South Carolina, Columbia	113	262,207	4,491	9,266	108,934	4,385	5,158	13,699	21,393	8	47,155	47,718
Tulane U.	114	258,439	1,712	7,662	209,699	977	5,633	2,938	6,522	0	6,779	16,517
Thomas Jefferson U.	115	258,345	0	0	258,291	0	0	0	0	0	33	21
Rice U.	116	255,115	12,530	6,249	19,778	7,338	43,704	5,420	24,172	627	129,719	5,578
George Mason U.	117	252,239	22,076	17,068	37,589	2,657	7,098	4,323	73,092	100	61,036	27,200
Wayne State U.	118	250,911	3,578	182	182,874	717	23,226	3,539	1,775	8,448	13,718	12,854
Tufts U.	119	247,276	4,526	2,008	138,203	4,607	10,498	6,701	17,786	18,361	34,614	9,972
U. Central Florida	120	247,259	30,129	6,932	39,523	2,971	45,916	9,837	8,249	6,424	68,340	28,938
West Virginia U.	121	246,173	2,155	5,036	153,092	448	16,296	1,929	4,192	1,552	50,052	11,421
Texas Tech U.	122	240,107	5,472	11,667	74,439	4,501	15,057	8,343	13,213	0	53,564	53,851
Georgia State U.	123	237,493	6,583	1,883	84,391	2,428	19,102	12,584	37,953	0	0	72,569
U. Vermont	124	233,806	3,361	4,650	167,760	2,319	3,944	4,830	9,950	2,642	18,270	16,080
U. Texas Medical Branch	125	233,192	0	0	225,795	0	0	0	0	0	7,397	0
U. Houston	126	231,942	9,325	12,509	46,297	7,605	27,682	19,682	4,721	1,101	67,684	35,336
Montana State U., Bozeman	127	229,682	3,175	6,124	81,492	2,828	27,448	956	1,903	14,374	67,024	24,358
U. Dayton	128	228,723	23,693	743	1,695	98	385	180	121	0	198,049	3,759
Oklahoma State U., Stillwater	129	226,498	3,598	4,254	92,203	4,680	9,993	7,181	10,445	11,514	44,510	38,120
U. Louisiana, Lafayette	130	225,924	27,922	4,887	98,792	3,236	4,358	95	4,916	1,479	35,532	44,707
U. New Hampshire	131	223,683	1,505	99,189	54,290	1,738	5,689	1,110	17,256	0	29,519	13,387

TABLE 23

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Arkansas, Fayetteville	132	221,525	7,865	2,987	96,316	896	19,209	2,080	7,479	5,694	49,645	29,354
U. Louisville	133	220,568	91	65	171,778	519	3,003	3,767	1,653	583	24,702	14,407
U. Alaska, Fairbanks	134	218,041	222	111,890	38,729	338	13,507	3	4,498	16,108	31,211	1,535
Kansas State U.	135	217,992	3,858	299	129,457	3,353	12,230	4,857	10,652	8,279	30,352	14,655
U. California, Riverside	136	214,802	7,414	12,654	108,803	2,694	18,535	6,971	10,057	2,877	36,650	8,147
U. Arkansas for Medical Sciences	137	209,409	0	0	209,409	0	0	0	0	0	0	0
U. California, Santa Cruz	138	203,883	8,695	39,967	34,549	605	43,696	1,226	7,665	680	57,256	9,544
North Dakota State U.	139	190,330	3,422	472	122,001	970	11,009	2,750	8,600	5,117	25,034	10,955
U. Maine	140	188,690	2,517	27,518	46,999	718	7,816	742	2,212	16,590	72,340	11,238
U. Nevada, Reno	141	188,505	4,617	19,059	77,346	1,408	11,696	5,242	6,324	3,437	41,198	18,178
U. Alabama, Tuscaloosa	142	184,880	18,813	16,822	23,853	2,918	11,124	5,690	13,350	264	51,029	41,017
Syracuse U.	143	183,850	7,300	3,549	18,677	2,855	20,189	3,515	15,676	1,381	24,796	85,912
U. North Dakota	144	182,195	4,136	7,444	36,939	444	7,486	4,993	1,725	156	105,141	13,731
U. Mississippi	145	172,176	1,418	2,219	106,290	1,042	13,565	1,918	4,488	718	11,818	28,700
Drexel U.	146	169,583	6,621	0	94,232	617	3,102	4,336	1,739	1,662	44,002	13,272
U. Oregon	147	164,500	6,807	8,392	63,107	1,828	18,110	22,362	5,585	1,817	5,844	30,648
U. Alabama, Huntsville	148	163,428	47,962	24,941	3,100	775	19,243	405	1,910	0	55,164	9,928
New Jersey Institute of Technology	149	161,078	12,638	0	24,332	5,475	18,434	0	625	277	90,849	8,448
U. Texas, San Antonio	150	158,453	22,722	4,765	31,428	1,782	12,226	3,133	12,152	1,929	25,584	42,732
San Diego State U.	151	158,013	2,902	2,911	46,665	4,198	10,039	23,094	7,749	8,999	16,138	35,318
U. Wyoming	152	150,124	1,958	21,692	57,427	1,816	3,585	907	5,624	23,805	23,084	10,226
U. Texas, Arlington	153	147,265	9,165	1,228	23,340	3,317	20,371	2,416	150	0	64,548	22,730
U. Texas, Dallas	154	146,779	10,213	973	39,684	1,616	17,707	4,915	2,513	28	55,368	13,762
U. Texas, El Paso	155	145,724	8,443	4,729	35,325	2,552	12,207	6,453	4,319	3,722	45,627	22,347
U. Maryland, Baltimore County	156	144,262	17,976	34,435	14,790	2,353	25,604	3,086	20,411	3,001	10,631	11,975
U. Rhode Island	157	144,013	2,484	61,366	36,874	57	6,026	3,779	4,447	4,195	14,637	10,148
SUNY, Binghamton U.	158	141,685	7,948	1,540	15,773	3,122	16,702	10,713	20,938	0	45,755	19,194
SUNY, U. Albany	159	141,671	6,022	15,430	55,543	2,531	12,431	4,133	16,605	0	4,562	24,414
Texas State U.	160	141,291	5,633	7,467	20,212	3,465	6,776	329	10,760	4,272	11,165	71,212
Augusta U.	161	139,121	896	0	134,668	136	187	177	94	0	0	2,963
Brigham Young U., Provo	162	137,748	7,241	1,351	27,160	5,651	10,717	2,863	9,403	67	26,923	46,372
U. Idaho	163	135,901	5,340	5,351	93,469	812	3,021	364	3,845	3,262	13,229	7,208
U. Montana, Missoula	164	133,958	1,971	5,945	81,610	1,003	9,031	710	22,266	0	0	11,422

TABLE 23

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Rush U.	165	132,394	0	0	128,200	0	0	4,194	0	0	0	0
U. Tennessee, Health Science Center	166	130,472	4	0	128,251	0	0	0	0	1,175	683	359
New Mexico State U.	167	126,337	5,075	4,514	55,765	170	12,826	312	701	4,087	40,884	2,003
Rensselaer Polytechnic Institute	168	121,706	13,075	1,961	8,077	3,783	12,723	3,870	1,412	0	66,158	10,647
New Mexico Institute of Mining and Technology	169	118,735	14,923	16,521	558	157	7,124	464	0	0	76,286	2,702
Cold Spring Harbor Laboratory	170	117,483	0	0	117,483	0	0	0	0	0	0	0
U. Massachusetts, Lowell	171	117,336	8,478	1,436	17,363	1,434	19,076	1,435	7,826	0	51,877	8,411
U. North Texas, Denton	172	106,665	12,171	538	16,228	1,879	9,854	3,758	4,801	0	27,249	30,187
Colorado School of Mines	173	104,297	3,677	13,053	1,960	969	18,977	46	1,088	345	61,175	3,007
Michigan Technological U.	174	103,819	8,624	16,557	11,201	2,076	4,747	826	1,343	974	54,177	3,294
Brandeis U.	175	103,653	2,955	0	32,578	2,203	17,131	5,142	25,241	1,038	5,918	11,447
Touro U., New York	176	100,547	0	0	100,542	0	0	0	0	0	0	5
U. Memphis	177	100,042	8,935	4,386	10,618	510	3,870	7,084	10,088	7,492	14,577	32,482
U. Nevada, Las Vegas	178	98,751	2,120	5,803	36,005	2,558	11,407	2,027	7,566	910	13,866	16,489
U. North Texas, Health Science Center	179	94,652	0	0	93,494	0	0	0	1,158	0	0	0
U. North Carolina, Charlotte	180	92,027	11,068	2,523	11,443	2,704	7,278	1,960	7,825	0	23,417	23,809
Cleveland State U.	181	87,941	0	0	52,377	901	1,610	769	7,143	0	15,061	10,080
Indiana U.-Purdue U., Indianapolis	182	87,648	6,191	1,598	27,536	601	3,382	3,439	18,507	2,959	9,390	14,045
Saint Louis U.	183	85,921	1,566	7,307	56,051	222	4,726	281	2,485	0	3,187	10,096
Howard U.	184	84,756	7,235	0	48,554	369	7,016	1,976	1,671	0	11,221	6,714
San Jose State U.	185	83,406	570	16,140	6,431	1,522	5,800	16,798	4,400	0	9,496	22,249
U. Texas Rio Grande Valley	186	82,444	2,540	2,766	37,668	3,845	5,214	1,268	4,897	63	11,028	13,155
Baylor U.	187	82,074	2,063	4,243	13,879	1,604	11,399	5,848	3,585	4,335	11,454	23,664
William & Mary	188	81,815	3,779	43,485	4,618	382	7,096	202	11,684	377	0	10,192
Boston C.	189	81,425	1,408	9,394	11,638	1,377	13,121	4,748	11,542	0	592	27,605
Van Andel Research Institute	190	80,748	0	0	80,748	0	0	0	0	0	0	0
Florida Atlantic U.	191	77,593	4,999	890	35,633	1,112	3,509	2,749	1,089	0	17,629	9,983
Northern Arizona U.	192	77,533	4,797	5,518	48,110	34	7,952	196	520	1,472	5,880	3,054
Naval Postgraduate School	193	77,364	9,987	11,189	529	2,375	4,107	365	8,103	7,577	27,413	5,719
American U.	194	76,041	733	1,082	1,584	1,501	4,853	1,266	18,962	5,880	0	40,180
U. Southern Mississippi	195	75,034	311	28,664	10,616	0	12,954	17	2,151	0	10,921	9,400
Rochester Institute of Technology	196	72,405	12,888	0	2,005	2,542	15,762	538	3,259	0	28,126	7,285
South Dakota State U.	197	71,340	49	1,193	55,010	691	2,892	324	1,426	0	8,819	936

TABLE 23

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Old Dominion U.	198	71,334	3,127	4,434	13,232	1,043	8,733	1,647	1,887	0	32,001	5,230
U. Massachusetts, Boston	199	70,978	1,944	4,352	12,213	820	3,981	6,030	12,589	564	1,298	27,187
Louisiana State U., Health Sciences Center, New Orleans	200	68,707	0	0	68,707	0	0	0	0	0	0	0
U. Toledo	201	67,656	0	6,117	32,455	55	11,716	359	63	0	11,520	5,371
East Carolina U.	202	67,082	1,095	6,772	43,941	90	2,274	1,788	1,476	0	3,013	6,633
Worcester Polytechnic Institute	203	66,353	10,974	0	3,170	3,402	4,748	0	1,824	0	37,920	4,315
Florida A&M U.	204	65,159	220	5,377	31,768	33	2,201	120	467	0	9,530	15,443
U. California, Office of the President	205	63,629	0	0	54,407	0	8,957	0	0	0	0	265
CUNY, City C.	206	63,159	358	1,627	8,800	358	10,061	1,297	76	4	21,627	18,951
North Carolina A&T State U.	207	62,307	1,884	0	22,995	1,149	3,306	95	111	2,056	20,925	9,786
U. California, Merced	208	62,279	1,864	3,811	10,265	1,650	6,930	365	4,460	4,708	21,052	7,174
Missouri U. of Science and Technology	209	61,496	2,948	0	1,359	230	3,747	310	14	886	51,351	651
U. Puerto Rico, Medical Sciences Campus	210	61,235	0	250	60,985	0	0	0	0	0	0	0
U. Wisconsin-Milwaukee	211	60,712	399	9,007	10,761	198	9,286	5,341	5,609	3,244	9,725	7,142
Stevens Institute of Technology	212	60,685	4,997	0	157	464	2,841	0	193	0	50,295	1,738
Ohio U.	213	59,877	290	2,475	20,740	18	6,865	3,242	1,855	0	16,193	8,199
Southern Methodist U.	214	59,749	518	5,716	3,187	2,199	9,217	1,872	2,227	3,765	8,535	22,513
Kent State U.	215	58,984	2,228	1,472	11,557	1,591	10,220	5,320	6,091	1,908	1,904	16,693
Southern Illinois U., Carbondale	216	58,291	893	2,121	38,745	133	2,547	1,348	3,644	1,618	3,183	4,059
Morehouse School of Medicine	217	57,125	0	0	57,125	0	0	0	0	0	0	0
Air Force Institute of Technology	218	56,848	9,028	1,271	0	375	8,942	0	0	0	37,232	0
Lehigh U.	219	56,301	2,725	1,439	8,884	489	5,588	739	602	39	32,406	3,390
U. Missouri, Kansas City	220	54,565	1,344	388	27,493	0	1,556	714	508	1,640	16,959	3,963
CUNY, Graduate Center	221	54,089	1,079	881	3,725	1,564	2,993	5,510	14,400	354	206	23,377
U. Denver	222	53,484	511	110	7,747	106	2,249	8,183	7,023	84	3,612	23,859
U. Maryland Center for Environmental Science	223	53,233	0	42,880	9,006	0	132	0	318	150	0	747
SUNY, Upstate Medical U.	224	53,219	0	0	53,219	0	0	0	0	0	0	0
U. South Alabama	225	53,182	632	11,611	26,117	584	970	4,059	767	0	7,228	1,214
Boise State U.	226	52,989	3,449	4,255	12,924	646	7,828	324	2,564	973	17,088	2,938
Loyola U., Chicago	227	52,445	973	0	44,733	82	1,796	1,343	1,578	0	151	1,789
Nova Southeastern U.	228	50,173	1,022	12,274	26,746	268	359	2,278	2,439	1,366	108	3,313
Texas Tech U., Health Sciences Center	229	48,638	0	0	47,072	0	0	0	0	0	0	1,566
Marquette U.	230	47,819	1,831	0	17,556	921	2,115	1,335	717	0	12,351	10,993

TABLE 23

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Rowan U.	231	47,810	606	1,549	11,750	795	3,480	1,934	1,280	139	19,322	6,955
Catholic U. of America	232	47,022	118	0	1,689	202	32,191	1,232	935	0	3,217	7,438
Portland State U.	233	46,324	1,971	2,147	14,371	1,505	1,932	1,554	6,170	53	7,108	9,513
Mercer U.	234	45,247	147	0	8,788	238	1,664	268	115	159	33,284	584
Western Michigan U. and Homer Stryker M.D. School of Medicine	235	45,157	665	3,043	8,797	1,191	1,823	1,580	3,312	108	14,491	10,147
U.S. Air Force Academy	236	44,880	1,285	53	4,130	34	1,679	0	118	1,014	36,441	126
U. North Carolina, Greensboro	237	44,521	1,076	31	13,196	470	5,687	3,445	1,370	18	0	19,228
Morgan State U.	238	43,868	1,109	8,663	10,795	356	3,287	286	1,864	0	10,725	6,783
East Tennessee State U.	239	42,335	0	298	19,166	19	404	44	48	2	87	22,267
U. Massachusetts, Dartmouth	240	42,018	3,116	16,141	3,229	2,210	3,547	38	313	0	11,936	1,488
Chapman U.	241	41,791	851	364	17,909	0	2,106	1,096	3,528	0	2,041	13,896
U. West Florida	242	40,454	7,321	9	3,187	22	1,719	339	3,209	40	1,322	23,286
Georgia Southern U.	243	40,026	1,032	884	7,695	1,542	6,163	1,027	4,880	50	4,200	12,553
Texas A&M U.-Corpus Christi	244	39,305	982	15,556	4,745	126	1,643	9	1,030	1,336	9,507	4,371
Montclair State U.	245	38,209	1,332	2,352	5,509	1,684	2,520	6,448	4,747	0	402	13,215
Oakland U.	246	37,263	4,406	0	11,634	63	10,708	456	68	0	9,138	790
CUNY, Hunter C.	247	37,172	1,805	1,258	10,272	262	5,712	8,218	1,537	0	0	8,108
California Polytechnic State U., San Luis Obispo	248	35,830	186	1,768	10,928	2,996	5,010	21	463	0	9,181	5,277
Louisiana State U., Health Sciences Center, Shreveport	249	35,624	0	0	35,624	0	0	0	0	0	0	0
SUNY, Downstate Health Sciences U.	250	35,600	0	0	35,600	0	0	0	0	0	0	0
San Francisco State U.	251	34,466	2,172	3,055	14,372	1,155	2,867	1,912	3,053	1,561	1,967	2,352
Teachers C., Columbia U.	252	34,183	2,791	0	6,595	0	0	2,232	22,332	0	0	233
Marshall U.	253	33,693	284	456	21,925	44	1,501	0	81	0	5,227	4,175
Delaware State U.	254	33,499	1,071	1,451	20,808	803	5,666	473	787	1,296	419	725
Illinois Institute of Technology	255	33,021	3,514	94	12,293	412	3,038	0	14	158	13,311	187
Illinois State U.	256	32,961	353	620	5,174	255	2,138	54	1,093	0	0	23,274
SUNY, C. of Environmental Science and Forestry	257	32,682	314	1,743	22,461	3	2,106	2,535	61	0	2,095	1,364
Kennesaw State U.	258	32,497	4,916	0	7,045	876	323	15	426	0	3,445	15,451
U. Texas Health Science Center, Tyler	259	32,077	0	0	32,077	0	0	0	0	0	0	0
Louisiana Tech U.	260	31,676	2,582	0	3,732	969	2,519	184	604	0	15,078	6,008
Villanova U.	261	31,513	430	952	4,709	163	3,239	1,128	1,737	0	11,370	7,785
U. Nebraska, Omaha	262	30,841	5,913	177	7,248	652	556	221	3,291	9,208	1,782	1,793
Desert Research Institute	263	30,716	0	27,742	2,974	0	0	0	0	0	0	0

TABLE 23

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. South Dakota	264	29,855	334	0	17,382	236	4,481	1,711	1,083	224	1,153	3,251
Rutgers, State U. New Jersey, Newark	265	29,787	1,107	3,154	11,575	0	4,188	1,638	3,265	171	0	4,689
U. Puerto Rico, Rio Piedras	266	29,202	783	2,644	3,451	157	5,852	76	1,443	3,953	2,930	7,913
Northern Illinois U.	267	29,134	1,297	1,540	2,809	114	6,765	893	5,104	0	4,565	6,047
Creighton U.	268	28,443	1,196	0	21,496	309	2,097	348	1,209	0	0	1,788
Miami U.	269	28,430	750	768	7,968	636	4,186	2,246	1,166	0	4,562	6,148
Tennessee State U.	270	28,246	1,412	0	16,921	0	369	152	0	0	3,026	6,366
California State U., Sacramento	271	28,027	212	850	1,182	112	630	176	2,511	6,623	11,433	4,298
Embry-Riddle Aeronautical U.	272	27,451	2,014	2,085	636	681	6,884	0	135	0	13,774	1,242
CUNY, Graduate School of Public Health and Health Policy	273	26,651	0	0	25,876	0	0	775	0	0	0	0
Texas A&M U.-Kingsville	274	26,401	784	215	18,205	0	265	72	24	255	5,130	1,451
Wright State U.	275	26,189	5,443	474	13,117	75	715	1,371	0	95	4,819	80
California State U., Fullerton	276	25,811	1,299	902	5,538	887	2,331	918	2,253	1,397	1,355	8,931
Tuskegee U.	277	25,625	923	0	18,189	616	2,141	0	5	472	3,262	17
U. Minnesota, Duluth	278	25,534	257	621	20,530	248	619	473	326	0	1,878	582
CUNY, Queens C.	279	25,492	442	680	16,586	380	2,163	2,523	1,325	617	0	776
Clarkson U.	280	25,399	780	170	1,725	830	4,148	87	514	0	14,568	2,577
Central Michigan U.	281	25,363	50	933	18,284	46	2,004	201	173	1,932	377	1,363
Florida Gulf Coast U.	282	24,899	3	3,744	2,748	77	376	50	285	0	221	17,395
U. Tulsa	283	24,845	4,897	137	1,499	4	961	859	553	0	10,991	4,944
Texas Christian U.	284	24,050	84	980	3,632	483	3,625	1,474	10	5,239	95	8,428
Eastern Virginia Medical School	285	23,991	0	0	23,991	0	0	0	0	0	0	0
Fordham U.	286	23,832	393	60	1,566	396	1,226	3,003	1,619	0	0	15,569
Tarleton State U.	287	23,345	282	2,037	10,879	211	409	537	962	2,370	857	4,801
U. North Florida	288	23,269	861	9	2,718	27	1,544	1,744	1,011	0	4,313	11,042
Albany Medical C.	289	23,259	0	0	23,259	0	0	0	0	0	0	0
California State U., Northridge	290	23,093	329	1,969	7,147	480	8,180	676	597	242	2,209	1,264
CUNY, John Jay C. of Criminal Justice	291	22,967	6	0	419	342	723	2,412	2,511	83	0	16,471
New School	292	22,680	41	239	1,440	0	0	1,040	7,393	2,576	3,565	6,386
U. Colorado Denver	293	22,530	573	893	5,291	1,613	1,924	1,218	432	16	4,511	6,059
U. Guam	294	22,388	0	7,715	13,548	160	266	0	126	0	0	573
Loma Linda U.	295	22,262	0	0	20,844	0	0	1,413	0	0	0	5
Meharry Medical C.	296	22,002	508	0	21,494	0	0	0	0	0	0	0

TABLE 23

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Southern Illinois U., Edwardsville	297	21,927	129	321	12,048	0	955	104	212	361	6,427	1,370
U. North Carolina, Wilmington	298	21,879	1,169	7,843	7,597	53	1,317	272	1,321	384	1,317	606
Prairie View A&M U.	299	21,791	671	2	10,328	40	1,545	5	431	4	5,101	3,664
U. Akron	300	21,525	132	261	1,185	78	9,555	435	131	150	8,851	747
California State U., Long Beach	301	21,458	542	514	7,345	534	2,993	2,056	1,113	365	3,160	2,836
California State U., East Bay	302	21,312	136	671	2,537	180	999	418	936	0	155	15,280
James Madison U.	303	21,265	1,156	1,073	4,300	301	2,525	985	673	31	576	9,645
Tennessee Technological U.	304	20,797	3,548	51	4,713	0	682	189	68	1	9,802	1,743
Bowling Green State U.	305	20,726	456	2,062	4,114	163	1,994	885	4,328	110	189	6,425
U.S. Military Academy	306	20,493	4,064	144	167	2,073	408	192	5,737	0	7,462	246
U. New Orleans	307	20,396	2,579	947	1,181	642	2,094	1,034	1,908	523	2,509	6,979
South Dakota School of Mines and Technology	308	20,337	325	0	0	95	4,365	0	0	0	15,552	0
U. of the Virgin Islands	309	20,259	267	8,729	8,130	679	1,130	0	534	0	790	0
U. Alaska, Anchorage	310	19,850	165	2,790	9,605	0	505	0	2,384	1,440	1,878	1,083
Charles R. Drew U. of Medicine and Science	311	19,551	0	0	19,551	0	0	0	0	0	0	0
Jackson State U.	312	19,457	383	0	6,183	128	7,333	167	559	618	3,214	872
Alcorn State U.	313	19,141	0	0	11,432	0	0	0	6,360	0	1,349	0
California State Polytechnic U., Humboldt	314	18,800	39	1,264	6,526	32	1,038	4	2,072	735	5,920	1,170
North Carolina Central U.	315	18,477	i 157	i 261	i 7,115	i 0	i 5,524	i 0	i 357	i 293	i 2,317	i 2,453
Montana Technological U.	316	18,375	49	11,289	803	0	83	0	0	0	6,151	0
Idaho State U.	317	17,548	1,596	1,893	5,984	70	1,225	43	183	826	5,435	293
CUNY, Advanced Science Research Center	318	17,309	0	570	5,548	0	9,285	0	0	0	1,871	35
Towson U.	319	17,198	2,485	508	3,100	899	1,576	923	2,217	114	0	5,376
New York Medical C.	320	17,113	0	0	17,113	0	0	0	0	0	0	0
Florida Institute of Technology	321	16,859	3,416	3,062	1,682	210	2,408	819	0	0	5,021	241
Long Island U.	322	16,612	234	59	9,621	226	1,015	1,131	681	0	0	3,645
Texas Southern U.	323	16,287	100	0	11,092	125	1,823	661	1,096	0	75	1,315
Western Washington U.	324	15,874	482	3,008	864	536	3,100	904	1,173	1,765	884	3,158
Alabama A&M U.	325	15,588	557	i 0	i 9,197	i 118	i 1,143	i 310	i 447	i 0	i 3,018	i 798
Fort Valley State U.	326	15,536	0	70	15,331	17	118	0	0	0	0	0
Xavier U. Louisiana	327	15,519	540	0	7,030	0	7,701	0	91	0	135	22
Duquesne U.	328	14,989	0	236	10,506	83	726	83	253	0	187	2,915
U. Tennessee, Chattanooga	329	14,671	684	4	1,055	608	662	395	208	4,516	4,138	2,401

TABLE 23

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Missouri State U.	330	14,654	0	228	1,438	0	164	71	120	0	12,633	0
Salisbury U.	331	14,557	357	2,719	1,962	133	396	39	532	36	3	8,380
U. Hawaii, system office	332	14,172	574	13,598	0	0	0	0	0	0	0	0
Loyola Marymount U.	333	14,086	98	13	1,620	0	252	1,992	2,507	334	0	7,270
U. Puerto Rico, Mayaguez	334	13,989	333	1,976	368	51	2,339	0	177	0	7,401	1,344
Virginia State U.	335	13,504	102	45	8,961	36	144	323	16	1	2,110	1,766
DePaul U.	336	13,267	1,399	456	3,609	168	16	267	544	0	106	6,702
Texas Tech U., Health Sciences Center, El Paso	337	13,189	0	0	11,829	0	0	0	0	0	0	1,360
California State U., San Bernardino	338	13,152	1,228	239	1,559	462	3,067	3,229	349	208	1,108	1,703
Northeast Ohio Medical U.	339	13,116	0	137	12,577	0	0	0	290	91	0	21
U. San Diego	340	12,902	0	190	541	2,125	1,758	166	1,150	0	608	6,364
U. Missouri, Saint Louis	341	12,808	225	28	5,767	135	1,336	680	2,250	195	38	2,154
Midwestern U.	342	12,725	0	0	12,725	0	0	0	0	0	0	0
Oklahoma State U., Center for Health Sciences	343	12,500	107	0	9,376	0	0	2,998	0	0	0	19
Sam Houston State U.	344	11,760	109	86	1,829	455	467	208	4,784	0	109	3,713
Ball State U.	345	11,650	56	0	5,898	100	1,277	446	570	0	32	3,271
Rosalind Franklin U. of Medicine and Science	346	11,629	0	0	11,116	0	0	513	0	0	0	0
Kentucky State U.	347	11,591	13	0	11,578	0	0	0	0	0	0	0
Clark U.	348	11,539	326	1,430	3,733	15	1,435	613	3,741	0	0	246
California State U., San Marcos	349	11,443	640	229	2,102	52	1,109	894	140	4,551	937	789
California State U., Fresno	350	11,411	219	221	6,128	909	1,295	186	401	0	1,450	602
Central State U.	351	11,123	0	163	10,270	59	352	0	0	124	155	0
U.S. Naval Academy	352	10,920	1,179	439	0	1,044	2,148	0	262	0	5,848	0
U. Michigan, Dearborn	353	10,839	8	0	270	416	515	319	193	112	8,414	592
Wesleyan U.	354	10,828	0	963	1,998	659	2,538	1,193	250	85	0	3,142
U. Maryland, Eastern Shore	355	10,730	0	3,388	7,264	0	15	0	0	0	63	0
California State Polytechnic U., Pomona	356	10,722	432	4	4,204	106	1,453	19	93	50	1,673	2,688
Pacific U.	357	10,719	0	0	6,401	0	49	73	125	0	0	4,071
California State U., Monterey Bay	358	10,678	1,294	3,299	5,232	204	349	0	148	0	23	129
Pepperdine U.	359	10,632	5	0	2,953	217	139	939	2,794	117	0	3,468
Langston U.	360	10,505	0	0	9,676	27	110	518	0	0	0	174
Clark Atlanta U.	361	10,320	113	0	5,873	845	3,168	0	0	0	114	207
West Texas A&M U.	362	10,302	363	322	7,434	1	247	0	0	290	1,075	570

TABLE 23

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
California State U., Los Angeles	363	10,186	499	236	1,272	10	4,354	249	648	0	2,149	769
Kean U.	364	10,062	1,801	129	1,463	187	502	281	1,843	70	1	3,785
Gallaudet U.	365	9,894	2,868	36	3,261	102	308	521	2,028	0	0	770
Hampton U.	366	9,769	409	1,880	1,745	490	3,898	0	139	0	837	371
U. San Francisco	367	9,633	233	272	1,782	145	1,183	772	398	13	4	4,831
Middle Tennessee State U.	368	9,577	737	178	2,229	314	1,412	100	1,492	0	196	2,919
Rutgers, State U. New Jersey, Camden	369	9,527	3,577	0	363	2	229	44	3,541	0	0	1,771
Western Kentucky U.	370	9,298	13	963	3,615	52	1,717	1,087	396	0	615	840
Lamar U.	371	9,168	420	6	488	0	546	0	241	0	6,659	808
U. Northern Colorado	372	9,064	88	602	1,925	371	374	875	985	0	0	3,844
Bryn Mawr C.	373	9,039	368	337	1,141	541	1,094	479	1,716	0	0	3,363
Western U. of Health Sciences	374	8,929	0	0	4,946	0	0	0	0	0	0	3,983
U. Arkansas, Little Rock	375	8,685	2,804	0	1,821	0	452	0	85	0	2,063	1,460
Saint Joseph's U.	376	8,675	361	0	5,186	9	906	331	222	0	0	1,660
Winston-Salem State U.	377	8,668	746	0	2,928	43	551	195	264	0	0	3,941
Yeshiva U.	378	8,661	453	0	4,003	1,542	419	0	0	204	0	2,040
CUNY, Brooklyn C.	379	8,535	203	1,023	1,067	242	2,680	1,693	162	0	0	1,465
Appalachian State U.	380	8,479	536	986	4,134	72	971	130	296	0	266	1,088
Eastern Michigan U.	381	8,363	47	157	3,091	272	446	230	1,039	10	534	2,537
Lincoln U., Jefferson City	382	8,196	0	996	6,626	0	0	0	237	336	0	1
Abilene Christian U.	383	8,182	0	0	179	9	7,716	14	8	0	15	241
Hofstra U.	384	8,162	68	239	2,155	368	401	381	370	0	642	3,538
Amherst C.	385	8,152	312	845	1,485	994	1,728	333	833	524	0	1,098
U. Hawaii, Hilo	386	8,112	286	1,981	4,929	6	268	0	337	291	0	14
Southern Connecticut State U.	387	8,007	196	372	1,275	14	893	319	462	381	0	4,095
U. of the District of Columbia	388	7,945	351	146	107	227	7	284	50	145	3,342	3,286
U. Central Oklahoma	389	7,870	265	0	3,778	118	637	148	379	0	1,032	1,513
South Carolina State U.	390	7,814	1,025	278	3,360	0	541	0	619	0	924	1,067
U. Arkansas, Pine Bluff	391	7,766	0	0	6,081	0	726	0	0	477	0	482
Southern U. and A&M C., Agricultural Research and Extension Center	392	7,764	0	0	7,764	0	0	0	0	0	0	0
Pennsylvania State U., Behrend	393	7,614	1	1,466	2,704	46	773	183	2	0	1,892	547
Edward Via C. of Osteopathic Medicine	394	7,597	0	0	7,597	0	0	0	0	0	0	0
Grinnell C.	394	7,597	735	0	1,082	299	1,361	28	1,281	0	0	2,811

TABLE 23

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Purdue U., Northwest	396	7,504	510	0	1,035	0	302	10	0	261	3,078	2,308
Philadelphia C. of Osteopathic Medicine	397	7,459	0	0	7,459	0	0	0	0	0	0	0
MGH Institute of Health Professions	398	7,426	0	0	6,200	0	0	0	0	0	0	1,226
Arkansas State U., Jonesboro	399	7,323	120	0	5,853	0	342	41	193	0	660	114
Claremont Graduate U.	400	7,262	56	0	25	253	0	186	2,178	0	0	4,564
C. Charleston	401	7,231	421	2,157	1,677	109	768	63	429	0	583	1,024
Seton Hall U.	402	7,068	350	0	2,862	75	2,375	0	10	0	0	1,396
Texas A&M U.-Commerce	403	7,029	449	0	2,368	213	1,116	279	204	0	113	2,287
U. Colorado Colorado Springs	404	7,012	2,705	227	566	86	377	325	310	0	1,144	1,272
Claremont McKenna C.	405	6,925	166	4	239	178	191	496	5,165	44	0	442
Texas Woman's U.	406	6,922	43	0	4,253	166	286	1,450	412	10	0	302
Hope C.	407	6,910	49	43	2,289	56	1,652	110	390	0	493	1,828
U. North Carolina, Asheville	408	6,761	278	212	2,138	0	894	0	253	282	2	2,702
U. New England	409	6,756	0	440	6,282	2	15	0	1	0	0	16
Reed C.	410	6,750	i 172	i 0	i 2,991	i 155	i 978	i 271	i 587	i 0	i 0	i 1,596
U. Baltimore	411	6,615	353	0	0	0	14	75	3,062	0	0	3,111
Williams C.	412	6,448	i 137	i 384	i 2,592	i 119	i 768	i 235	i 606	i 0	i 0	i 1,607
California State U., Bakersfield	413	6,409	0	194	661	1,353	202	23	446	0	711	2,819
Barnard C.	414	6,320	327	236	1,571	0	1,588	1,277	756	0	0	565
Wellesley C.	414	6,320	208	420	1,171	644	879	636	923	14	50	1,375
U. Washington, Tacoma	416	6,243	117	3,991	541	182	0	0	100	208	328	776
Grand Valley State U.	417	6,231	108	2,990	1,401	75	339	74	592	0	239	413
Norfolk State U.	418	6,194	444	0	326	123	1,074	0	323	0	2,218	1,686
Northwest Indian C.	419	6,184	i 0	i 64	i 539	i 0	i 0	i 0	i 0	i 0	i 243	i 5,338
West Chester U. Pennsylvania	420	6,132	39	65	1,053	132	857	605	751	0	51	2,579
Azusa Pacific U.	421	6,097	119	0	2,795	49	256	1,021	35	0	21	1,801
Roseman U. of Health Sciences	422	6,065	0	0	6,065	0	0	0	0	0	0	0
Indiana U. Pennsylvania	423	6,052	246	178	1,909	1	204	555	380	138	0	2,441
U.S. Army War C.	424	6,035	i 0	i 0	i 0	i 0	i 0	i 0	i 6,035	i 0	i 0	i 0
California State U., Chico	425	5,984	3	485	2,734	25	396	0	110	0	1,465	766
Smith C.	426	5,954	659	128	2,023	455	517	357	283	74	567	891
High Tech High Graduate School of Ed.	427	5,939	0	0	0	0	0	0	0	0	0	5,939
U. Southern Maine	428	5,930	1,792	169	647	35	0	0	2,703	82	301	201

TABLE 23

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Lawrence Technological U.	461	4,632	0	0	0	127	57	0	0	0	816	3,632
Sonoma State U.	462	4,625	0	2,019	744	724	145	68	134	84	67	640
U. Wisconsin-Stevens Point	463	4,589	2	529	3,851	0	125	0	0	0	82	0
U. Northern Iowa	464	4,564	0	210	446	5	877	0	2,785	13	0	228
Colby C.	465	4,454	73	101	2,502	127	456	119	568	0	0	508
SUNY, C. of Optometry	466	4,423	0	0	4,423	0	0	0	0	0	0	0
U. of Health Sciences and Pharmacy in St. Louis	467	4,343	0	0	4,284	0	59	0	0	0	0	0
CUNY, system office	468	4,296	18	0	179	0	0	3	0	1,705	413	1,978
Carleton C.	469	4,185	299	1,775	265	260	390	309	491	0	1	395
Alfred U.	470	4,154	0	1	0	0	8	69	0	0	4,076	0
Pomona C.	471	4,149	224	328	500	433	1,040	315	923	0	0	386
Franklin and Marshall C.	472	4,111	42	514	672	68	920	237	424	0	0	1,234
Trinity C., Hartford	473	4,099	160	0	749	226	271	314	817	0	71	1,491
Haverford C.	474	4,088	114	92	1,556	97	1,183	326	200	0	0	520
CUNY, Baruch C.	475	4,084	0	269	807	682	347	175	169	9	0	1,626
Keck Graduate Institute	476	4,059	0	0	3,930	0	0	0	0	0	129	0
Pace U.	477	4,056	1,067	0	667	0	106	152	19	0	684	1,361
California State U., Channel Islands	478	3,992	149	82	1,854	536	357	7	197	609	0	201
St. John's U., New York	479	3,955	222	0	2,577	0	380	539	0	0	0	237
Austin Peay State U.	480	3,950	0	716	2,220	0	96	21	178	0	9	710
Seattle U.	481	3,949	67	10	676	104	327	162	415	0	282	1,906
Des Moines U.	482	3,932	0	12	3,560	0	0	0	246	0	0	114
Western Illinois U.	483	3,824	0	0	2,533	0	106	0	208	0	717	260
Northern Kentucky U.	484	3,790	52	0	1,864	155	505	674	182	5	0	353
Troy U.	485	3,785	0	133	373	0	2,538	12	24	0	47	658
Citadel Military C. South Carolina	486	3,757	2,419	35	65	18	122	25	11	0	491	571
Chicago State U.	487	3,756	8	0	1,984	0	1,534	0	230	0	0	0
Central Washington U.	488	3,683	384	2,043	464	209	267	0	226	0	56	34
Harvey Mudd C.	489	3,682	585	0	524	405	1,130	0	0	215	774	49
U. Nebraska, Kearney	490	3,681	111	0	1,862	3	832	61	64	0	0	748
Stephen F. Austin State U.	491	3,661	27	132	2,028	382	60	2	163	16	0	851
U. New Haven	492	3,602	992	132	404	1	131	231	1,453	0	120	138
Fayetteville State U.	493	3,569	524	0	872	0	183	0	173	47	141	1,629

TABLE 23

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Christopher Newport U.	494	3,507	0	0	628	159	1,394	77	134	0	541	574
U. Texas, Tyler	495	3,487	25	119	1,957	87	122	59	57	0	812	249
New Mexico Highlands U.	496	3,468	1,095	151	1,803	242	12	151	0	0	0	14
Roger Williams U.	497	3,465	5	883	1,157	0	224	84	0	52	202	858
Fort Lewis C.	498	3,372	24	35	1,054	0	725	0	0	0	628	906
Bowdoin C.	499	3,339	125	490	1,258	103	654	53	126	0	0	530
Milwaukee School of Engineering	500	3,317	82	0	431	0	0	0	0	0	2,790	14
Hamilton C.	501	3,285	110	270	190	16	606	62	514	0	0	1,517
Youngstown State U.	502	3,244	76	104	155	133	122	49	45	0	2,553	7
Alabama State U.	503	3,229	255	0	2,579	141	0	0	0	0	14	240
Murray State U.	504	3,193	0	614	1,908	166	481	0	0	0	0	24
Winthrop U.	505	3,189	97	0	308	62	378	0	138	0	0	2,206
Saginaw Valley State U.	506	3,143	i 289	i 0	i 2,025	i 0	i 0	i 1	i 222	i 0	i 0	i 606
U. Central Arkansas	507	3,092	154	75	1,219	7	399	0	25	0	221	992
U. Richmond	508	3,058	0	135	1,051	56	563	322	121	0	0	810
Minnesota State U., Mankato	509	3,055	143	168	702	58	46	304	124	0	1,166	344
Dine C.	510	3,054	0	0	2,551	0	0	0	0	0	147	356
Marian U., Indianapolis	511	3,009	0	0	1,774	43	33	0	9	569	0	581
Pittsburg State U.	512	2,979	0	0	430	0	39	0	49	0	2,461	0
Middlebury C.	513	2,975	229	585	827	35	598	125	343	0	0	233
East Stroudsburg U. Pennsylvania	514	2,928	9	0	2,082	0	0	0	9	0	0	828
Davidson C.	515	2,926	114	0	709	298	605	506	400	0	0	294
U. Wisconsin-La Crosse	516	2,921	60	39	729	21	322	21	1,359	10	0	360
Hawaii Pacific U.	517	2,913	140	574	2,196	0	0	0	0	0	0	3
St. Cloud State U.	518	2,901	25	8	387	0	12	4	401	0	54	2,010
Touro U., California	519	2,877	0	0	2,877	0	0	0	0	0	0	0
Southeastern Louisiana U.	520	2,858	266	0	1,357	0	427	0	30	0	140	638
CUNY, New York City C. of Technology	521	2,819	241	0	162	220	585	0	24	0	806	781
Purdue U., Fort Wayne	522	2,804	0	0	438	458	99	151	231	229	192	1,006
U. Wisconsin-Green Bay	523	2,801	82	i 121	i 1,590	i 21	i 166	i 45	i 97	i 0	i 484	i 195
U. Wisconsin-River Falls	524	2,772	0	0	2,125	0	373	0	0	0	42	232
U. Texas of the Permian Basin	525	2,769	0	161	593	7	51	62	271	0	416	1,208
Lewis and Clark C.	526	2,686	24	171	647	21	214	0	101	0	0	1,508

TABLE 23

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Tougaloo C.	527	2,663 i	106 i	2 i	1,368 i	105 i	610 i	127 i	70 i	2 i	2 i	271 i
Morehead State U.	528	2,658	0	0	389	0	0	123	5	0	2,141	0
C. New Jersey	529	2,641	214	0	1,107	66	529	25	209	150	278	63
SUNY, Buffalo State U.	530	2,636	53	1,276	945	192	47	18	72	0	0	33
Bowie State U.	531	2,612	892	0	1,002	14	0	0	69	0	0	635
Marymount U.	532	2,601	427	0	790	39	32	180	287	0	111	735
Vassar C.	533	2,596	48	223	798	185	450	373	349	0	0	170
Albany C. of Pharmacy and Health Sciences	534	2,594 i	0 i	0 i	2,594 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
SUNY, Cobleskill	535	2,566	0	0	140	0	0	0	0	0	2,301	125
Calvin U.	536	2,555	25 i	30 i	523 i	63 i	536 i	2 i	35 i	0 i	134 i	1,207 i
Eastern Washington U.	537	2,546	0	37	454	1	86	87	1,810	0	71	0
Lake Superior State U.	538	2,545	0	0	2,477	0	25	0	0	0	43	0
Elon U.	539	2,544	42	0	457	109	116	212	297	56	30	1,225
Western Carolina U.	540	2,543	0	484	822	72	56	0	182	0	395	532
Mount Holyoke C.	541	2,533	118	119	618	191	347	377	257	0	0	506
Monmouth U.	542	2,517	38	1,838	337	0	32	0	168	0	0	104
U. Illinois, Springfield	543	2,508	0	0	3	0	0	64	930	21	0	1,490
Colorado C.	544	2,498	77	164	263	142	283	69	703	0	0	797
La Sierra U.	545	2,496 i	0 i	0 i	8 i	0 i	1 i	82 i	0 i	0 i	0 i	2,405 i
National Defense U.	546	2,494	143	0	400	0	0	0	1,951	0	0	0
New England C. of Optometry	547	2,491	0	0	2,491	0	0	0	0	0	0	0
Franklin W. Olin C. of Engineering	548	2,450	0	0	0	0	0	0	0	0	2,312	138
Erikson Institute	549	2,414	0	0	0	0	0	0	0	0	0	2,414
Wheaton C., Wheaton	550	2,403	0	217	430	0	119	542	825	0	0	270
Stockton U.	551	2,386	0	964	313	0	0	0	1,109	0	0	0
Skidmore C.	552	2,384	0	394	825	19	456	324	214	0	0	152
Hobart and William Smith Colleges	553	2,373	16	300	1,653	15	211	2	40	19	0	117
Virginia Military Institute	554	2,350	1,805	0	88	46	108	0	29	0	147	127
Benedict C.	555	2,307	189	0	354	187	149	0	0	0	1,428	0
California State U., Stanislaus	556	2,305	125	2	813	281	203	364	441	0	0	76
Dillard U.	557	2,296	0	33	1,498	14	163	0	1	198	85	304
U. of St. Thomas (MN)	558	2,280	2	5	143	1	338	336	13	0	1,145	297
Furman U.	559	2,267	12	172	574	0	1,250	173	12	0	0	74

TABLE 23

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Northeastern Illinois U.	560	2,262	481	44	1,271	0	0	0	11	0	0	455
Black Hills State U.	561	2,260	421	0	1,400	0	120	2	0	0	0	317
Florida Polytechnic U.	561	2,260	486	0	0	30	7	0	75	0	1,404	258
U. South Carolina, Aiken	563	2,250	3	124	784	13	165	24	1	0	126	1,010
U. of the Incarnate Word	564	2,245	10	6	1,324	0	349	0	0	0	289	267
C. Wooster	565	2,209	789	176	224	123	524	12	168	0	0	193
U. Louisiana, Monroe	566	2,203	0	127	1,682	0	195	0	169	0	0	30
U. Wisconsin-Eau Claire	567	2,191	0	302	139	22	1,160	327	175	0	0	66
U. Ana G. Mendez, Gurabo	568	2,132	0	0	0	0	0	0	0	0	0	2,132
U. Houston-Clear Lake	569	2,127	57	0	1,369	0	206	103	56	5	184	147
Bates C.	570	2,118	221	118	1,378	11	175	60	73	0	0	82
U. Wisconsin-Oshkosh	571	2,087	10	28	810	0	196	10	129	0	157	747
U. Puerto Rico, Humacao	572	2,074	0	105	117	0	1,852	0	0	0	0	0
Northwestern State U. Louisiana	573	2,057	i 147	i 0	i 204	i 26	i 0	i 8	i 978	i 0	i 9	i 685
Utah Valley U.	574	2,015	115	96	256	159	563	0	0	152	668	6
Lafayette C.	575	1,991	117	80	197	118	445	76	164	0	581	213
U. of the Pacific	576	1,972	87	221	1,448	0	88	0	0	0	128	0
U. Houston-Downtown	577	1,967	367	30	245	35	110	41	0	0	79	1,060
SUNY, Geneseo	578	1,958	0	55	286	7	1,176	149	39	0	0	246
Babson C.	579	1,957	0	i 0	i 2	i 55	i 0	i 0	i 470	i 0	i 0	i 1,430
Lipscomb U.	580	1,946	0	0	360	0	6	0	0	0	153	1,427
Macalester C.	581	1,935	48	238	352	96	682	8	251	0	0	260
Albany State U.	582	1,932	57	0	158	60	111	0	169	188	1,177	12
Ferris State U.	583	1,915	0	0	1,411	252	179	0	0	9	0	64
Liberty U.	584	1,900	369	0	728	0	0	0	0	0	588	215
Union C., Schenectady	585	1,881	53	344	108	75	383	41	127	14	519	217
SUNY, C. Brockport	586	1,877	12	0	1,444	0	310	0	81	0	0	30
Northern Michigan U.	587	1,871	30	100	1,080	35	15	149	70	0	0	392
Alaska Pacific U.	588	1,823	0	1,735	7	0	0	0	0	0	0	81
U. Alaska, Southeast	589	1,822	0	372	566	0	66	0	86	541	92	99
Marshall B. Ketchum U.	590	1,777	i 0	i 0	i 1,777	i 0	i 0	i 0	i 0	i 0	i 0	i 0
Nevada State C.	591	1,744	0	59	995	0	0	286	0	0	0	404
Palmer C. of Chiropractic, Davenport	592	1,725	0	0	1,725	0	0	0	0	0	0	0

TABLE 23

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Drake U.	593	1,724	7	0	486	86	158	6	14	0	0	967
St. Olaf C.	593	1,724	129	111	908	71	196	42	90	0	0	177
SUNY, C. Plattsburgh	595	1,722	0	1,078	292	0	331	0	21	0	0	0
CUNY, York C.	596	1,711	0	518	430	356	188	91	0	0	0	128
Savannah State U.	597	1,706	0	522	318	0	85	0	74	205	502	0
U. North Georgia	598	1,643	149	132	77	21	218	5	131	0	0	910
Elizabeth City State U.	599	1,641	386	0	495	0	0	3	116	0	0	641
Lincoln Memorial U.	599	1,641	0	0	1,622	0	0	0	0	0	0	19
Norwich U.	601	1,637	0	77	301	178	200	350	1	196	124	210
Colorado State U., Pueblo	602	1,624	158	0	1,395	0	0	0	63	0	8	0
U. Puget Sound	603	1,613	3	65	1,166	3	127	0	64	69	0	116
Johnson C. Smith U.	604	1,602	43	308	98	0	0	0	0	0	0	1,153
SUNY, Oswego	605	1,595	26	332	188	5	315	142	76	251	150	110
Indiana U., South Bend	606	1,593	5	0	141	0	392	177	34	324	0	520
Texas A&M U.-San Antonio	606	1,593	117	38	409	29	0	91	87	53	34	735
Bentley U.	608	1,589	8	138	947	0	0	0	47	0	72	377
Whitman C.	609	1,568	17	221	311	0	656	93	94	0	0	176
Merrimack C.	610	1,560	0	0	1,338	16	36	0	59	0	16	95
Pratt Institute	611	1,558	0	0	0	0	0	0	0	0	0	1,558
Willamette U.	612	1,542	4	197	243	8	227	69	0	70	0	724
U. Hartford	613	1,533	15	0	115	48	32	33	174	0	1,067	49
U. Puerto Rico, Cayey	614	1,519	0	0	81	0	248	0	237	953	0	0
Hartford International U. for Religion and Peace	615	1,485	0	0	0	0	0	0	0	0	0	1,485
Fairfield U.	616	1,484	92	6	131	118	76	92	64	47	225	633
U. Wisconsin-Platteville	617	1,481	48	0	665	25	107	25	121	17	223	250
Saint John's U.	618	1,479	26	0	618	17	142	49	164	0	0	463
U. South Carolina, Beaufort	619	1,466	558	289	292	15	0	0	3	0	135	174
Biola U.	620	1,461	0	0	163	0	0	665	0	0	0	633
West Virginia School of Osteopathic Medicine	621	1,459	0	0	1,457	0	0	0	0	0	0	2
Eastern Connecticut State U.	622	1,449	65	30	83	117	7	158	34	3	0	952
Eastern Kentucky U.	623	1,446	0	0	458	0	598	8	63	0	69	250
Northland C.	624	1,442	0	102	818	50	0	82	99	0	0	291
Connecticut C.	625	1,440	66	0	518	0	144	189	35	0	0	488

TABLE 23

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Robert Morris U.	626	1,419	210	0	48	13	7	23	20	0	612	486
Clafin U.	627	1,418	306	53	562	0	340	0	94	0	63	0
Oberlin C.	628	1,408	122	88	351	49	467	62	44	28	0	197
C. of Saint Benedict	629	1,400 i	26 i	0 i	592 i	18 i	142 i	47 i	150 i	0 i	0 i	425 i
Butler U.	630	1,396	0	0	821	4	406	11	28	0	0	126
United Tribes Technical C.	631	1,387	61	0	666	0	0	0	0	0	444	216
U. Hawaii, Maui C.	632	1,376	186	313	521	0	61	0	0	0	0	295
Kenyon C.	633	1,371	0	0	694	69	523	5	34	0	0	46
National U. of Natural Medicine	634	1,336	0	0	1,336	0	0	0	0	0	0	0
St. Edward's U.	635	1,334	20	304	680	35	70	60	140	25	0	0
Indiana State U.	636	1,327	0	137	461	0	16	0	0	0	59	654
Arcadia U.	637	1,321	0	0	43	0	0	0	0	0	0	1,278
Radford U.	638	1,315	71	14	255	0	0	9	203	235	0	528
Andrews U.	639	1,255	1	21	65	28	380	0	144	0	48	568
Heidelberg U.	640	1,254	0	1,254	0	0	0	0	0	0	0	0
Manhattan C.	641	1,250	0	0	114	260	79	0	221	0	447	129
U. Virginia's C. Wise	642	1,223	223	6	180	76	18	0	40	0	0	680
Pennsylvania State U., Altoona	643	1,215	0	0	609	39	77	0	3	0	425	62
U. Scranton	644	1,169	35	561	251	0	100	8	8	0	4	202
Ursinus C.	645	1,150	12	0	665	120	344	3	6	0	0	0
U. of Mary Washington	646	1,115	71	25	213	2	63	33	38	0	0	670
Western New England U.	646	1,115	76	0	318	35	0	0	0	0	686	0
Gettysburg C.	648	1,099	4	0	274	0	228	24	393	0	0	176
New C. Florida	649	1,080	99	21	720	43	40	14	38	0	32	73
Southern U., New Orleans	650	1,004	0	0	536	0	0	0	0	0	0	468
Gustavus Adolphus C.	651	969	0	124	64	13	598	8	14	0	0	148
Central Connecticut State U.	652	934	27	10	95	40	82	21	219	0	172	268
Canisius U.	653	905	0	0	0	0	108	0	0	797	0	0
Ithaca C.	654	861	72	154	76	87	277	6	44	0	0	145
Rhode Island C.	655	839	98	0	358	0	326	57	0	0	0	0
Framingham State U.	656	735	0	0	710	0	5	0	13	0	0	7
U.S. Coast Guard Academy	657	689	108	20	0	7	62	0	207	0	133	152
U. Puerto Rico, Ponce	658	659	0	0	401	69	9	0	0	0	0	180

TABLE 23

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Lincoln U.	659	628	96	0	232	0	14	0	0	0	0	286
Bryant U.	660	558	3	7	353	82	0	0	12	0	0	101
William Paterson U.	661	533	32	114	121	1	1	79	18	0	0	167
Grambling State U.	662	449	112	16	118	0	0	101	0	0	0	102
Albion C.	663	276	0	73	0	0	203	0	0	0	0	0
St. Mary's C. Maryland	664	205	0	158	0	0	22	0	0	0	13	12

i = imputed.

nec = not elsewhere classified; S&E = science and engineering.

^a Johns Hopkins University includes the Applied Physics Laboratory, with \$2,333,049 thousand in total R&D expenditures in FY 2023.^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.^c The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.**Note(s):**

Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#). This table includes only institutions reporting \$1 million or more in total R&D expenditures in 2022. Institutions reporting less than \$1 million in total R&D expenditures in 2022 completed a shorter version of the survey form in FY 2023, and that form did not collect R&D expenditures by source and detailed field. For R&D expenditures by major field at institutions completing the shorter version of the survey, see [table 84](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 24

Federally financed higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
All institutions	-	37,477,582	40,768,251	40,142,223	39,445,931	37,961,118	37,846,802	38,787,982	40,248,055	41,860,383	44,460,361	46,106,870	49,117,850	53,974,897	59,603,993
Johns Hopkins U. ^a	1	1,737,261	1,884,025	1,857,580	1,898,927	1,950,016	1,992,837	2,104,653	2,178,605	2,251,097	2,482,130	2,682,410	2,774,643	2,971,816	3,324,551
U. Washington, Seattle	2	829,885	948,976	909,652	928,193	909,034	906,768	946,787	952,738	989,221	992,643	1,024,195	1,046,377	1,083,090	1,188,836
Georgia Institute of Technology	3	372,122	427,867	484,212	522,134	512,015	551,084	568,430	584,891	654,877	716,207	790,518	852,319	940,488	1,083,903
U. California, San Diego	4	580,279	636,879	656,891	632,593	599,095	603,343	604,298	641,469	635,888	698,925	727,289	801,117	970,696	1,083,790
U. Michigan, Ann Arbor	5	747,778	820,125	791,729	814,167	742,160	735,447	786,749	829,695	849,123	886,851	884,880	891,125	970,636	1,041,430
Columbia U. in the City of New York	6	572,213	645,233	645,573	635,987	608,588	592,545	600,457	647,840	686,338	736,536	762,289	831,648	904,346	988,670
Duke U.	7	514,084	585,262	587,268	581,695	557,969	559,217	575,521	623,573	645,259	709,705	707,746	776,632	901,807	974,202
Stanford U.	8	593,016	656,114	636,348	652,472	637,730	675,930	694,693	710,698	711,443	738,957	751,414	811,183	860,125	943,669
U. Pennsylvania	9	642,180	707,051	669,970	636,589	620,396	611,620	655,791	669,911	688,313	717,359	721,308	792,089	873,318	936,469
U. Pittsburgh, Pittsburgh	10	594,675	662,471	637,857	622,232	582,136	561,210	580,650	617,884	649,166	677,559	689,273	724,993	814,647	916,735
U. North Carolina, Chapel Hill	11	545,993	600,843	606,348	623,237	610,664	585,758	632,426	676,282	701,169	720,613	706,145	747,895	827,158	907,710
U. California, Los Angeles	12	538,521	563,560	539,054	501,368	465,170	489,404	487,869	487,846	576,076	600,714	655,030	721,043	848,138	878,571
U. California, San Francisco	13	514,693	570,116	559,329	566,117	544,697	535,457	602,705	606,768	669,470	671,047	676,331	683,179	780,318	858,066
U. Maryland ^b	14	na	na	na	na	na	na	na	na	na	696,880	689,125	713,283	750,447	825,546
U. Wisconsin-Madison	15	545,189	593,633	580,661	555,875	548,388	533,286	567,132	570,796	574,048	608,925	632,558	646,764	740,854	816,814
New York U.	16	260,463	302,221	316,208	300,730	330,484	344,570	350,355	391,144	416,143	436,850	448,850	547,027	668,381	787,204
Pennsylvania State U., University Park and Hershey Medical Center	17	464,750	468,705	531,421	558,871	520,574	513,410	538,938	538,164	565,348	600,489	638,930	622,532	681,159	781,303
Washington U., Saint Louis	18	468,642	469,490	441,406	411,299	419,122	432,228	442,335	474,446	506,006	543,508	559,882	606,127	681,353	758,464
Vanderbilt U. and Vanderbilt U. Medical Center	19	397,656	458,173	448,948	445,044	422,448	401,738	405,589	452,885	471,625	492,808	514,299	586,880	666,282	751,019
Yale U.	20	475,794	519,844	518,184	503,227	480,384	477,143	503,221	541,608	552,242	576,776	585,170	647,656	689,270	741,198
Cornell U.	21	448,085	476,583	472,673	445,116	439,770	446,360	430,987	438,182	470,020	525,182	562,021	592,359	636,481	705,132
U. Minnesota, Twin Cities	22	426,359	489,480	485,462	494,206	489,767	476,029	469,260	456,443	464,300	494,549	514,092	570,946	652,384	702,483
Ohio State U.	23	399,942	493,130	445,635	456,590	454,484	446,048	454,834	464,311	474,994	497,651	539,359	559,797	636,902	694,647
U. Southern California	24	408,564	453,283	443,842	437,813	431,430	421,227	409,516	450,204	501,893	543,607	562,120	574,185	601,747	683,819
Northwestern U.	25	360,980	399,719	393,074	396,138	391,946	393,186	432,413	446,609	469,525	502,300	531,654	572,975	618,771	678,062
Emory U.	26	336,986	369,982	361,165	365,121	330,378	348,071	361,288	382,177	393,647	424,461	452,636	515,940	568,149	664,370
Icahn School of Medicine at Mount Sinai	27	302,770	296,835	271,722	277,517	300,667	329,641	342,104	367,522	398,656	443,745	480,452	554,582	610,646	658,916

TABLE 24

Federally financed higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Harvard U.	28	474,899	543,097	589,860	594,392	572,918	545,202	558,611	573,157	587,584	618,405	605,603	616,589	628,683	639,953
U. Texas, Austin	29	350,308	355,437	354,873	372,633	332,758	346,215	357,309	396,447	405,131	407,981	500,409	489,827	536,296	621,223
Massachusetts Institute of Technology	30	457,575	489,080	496,132	490,809	483,891	488,421	503,858	487,434	479,654	489,345	488,741	483,526	531,056	559,766
Texas A&M U., College Station and Health Science Center	31	288,173	291,812	269,460	314,104	311,920	304,437	293,551	307,656	333,768	359,609	517,489	528,057	505,355	546,481
U. Colorado Boulder	32	292,030	323,078	330,089	319,869	314,890	353,341	371,995	374,209	391,817	412,691	427,869	459,816	507,892	538,715
U. Florida	33	279,649	306,349	305,067	296,199	289,327	287,230	307,140	327,288	355,517	387,906	397,202	423,154	467,739	529,391
U. California, Berkeley	34	312,789	336,191	338,759	311,809	313,390	346,262	341,807	330,339	329,464	347,601	349,989	354,478	468,542	496,298
U. California, Davis	35	332,325	362,976	358,577	347,038	330,367	326,039	339,209	342,407	360,018	374,707	380,965	373,719	468,468	494,847
U. Chicago	36	352,728	372,288	336,125	300,718	281,464	294,437	297,953	308,002	303,175	332,776	352,447	394,275	456,806	476,689
U. Colorado Anschutz Medical Campus ^c	37	na	na	na	na	na	na	na	na	na	na	na	363,999	429,949	474,523
U. Illinois, Urbana-Champaign	38	303,852	323,454	359,989	468,798	343,275	338,178	335,056	358,905	353,710	382,206	387,853	406,612	420,953	460,491
U. Alabama, Birmingham	39	325,103	344,164	306,210	290,082	280,333	328,531	348,632	358,916	373,360	398,403	400,110	423,290	421,223	451,880
Baylor C. of Medicine	40	284,072	295,529	268,753	285,230	264,641	256,895	267,849	292,806	300,098	309,354	315,101	365,472	420,054	440,345
Michigan State U.	41	214,134	240,837	268,952	260,610	261,826	272,838	310,225	343,751	328,618	331,148	329,748	349,889	381,504	435,564
U. Arizona	42	308,157	327,565	331,578	338,790	290,370	269,959	262,989	273,567	291,767	327,025	328,807	353,117	374,936	434,700
Indiana U., Bloomington	43	71,208	74,143	79,727	85,852	84,592	210,899	221,801	245,155	249,243	308,586	319,039	326,326	360,300	432,223
Case Western Reserve U.	44	333,689	353,470	359,000	349,487	329,320	308,434	321,214	326,643	349,177	357,549	357,589	340,438	380,423	431,736
U. Utah	45	227,021	264,234	273,150	301,045	288,514	274,375	233,652	248,908	307,844	302,585	314,023	340,434	367,040	416,079
Boston U.	46	302,411	305,476	275,319	267,194	257,017	259,736	253,475	259,832	284,888	318,511	339,172	402,443	413,102	409,551
Uniformed Services U. of the Health Sciences	47	72,125	117,781	102,134	119,647	213,389	299,007	175,007	204,241	218,702	297,808	235,202	275,573	194,187	403,671
Rutgers, State U. New Jersey, New Brunswick	48	224,894	239,908	279,161	295,028	360,157	323,675	321,432	340,801	350,912	297,609	311,743	339,015	351,660	400,930
U. Cincinnati	49	262,513	287,182	267,691	258,460	245,086	251,717	231,817	242,237	250,202	252,892	285,899	309,097	350,392	391,943
Purdue U., West Lafayette	50	232,564	259,948	270,655	271,504	236,860	217,330	229,093	245,110	251,517	249,831	270,605	295,278	352,890	385,738
Oregon Health and Science U.	51	247,054	268,777	242,337	246,491	247,740	245,509	232,688	245,199	264,492	298,227	321,572	329,016	346,724	374,043
U. Rochester	52	322,048	337,907	308,115	299,553	266,767	262,681	266,322	267,860	285,330	306,551	296,241	309,647	334,503	368,190
U. Virginia, Charlottesville	53	228,917	252,928	240,254	225,567	205,865	203,401	210,980	228,910	250,168	276,335	300,348	297,273	332,993	354,748
Colorado State U., Fort Collins	54	211,297	236,566	252,286	219,856	212,054	219,321	232,108	239,165	268,747	284,482	287,100	303,901	316,727	354,401
Arizona State U.	55	172,202	185,766	194,376	201,363	196,270	196,528	212,396	227,621	254,384	267,087	278,150	274,541	309,094	340,880

TABLE 24

Federally financed higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
U. Texas Southwestern Medical Center	56	232,027	231,639	207,513	198,114	185,137	183,787	185,263	200,085	197,910	203,544	242,679	257,611	298,154	336,126
U. California, Irvine	57	194,559	209,117	206,985	198,730	182,585	174,875	177,779	187,535	201,173	217,094	241,734	255,010	291,393	335,393
U. Iowa	58	282,465	283,627	269,734	255,329	235,527	225,587	237,743	238,842	246,117	252,563	259,639	283,763	314,346	331,824
Utah State U.	59	90,581	113,871	108,501	106,985	114,959	120,369	125,661	138,518	159,447	220,504	242,156	264,575	280,866	322,336
California Institute of Technology	60	328,522	342,945	326,701	282,823	279,515	272,673	265,206	277,358	280,451	287,198	316,519	293,197	326,401	310,519
U. Miami	61	197,824	225,352	224,172	205,870	203,751	193,606	195,328	194,385	192,598	212,023	224,184	231,001	265,212	291,783
Virginia Polytechnic Institute and State U.	62	162,566	189,198	184,175	201,646	204,308	196,096	195,859	186,054	199,897	209,607	210,792	216,733	240,305	282,152
U. Nebraska, Lincoln and Medical Center ^d	63	na	na	na	na	na	na	na	na	na	na	na	na	na	280,120
Carnegie Mellon U.	64	179,386	200,967	209,522	215,560	198,247	187,259	190,620	189,974	181,958	197,978	217,625	234,993	259,160	279,954
North Carolina State U.	65	139,096	155,293	174,758	177,118	181,449	199,862	202,336	218,274	219,258	228,945	232,110	239,115	250,582	279,179
Scripps Research Institute	66	313,746	317,201	309,471	308,628	292,268	274,097	242,489	250,090	267,088	267,122	243,502	272,181	242,135	278,099
U. Illinois, Chicago	67	232,380	248,936	246,128	222,566	203,733	196,010	187,990	198,049	196,840	208,603	223,030	237,949	251,328	274,424
U. Kentucky	68	171,528	179,161	159,678	150,468	142,312	146,548	154,559	171,323	171,672	192,945	200,664	220,703	253,852	265,543
U. Texas M. D. Anderson Cancer Center	69	206,664	236,400	196,753	182,971	158,986	161,171	155,044	166,552	173,206	176,156	186,488	217,073	225,659	259,285
SUNY, U. Buffalo	70	167,099	182,585	193,613	204,995	189,209	177,441	182,883	186,836	186,494	182,983	200,155	210,257	218,231	257,857
U. South Florida ^e	71	243,017	243,030	236,148	225,414	222,790	218,338	228,365	250,384	179,024	181,882	158,958	185,364	206,552	242,224
Brown U.	72	127,087	128,628	131,994	126,559	129,248	132,142	136,931	145,556	164,452	178,460	185,676	198,574	215,067	239,744
U. Connecticut	73	132,169	144,280	153,264	148,651	144,104	137,980	146,390	145,637	144,048	159,220	164,848	183,362	230,752	238,701
Woods Hole Oceanographic Institution	74	153,066	165,819	161,115	158,672	177,616	172,995	166,010	148,491	163,003	184,995	191,186	222,351	211,550	238,554
Albert Einstein C. of Medicine	75	na	na	na	na	na	na	188,521	188,259	196,457	202,513	204,635	214,619	220,780	230,151
U. Massachusetts, Medical School	76	178,293	208,244	202,149	189,159	183,582	183,588	181,446	200,232	194,953	197,388	192,938	248,873	258,147	223,490
Oregon State U.	77	135,886	146,882	156,446	149,396	145,247	153,017	158,142	163,479	171,805	168,571	167,494	179,180	192,621	222,169
U. Georgia	78	119,486	137,255	137,710	131,824	126,164	132,118	143,886	158,229	148,543	159,948	171,351	188,451	220,343	221,804
U. Oklahoma, Norman and Health Science Center	79	105,366	118,970	133,841	132,456	118,925	127,709	134,772	133,177	149,317	164,855	183,728	193,639	210,994	219,964
Princeton U.	80	150,261	163,438	161,591	156,541	164,277	158,313	162,003	176,029	180,305	193,453	203,259	205,000	218,390	219,600
U. Missouri, Columbia	81	116,965	116,403	114,345	111,510	104,910	105,015	126,071	134,525	138,029	139,781	156,190	163,576	182,432	217,091
U. Dayton	82	73,540	70,996	65,169	67,698	66,318	77,973	100,955	118,452	132,358	153,328	154,101	181,445	203,206	216,729
U. Kansas	83	147,598	162,721	171,043	174,021	165,442	155,835	140,002	148,178	155,147	169,694	185,007	187,249	200,117	211,111
Washington State U.	84	113,452	123,502	129,255	134,329	126,955	134,889	136,646	152,843	151,133	158,982	154,623	179,536	187,580	207,086

TABLE 24

Federally financed higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
U. New Mexico	85	148,216	162,854	160,895	158,057	153,889	154,794	159,280	165,128	169,952	159,940	161,627	242,212	232,774	205,351
Wake Forest U.	86	159,084	173,130	172,779	156,506	153,069	148,451	141,052	148,001	154,363	165,702	166,596	188,887	180,754	204,713
U. Delaware	87	105,454	118,673	117,072	119,756	116,340	114,245	113,217	117,813	118,573	133,020	144,142	157,725	194,775	202,469
U. Texas Health Science Center, Houston	88	150,324	156,790	146,424	144,235	136,145	125,890	121,098	124,461	128,232	132,647	133,624	165,139	184,205	197,759
Iowa State U.	89	109,461	117,522	118,242	121,993	116,273	114,518	125,397	128,221	147,679	147,866	165,912	169,177	187,156	195,394
Florida State U.	90	134,794	140,850	140,419	148,413	151,701	139,597	126,289	134,278	147,184	149,784	162,296	150,108	163,744	195,323
SUNY, Stony Brook U.	91	120,146	125,102	123,383	118,513	111,683	115,150	118,549	125,688	136,241	144,618	146,478	162,972	184,154	192,448
U. Hawaii, Manoa	92	196,275	201,700	193,722	225,359	206,810	200,202	190,336	182,337	167,030	167,816	163,694	157,772	169,762	192,205
Northeastern U.	93	59,074	67,938	77,667	85,170	79,666	80,576	81,124	93,572	114,711	126,762	136,273	143,421	150,093	186,013
Virginia Commonwealth U.	94	144,138	153,228	142,053	135,804	138,559	142,447	143,701	147,585	140,363	142,293	152,751	160,995	169,450	184,852
U. California, Santa Barbara	95	129,457	136,244	136,352	132,960	121,045	116,232	116,775	117,457	113,388	118,517	123,198	122,168	161,241	179,896
Medical U. South Carolina	96	131,650	143,464	136,907	127,472	118,649	117,255	124,212	134,072	142,639	153,226	153,802	162,394	163,395	168,957
Dartmouth C. and Dartmouth Hitchcock Medical Center	97	118,271	131,583	147,421	155,209	145,498	146,233	139,090	137,448	140,399	137,965	142,219	152,335	155,445	168,740
George Washington U.	98	122,357	116,611	112,110	120,857	141,552	139,016	142,889	148,369	156,768	155,697	157,533	161,349	161,867	162,892
U. Alaska, Fairbanks	99	99,657	105,469	99,674	94,953	85,904	81,586	89,940	97,314	94,998	92,964	101,414	128,229	154,742	156,702
Florida International U.	100	62,580	65,446	69,402	72,357	78,961	76,528	76,127	71,579	85,541	96,912	103,366	105,309	129,683	156,381
Medical C. Wisconsin	101	121,750	133,929	125,325	116,765	111,241	109,542	108,529	108,276	111,273	119,036	128,783	136,385	152,301	155,403
Temple U.	102	79,939	89,719	90,243	131,872	126,803	129,499	140,775	153,404	155,312	161,673	154,600	153,316	143,580	154,516
Tufts U.	103	116,699	122,208	121,512	113,450	116,204	121,428	126,109	139,532	139,334	146,630	148,320	166,809	150,081	154,458
U. Tennessee, Knoxville ^f	104	96,972	111,942	112,471	117,836	112,201	105,417	109,722	117,097	117,776	123,434	138,402	135,202	149,260	153,637
Tulane U.	105	106,872	111,007	101,360	97,994	94,486	84,166	89,087	93,970	102,201	104,219	107,290	113,819	127,544	152,468
U. New Hampshire	106	84,553	106,806	119,451	102,053	101,125	92,040	93,599	92,338	95,807	90,241	100,373	99,323	129,721	152,377
Mississippi State U.	107	106,324	98,998	96,689	74,075	71,715	80,097	87,277	87,928	89,012	104,738	120,616	116,713	138,207	150,804
U. Texas Medical Branch	108	128,840	128,098	109,867	108,287	101,761	98,050	100,464	104,458	104,356	107,806	114,103	117,915	123,467	150,272
U. Notre Dame	109	62,152	79,716	83,295	79,564	79,690	83,710	87,129	91,787	96,182	106,411	104,030	109,891	124,411	147,985
U. Texas Health Science Center, San Antonio	110	121,723	121,200	106,177	99,198	89,303	85,940	89,742	85,455	86,956	96,502	102,959	106,824	119,071	143,730
Montana State U., Bozeman	111	93,100	87,528	86,511	73,619	72,777	69,136	68,471	74,788	75,524	88,955	93,759	113,257	118,974	142,965
Wichita State U.	112	13,751	20,569	19,078	13,434	10,424	7,728	10,442	21,685	18,706	29,634	53,540	77,427	93,367	142,371
U. Massachusetts, Amherst	113	97,937	107,683	115,280	111,448	110,189	103,417	106,269	108,871	110,654	117,359	116,170	116,349	129,044	138,849
Clemson U.	114	62,934	52,919	51,764	52,002	49,887	53,136	60,165	70,256	73,735	81,080	82,203	89,883	119,512	129,955

TABLE 24

Federally financed higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
U. Vermont	115	98,635	101,471	87,843	85,118	79,743	83,733	83,124	78,394	86,940	90,405	97,981	103,554	117,163	128,645
Wayne State U.	116	132,166	134,735	126,915	119,520	113,618	109,586	111,532	109,421	111,018	118,043	113,137	117,976	126,814	128,521
Georgetown U.	117	120,589	123,540	115,197	114,760	100,475	88,015	83,827	94,435	89,977	94,050	98,682	130,419	127,213	127,370
Louisiana State U., Baton Rouge	118	97,407	97,517	92,551	94,563	94,701	83,644	86,754	81,644	84,309	88,721	87,895	103,178	111,886	127,243
U. Alabama, Huntsville	119	73,075	72,665	78,528	85,738	75,343	67,451	69,824	68,609	74,650	85,211	104,288	116,971	132,060	126,040
Auburn U., Auburn	120	53,971	59,559	55,557	57,253	50,088	48,352	54,751	55,700	58,488	64,333	73,468	91,157	104,883	125,783
George Mason U.	121	63,011	65,301	63,786	65,096	61,877	63,600	58,864	57,345	69,481	96,307	104,070	103,712	119,406	125,437
U. South Carolina, Columbia	122	125,501	103,296	98,836	91,612	91,890	90,453	93,885	96,048	88,602	102,992	90,243	88,529	106,752	124,330
U. Central Florida	123	69,331	69,098	78,411	76,533	70,716	88,814	87,417	89,904	97,539	99,310	101,332	109,310	110,131	124,256
U. California, Riverside	124	63,127	62,312	63,821	59,065	57,397	63,515	70,489	76,795	77,314	81,151	92,503	97,182	114,257	120,524
Rice U.	125	69,395	78,730	76,964	80,075	73,965	74,266	83,273	84,469	78,175	83,584	88,768	95,648	105,345	119,853
West Virginia U.	126	79,415	88,419	82,149	74,704	69,165	68,731	72,751	72,767	76,527	82,353	79,657	89,802	97,327	114,708
U. California, Santa Cruz	127	84,518	97,817	94,222	91,002	90,858	92,870	95,294	66,563	63,197	74,669	76,468	86,263	107,082	112,847
Thomas Jefferson U.	128	77,817	80,027	68,976	56,247	54,676	58,536	58,866	62,029	64,869	74,816	74,676	109,448	114,452	110,366
Drexel U.	129	77,438	83,702	87,860	76,343	77,684	69,462	67,020	70,921	82,777	85,278	82,576	93,517	99,399	108,724
U. Rhode Island	130	62,981	78,303	83,754	74,870	65,715	64,711	61,641	62,785	64,026	73,080	67,242	78,923	93,190	102,056
Rockefeller U.	131	88,705	97,710	84,616	80,384	81,820	81,949	80,667	86,763	87,231	84,566	86,280	96,318	94,693	101,422
U. Louisville	132	93,260	96,010	89,976	78,144	65,849	68,345	72,644	72,119	80,511	87,563	88,251	97,179	117,363	100,890
New Mexico Institute of Mining and Technology	133	42,243	37,316	29,894	23,581	33,245	20,018	17,017	18,358	19,560	22,864	22,922	24,900	72,594	100,873
U. Oregon	134	76,378	84,997	86,316	75,423	74,603	69,723	66,850	69,598	71,568	80,083	81,278	82,242	97,238	100,265
U. Houston	135	52,920	59,580	55,812	61,038	58,954	58,458	62,703	60,033	63,801	68,523	71,779	77,489	84,295	99,450
U. Arkansas for Medical Sciences	136	72,217	75,924	69,883	64,856	55,556	50,603	48,999	51,298	57,523	63,498	70,508	83,387	95,080	94,483
Rush U.	137	51,304	57,978	57,512	57,063	53,501	52,193	50,332	51,532	64,178	68,941	65,343	73,279	79,647	93,180
U. Maine	138	50,163	59,800	39,661	34,252	50,589	35,369	34,277	37,321	45,348	51,049	54,376	65,249	84,072	92,870
Georgia State U.	139	27,073	28,210	34,075	37,521	42,259	50,122	52,351	71,248	71,650	70,185	78,199	79,834	81,641	91,331
U. Maryland, Baltimore County	140	59,448	61,172	45,014	44,662	47,538	47,954	50,984	52,014	53,522	56,993	59,391	59,882	65,368	86,573
U. Alabama, Tuscaloosa	141	26,364	32,999	33,023	28,375	26,161	28,988	28,425	27,692	30,447	37,916	43,017	53,880	67,986	86,244
U. Mississippi	142	71,475	74,918	74,955	64,590	64,218	59,978	64,510	62,483	63,736	73,865	82,361	76,886	84,270	85,186
U. Louisiana, Lafayette	143	12,881	14,659	13,848	11,090	10,666	15,799	16,893	23,895	28,874	34,400	40,044	65,436	77,110	84,898
U. Nevada, Reno	144	58,115	57,220	55,437	56,900	53,363	51,724	53,371	54,782	62,635	62,903	64,793	77,246	83,631	83,603
Kansas State U.	145	68,560	76,953	77,689	70,167	67,438	69,918	71,224	75,468	80,436	81,269	79,100	77,779	81,820	82,610
U. Arkansas, Fayetteville	146	33,674	37,587	34,189	30,625	26,111	34,288	40,642	46,490	52,937	50,875	47,454	48,534	64,252	82,164

TABLE 24

Federally financed higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
U. North Texas, Health Science Center	147	25,847	26,132	26,627	24,187	21,943	22,422	27,163	26,368	27,579	27,260	25,917	32,464	55,062	77,660
U. Montana, Missoula	148	40,760	38,565	35,984	34,021	30,319	33,718	38,753	44,534	54,708	55,566	62,067	70,686	73,507	75,490
New Mexico State U.	149	98,399	90,598	90,722	86,806	80,599	78,903	62,292	59,885	54,009	58,022	60,971	64,699	71,718	71,764
U. Texas, El Paso	150	34,617	35,399	40,024	38,253	35,304	41,897	42,423	44,811	44,352	41,261	39,126	43,930	60,387	70,873
U. Tennessee, Health Science Center	151	52,652	51,842	48,473	42,269	41,830	39,356	38,374	39,138	39,421	42,396	48,264	56,021	60,221	70,676
New Jersey Institute of Technology	152	50,051	54,250	59,398	57,466	54,655	55,094	67,490	79,397	91,999	89,846	85,746	77,057	71,326	70,080
Colorado School of Mines	153	29,892	33,789	33,481	32,399	34,781	34,266	35,677	37,505	40,161	49,603	55,560	61,421	66,200	68,795
U. Wyoming	154	45,323	48,932	57,441	53,971	42,280	48,970	63,951	56,410	42,595	52,082	57,353	54,444	68,772	68,467
San Diego State U.	155	56,504	64,056	56,797	51,274	50,542	46,870	44,495	39,417	39,453	39,515	41,117	43,473	55,671	68,045
U. Texas, Dallas	156	30,754	33,216	35,297	33,920	32,699	31,068	35,451	36,097	40,046	48,466	55,983	58,249	60,706	66,127
U. North Dakota	157	52,504	54,058	54,476	46,491	40,340	37,697	42,425	43,262	51,050	49,700	44,153	58,463	62,737	65,890
Augusta U.	158	na	na	na	47,913	47,771	50,585	50,294	48,921	48,800	47,031	55,797	61,943	64,609	64,410
Oklahoma State U., Stillwater	159	56,998	81,855	85,876	44,200	36,687	38,585	42,976	44,977	43,421	39,880	39,873	47,428	53,885	64,098
SUNY, U. Albany	160	124,324	125,189	112,989	114,158	105,333	79,681	77,734	85,469	87,451	92,709	67,039	56,425	51,492	62,935
Naval Postgraduate School	161	93,605	94,278	127,049	91,134	96,573	78,780	56,045	47,082	44,140	54,358	51,870	54,855	44,852	62,715
U. Idaho	162	46,303	54,243	55,115	53,986	50,638	50,559	51,295	50,935	51,172	51,529	51,450	51,021	56,160	61,531
U. Massachusetts, Lowell	163	25,550	27,960	26,786	27,360	28,654	31,059	27,694	29,471	30,086	35,309	41,304	48,179	62,195	61,413
Texas Tech U.	164	35,970	35,191	29,969	28,827	33,137	32,987	32,405	31,347	31,357	35,136	31,475	33,938	45,136	58,922
U. Texas, San Antonio	165	28,717	31,972	32,672	29,078	23,066	23,511	25,813	29,947	29,824	34,588	34,334	42,952	54,384	58,171
Cleveland State U.	166	25,024	42,575	46,645	50,243	44,233	41,851	49,925	52,541	55,468	51,475	53,756	47,402	53,395	56,550
Rensselaer Polytechnic Institute	167	54,847	59,284	62,341	60,870	59,070	59,528	52,163	51,130	50,120	50,448	52,150	52,465	50,605	56,445
U. Texas, Arlington	168	31,628	30,659	33,150	30,815	24,857	27,712	26,664	33,111	36,027	41,764	44,950	46,946	56,025	56,337
Florida A&M U.	169	45,856	44,905	42,937	39,675	36,570	36,975	37,363	30,383	32,422	35,362	33,136	36,761	41,943	54,363
Cold Spring Harbor Laboratory	170	ne	51,529	43,874	41,002	41,845	49,063	50,478	54,260	67,139	73,854	62,215	56,907	59,163	54,123
North Dakota State U.	171	51,883	53,451	46,490	38,453	36,277	35,482	35,590	34,923	35,122	35,322	31,614	42,824	45,343	53,339
Michigan Technological U.	172	27,676	32,724	33,189	32,086	30,588	28,692	29,774	28,483	32,606	34,709	36,172	41,505	48,766	52,102
Northern Arizona U.	173	15,070	17,765	16,015	15,638	18,209	20,285	23,442	26,035	29,648	35,980	39,387	41,744	43,453	50,491
U. Southern Mississippi	174	37,054	40,984	37,524	28,694	26,163	25,005	25,482	27,661	31,815	46,924	42,870	44,401	48,368	48,374
Howard U.	175	33,017	36,060	37,690	33,966	32,663	38,820	33,441	34,762	33,602	29,978	29,256	35,443	37,331	47,662

TABLE 24

Federally financed higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
U. Puerto Rico, Medical Sciences Campus	176	29,813	54,381	35,173	31,037	30,197	31,889	33,348	29,869	30,597	34,570	27,033	33,262	35,050	46,789
Brandeis U.	177	43,669	48,235	44,532	45,337	47,532	47,841	48,273	46,108	38,632	41,475	41,440	43,471	44,205	46,654
Syracuse U.	178	33,796	33,850	33,156	27,729	29,404	32,378	36,106	39,781	39,538	37,803	31,861	34,200	33,976	46,595
Air Force Institute of Technology	179	15,474	20,196	19,579	18,739	16,782	16,727	19,796	25,588	23,393	21,856	22,854	27,025	32,479	45,087
Texas State U.	180	8,904	10,319	11,950	14,908	14,243	18,289	21,049	25,132	30,314	29,614	26,950	31,116	38,936	44,297
Saint Louis U.	181	33,728	38,323	35,873	31,645	30,071	27,580	26,813	27,436	28,121	34,275	34,419	41,411	42,170	44,157
U.S. Air Force Academy	182	49,711	62,118	43,431	45,169	34,669	30,637	46,958	40,062	27,973	35,294	33,554	31,818	35,826	44,056
Stevens Institute of Technology	183	29,370	32,570	27,420	24,812	23,656	25,980	28,999	26,855	26,281	28,342	33,461	33,998	41,836	44,036
Morehouse School of Medicine	184	25,855	28,128	31,786	34,511	33,020	30,012	28,678	28,792	24,326	22,461	22,500	25,181	31,339	41,069
Touro U., New York ^g	185	ne	0	53	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	40,008
Lehigh U.	186	23,721	22,390	23,312	24,831	24,271	22,910	21,429	25,228	25,834	26,554	26,816	29,051	36,535	39,909
Indiana U.-Purdue U., Indianapolis	187	148,672	156,607	166,825	152,578	143,386	18,479	19,954	20,035	22,834	27,349	31,862	30,290	29,353	39,869
Boston C.	188	33,290	31,953	30,855	27,975	25,115	23,352	27,033	30,448	30,541	32,475	31,038	34,257	36,560	39,356
U. Nevada, Las Vegas	189	32,441	30,457	25,068	24,502	26,950	27,493	25,613	29,172	33,727	28,381	29,252	27,178	28,867	38,815
CUNY, City C.	190	32,900	40,595	39,572	40,094	40,095	38,434	37,525	35,429	36,866	33,065	30,106	34,218	38,596	38,669
U. Toledo	191	38,389	44,881	41,072	40,497	34,684	27,085	27,802	24,167	25,323	28,273	27,770	32,601	36,694	37,872
Worcester Polytechnic Institute	192	13,582	15,714	12,968	17,003	19,643	26,327	25,976	19,566	18,635	22,964	26,074	30,166	34,004	37,736
Rochester Institute of Technology	193	23,254	20,396	19,394	18,379	19,465	20,147	26,149	27,311	25,990	26,359	28,092	31,187	33,373	37,334
North Carolina A&T State U.	194	23,883	22,652	22,477	21,663	23,373	22,413	21,112	24,496	24,874	23,863	22,338	25,755	29,094	37,152
Louisiana State U., Health Sciences Center, New Orleans	195	46,142	45,581	40,637	36,886	34,637	36,027	31,526	28,018	26,988	31,290	31,381	34,272	33,087	35,933
Boise State U.	196	14,614	18,811	20,070	16,117	15,746	18,296	16,953	19,806	24,918	24,493	26,914	31,357	32,015	35,801
Catholic U. of America	197	15,878	19,890	17,608	17,310	17,205	19,900	19,928	19,857	20,749	21,642	22,503	23,128	26,285	35,502
Florida Atlantic U.	198	17,268	15,579	17,226	13,555	13,234	11,574	15,356	17,172	18,771	21,667	23,695	28,510	28,641	35,108
SUNY, Polytechnic Institute	199	na	na	na	na	21,208	14,641	21,380	41,252	41,795	38,245	27,998	25,427	32,396	34,393
U. North Carolina, Charlotte	200	17,284	15,930	19,230	20,994	19,069	19,132	20,269	20,462	22,386	26,199	27,618	27,145	26,871	33,784
U. Denver	201	13,364	14,042	11,779	15,089	14,202	12,048	11,029	11,648	15,713	22,012	24,753	23,415	26,040	33,148

TABLE 24

Federally financed higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
William & Mary	202	27,685	30,361	32,526	31,628	33,320	33,129	34,133	32,760	33,503	31,983	30,436	29,928	33,730	32,631
Missouri U. of Science and Technology	203	28,239	27,961	23,731	25,571	21,811	17,632	18,833	19,567	21,835	22,426	22,860	26,164	28,792	32,457
San Jose State U.	204	24,292	26,389	24,153	27,780	32,901	33,782	31,318	31,396	33,886	35,143	34,102	30,877	30,984	31,780
Portland State U.	205	36,996	41,580	42,662	40,377	33,523	29,987	32,021	32,727	31,234	33,055	31,315	29,842	30,922	31,731
SUNY, Binghamton U.	206	20,979	21,244	21,162	17,715	14,843	16,171	18,562	20,639	23,392	24,213	24,564	23,225	24,888	31,601
U. North Carolina, Greensboro	207	19,477	20,868	16,530	13,658	13,489	14,978	17,902	17,354	17,016	18,923	20,447	24,423	29,822	31,581
Brigham Young U., Provo	208	22,115	24,273	22,069	23,639	24,490	24,250	28,453	26,441	23,892	23,901	24,632	30,439	31,636	31,216
Old Dominion U.	209	34,687	39,534	38,555	39,963	41,270	40,002	39,743	42,412	32,584	31,355	30,330	25,514	27,804	31,104
Van Andel Research Institute	210	ne	ne	ne	ne	ne	8,138	11,970	13,108	14,285	18,259	18,538	22,231	29,424	30,934
East Carolina U.	211	16,113	19,675	17,838	18,227	17,409	15,079	13,073	11,526	12,611	17,428	20,168	22,813	29,648	30,851
Morgan State U.	212	10,039	9,884	15,408	13,357	14,144	12,805	14,343	13,328	11,603	11,952	14,101	16,319	24,670	30,451
SUNY, Upstate Medical U.	213	27,959	28,663	27,013	23,730	21,334	19,213	18,942	19,991	20,391	22,028	23,940	24,974	27,737	30,069
U. North Texas, Denton	214	14,444	14,754	18,043	16,515	16,318	15,470	12,621	15,668	19,026	17,345	13,653	18,702	23,056	30,017
Mercer U.	215	18,778	17,904	19,963	19,411	19,666	21,563	21,120	19,772	18,999	27,035	31,572	34,413	32,504	29,944
Loyola U., Chicago	216	28,995	28,633	28,530	33,074	31,189	28,200	25,363	23,324	21,994	23,562	24,018	26,793	26,972	29,712
South Dakota State U.	217	38,368	41,904	41,975	33,231	29,524	28,670	29,633	28,003	27,129	29,683	22,531	18,607	22,991	28,897
U. South Alabama	218	14,730	16,758	13,816	13,743	14,353	15,106	17,628	16,627	15,098	19,947	21,825	23,758	23,762	28,637
U. California, Merced	219	9,392	10,140	11,052	10,983	10,509	12,648	12,206	14,923	14,385	16,850	20,000	18,621	23,421	28,576
SUNY, Downstate Health Sciences U.	220	25,023	33,964	34,884	31,972	25,802	20,779	25,941	22,496	26,302	26,914	26,454	27,620	25,081	28,543
U. Missouri, Kansas City	221	16,391	18,988	17,522	15,774	15,178	13,327	13,081	11,296	10,596	18,624	22,320	21,203	31,134	28,115
Illinois Institute of Technology	222	28,349	34,858	27,767	28,319	25,679	25,826	23,821	26,330	28,265	28,827	24,244	24,762	25,963	28,027
U. Massachusetts, Boston	223	24,527	26,958	33,275	24,924	27,715	28,653	30,608	29,934	30,412	25,083	27,575	23,673	23,131	27,098
U. Memphis	224	20,654	20,348	22,142	18,619	21,898	18,825	18,098	18,185	25,166	18,370	18,063	21,578	24,686	26,913
U. Wisconsin-Milwaukee	225	29,042	30,479	28,862	26,450	25,377	25,587	25,651	23,916	24,612	23,342	25,354	24,397	24,036	25,612
U. Texas Rio Grande Valley	226	na	na	na	na	na	na	16,892	14,808	13,330	13,629	13,093	13,018	18,317	25,068
Delaware State U.	227	10,154	12,822	11,305	11,837	12,464	12,091	15,260	14,693	13,007	12,179	14,319	16,460	24,361	24,167
Embry-Riddle Aeronautical U.	228	8,241	11,444	14,048	11,456	13,030	10,049	14,135	10,525	12,661	8,970	11,542	14,859	23,863	23,733
CUNY, Hunter C.	229	18,498	22,901	24,265	22,512	19,268	19,193	20,037	18,705	21,766	23,485	26,025	23,166	21,142	22,124
U. Nebraska, Omaha	230	6,014	6,333	5,980	5,693	5,687	6,066	7,180	7,486	7,939	8,807	9,996	13,503	17,301	22,096
Ohio U.	231	18,466	23,051	20,780	20,203	16,597	17,303	14,678	16,393	13,961	14,802	15,543	19,164	20,587	21,919
Desert Research Institute	232	28,307	28,489	27,294	22,814	19,932	16,511	18,883	18,839	17,911	16,745	15,791	16,641	17,341	20,061

TABLE 24

Federally financed higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Marquette U.	233	9,381	11,291	9,968	8,756	8,191	9,320	10,298	10,111	10,672	12,792	13,187	13,918	15,316	20,055
Southern Methodist U.	234	13,312	18,502	16,640	14,274	20,611	14,324	15,587	14,464	13,439	17,869	17,752	17,886	17,680	19,986
Marshall U.	235	18,218	21,852	13,154	13,472	12,712	11,154	9,158	9,064	8,584	9,617	11,078	12,854	16,369	19,797
U.S. Military Academy	236	22,146	13,799	12,227	11,630	14,819	15,312	13,500	13,430	13,393	10,528	8,406	13,708	19,708	19,390
California State U., Northridge	237	17,213	19,769	24,837	7,906	11,309	12,060	13,442	14,756	15,892	16,939	17,261	13,989	15,546	19,169
U. of the Virgin Islands	238	28,369	16,338	22,605	15,627	14,992	19,456	20,951	10,968	10,852	10,445	11,787	13,099	19,127	19,127
Wright State U.	239	24,785	27,422	25,552	26,888	27,838	26,931	30,162	35,533	43,644	41,428	35,321	19,617	20,529	19,081
U. Guam	240	4,962	5,391	5,448	5,554	6,599	5,586	6,621	8,067	8,597	9,339	9,722	14,316	17,066	18,992
Louisiana State U., Health Sciences Center, Shreveport	241	13,890	15,316	13,504	11,753	8,490	6,321	6,478	7,055	9,235	12,185	11,452	12,359	15,503	18,742
Rowan U.	242	2,062	2,108	2,349	1,926	4,591	4,674	5,252	7,110	9,602	12,064	15,551	17,400	18,613	18,454
Meharry Medical C.	243	24,302	26,779	23,467	21,135	17,754	13,068	13,528	15,613	14,515	16,443	12,573	13,784	15,048	18,398
Kent State U.	244	14,586	15,085	14,882	11,506	11,181	11,158	10,013	10,524	11,118	13,350	15,004	15,179	16,195	17,959
U. West Florida	245	11,038	13,156	12,858	12,927	11,593	10,935	9,841	10,127	8,634	11,506	12,369	13,313	17,114	17,954
Eastern Virginia Medical School	246	29,291	25,319	24,694	28,728	28,532	28,637	21,459	21,209	21,356	19,408	15,748	14,774	17,616	17,947
CUNY, Queens C.	247	13,642	15,573	14,897	15,443	16,460	14,080	14,275	11,884	12,390	13,457	12,726	12,386	14,756	17,811
Texas A&M U.-Corpus Christi	248	7,869	7,506	5,446	6,129	7,176	9,491	8,669	10,259	12,815	14,451	13,349	10,967	15,229	17,742
American U.	249	8,841	9,208	7,515	10,421	9,427	9,449	9,554	8,800	13,013	15,229	16,123	12,076	14,752	17,462
Southern Illinois U., Carbondale	250	22,209	23,696	22,055	18,398	16,288	14,895	14,574	13,421	12,733	12,625	12,735	12,655	13,582	17,209
U. Colorado Denver ^c	251	na	na	na	na	na	na	na	na	na	na	na	11,866	12,668	17,181
Baylor U.	252	2,947	3,704	3,513	3,510	4,062	3,878	4,244	5,265	5,782	6,955	8,851	11,025	15,856	17,147
San Francisco State U.	253	15,601	17,337	17,075	19,024	17,129	14,336	12,804	14,817	14,388	15,675	15,834	15,993	15,276	16,507
Jackson State U.	254	39,457	43,001	39,511	29,700	21,677	19,656	20,854	20,136	17,385	16,259	13,662	14,038	15,045	16,443
Rutgers, State U. New Jersey, Newark	255	12,631	18,226	20,588	16,295	12,520	12,611	13,737	16,617	17,516	15,397	16,196	16,281	16,099	16,315
U. Puerto Rico, Rio Piedras	256	21,717	24,887	25,407	17,946	18,262	18,922	15,892	11,512	10,028	13,943	14,071	15,108	16,905	16,053
Tuskegee U.	257	12,309	12,397	12,633	16,789	14,145	12,267	10,388	10,388	10,388	14,825	15,122	15,424	14,911	16,023
Tennessee State U.	258	7,414	8,369	10,240	9,872	12,016	11,145	12,291	10,557	10,291	8,962	19,272	15,066	10,859	15,983
U. Maryland Center for Environmental Science	259	12,123	18,007	16,081	16,852	13,202	14,096	13,957	15,069	15,008	17,476	15,498	14,072	15,109	15,378
North Carolina Central U.	260	6,870	9,496	11,076	8,253	9,757	10,874	10,455	11,977	12,947	13,503	12,787	10,676	13,709	15,188

TABLE 24

Federally financed higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
California Polytechnic State U., San Luis Obispo	261	11,637	8,658	10,125	10,280	9,087	9,796	11,276	10,535	9,613	9,720	10,178	11,163	15,084	14,810
Texas Tech U., Health Sciences Center	262	12,950	14,790	13,944	14,820	9,853	10,251	10,384	9,143	7,546	11,345	13,043	12,148	14,620	14,732
South Dakota School of Mines and Technology	263	25,172	28,105	14,480	7,853	7,078	9,286	10,370	10,639	10,240	9,283	10,659	11,587	15,100	14,640
Albany Medical C.	264	15,758	13,884	11,845	10,278	9,716	9,481	10,714	11,040	10,243	11,827	12,940	13,166	13,384	14,193
U. Hawaii, system office	265	ne	ne	ne	ne	ne	ne	ne	ne	12,328	12,052	13,367	12,688	12,511	14,150
U. South Dakota	266	16,467	14,490	14,088	15,274	12,162	9,214	8,832	11,134	12,523	13,367	13,034	11,664	13,702	14,101
California State U., Long Beach	267	12,731	12,055	i 11,379	i 10,701	7,879	6,198	11,176	13,085	14,021	13,579	12,014	11,178	11,739	13,758
U. Massachusetts, Dartmouth	268	12,236	13,657	10,979	8,860	8,549	7,321	6,548	7,370	7,156	7,353	6,506	8,223	11,162	13,742
Illinois State U.	269	5,442	4,586	3,833	3,902	5,213	4,424	5,630	5,355	6,312	9,827	8,719	9,787	8,673	13,612
CUNY, Graduate School of Public Health and Health Policy	270	na	na	na	na	na	na	na	na	5,080	5,572	8,722	12,254	11,880	13,413
Charles R. Drew U. of Medicine and Science	271	20,430	20,679	19,733	17,144	19,412	12,992	12,089	14,461	10,198	10,427	9,863	9,945	10,656	13,297
Missouri State U.	272	6,071	4,764	3,697	3,132	3,132	3,165	2,675	2,770	3,995	5,076	12,310	8,931	10,084	12,973
Xavier U. Louisiana	273	5,669	6,673	7,177	5,856	7,078	7,735	10,503	10,939	10,165	8,679	9,680	11,213	11,733	12,833
Creighton U.	274	11,850	14,140	14,270	13,569	11,690	9,359	10,619	7,946	5,721	8,265	7,583	8,585	12,022	12,681
U. Alaska, Anchorage	275	9,368	9,858	10,760	9,686	7,824	8,575	11,867	12,681	13,597	14,219	15,290	15,079	15,249	12,646
Western Michigan U. and Homer Stryker M.D. School of Medicine	276	19,738	18,736	14,378	12,322	11,334	11,869	12,287	10,565	10,828	14,399	13,187	13,944	12,895	12,631
U. Texas Health Science Center, Tyler	277	ne	ne	ne	ne	ne	3,713	3,757	5,792	6,438	i 7,084	i 7,732	12,007	14,362	12,555
Loma Linda U.	278	29,284	32,187	24,884	26,253	19,088	21,082	16,118	15,192	13,923	i 12,654	i 11,385	i 10,116	9,134	12,485
Prairie View A&M U.	279	8,623	11,058	10,569	9,077	8,278	7,994	7,952	8,722	8,421	9,346	9,249	9,566	11,665	12,354
U. Puerto Rico, Mayaguez	280	12,735	18,568	19,949	14,414	14,162	15,700	14,446	13,604	14,111	15,653	15,842	13,073	16,223	12,260
Alabama A&M U.	281	22,154	22,120	i 22,086	i 22,052	i 22,018	i 21,982	18,556	i 15,130	i 11,704	i 8,277	5,643	7,432	i 9,221	12,197
CUNY, Advanced Science Research Center	282	na	na	na	na	na	257	ne	2,355	4,027	6,859	9,208	11,840	12,580	11,916
Teachers C., Columbia U.	283	6,533	8,526	10,173	8,494	8,909	12,775	11,635	10,194	8,925	8,054	7,614	8,521	10,177	11,871
Nova Southeastern U.	284	5,718	6,904	6,653	5,379	5,992	5,896	7,381	7,979	7,853	8,965	10,452	10,386	9,314	11,637
Florida Institute of Technology	285	9,175	7,637	7,500	7,543	8,581	8,315	9,500	8,465	8,511	10,352	10,999	13,049	10,970	11,520

TABLE 24

Federally financed higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
California State U., Sacramento	286	5,829	6,965	5,663	7,546	5,241	5,697	5,619	6,894	6,392	5,801	5,693	5,582	6,646	11,284
Alcorn State U.	287	9,256	8,655	8,598	8,321	7,447	6,784	6,387	8,634	7,372	7,540	7,023	7,593	9,294	10,996
Texas Southern U.	288	5,240	4,899	4,924	4,741	3,512	3,458	3,269	3,674	2,839	3,238	6,249	5,562	7,550	10,969
Northern Illinois U.	289	17,334	11,807	12,861	12,415	9,174	9,158	9,957	7,947	8,903	8,610	8,030	9,080	9,840	10,849
East Tennessee State U.	290	6,272	7,705	8,052	6,909	5,484	5,135	5,658	5,933	7,168	7,688	7,329	8,358	9,715	10,776
Miami U.	291	13,591	13,210	13,418	12,676	12,048	10,008	9,189	9,093	9,627	9,755	10,473	9,412	10,277	10,724
U. Akron	292	12,107	12,962	16,768	19,658	20,263	14,676	25,433	16,395	12,470	11,796	10,574	9,024	11,036	10,709
Clarkson U.	293	9,573	9,531	7,061	5,283	5,476	5,440	6,183	6,819	8,203	8,551	7,095	7,246	8,834	10,611
U.S. Naval Academy	294	10,750	10,243	9,322	10,482	10,416	8,978	11,016	12,963	13,331	12,991	12,577	10,247	10,147	10,260
U. Maryland, Eastern Shore	295	8,583	8,587	6,965	8,511	8,902	9,284	7,853	7,265	4,890	6,983	8,084	8,346	9,062	10,201
Chapman U.	296	1,871	1,576	1,733	2,379	2,373	2,790	3,357	3,598	4,057	5,738	7,850	8,574	11,098	10,015
Tennessee Technological U.	297	7,490	6,397	4,674	3,999	3,725	3,578	4,076	4,969	5,390	6,153	6,471	7,625	8,156	9,975
Florida Gulf Coast U.	298	9,542	10,328	5,146	4,800	4,609	4,501	4,442	3,746	3,164	3,773	5,304	4,467	6,482	9,858
California State U., San Marcos	299	4,106	4,827	5,548	6,271	6,091	4,573	5,273	5,594	7,497	9,134	11,547	8,831	7,986	9,845
Oakland U.	300	7,130	9,178	9,185	7,605	6,885	6,161	6,198	6,418	5,777	6,690	5,068	7,426	9,533	9,600
Central Michigan U.	301	2,536	4,841	5,055	5,464	6,187	5,464	5,387	5,557	7,130	8,100	7,450	6,919	9,773	9,591
Montana Technological U.	302	5,321	4,999	3,293	3,507	3,202	3,420	3,916	5,019	4,691	4,926	4,322	6,133	5,600	9,585
Texas A&M U.-Kingsville	303	7,088	6,280	6,480	7,002	8,678	7,080	7,475	7,869	7,459	8,419	9,610	9,265	8,225	9,584
Hampton U.	304	14,455	12,292	15,356	12,620	11,153	14,735	14,201	16,249	14,170	13,390	11,278	11,517	11,274	9,445
SUNY, C. of Environmental Science and Forestry	305	8,907	8,732	8,557	8,382	5,564	7,784	8,313	7,730	6,873	7,743	7,809	6,979	7,766	9,231
Idaho State U.	306	14,645	17,149	16,095	13,206	11,091	11,738	11,926	11,184	10,081	7,547	7,849	7,216	9,080	9,230
California State U., Los Angeles	307	7,234	8,426	6,847	7,065	4,923	4,291	3,804	6,612	8,586	9,288	8,380	7,342	8,605	8,973
Northeast Ohio Medical U.	308	4,009	4,081	3,816	5,244	6,582	7,607	9,181	10,043	9,743	10,107	10,684	9,999	9,400	8,873
Villanova U.	309	6,367	6,817	5,518	4,218	5,008	4,572	4,334	4,048	3,968	4,085	4,921	5,826	6,476	8,741
U. Tulsa	310	7,126	7,970	6,782	6,279	5,773	6,384	6,426	5,905	4,615	4,142	4,697	5,876	5,893	8,545
California State U., East Bay	311	643	921	536	310	ne	ne	479	ne	ne	ne	2,348	3,289	8,997	8,508
New York Medical C.	312	21,095	21,013	16,471	13,806	11,421	11,326	10,772	9,000	8,141	11,061	12,106	10,739	9,070	8,226
Bowling Green State U.	313	4,963	6,164	7,005	9,323	6,576	5,544	6,229	6,395	6,056	5,852	6,397	7,263	7,918	8,208
California State Polytechnic U., Pomona	314	2,563	2,978	2,635	2,996	2,165	1,881	2,199	3,231	4,297	3,555	5,514	4,396	5,407	8,162

TABLE 24
Federally financed higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Louisiana Tech U.	315	10,806	11,952	9,835	8,881	7,742	5,776	5,455	5,608	5,801	6,564	7,167	6,428	5,734	8,118
U. North Carolina, Wilmington	316	14,364	14,218	11,571	9,133	6,063	5,819	5,966	5,990	5,732	7,174	6,783	6,852	7,178	8,116
U. North Florida	317	4,636	5,082	3,760	1,424	1,177	1,198	1,356	1,435	3,818	4,017	4,568	7,267	7,758	8,113
Winston-Salem State U.	318	ne	1,179	1,977	841	ne	ne	1,356	1,575	1,629	2,011	4,498	4,841	8,903	7,901
Clark Atlanta U.	319	7,229	7,040	8,447	7,576	7,241	7,455	6,048	5,811	5,634	5,689	5,324	5,355	5,895	7,687
Texas Christian U.	320	3,373	3,924	4,998	5,870	5,779	4,732	3,617	4,035	3,198	2,866	3,168	4,448	5,670	7,627
California State U., San Bernardino	321	3,394	9,953	7,251	6,190	6,414	5,959	6,348	6,565	7,920	8,651	5,886	5,867	6,693	7,606
Kentucky State U.	322	3,501	3,146	4,924	3,906	4,335	4,590	5,146	5,382	i 5,618	4,692	4,456	3,716	4,743	7,605
U. Arkansas, Little Rock	323	7,571	8,615	8,104	6,848	5,188	4,259	4,934	4,756	5,764	6,688	7,289	6,939	6,675	7,544
U. Minnesota, Duluth	324	6,441	8,564	7,597	7,264	5,940	10,025	8,055	6,033	5,520	7,143	6,454	5,325	6,122	7,533
Fort Valley State U.	325	4,586	3,452	3,334	3,329	4,249	4,079	4,844	5,068	3,700	4,434	4,806	4,429	7,265	7,505
CUNY, John Jay C. of Criminal Justice	326	3,418	4,086	3,921	3,546	3,214	3,392	4,625	4,826	5,896	4,971	5,297	3,519	5,777	7,452
U. of the District of Columbia	327	1,946	2,313	2,430	2,168	1,627	1,434	2,451	2,659	2,021	3,283	2,664	6,851	9,859	7,367
Virginia State U.	328	5,552	6,035	6,999	6,212	5,424	4,951	5,204	4,779	5,655	6,636	5,642	4,846	7,115	7,166
Pacific U.	329	845	242	1,767	1,674	1,137	962	1,419	4,058	2,637	3,917	2,596	2,072	2,672	7,133
Rosalind Franklin U. of Medicine and Science	330	8,350	9,317	10,084	11,202	9,754	9,368	8,478	8,828	9,249	8,865	8,504	9,357	7,292	7,124
Western Washington U.	331	4,594	4,661	3,891	3,789	4,039	4,546	4,701	5,271	4,393	3,978	3,966	4,290	6,347	6,598
Duquesne U.	332	5,904	5,991	5,723	4,343	4,670	5,004	5,809	5,759	5,762	4,552	4,981	5,020	6,309	6,555
Ball State U.	333	3,988	3,064	3,320	2,440	1,971	2,291	3,253	2,531	3,028	2,929	2,397	2,469	5,302	6,355
MGH Institute of Health Professions	334	ne	408	ne	ne	ne	3,766	2,228	1,839	2,957	3,494	3,014	2,500	4,628	6,200
Western U. of Health Sciences	335	885	914	1,300	1,163	1,545	1,206	2,391	2,725	2,755	3,035	4,486	5,620	7,131	6,099
U. Hawaii, Hilo	336	12,265	7,150	20,726	15,391	8,603	12,772	9,402	5,461	5,264	4,924	5,274	5,510	5,292	6,068
California State U., Fullerton	337	13,651	16,159	12,440	11,716	6,932	4,784	3,815	4,237	4,981	4,340	4,121	4,551	6,136	6,049
U.S. Army War C.	338	ne	ne	ne	ne	ne	ne	ne	ne	ne	4,418	i ne	4,662	i 5,496	i 6,035
U. Tennessee, Chattanooga	339	4,866	2,932	3,202	2,056	1,501	1,949	1,092	1,144	1,490	2,393	3,915	4,507	5,214	6,003
Wesleyan U.	340	4,496	5,525	4,726	3,930	3,363	3,612	3,493	3,902	4,353	4,793	4,305	4,032	5,267	5,955
Montclair State U.	341	1,876	2,629	3,593	3,410	2,533	2,716	2,649	2,163	3,505	4,164	3,782	4,146	5,189	5,916
Kennesaw State U.	342	1,246	1,054	2,214	i 3,374	1,413	2,329	1,925	2,085	2,343	2,499	1,983	3,104	3,290	5,908
Naval War C.	343	ne	ne	2,938	i 2,700	i 2,736	i 2,653	3,210	3,797	i 4,384	5,060	5,944	5,542	5,529	5,819

TABLE 24

Federally financed higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Morehouse C.	344	7,857	8,460	i 9,063	9,226	6,919	5,944	4,301	3,667	4,531	4,494	4,825	4,533	5,664	5,750
California State U., Monterey Bay	345	3,167	4,713	4,341	4,961	3,862	3,459	3,654	3,574	3,607	3,746	3,889	3,813	5,051	5,639
DePaul U.	346	3,896	4,629	4,827	4,260	5,023	4,622	4,623	5,424	4,532	4,464	5,156	4,518	3,757	5,592
Central State U.	347	2,544	3,528	3,390	2,688	2,000	1,508	1,546	1,491	2,299	2,517	3,097	4,165	5,576	5,523
Gallaudet U.	347	5,522	4,633	4,335	4,500	3,012	2,340	2,135	2,380	2,259	2,190	1,841	2,140	3,287	5,523
CUNY, Brooklyn C.	349	5,358	7,098	6,578	5,999	6,548	5,771	5,995	5,244	4,280	4,465	i 4,651	4,505	4,623	5,518
Tarleton State U.	350	6,379	6,036	5,086	3,525	3,683	3,927	4,495	4,602	4,288	4,632	4,139	4,620	5,055	5,478
Langston U.	351	3,313	3,778	3,957	4,153	5,816	5,621	9,178	8,326	i 7,474	i 6,622	9,004	3,089	3,616	5,473
South Carolina State U.	352	6,334	8,630	i 10,926	8,770	i 6,614	i 4,456	4,556	i 14,300	i 14,938	i 3,659	4,076	i 4,493	i 4,910	i 5,330
U. New Orleans	353	19,244	19,000	14,521	11,051	9,490	7,492	6,826	5,568	5,258	4,353	3,868	3,674	8,270	5,283
U. Colorado Colorado Springs	354	6,699	5,805	3,540	3,407	4,018	4,244	3,976	4,525	4,094	3,072	3,508	3,942	5,345	5,205
Salisbury U.	355	1,823	586	1,256	2,342	3,131	2,727	2,414	2,203	1,805	2,290	2,413	3,271	3,734	5,049
C. Charleston	356	11,610	5,056	6,277	6,385	5,051	6,200	6,269	5,870	4,376	4,395	3,087	4,126	4,485	5,036
California State U., Fresno	357	3,424	3,795	3,532	2,682	2,921	3,573	3,539	3,511	3,969	2,900	3,117	4,101	5,928	4,864
U. New England	358	2,829	3,242	3,359	4,271	4,789	4,862	5,298	5,918	4,976	5,269	5,064	3,864	3,660	4,777
Oklahoma State U., Center for Health Sciences	359	817	377	83	61	31	321	748	1,055	1,021	985	2,618	2,304	3,366	4,773
Southern U. and A&M C., Agricultural Research and Extension Center	360	ne	4,049	5,926	3,481	3,363	2,514	2,415	2,736	i 3,057	3,057	2,085	3,588	4,261	4,688
Fordham U.	361	4,132	3,925	4,187	4,874	4,258	3,969	5,979	5,761	4,973	4,218	3,831	4,076	4,856	4,687
Providence C.	362	857	726	ne	827	ne	1,162	981	783	960	857	913	574	ne	4,648
Lincoln U., Jefferson City	363	5,984	7,084	6,306	4,989	5,460	5,492	4,953	4,148	2,498	2,700	3,636	5,621	8,988	4,610
Northwest Indian C.	364	1,943	1,993	i 2,044	2,216	1,705	1,154	i ne	ne	2,037	2,520	3,112	i 3,704	i 4,298	4,595
U. Missouri, Saint Louis	365	7,151	10,157	9,650	7,868	5,844	4,369	4,959	5,240	6,364	7,059	6,146	5,812	4,573	4,569
Spelman C.	366	2,740	1,833	1,874	1,366	1,185	1,035	1,291	1,227	1,673	2,004	2,136	1,886	2,539	4,567
CUNY, Lehman C.	367	2,560	i 2,700	2,215	1,874	2,249	2,394	3,625	3,734	4,478	3,342	3,197	3,382	3,652	4,487
Southern U. and A&M C., Baton Rouge	368	5,920	6,057	i 6,194	4,191	3,850	3,258	2,778	2,866	3,431	3,243	2,996	3,770	3,595	4,444
U. Detroit Mercy	369	633	856	508	ne	317	890	2,565	2,296	4,385	4,936	4,226	3,917	4,663	4,434
Norfolk State U.	370	5,413	6,462	7,739	5,523	6,492	5,104	7,230	7,101	6,912	8,046	7,148	3,976	3,398	4,381
Pennsylvania State U., Behrend	371	887	1,029	1,232	1,353	1,610	1,510	2,445	1,670	1,025	1,427	543	2,286	3,262	4,378
U. Baltimore	372	1,812	3,288	3,386	2,906	2,947	2,998	3,769	4,289	7,431	9,103	11,748	11,692	4,853	4,250
Barnard C.	373	2,754	3,325	3,194	2,568	2,373	2,384	3,082	2,777	2,491	2,871	2,800	3,527	3,758	4,235
U. Arkansas, Pine Bluff	374	3,947	4,696	4,540	4,550	3,875	3,912	4,233	3,747	3,683	4,299	4,393	3,960	3,306	4,204

TABLE 24

Federally financed higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
U. Washington, Tacoma	375	573	406	1,098	1,104	1,577	2,515	2,682	2,042	2,230	2,808	3,075	3,459	4,553	3,875
Middle Tennessee State U.	376	2,651	2,669	4,553	2,585	1,564	2,302	3,535	2,513	2,391	2,473	3,062	4,150	4,347	3,822
Fisk U.	377	7,686	4,631	4,058	6,307	8,557	9,050	9,544	4,327	2,781	4,615	3,811	3,940	3,486	3,819
U. Washington, Bothell	378	446	911	701	825	2,005	2,236	2,863	3,169	2,920	3,353	2,815	2,956	4,009	3,787
Chicago State U.	379	1,598	2,014	565	ne	ne	ne	910	ne	1,154	898	ne	ne	3,699	3,756
Towson U.	380	1,806	2,630	1,771	2,015	2,268	2,020	1,616	1,599	2,133	2,144	2,010	1,758	2,844	3,653
Hope C.	381	2,523	2,414	1,912	1,993	2,000	1,436	1,251	1,169	1,100	1,361	1,155	1,992	3,691	3,639
Southern Illinois U., Edwardsville	382	4,192	4,056	3,172	3,209	2,249	2,175	3,422	3,805	3,209	3,561	3,467	3,844	3,250	3,621
Georgia Southern U.	383	2,077	1,530	1,359	2,092	3,247	3,004	2,695	2,978	1,805	1,780	1,790	3,373	2,605	3,562
U. Wisconsin-Superior	384	5,197	5,638	5,302	ne	1,949	ne	ne	ne	1,924	1,527	1,382	1,843	3,635	3,559
California State U., Bakersfield	385	637	727	641	1,721	1,140	1,875	1,689	2,466	3,243	4,376	4,486	3,827	2,665	3,525
U. San Diego	386	1,352	1,184	1,903	2,066	2,451	1,836	2,152	2,299	2,397	2,511	2,398	2,554	2,911	3,501
Appalachian State U.	387	1,813	2,586	2,287	1,731	2,198	1,796	1,896	2,630	1,922	1,332	1,469	1,694	2,567	3,497
Sonoma State U.	388	690	559	ne	1,800	1,581	964	630	ne	ne	ne	936	2,212	2,889	3,483
James Madison U.	389	5,563	5,218	6,476	4,617	3,017	2,418	2,203	2,273	1,879	2,717	2,609	2,379	2,884	3,475
U. Michigan, Dearborn	390	2,932	4,305	2,992	3,300	2,901	1,844	2,172	1,930	1,448	1,850	2,264	2,366	2,537	3,464
Santa Clara U.	391	3,494	2,019	2,074	1,668	2,039	1,226	1,634	1,468	1,592	1,333	1,522	1,930	2,660	3,448
New Mexico Highlands U.	392	970	989	735	741	969	ne	1,086	1,015	741	ne	1,034	1,828	2,622	3,416
Purdue U., Northwest	393	na	na	na	na	na	na	na	4,024	3,205	2,493	1,996	2,280	3,171	3,409
Western Kentucky U.	394	6,866	6,210	5,712	4,279	3,383	3,450	4,018	3,808	3,162	3,391	3,265	2,348	3,127	3,401
U. North Carolina, Asheville	395	1,367	1,770	1,789	1,608	1,176	1,531	2,312	1,851	1,442	1,846	2,405	2,322	2,600	3,323
Sam Houston State U.	396	5,066	3,855	2,717	2,360	2,209	1,491	1,830	1,872	2,200	3,723	4,764	5,632	4,936	3,307
CUNY, C. Staten Island	397	952	1,583	1,470	1,311	1,400	1,222	1,700	1,543	1,982	2,421	2,295	2,234	2,916	3,296
Citadel Military C. South Carolina	398	ne	157	ne	ne	ne	ne	ne	ne	ne	ne	736	1,714	4,360	3,287
Western Illinois U.	399	658	746	3,855	1,183	735	373	ne	1,198	1,551	1,495	1,801	3,163	4,032	3,283
California State Polytechnic U., Humboldt	400	3,024	3,292	3,588	2,829	2,504	3,280	4,455	3,796	3,024	2,103	2,399	1,975	2,421	3,280
New York Institute of Technology	401	250	494	1,339	2,527	3,504	2,375	1,607	984	1,501	3,135	1,542	1,988	2,988	3,252
California State U., Chico	402	1,502	1,317	1,345	1,682	1,169	854	933	581	1,060	1,864	2,520	2,258	2,312	3,152
U. of Health Sciences and Pharmacy in St. Louis	403	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	3,767	4,063	2,523	3,110

TABLE 24

Federally financed higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Arkansas State U., Jonesboro	404	6,194	8,644	9,645	6,360	3,958	4,347	4,826	4,396	4,371	4,876	4,712	4,249	3,932	3,083
Troy U.	405	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,591	1,488	2,296	3,069
Pennsylvania State U., Harrisburg	406	963	1,302	1,290	701	269	565	270	215	292	80	451	1,616	1,911	3,045
Rutgers, State U. New Jersey, Camden	407	2,001	1,555	1,545	1,750	1,766	2,215	2,653	2,412	1,567	1,096	1,952	2,905	3,349	3,042
Smith C.	408	2,843	3,159	2,690	2,853	3,042	3,575	2,634	3,449	3,305	2,892	2,650	2,433	2,403	3,013
Colby C.	409	1,105	1,028	1,197	1,046	943	1,038	1,137	1,048	1,213	1,093	809	750	1,466	3,011
U. Northern Iowa	410	1,460	2,294	2,182	2,347	2,094	1,961	2,297	2,154	1,697	2,343	1,881	1,995	2,132	2,975
Occidental C.	411	665	904	1,079	1,105	1,365	853	1,260	701	901	1,614	1,567	2,348	2,622	2,967
U. Central del Caribe	412	6,504	6,613	6,304	5,946	6,407	6,147	6,290	4,866	2,937	2,705	2,743	2,492	2,807	2,929
Loyola Marymount U.	413	1,731	2,815	1,222	1,357	1,142	819	707	883	1,040	1,185	1,105	2,170	2,824	2,921
Wellesley C.	413	3,677	2,496	2,902	3,135	3,579	2,980	5,197	3,815	3,947	3,602	4,441	3,469	2,915	2,921
CUNY, system office	415	ne	ne	1,398	1,001	362	828	832	527	1,977	2,241	884	768	798	2,901
Amherst C.	416	1,102	1,992	1,988	1,985	1,543	1,835	1,207	1,228	1,630	2,118	1,775	1,375	2,862	2,869
Midwestern U.	417	315	438	427	369	517	654	1,060	1,184	1,278	1,045	936	1,506	1,609	2,862
Alabama State U.	418	13,340	12,340	13,607	1,927	2,236	2,303	2,372	2,253	2,434	2,577	2,582	2,338	2,930	2,848
Fort Lewis C.	419	340	511	ne	ne	ne	ne	ne	ne	ne	1,284	1,228	1,746	2,590	2,816
Carleton C.	420	1,803	2,332	2,212	3,347	3,157	3,813	3,508	3,366	2,542	1,891	1,236	1,499	1,914	2,800
West Virginia State U.	420	2,759	3,193	3,945	3,316	6,006	5,562	4,126	5,072	5,361	4,592	3,993	4,119	4,278	2,800
CUNY, Graduate Center	422	4,901	3,462	3,191	2,827	2,310	2,106	1,796	1,485	2,592	3,009	2,561	2,496	2,535	2,792
St. John's U., New York	422	1,274	1,263	1,185	872	883	992	940	1,020	1,612	1,666	1,805	1,950	2,456	2,792
Seton Hall U.	424	2,206	2,681	1,667	1,694	1,801	1,919	1,975	1,982	3,551	3,982	2,725	2,137	2,092	2,778
Pace U.	425	627	952	1,476	1,054	1,212	1,681	2,845	2,423	2,117	2,579	2,997	2,536	2,534	2,698
Youngstown State U.	426	2,067	3,304	2,159	1,834	1,876	2,346	1,083	3,257	3,634	2,878	3,308	2,198	3,533	2,691
Saint Joseph's U.	427	1,368	1,087	835	700	468	526	476	239	252	373	1,047	1,158	2,520	2,680
Tougaloo C.	428	2,978	2,753	2,613	2,639	2,285	2,689	2,473	3,030	3,173	3,380	2,102	2,092	2,336	2,643
U. Southern Maine	429	9,137	7,752	5,490	4,582	3,821	3,060	2,299	2,252	2,362	2,551	2,231	2,020	2,201	2,598
Middlebury C.	430	2,245	2,289	2,513	1,856	1,351	1,535	1,736	2,002	1,774	1,558	1,546	2,639	2,281	2,564
Eastern Michigan U.	431	9,088	7,916	7,374	2,428	1,031	1,482	1,627	1,474	1,522	2,135	2,598	2,237	2,346	2,521
Saginaw Valley State U.	432	77	525	334	203	ne	223	237	621	1,227	2,339	1,809	1,899	2,341	2,503
Central Washington U.	433	4,038	2,242	1,840	1,263	1,113	1,575	1,580	2,297	1,840	2,159	1,701	1,778	2,429	2,499
CUNY, New York City C. of Technology	434	81	145	ne	ne	ne	ne	ne	ne	1,978	1,891	1,585	1,197	1,769	2,498
National Defense U.	435	ne	ne	ne	5,865	7,682	5,542	6,447	6,293	4,276	4,231	4,583	3,786	3,920	2,494
Bowie State U.	436	ne	1,910	1,739	1,422	1,761	1,497	1,927	1,813	1,839	1,911	1,967	1,398	3,351	2,469

TABLE 24

Federally financed higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
SUNY, C. of Optometry	436	2,829	3,336	3,162	2,757	2,567	2,490	2,487	2,073	1,944	1,823	1,688	2,105	2,080	2,469
California State U., Dominguez Hills	438	2,658	2,671	2,689	4,235	3,381	i 2,527	2,215	1,238	1,354	1,261	1,433	2,001	3,156	2,457
Texas Woman's U.	439	822	1,173	1,908	1,136	961	722	573	945	1,422	1,864	1,700	1,514	2,091	2,439
Dakota State U.	440	ne	402	3,555	831	908	765	1,593	1,989	3,273	3,008	3,957	2,603	3,976	2,437
Reed C.	441	796	772	678	897	1,125	1,638	1,690	415	1,065	1,423	1,806	1,916	i 2,139	i 2,420
Texas Tech U., Health Sciences Center, El Paso	442	ne	ne	ne	ne	5,352	2,893	3,064	2,410	2,532	2,279	1,703	1,831	2,339	2,415
Northern Kentucky U.	443	1,476	1,595	1,483	1,240	1,418	1,342	1,133	1,109	890	1,316	1,462	2,156	2,596	2,413
Bucknell U.	444	2,745	2,747	1,540	1,590	1,725	1,489	1,436	i 1,383	i 1,329	1,764	1,730	i 1,696	2,539	2,359
Winthrop U.	445	ne	3,440	5,243	7,451	7,955	5,802	1,178	1,189	1,419	1,438	1,563	1,495	2,542	2,358
Haverford C.	446	2,715	1,851	1,478	1,547	1,309	1,476	972	1,031	1,665	2,343	2,680	2,455	2,722	2,344
Keck Graduate Institute	447	ne	1,744	1,671	1,227	1,302	937	895	i 853	i 811	i 769	i 727	i 685	i 643	2,338
Swarthmore C.	448	913	1,029	1,135	1,239	1,292	1,379	1,458	1,451	1,586	1,539	1,041	1,414	1,733	2,315
Northeastern Illinois U.	449	448	311	ne	ne	588	ne	ne	1,403	2,442	2,478	2,018	1,913	2,224	2,262
Lamar U.	450	4,377	4,036	3,072	1,616	1,118	352	611	949	1,380	2,641	2,146	1,873	1,180	2,259
Dine C.	451	ne	959	i ne	ne	ne	ne	ne	ne	1,238	1,126	347	ne	2,091	2,255
Clark U.	452	3,243	3,801	3,141	2,848	2,751	2,515	2,002	2,513	2,962	3,495	3,350	2,754	2,500	2,235
U. New Haven	453	ne	1,592	2,471	1,400	954	i 507	2,157	548	3,853	2,786	1,440	2,069	2,447	2,227
Trinity U.	454	1,023	1,046	1,222	2,034	1,544	1,183	973	986	1,187	924	1,207	1,078	1,345	2,203
Bowdoin C.	455	1,815	1,942	3,317	3,244	2,330	2,156	2,457	1,812	2,065	1,790	1,862	1,836	1,867	2,186
U. Ana G. Mendez, Gurabo	456	691	1,054	1,034	747	1,111	447	437	428	471	951	946	926	1,407	2,132
Toyota Technological Institute, Chicago	457	ne	496	ne	ne	ne	1,392	1,410	1,581	1,759	1,934	3,038	3,090	2,199	2,127
West Texas A&M U.	458	2,100	1,347	1,802	1,315	1,551	1,860	1,735	1,338	1,329	1,565	1,542	2,195	2,123	2,118
U. Wisconsin-Stevens Point	459	4,456	3,754	i 3,052	2,131	1,740	i 1,349	i 957	1,266	i 1,575	i 1,884	i 2,193	1,776	1,235	2,079
U. Central Oklahoma	460	1,059	1,146	750	765	1,042	3,193	1,409	1,168	1,127	1,457	1,444	i 1,516	i 1,869	i 2,071
Murray State U.	461	2,074	2,471	1,904	816	612	798	564	1,200	1,587	2,639	1,929	2,721	2,176	2,058
Christopher Newport U.	462	1,049	1,587	1,230	1,083	1,302	1,041	858	957	1,069	1,285	1,365	1,497	1,701	2,055
Hofstra U.	463	2,206	2,182	2,660	1,967	2,577	2,119	2,149	1,471	1,275	1,296	997	1,266	2,118	1,995
Long Island U.	464	630	i 681	i 666	i 655	ne	ne	852	1,615	1,929	1,839	1,349	2,686	2,652	1,993
Roger Williams U.	465	1,574	2,132	2,166	1,877	2,038	1,696	1,736	2,024	1,052	1,135	1,045	1,202	1,351	1,973
Harvey Mudd C.	466	2,049	2,594	2,038	2,004	1,457	1,633	2,320	1,521	1,762	1,619	1,748	1,443	1,956	1,968
Texas A&M International U.	467	1,623	1,195	989	868	977	658	924	1,730	2,008	1,847	986	1,243	1,624	1,966
Alfred U.	468	1,687	2,004	1,648	1,468	1,351	1,434	1,558	917	1,416	1,580	947	939	1,008	1,958

TABLE 24

Federally financed higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
New England C. of Optometry	469	726	1,236	1,685	1,588	533	419	618	ne	837	928	785	1,623	1,609	1,946
Hawaii Pacific U.	470	ne	1,261	1,145	850	1,116	789	2,071	1,921	1,905	1,809	1,699	1,741	2,667	1,942
Texas A&M U.-Commerce	471	1,362	1,557	1,600	1,349	1,234	1,121	876	823	1,159	836	1,226	1,283	1,776	1,936
Black Hills State U.	472	2,434	1,172	1,675	2,163	1,720	1,674	2,056	1,448	1,437	1,535	1,287	1,124	1,676	1,918
CUNY, Baruch C.	473	1,010	1,150	1,209	735	695	845	1,325	1,027	1,412	1,359	1,470	1,691	1,894	1,879
Kean U.	474	ne	550	1,191	347	ne	244	323	ne	ne	ne	775	362	715	1,870
Coastal Carolina U.	475	1,533	1,487	1,598	1,714	1,281	1,041	1,052	1,028	1,031	1,294	1,211	948	1,130	1,847
Fayetteville State U.	475	10,844	10,029	11,187	11,906	10,186	9,243	11,207	2,322	2,445	2,168	1,008	1,988	1,667	1,847 i
U. Central Arkansas	477	1,658	1,732	1,989	1,898	1,297	1,300	1,138	1,236	1,262	1,462	1,421	1,640	1,731	1,824
U. Puerto Rico, Humacao	478	1,950 i	1,976	1,949	1,452	1,102	669	ne	ne	882	828	1,279	1,137	1,160	1,822
Grand Valley State U.	479	1,134	1,648 i	2,162 i	2,675	2,151	2,033	1,479	1,543	1,719	1,663	1,831	1,415	1,819	1,808
Lawrence Technological U.	480	3,144	2,615	1,108	988	739	976	658	767	479	304	405	284	1,109	1,786
California State U., Channel Islands	481	ne	451	ne	425	528	825	249	142	284	500	553	993	1,638	1,773
C. New Jersey	482	461	254	ne	ne	ne	ne	ne	929	829	ne	951	1,079	1,984	1,755
U. Nebraska, Kearney	483	289	1,018	716	840	656	515	891	1,047	1,075	1,240	1,259	1,327	1,900	1,739
Morehead State U.	484	1,528	1,656	1,597	1,816	1,069	1,217	1,797	2,162	1,839	1,651	1,674	1,727	2,086	1,718
Nevada State C.	485	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,167	1,711
U. Northern Colorado	486	2,082	1,681	1,373	1,024	1,965	1,359	1,962	2,349	2,271	1,966	1,853	1,942	1,692	1,705
Indiana U. Pennsylvania	487	660	833	672	101	169	ne	373	1,309	891	1,810	1,309	1,503	1,797	1,702
Albany State U.	488	396	893	2,000	1,532	1,271	1,128	1,137	1,026	839	1,065	836	552	ne	1,681
Savannah State U.	489	1,774	2,518	1,874	2,514	2,127	1,796	2,251	1,390	1,778	1,709	1,804	1,804	1,881	1,675
Utah Valley U.	490	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,280	1,671
Benedict C.	491	1,473	2,925	2,713	2,625	2,443	1,373	1,621	1,634	1,889	1,226	635	ne	ne	1,665
U. Louisiana, Monroe	492	1,470	1,971	1,752	976	1,705	1,479	2,016	1,838	1,789	1,949	2,025	1,465	1,993	1,655
U. Texas, Tyler	493	3,378	1,277	6,535	4,123	4,601	2,570	1,936	708	719	813	774	929	1,585	1,652
SUNY, Buffalo State U.	494	1,293	1,965	2,348	1,336	1,076	846	859	877	1,057	1,225	1,241	977	1,299	1,615
Mount Holyoke C.	495	1,362	2,010	1,827	1,863	2,435	2,327	2,848	3,168	2,210	2,074	1,442	1,539	1,511	1,612
Western Carolina U.	496	1,296	721	974	664	669	740	873	971	1,038	1,736	1,707	1,697	1,727	1,600
Pittsburg State U.	497	999	1,280	989	791	1,023	453	270	316	195	339	477	759	1,167	1,591
Sul Ross State U.	498	1,595	1,672	1,073	735	546	333	272	440	553	339	481	843 i	1,205 i	1,568
Johnson C. Smith U.	499	ne	ne	ne	ne	ne	ne	1,279	1,469	2,003	1,909	2,230	2,049 i	1,868	1,554
Virginia Military Institute	500	451	133	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,137	1,534
Colgate U.	501	1,519	1,058	1,497	1,320	1,153	1,109	1,217	1,096	1,389	1,202	918	1,440	1,570	1,521
CUNY, York C.	502	ne	1,507	861	693	ne	534	ne	ne	ne	1,511	1,513	922	1,659	1,504

TABLE 24

Federally financed higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023						
Palmer C. of Chiropractic, Davenport	503	3,009	3,344	2,906	1,991	1,775	i	1,558	1,485	1,189	1,100	1,100	1,400	1,733	1,550	1,500					
U. Houston-Downtown	504	908	1,186	1,828	1,183	1,800		1,571	1,165	1,710	1,836	1,437	1,392	1,169	903	1,495					
Lake Superior State U.	505	ne	133	ne	ne	ne		327	272	726	237	ne	ne	ne	1,184	1,475					
Franklin and Marshall C.	506	1,857	1,397	1,116	879	889		1,017	955	1,732	1,760	1,582	1,202	1,363	1,680	1,469					
U. Alaska, Southeast	507	1,222	941	1,003	1,113	1,183		1,341	1,502	1,480	1,636	1,235	1,098	1,046	1,392	1,463					
Bates C.	508	971	1,485	1,555	1,390	1,114		2,004	1,156	1,053	1,121	1,607	1,885	2,079	1,785	1,455					
Williams C.	508	2,330	2,117	2,029	1,498	1,029		1,700	1,614	1,703	1,458	1,131	1,086	i	1,152	i	1,286	i	1,455	i	
Southern Connecticut State U.	510	1,459	1,199	1,595	1,176	1,620		1,626	1,324	1,274	823	803	1,026	713	848	1,433					
Ferris State U.	511	ne	ne	ne	ne	ne		ne	ne	ne	ne	ne	ne	ne	ne	1,430					
Claremont Graduate U.	512	5,888	5,215	8,875	8,452	7,358	i	6,264	i	5,170	i	4,076	i	2,982	i	1,886	809	1,152	1,610	1,422	
Claflin U.	513	3,226	5,103	5,090	2,643	1,711		1,158	1,743	1,344	1,491	1,735	1,907	1,005	1,179	1,418					
Austin Peay State U.	514	ne	729	484	364	189		334	325	347	599	295	475	597	870	1,401					
West Chester U. Pennsylvania	515	3,614	i	5,845	1,457	561		404	511	454	624	671	715	724	608	854	1,386				
U. Richmond	516	2,138	1,831	2,376	1,979	2,134		2,013	1,924	1,870	1,628	1,575	1,628	1,534	1,624	1,379					
Oregon Institute of Technology	517	ne	193	ne	ne	ne		270	1,268	752	i	235	437	326	252	340	1,375				
Norwich U.	518	ne	1,064	733	878	831		1,121	461	480	ne	ne	ne	ne	ne	1,366					
Southeastern Louisiana U.	518	1,161	911	985	1,039	692		1,429	975	1,215	1,046	803	884	795	1,285	1,366					
Davidson C.	520	1,153	1,053	651	1,619	1,170		1,703	813	1,105	813	973	1,411	1,151	1,370	1,340					
New School	521	1,670	2,042	2,385	2,669	1,972		2,300	2,428	2,345	1,857	1,819	1,050	1,324	1,261	1,337					
United Tribes Technical C.	521	ne	ne	ne	ne	ne		ne	ne	ne	ne	ne	ne	ne	ne	1,337					
U. Oklahoma, Tulsa	523	ne	ne	ne	ne	ne		895	1,104	976	1,605	1,803	1,953	1,267	1,804	1,328					
Furman U.	524	1,332	1,111	1,164	1,217	891		1,136	1,068	1,292	1,110	1,106	847	1,028	1,280	1,300					
U. of the Pacific	524	3,135	2,678	2,090	1,676	2,675		1,751	1,991	1,474	2,141	2,158	1,375	1,106	1,351	1,300					
U. Puget Sound	524	166	295	ne	ne	ne		ne	ne	459	ne	ne	401	ne	780	1,300					
SUNY, Geneseo	527	755	1,306	1,532	640	474		663	930	992	998	1,206	950	1,273	1,564	1,292					
Bryn Mawr C.	528	1,301	1,901	1,848	2,514	1,353		1,713	2,556	2,507	2,242	1,801	1,531	1,429	1,257	1,289					
Skidmore C.	529	1,872	1,562	1,334	1,448	1,193		969	747	1,194	1,893	2,261	1,827	1,739	861	1,288					
Touro U., California	530	999	1,558	1,390	1,351	1,374		1,332	1,199	1,196	1,410	1,540	1,558	1,377	964	1,279					
U. Houston-Clear Lake	531	301	818	730	875	739		541	756	753	894	718	632	865	841	1,273					
U. Hartford	532	820	1,576	1,505	1,175	1,080		1,089	1,172	1,178	591	1,019	854	766	886	1,269					
Albany C. of Pharmacy and Health Sciences	533	1,380	1,634	1,182	1,333	1,643		1,065	380	566	1,094	1,692	1,938	1,900	1,110	1,256	i				
U. Wisconsin-Oshkosh	534	832	1,154	1,238	1,012	1,048	i	1,084	i	ne	1,113	i	1,106	i	1,099	i	1,092	i	1,083	1,336	1,249

TABLE 24

Federally financed higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
St. Olaf C.	568	1,247	843	1,220	955	760	668	849	797	333	255	230	271	ne	933
Marian U., Indianapolis	569	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	918
East Stroudsburg U. Pennsylvania	570	ne	250	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	598	909
Minnesota State U., Mankato	571	2,051	852	701	313	317	546	1,260	605	639	708	525	575	575	905
SUNY, Oswego	572	644	871	ne	673	ne	ne	ne	669	661	628	492	415	544	894
Suffolk U.	573	ne	299	249	360	317	250	413	576	ne	ne	844	634	340	893
Merrimack C.	574	ne	ne	ne	ne	ne	ne	ne	ne	353	ne	306	ne	ne	892
U. South Carolina, Beaufort	575	338	675	ne	ne	ne	478	ne	ne	ne	ne	ne	ne	ne	889
Northland C.	576	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	697	778	880
Oberlin C.	576	1,359	1,183	1,330	1,204	1,204	1,364	962	1,558	1,096	1,576	743	505	ne	880
U. Scranton	578	19	64	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	866
National U. of Natural Medicine	579	ne	247	ne	ne	ne	ne	ne	427	ne	760	912	523	ne	862
Calvin U.	580	2,084	560	664	774	1,273	1,034	795	880	1,363	925	927	929	931	854
Northwestern State U. Louisiana	581	635	683	609	600	494	ne	490	458	490	579	598	738	742	822
SUNY, C. Brockport	582	521	677	989	755	564	535	639	747	672	638	781	500	751	813
Bentley U.	583	ne	ne	ne	ne	ne	ne	ne	110	ne	ne	ne	ne	509	802
Eastern Kentucky U.	584	2,638	2,852	2,329	2,078	1,518	1,111	1,029	758	655	598	554	530	ne	798
Rhode Island C.	585	ne	2,404	9,060	8,976	6,960	7,258	3,928	3,831	3,337	3,332	4,128	4,894	5,372	786
U. South Carolina, Aiken	586	122	592	ne	937	759	689	1,155	2,697	2,437	2,379	2,328	1,884	857	782
Lewis and Clark C.	587	843	684	718	1,490	1,378	872	636	723	848	931	1,268	702	746	776
Arcadia U.	588	1,206	1,621	620	ne	ne	ne	ne	ne	ne	ne	ne	371	ne	772
Monmouth U.	589	2,190	1,873	714	ne	635	ne	173	ne	ne	120	110	174	535	762
U. Puerto Rico, Cayey	590	710	1,278	1,515	1,168	1,143	959	1,105	704	632	963	1,210	1,202	757	733
SUNY, Cobleskill	591	1,382	909	ne	874	ne	ne	ne	ne	ne	ne	ne	ne	379	730
Union C., Schenectady	592	1,427	959	867	1,863	1,385	1,080	1,680	554	885	972	462	976	750	729
Milwaukee School of Engineering	593	1,177	1,181	1,207	1,245	1,500	1,335	1,164	775	680	764	613	751	969	722
U. Wisconsin-La Crosse	594	2,150	2,013	1,876	1,240	1,095	1,006	1,250	1,158	1,171	777	817	895	968	714
Framingham State U.	595	ne	ne	ne	ne	ne	ne	ne	4	17	ne	179	352	525	700
St. Cloud State U.	596	1,260	622	215	420	797	1,299	643	555	529	733	459	577	401	689
Stockton U.	597	ne	405	160	ne	380	198	221	ne	246	553	872	486	728	688
Trinity C., Hartford	598	1,026	1,217	1,432	1,040	1,313	889	893	2,084	794	1,077	1,019	1,348	1,049	687

TABLE 24

Federally financed higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Edward Via C. of Osteopathic Medicine	599	ne	707	502	517	250	89	88	94	195	749	566	537	482	678
Pepperdine U.	600	933	299	808	914	1,162	1,058	1,233	1,087	713	914	693	835	883	674
Robert Morris U.	601	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	605	664
Connecticut C.	602	954	1,005	1,130	833	514	756	817	777	505	752	483	439	620	648
Franklin W. Olin C. of Engineering	603	ne	666	1,090	946	1,050	1,103	782	588	472	162	293	636	809	641
Sacred Heart U.	604	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	675	ne	639
Alaska Pacific U.	605	283	349	ne	ne	ne	802	671	665	436	451	148	189	581	627
Colorado C.	606	473	458	389	376	570	602	358	745	429	324	196	3,725	1,371	611
C. Wooster	607	249	512	183	ne	404	386	ne	736	744	456	283	510	737	594
Northern Michigan U.	608	287	237	ne	ne	ne	ne	288	304	354	311	446	366	571	560
Des Moines U.	609	62	91	ne	ne	224	ne	386	878	933	845	449	1,019	1,589	556
U. Wisconsin-River Falls	610	134	174	ne	ne	ne	ne	ne	529	445	ne	488	212	ne	551
Western New England U.	611	ne	931	325	ne	ne	ne	581	214	ne	ne	ne	ne	648	538
Southern U., New Orleans	612	369	650	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	536
Liberty U.	613	ne	ne	ne	ne	ne	ne	ne	ne	ne	535	886	120	ne	532
U. of St. Thomas (MN)	614	842	933	767	702	352	ne	195	212	320	313	450	1,321	527	531
Gettysburg C.	615	524	266	ne	ne	ne	ne	ne	597	901	841	320	ne	ne	517
U. Puerto Rico, Ponce	616	ne	130	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	510
West Virginia School of Osteopathic Medicine	617	22	17	ne	ne	ne	ne	ne	ne	ne	ne	419	423	468	500
Willamette U.	618	666	650	1,327	822	860	745	1,090	1,028	872	549	401	896	791	490
Elon U.	619	ne	40	112	161	398	376	423	358	309	284	106	138	428	479
U. North Georgia	620	ne	ne	ne	ne	ne	ne	ne	671	1,013	637	542	497	734	477
Gustavus Adolphus C.	621	97	109	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	467
U. Wisconsin-Platteville	622	46	50	ne	ne	328	309	ne	349	ne	339	336	353	435	465
Ithaca C.	623	617	627	774	825	816	635	ne	ne	ne	ne	981	685	703	453
Whitman C.	624	1,080	957	398	ne	ne	ne	ne	ne	ne	704	558	ne	434	449
U. Virginia's C. Wise	625	76	38	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,307	786	447
Andrews U.	626	280	77	ne	ne	ne	ne	ne	ne	ne	278	263	256	ne	445
Philadelphia C. of Osteopathic Medicine	627	812	850	694	277	104	192	150	260	260	346	422	318	40	442
Bryant U.	628	ne	143	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	436
Marshall B. Ketchum U.	629	ne	ne	ne	ne	48	224	375	368	354	336	323	343	383	433
Lincoln U.	630	1,114	1,336	1,313	861	ne	ne	ne	ne	645	ne	ne	ne	ne	430
Wheaton C., Wheaton	631	ne	585	114	ne	178	193	ne	70	50	301	324	148	ne	428

TABLE 24

Federally financed higher education R&D expenditures, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
All other surveyed institutions	-	1,316,084	1,478,130	1,445,174	1,340,553	1,109,650	1,076,097	1,116,223	1,161,725	1,239,166	649,512	617,124	266,913	254,840	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

^a Johns Hopkins University includes the Applied Physics Laboratory, with \$2,268,228 thousand in federally financed R&D expenditures in FY 2023.

^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^c The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

^d The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

^e The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

^f The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

^g Touro University, New York includes the Lovelace Biomedical Research Institute. In FY 2023, the Lovelace Biomedical Research Institute joined the Touro University System.

Note(s):

Institutions reporting zero federal expenditures for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	59,603,993	2,417,938	2,693,891	33,896,235	661,446	4,621,763	978,784	1,202,546	475,264	10,931,327	1,724,799
Johns Hopkins U. ^a	1	3,324,551	299,497	67,703	897,607	224,276	318,657	7,573	9,001	60,538	1,436,413	3,286
U. Washington, Seattle	2	1,188,836	18,717	135,638	763,571	8,377	63,604	8,970	10,546	0	139,691	39,722
Georgia Institute of Technology	3	1,083,903	159,436	7,393	17,718	4,607	24,326	2,128	4,063	0	847,360	16,872
U. California, San Diego	4	1,083,790	34,673	169,439	642,446	3,043	70,946	11,000	7,973	0	114,380	29,890
U. Michigan, Ann Arbor	5	1,041,430	7,577	10,505	631,452	7,505	42,501	9,184	113,394	2,861	206,437	10,014
Columbia U. in the City of New York	6	988,670	24,749	63,561	739,861	2,650	41,677	3,518	2,911	0	80,040	29,703
Duke U.	7	974,202	11,229	6,097	807,184	5,166	25,284	7,025	25,177	9	85,594	1,437
Stanford U.	8	943,669	15,889	12,175	689,915	5,291	78,192	10,153	5,626	0	100,033	26,395
U. Pennsylvania	9	936,469	14,071	625	765,293	4,584	49,316	8,656	16,193	324	56,036	21,371
U. Pittsburgh, Pittsburgh	10	916,735	8,450	9,854	792,983	3,886	21,533	13,588	1,789	6,017	54,013	4,622
U. North Carolina, Chapel Hill	11	907,710	35,159	16,172	668,464	2,975	32,265	27,799	65,162	0	24,138	35,576
U. California, Los Angeles	12	878,571	10,926	38,858	639,872	8,404	44,032	13,995	13,624	27,632	62,859	18,369
U. California, San Francisco	13	858,066	0	0	816,481	0	41,585	0	0	0	0	0
U. Maryland ^b	14	825,546	48,215	74,204	390,312	4,143	102,096	9,515	39,549	17,650	112,818	27,044
U. Wisconsin-Madison	15	816,814	21,627	44,661	484,792	5,225	73,094	5,201	30,209	34,298	93,870	23,837
New York U.	16	787,204	11,518	188	670,216	10,870	18,882	21,388	10,489	0	24,015	19,638
Pennsylvania State U., University Park and Hershey Medical Center	17	781,303	83,515	26,986	178,800	21,148	58,927	28,731	19,189	0	348,549	15,458
Washington U., Saint Louis	18	758,464	4,773	6,169	658,608	1,118	25,365	7,120	1,759	113	28,140	25,299
Vanderbilt U. and Vanderbilt U. Medical Center	19	751,019	15,997	1,374	623,875	693	16,670	9,667	3,695	0	53,911	25,137
Yale U.	20	741,198	7,023	3,134	650,783	1,990	37,212	6,752	4,316	0	24,446	5,542
Cornell U.	21	705,132	18,513	4,631	470,625	2,852	105,708	4,302	8,061	145	84,312	5,983
U. Minnesota, Twin Cities	22	702,483	9,091	11,431	493,390	5,394	33,927	23,854	22,801	243	92,997	9,355
Ohio State U.	23	694,647	14,679	6,142	458,697	3,275	27,100	4,526	12,385	23,995	113,636	30,212
U. Southern California	24	683,819	116,290	13,949	381,729	1,748	13,375	7,570	60,441	0	68,833	19,884
Northwestern U.	25	678,062	7,891	929	526,737	1,310	53,306	1,817	11,247	12,677	57,708	4,440
Emory U.	26	664,370	3,164	2,266	617,601	1,542	16,167	3,444	1,595	0	17,322	1,269
Icahn School of Medicine at Mount Sinai	27	658,916	0	0	658,916	0	0	0	0	0	0	0
Harvard U.	28	639,953	11,410	19,045	425,411	16,858	65,331	3,140	45,358	444	42,222	10,734
U. Texas, Austin	29	621,223	97,635	28,880	97,447	7,001	76,105	11,970	13,532	6	249,098	39,549
Massachusetts Institute of Technology	30	559,766	68,071	20,269	86,466	5,971	132,434	520	9,496	5,077	226,746	4,716
Texas A&M U., College Station and Health Science Center	31	546,481	17,436	99,602	172,838	5,979	31,816	6,087	13,562	5,728	170,864	22,569
U. Colorado Boulder	32	538,715	19,774	134,584	51,966	3,900	146,786	12,204	12,038	1,254	140,779	15,430

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Florida	33	529,391	12,409	11,348	352,391	1,925	28,674	11,545	7,471	0	84,288	19,340
U. California, Berkeley	34	496,298	1,832	7,459	141,785	6,502	157,546	8,162	10,143	58,299	92,895	11,675
U. California, Davis	35	494,847	5,918	10,879	363,804	4,285	23,211	2,955	18,325	24	59,180	6,266
U. Chicago	36	476,689	32,781	9,341	304,483	4,564	61,355	7,849	9,412	0	40,732	6,172
U. Colorado Anschutz Medical Campus	37	474,523	0	75	471,749	0	279	911	56	0	707	746
U. Illinois, Urbana-Champaign	38	460,491	56,104	15,466	123,278	3,184	57,753	7,736	3,155	706	176,925	16,184
U. Alabama, Birmingham	39	451,880	815	0	421,115	169	4,247	7,961	633	0	15,320	1,620
Baylor C. of Medicine	40	440,345	0	0	440,345	0	0	0	0	0	0	0
Michigan State U.	41	435,564	9,968	3,391	176,867	8,247	154,210	8,883	19,628	863	37,598	15,909
U. Arizona	42	434,700	7,738	18,827	244,172	3,304	87,271	8,221	8,487	3,003	49,493	4,184
Indiana U., Bloomington	43	432,223	35,137	3,250	325,897	2,014	18,516	10,082	10,144	1,415	18,033	7,735
Case Western Reserve U.	44	431,736	4,784	667	368,182	632	4,507	1,530	5,227	175	43,497	2,535
U. Utah	45	416,079	0	9,127	260,698	3,127	20,854	4,213	12,980	0	93,722	11,358
Boston U.	46	409,551	8,749	6,716	274,668	2,753	26,252	14,547	1,028	1,579	62,597	10,662
Uniformed Services U. of the Health Sciences	47	403,671	0	0	364,294	0	0	39,377	0	0	0	0
Rutgers, State U. New Jersey, New Brunswick	48	400,930	5,557	14,997	298,495	6,424	13,191	8,532	2,263	22	40,402	11,047
U. Cincinnati	49	391,943	895	896	347,406	849	6,422	9,094	4,897	0	17,940	3,544
Purdue U., West Lafayette	50	385,738	18,513	5,949	109,823	1,524	32,897	3,290	6,347	91	188,696	18,608
Oregon Health and Science U.	51	374,043	0	0	361,933	0	13	0	0	0	12,097	0
U. Rochester	52	368,190	2,464	2,366	210,132	292	117,139	5,575	506	8,857	18,978	1,881
U. Virginia, Charlottesville	53	354,748	19,009	4,724	194,206	1,576	19,880	4,907	1,489	0	65,008	43,949
Colorado State U., Fort Collins	54	354,401	3,617	48,659	215,670	2,749	16,078	2,818	8,774	8,144	39,358	8,534
Arizona State U.	55	340,880	21,665	41,166	76,676	1,607	27,453	8,950	25,628	4,040	98,381	35,314
U. Texas Southwestern Medical Center	56	336,126	0	0	336,126	0	0	0	0	0	0	0
U. California, Irvine	57	335,393	13,381	7,903	208,512	4,445	30,228	7,151	2,116	39	45,509	16,109
U. Iowa	58	331,824	2,227	1,130	228,930	706	57,100	7,031	896	30	27,689	6,085
Utah State U.	59	322,336	1,929	1,018	28,675	340	4,246	2,211	365	0	280,768	2,784
California Institute of Technology	60	310,519	9,088	30,338	64,984	489	160,855	1,031	1,634	63	41,780	257
U. Miami	61	291,783	2,185	52,297	210,172	368	5,934	14,258	405	0	4,988	1,176
Virginia Polytechnic Institute and State U.	62	282,152	14,280	3,961	89,893	6,803	15,624	3,775	4,128	0	128,941	14,747
U. Nebraska, Lincoln and Medical Center ^c	63	280,120	4,526	1,588	188,452	1,572	26,970	10,234	4,049	7	37,913	4,809
Carnegie Mellon U.	64	279,954	136,813	1,122	9,772	6,431	15,023	8,376	1,966	4,004	95,826	621
North Carolina State U.	65	279,179	15,455	20,341	96,838	11,113	16,937	1,119	2,620	9,647	100,328	4,781

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Scripps Research Institute	66	278,099	0	0	278,099	0	0	0	0	0	0	0
U. Illinois, Chicago	67	274,424	5,756	731	202,299	3,130	20,200	1,182	2,747	958	29,282	8,139
U. Kentucky	68	265,543	2,202	1,868	201,680	1,181	7,162	5,715	2,867	473	37,882	4,513
U. Texas M. D. Anderson Cancer Center	69	259,285	0	0	225,450	11,294	11,861	4,918	5,762	0	0	0
SUNY, U. Buffalo	70	257,857	12,966	4,556	136,241	885	9,997	4,357	646	260	83,743	4,206
U. South Florida	71	242,224	10,902	13,777	132,859	849	4,431	2,777	16,052	196	34,863	25,518
Brown U.	72	239,744	12,185	7,463	128,698	12,161	12,798	9,599	24,744	9,504	20,340	2,252
U. Connecticut	73	238,701	3,562	8,186	139,444	1,823	11,828	19,530	3,021	298	46,010	4,999
Woods Hole Oceanographic Institution	74	238,554	0	154,295	0	0	0	0	0	0	84,259	0
Albert Einstein C. of Medicine	75	230,151	0	0	230,151	0	0	0	0	0	0	0
U. Massachusetts, Medical School	76	223,490	0	0	223,490	0	0	0	0	0	0	0
Oregon State U.	77	222,169	4,122	50,415	90,340	813	7,052	1,085	3,641	3,082	55,520	6,099
U. Georgia	78	221,804	2,597	8,259	151,231	1,335	4,938	19,318	13,265	153	11,735	8,973
U. Oklahoma, Norman and Health Science Center	79	219,964	5,640	64,382	85,141	546	11,345	3,332	4,779	0	30,388	14,411
Princeton U.	80	219,600	16,491	21,598	53,629	6,148	59,526	1,810	7,135	0	52,300	963
U. Missouri, Columbia	81	217,091	5,340	1,388	148,119	1,100	7,860	4,587	1,433	1,810	16,700	28,754
U. Dayton	82	216,729	23,181	728	1,664	61	361	157	100	0	188,040	2,437
U. Kansas	83	211,111	4,542	7,241	121,051	575	13,648	6,847	1,320	59	15,825	40,003
Washington State U.	84	207,086	7,409	6,514	120,447	164	13,980	2,496	4,771	2,272	22,414	26,619
U. New Mexico	85	205,351	3,652	6,936	127,253	884	10,132	6,249	5,006	161	42,513	2,565
Wake Forest U.	86	204,713	490	0	200,949	292	1,482	230	80	0	937	253
U. Delaware	87	202,469	4,163	19,081	37,111	1,685	28,042	6,540	6,363	3,058	90,547	5,879
U. Texas Health Science Center, Houston	88	197,759	0	0	197,759	0	0	0	0	0	0	0
Iowa State U.	89	195,394	3,346	3,218	73,394	11,643	23,112	811	1,273	0	73,907	4,690
Florida State U.	90	195,323	3,674	10,234	37,541	2,220	52,655	9,248	3,744	1,540	43,395	31,072
SUNY, Stony Brook U.	91	192,448	12,371	16,828	80,051	4,535	38,023	4,121	1,065	5,105	28,320	2,029
U. Hawaii, Manoa	92	192,205	22,073	56,127	70,252	483	15,748	429	1,045	4,075	20,303	1,670
Northeastern U.	93	186,013	17,333	3,357	24,681	921	23,066	7,387	5,623	0	96,495	7,150
Virginia Commonwealth U.	94	184,852	1,799	59	139,106	574	3,547	8,509	746	0	8,436	22,076
U. California, Santa Barbara	95	179,896	14,281	12,410	12,411	1,376	47,290	2,285	4,523	6,171	77,243	1,906
Medical U. South Carolina	96	168,957	0	0	168,957	0	0	0	0	0	0	0
Dartmouth C. and Dartmouth Hitchcock Medical Center	97	168,740	4,684	3,046	105,853	3,795	9,680	10,158	1,824	863	28,224	613
George Washington U.	98	162,892	3,196	392	114,971	315	5,740	3,625	12,515	3,459	14,653	4,026

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Alaska, Fairbanks	99	156,702	166	95,819	25,680	336	9,443	3	1,465	8,366	13,928	1,496
Florida International U.	100	156,381	13,542	15,441	33,432	633	19,452	22,453	7,042	759	37,670	5,957
Medical C. Wisconsin	101	155,403	0	0	149,668	0	0	0	0	0	5,735	0
Temple U.	102	154,516	4,626	431	114,411	739	12,195	8,617	1,618	41	4,482	7,356
Tufts U.	103	154,458	2,296	1,875	92,307	4,331	8,160	5,199	2,089	16,357	20,965	879
U. Tennessee, Knoxville	104	153,637	5,586	2,380	42,883	1,021	15,806	1,578	1,480	7,701	70,876	4,326
Tulane U.	105	152,468	1,105	5,364	131,852	456	4,173	1,839	2,919	0	4,041	719
U. New Hampshire	106	152,377	802	92,244	27,945	581	2,846	466	11,283	0	13,998	2,212
Mississippi State U.	107	150,804	7,165	12,719	51,611	117	5,802	544	13,329	757	54,768	3,992
U. Texas Medical Branch	108	150,272	0	0	149,765	0	0	0	0	0	507	0
U. Notre Dame	109	147,985	9,564	0	13,981	3,482	37,066	5,314	2,006	6,496	57,913	12,163
U. Texas Health Science Center, San Antonio	110	143,730	0	0	143,730	0	0	0	0	0	0	0
Montana State U., Bozeman	111	142,965	1,981	4,029	39,505	1,477	21,673	575	686	6,885	54,709	11,445
Wichita State U.	112	142,371	0	0	1,183	133	1,658	228	24	0	136,780	2,365
U. Massachusetts, Amherst	113	138,849	16,516	3,057	43,382	2,171	18,832	6,191	2,880	0	41,770	4,050
Clemson U.	114	129,955	5,586	0	30,942	1,457	8,075	2,839	5,328	0	65,399	10,329
U. Vermont	115	128,645	869	3,691	105,516	214	1,828	2,080	3,534	850	9,208	855
Wayne State U.	116	128,521	2,776	53	96,256	490	14,149	2,513	526	438	7,106	4,214
Georgetown U.	117	127,370	2,449	0	109,818	99	7,924	1,372	5,331	0	0	377
Louisiana State U., Baton Rouge	118	127,243	5,835	12,616	62,288	1,883	14,676	437	2,024	123	15,748	11,613
U. Alabama, Huntsville	119	126,040	43,721	21,468	892	42	14,689	157	1,580	0	42,694	797
Auburn U., Auburn	120	125,783	2,567	2,077	54,282	729	9,293	291	1,018	1,560	50,218	3,748
George Mason U.	121	125,437	15,847	14,490	18,356	1,523	5,856	2,881	12,132	88	49,947	4,317
U. South Carolina, Columbia	122	124,330	2,871	4,012	69,522	1,418	1,336	6,419	4,786	0	27,685	6,281
U. Central Florida	123	124,256	19,488	3,273	16,303	868	28,344	5,768	1,851	1,109	41,638	5,614
U. California, Riverside	124	120,524	6,123	6,910	57,145	1,795	15,451	4,838	1,049	1,879	23,236	2,098
Rice U.	125	119,853	7,788	4,759	10,966	4,143	21,939	4,103	2,517	501	61,759	1,378
West Virginia U.	126	114,708	1,639	2,448	69,272	208	11,286	825	1,317	765	23,114	3,834
U. California, Santa Cruz	127	112,847	3,928	21,751	20,473	203	22,072	290	819	0	42,217	1,094
Thomas Jefferson U.	128	110,366	0	0	110,312	0	0	0	0	0	33	21
Drexel U.	129	108,724	5,264	0	58,903	467	1,615	2,706	665	43	31,364	7,697
U. Rhode Island	130	102,056	2,431	45,185	27,275	57	3,062	3,098	2,463	3,334	11,545	3,606
Rockefeller U.	131	101,422	0	26	98,597	86	2,713	0	0	0	0	0

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Louisville	132	100,890	44	46	79,218	111	1,382	2,035	493	76	15,122	2,363
New Mexico Institute of Mining and Technology	133	100,873	14,051	8,266	480	151	6,995	464	0	0	68,220	2,246
U. Oregon	134	100,265	5,587	6,186	31,772	1,441	14,369	19,850	1,764	5	5,004	14,287
U. Houston	135	99,450	5,957	5,045	23,235	4,265	9,287	12,202	1,235	1,055	31,432	5,737
U. Arkansas for Medical Sciences	136	94,483	0	0	94,483	0	0	0	0	0	0	0
Rush U.	137	93,180	0	0	88,996	0	0	4,184	0	0	0	0
U. Maine	138	92,870	705	11,688	23,687	52	2,820	92	135	4,352	46,933	2,406
Georgia State U.	139	91,331	2,675	782	43,706	932	10,931	4,347	9,993	0	0	17,965
U. Maryland, Baltimore County	140	86,573	9,692	30,538	9,131	325	21,603	816	7,087	1,130	4,065	2,186
U. Alabama, Tuscaloosa	141	86,244	5,584	12,947	11,858	453	7,960	3,001	2,454	0	32,570	9,417
U. Mississippi	142	85,186	107	1,849	66,052	169	8,722	49	462	0	4,284	3,492
U. Louisiana, Lafayette	143	84,898	13,962	2,029	31,151	174	215	0	3,998	0	10,734	22,635
U. Nevada, Reno	144	83,603	4,270	8,364	42,300	109	7,666	3,255	1,916	88	14,595	1,040
Kansas State U.	145	82,610	1,994	128	44,020	527	9,127	3,314	4,015	224	15,212	4,049
U. Arkansas, Fayetteville	146	82,164	4,104	2,351	23,708	80	13,005	969	3,237	497	27,734	6,479
U. North Texas, Health Science Center	147	77,660	0	0	76,741	0	0	0	919	0	0	0
U. Montana, Missoula	148	75,490	597	2,846	58,193	473	6,654	310	2,043	0	0	4,374
New Mexico State U.	149	71,764	4,253	2,452	25,116	111	7,413	30	488	3,269	28,215	417
U. Texas, El Paso	150	70,873	6,258	2,652	18,554	1,117	6,551	3,567	1,086	0	28,605	2,483
U. Tennessee, Health Science Center	151	70,676	0	0	70,356	0	0	0	0	0	0	320
New Jersey Institute of Technology	152	70,080	4,296	0	1,374	1,093	8,613	0	148	254	53,008	1,294
Colorado School of Mines	153	68,795	3,468	6,428	1,222	748	15,408	29	902	345	39,767	478
U. Wyoming	154	68,467	1,006	13,191	39,798	767	2,469	82	1,065	7	9,991	91
San Diego State U.	155	68,045	964	1,615	25,723	1,527	5,712	16,043	1,416	166	6,656	8,223
U. Texas, Dallas	156	66,127	7,112	277	17,587	962	11,068	1,992	973	0	25,609	547
U. North Dakota	157	65,890	2,318	3,762	21,527	0	5,282	389	126	24	27,690	4,772
Augusta U.	158	64,410	854	0	63,267	94	82	93	0	0	0	20
Oklahoma State U., Stillwater	159	64,098	540	973	25,550	751	3,955	1,938	1,989	3,865	21,997	2,540
SUNY, U. Albany	160	62,935	1,484	7,730	43,062	328	3,759	1,259	2,790	0	1,412	1,111
Naval Postgraduate School	161	62,715	7,783	10,695	366	1,981	4,038	356	5,955	4,272	21,980	5,289
U. Idaho	162	61,531	3,376	2,410	44,964	46	1,265	50	1,788	0	6,244	1,388
U. Massachusetts, Lowell	163	61,413	5,635	792	10,241	281	12,222	344	3,989	0	25,882	2,027
Texas Tech U.	164	58,922	1,410	5,564	14,981	996	4,550	914	983	0	27,046	2,478

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Texas, San Antonio	165	58,171	13,407	2,904	17,421	316	5,045	552	3,797	229	11,142	3,358
Cleveland State U.	166	56,550	0	0	42,985	139	580	163	903	0	9,606	2,174
Rensselaer Polytechnic Institute	167	56,445	4,769	1,339	4,524	1,244	5,155	2,144	133	0	34,192	2,945
U. Texas, Arlington	168	56,337	3,739	82	9,619	1,357	10,808	681	76	0	26,470	3,505
Florida A&M U.	169	54,363	220	5,183	25,160	28	2,169	115	124	0	8,959	12,405
Cold Spring Harbor Laboratory	170	54,123	0	0	54,123	0	0	0	0	0	0	0
North Dakota State U.	171	53,339	1,227	153	24,760	14	7,949	1,169	951	2,404	13,852	860
Michigan Technological U.	172	52,102	4,975	12,604	4,559	192	1,591	273	358	227	27,248	75
Northern Arizona U.	173	50,491	2,894	4,316	33,000	0	4,508	92	461	359	3,505	1,356
U. Southern Mississippi	174	48,374	236	22,242	7,120	0	9,823	17	885	0	5,330	2,721
Howard U.	175	47,662	6,235	0	21,080	253	5,764	218	1,477	0	6,744	5,891
U. Puerto Rico, Medical Sciences Campus	176	46,789	0	250	46,539	0	0	0	0	0	0	0
Brandeis U.	177	46,654	1,110	0	23,270	540	10,317	2,889	7,478	963	0	87
Syracuse U.	178	46,595	1,060	1,360	9,572	353	11,176	1,004	3,828	933	8,149	9,160
Air Force Institute of Technology	179	45,087	7,354	1,123	0	352	7,070	0	0	0	29,188	0
Texas State U.	180	44,297	1,150	1,984	6,976	1,514	3,905	149	3,882	45	3,577	21,115
Saint Louis U.	181	44,157	729	581	35,488	199	2,955	81	304	0	1,603	2,217
U.S. Air Force Academy	182	44,056	1,260	46	4,130	27	1,669	0	106	1,014	35,804	0
Stevens Institute of Technology	183	44,036	4,145	0	104	410	2,206	0	174	0	36,535	462
Morehouse School of Medicine	184	41,069	0	0	41,069	0	0	0	0	0	0	0
Touro U., New York	185	40,008	0	0	40,008	0	0	0	0	0	0	0
Lehigh U.	186	39,909	1,823	1,205	6,852	443	4,084	656	573	0	21,706	2,567
Indiana U.-Purdue U., Indianapolis	187	39,869	3,503	1,019	14,902	459	2,535	2,881	5,493	677	6,049	2,351
Boston C.	188	39,356	669	7,462	7,509	1,121	9,802	2,443	3,323	0	0	7,027
U. Nevada, Las Vegas	189	38,815	1,300	3,419	16,628	261	6,399	666	803	28	6,771	2,540
CUNY, City C.	190	38,669	355	1,578	7,834	236	9,283	1,178	0	4	17,700	501
U. Toledo	191	37,872	0	3,228	15,144	42	8,941	187	18	0	7,048	3,264
Worcester Polytechnic Institute	192	37,736	8,476	0	1,519	1,947	2,787	0	793	0	20,579	1,635
Rochester Institute of Technology	193	37,334	8,031	0	1,105	1,850	9,434	533	262	0	11,359	4,760
North Carolina A&T State U.	194	37,152	1,714	0	12,291	1,061	3,084	87	111	1,330	14,059	3,415
Louisiana State U., Health Sciences Center, New Orleans	195	35,933	0	0	35,933	0	0	0	0	0	0	0
Boise State U.	196	35,801	1,623	2,766	8,196	513	4,961	282	1,614	183	14,082	1,581
Catholic U. of America	197	35,502	0	0	565	202	30,887	465	3	0	2,405	975

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Florida Atlantic U.	198	35,108	3,666	482	13,181	558	1,837	1,145	217	0	12,770	1,252
SUNY, Polytechnic Institute	199	34,393	18	0	1,884	0	0	0	0	0	32,487	4
U. North Carolina, Charlotte	200	33,784	7,266	675	5,427	1,221	4,854	477	1,013	0	9,789	3,062
U. Denver	201	33,148	122	85	6,681	64	1,452	6,865	3,213	84	1,353	13,229
William & Mary	202	32,631	2,535	16,880	2,121	275	5,641	112	1,997	0	0	3,070
Missouri U. of Science and Technology	203	32,457	764	0	220	193	3,055	235	6	0	27,984	0
San Jose State U.	204	31,780	0	7,151	2,763	279	2,663	15,762	119	0	1,672	1,371
Portland State U.	205	31,731	1,645	1,972	11,180	1,477	1,285	1,456	1,834	53	4,290	6,539
SUNY, Binghamton U.	206	31,601	1,583	206	3,338	191	6,688	5,027	725	0	11,658	2,185
U. North Carolina, Greensboro	207	31,581	626	31	9,380	417	4,306	2,473	486	0	0	13,862
Brigham Young U., Provo	208	31,216	2,199	420	7,708	796	4,348	49	221	0	14,299	1,176
Old Dominion U.	209	31,104	1,538	2,642	3,802	759	5,894	1,119	897	0	11,962	2,491
Van Andel Research Institute	210	30,934	0	0	30,934	0	0	0	0	0	0	0
East Carolina U.	211	30,851	910	3,778	19,510	77	1,260	987	819	0	1,796	1,714
Morgan State U.	212	30,451	744	8,288	6,697	344	3,173	236	319	0	5,962	4,688
SUNY, Upstate Medical U.	213	30,069	0	0	30,069	0	0	0	0	0	0	0
U. North Texas, Denton	214	30,017	3,937	0	3,941	533	3,162	1,590	275	0	13,452	3,127
Mercer U.	215	29,944	6	0	2,494	0	18	0	54	0	26,989	383
Loyola U., Chicago	216	29,712	806	0	25,750	25	1,188	864	413	0	0	666
South Dakota State U.	217	28,897	11	936	19,940	582	2,403	259	418	0	3,850	498
U. South Alabama	218	28,637	580	7,899	10,461	494	816	1,153	385	0	5,784	1,065
U. California, Merced	219	28,576	860	1,956	6,785	793	4,779	0	716	2,755	7,349	2,583
SUNY, Downstate Health Sciences U.	220	28,543	0	0	28,543	0	0	0	0	0	0	0
U. Missouri, Kansas City	221	28,115	416	281	12,599	0	800	254	38	0	12,734	993
Illinois Institute of Technology	222	28,027	3,298	94	10,433	391	2,552	0	7	152	11,065	35
U. Massachusetts, Boston	223	27,098	745	1,208	7,370	284	1,925	2,665	2,851	0	705	9,345
U. Memphis	224	26,913	4,575	2,220	4,058	375	1,096	1,154	3,198	345	5,852	4,040
U. Wisconsin-Milwaukee	225	25,612	112	2,777	6,168	132	6,420	3,926	1,033	0	3,322	1,722
U. Texas Rio Grande Valley	226	25,068	257	1,196	11,747	1,279	2,169	131	176	63	6,988	1,062
Delaware State U.	227	24,167	1,071	590	14,808	803	4,727	352	412	1,035	176	193
Embry-Riddle Aeronautical U.	228	23,733	1,663	1,308	460	609	6,290	0	81	0	12,190	1,132
CUNY, Hunter C.	229	22,124	1,608	365	6,882	198	4,500	6,538	655	0	0	1,378
U. Nebraska, Omaha	230	22,096	4,351	52	5,350	513	446	139	1,427	8,317	1,021	480

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Ohio U.	231	21,919	123	1,704	8,024	0	4,116	2,128	492	0	4,985	347
Desert Research Institute	232	20,061	0	20,061	0	0	0	0	0	0	0	0
Marquette U.	233	20,055	874	0	9,372	411	1,259	169	0	0	7,361	609
Southern Methodist U.	234	19,986	398	4,268	1,378	1,339	2,774	1,611	809	803	2,612	3,994
Marshall U.	235	19,797	269	320	13,321	17	1,229	0	43	0	3,993	605
U.S. Military Academy	236	19,390	3,770	138	120	2,059	408	109	5,331	0	7,214	241
California State U., Northridge	237	19,169	269	1,670	5,783	371	7,252	440	494	242	1,911	737
U. of the Virgin Islands	238	19,127	267	8,544	7,183	679	1,130	0	534	0	790	0
Wright State U.	239	19,081	5,015	138	8,346	32	582	1,236	0	17	3,694	21
U. Guam	240	18,992	0	7,610	10,272	155	266	0	116	0	0	573
Louisiana State U., Health Sciences Center, Shreveport	241	18,742	0	0	18,742	0	0	0	0	0	0	0
Rowan U.	242	18,454	63	253	4,575	464	2,031	806	292	139	9,769	62
Meharry Medical C.	243	18,398	508	0	17,890	0	0	0	0	0	0	0
Kent State U.	244	17,959	1,108	520	5,229	135	4,710	2,294	993	478	574	1,918
U. West Florida	245	17,954	5,663	0	857	0	904	0	87	0	647	9,796
Eastern Virginia Medical School	246	17,947	0	0	17,947	0	0	0	0	0	0	0
CUNY, Queens C.	247	17,811	223	342	12,748	189	1,455	1,665	786	0	0	403
Texas A&M U.-Corpus Christi	248	17,742	381	7,728	2,755	78	1,297	0	893	762	1,905	1,943
American U.	249	17,462	92	539	345	514	3,433	209	3,759	1,728	0	6,843
Southern Illinois U., Carbondale	250	17,209	89	1,264	12,717	24	1,263	59	314	432	865	182
U. Colorado Denver	251	17,181	554	887	3,659	1,533	1,809	673	288	16	3,868	3,894
Baylor U.	252	17,147	642	985	4,988	643	4,451	1,124	1,194	0	2,815	305
San Francisco State U.	253	16,507	1,061	1,102	9,597	259	1,151	222	1,034	1,187	613	281
Jackson State U.	254	16,443	271	0	5,512	91	6,754	107	370	160	2,669	509
Rutgers, State U. New Jersey, Newark	255	16,315	996	1,983	7,908	0	2,839	417	952	0	0	1,220
U. Puerto Rico, Rio Piedras	256	16,053	467	2,289	2,477	124	4,606	76	78	3,200	2,580	156
Tuskegee U.	257	16,023	923	0	9,529	616	2,135	0	5	472	2,326	17
Tennessee State U.	258	15,983	340	0	11,384	0	369	129	0	0	2,781	980
U. Maryland Center for Environmental Science	259	15,378	0	7,975	6,056	0	132	0	318	150	0	747
North Carolina Central U.	260	15,188	0	205	6,771	0	5,092	0	233	70	1,545	1,272
California Polytechnic State U., San Luis Obispo	261	14,810	178	1,038	3,644	2,359	1,523	0	164	0	4,584	1,320
Texas Tech U., Health Sciences Center	262	14,732	0	0	14,679	0	0	0	0	0	0	53
South Dakota School of Mines and Technology	263	14,640	257	0	0	95	3,214	0	0	0	11,074	0

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Albany Medical C.	264	14,193	0	0	14,193	0	0	0	0	0	0	0
U. Hawaii, system office	265	14,150	574	13,576	0	0	0	0	0	0	0	0
U. South Dakota	266	14,101	226	0	9,622	0	2,467	859	34	0	653	240
California State U., Long Beach	267	13,758	165	406	5,512	265	2,589	1,845	662	0	1,897	417
U. Massachusetts, Dartmouth	268	13,742	1,102	6,699	213	975	520	0	91	0	3,203	939
Illinois State U.	269	13,612	259	504	4,438	197	1,711	0	0	0	0	6,503
CUNY, Graduate School of Public Health and Health Policy	270	13,413	0	0	12,638	0	0	775	0	0	0	0
Charles R. Drew U. of Medicine and Science	271	13,297	0	0	13,297	0	0	0	0	0	0	0
Missouri State U.	272	12,973	0	179	892	0	81	57	84	0	11,680	0
Xavier U. Louisiana	273	12,833	539	0	4,457	0	7,608	0	91	0	135	3
Creighton U.	274	12,681	728	0	9,821	191	1,302	178	226	0	0	235
U. Alaska, Anchorage	275	12,646	62	1,966	6,850	0	310	0	814	1,215	885	544
Western Michigan U. and Homer Stryker M.D. School of Medicine	276	12,631	83	800	2,126	10	945	209	106	73	4,884	3,395
U. Texas Health Science Center, Tyler	277	12,555	0	0	12,555	0	0	0	0	0	0	0
Loma Linda U.	278	12,485	0	0	11,245	0	0	1,240	0	0	0	0
Prairie View A&M U.	279	12,354	538	2	5,935	40	1,287	0	368	0	3,799	385
U. Puerto Rico, Mayaguez	280	12,260	296	1,913	366	0	1,857	0	172	0	6,545	1,111
Alabama A&M U.	281	12,197	479	0	7,171	101	978	258	290	0	2,462	458
CUNY, Advanced Science Research Center	282	11,916	0	267	3,954	0	6,092	0	0	0	1,603	0
Teachers C., Columbia U.	283	11,871	1,788	0	1,843	0	0	546	7,694	0	0	0
Nova Southeastern U.	284	11,637	454	4,795	6,019	0	0	319	0	0	0	50
Florida Institute of Technology	285	11,520	2,930	2,014	1,320	120	1,343	427	0	0	3,306	60
California State U., Sacramento	286	11,284	145	747	451	26	419	98	1,032	282	7,114	970
Alcorn State U.	287	10,996	0	0	6,967	0	0	0	2,996	0	1,033	0
Texas Southern U.	288	10,969	91	0	7,314	120	1,673	661	0	0	69	1,041
Northern Illinois U.	289	10,849	812	1,058	669	78	4,986	513	43	0	2,193	497
East Tennessee State U.	290	10,776	0	0	10,118	19	397	42	0	2	0	198
Miami U.	291	10,724	318	568	2,817	70	3,444	1,070	252	0	798	1,387
U. Akron	292	10,709	80	162	699	58	4,844	33	0	0	4,733	100
Clarkson U.	293	10,611	749	70	1,048	261	1,653	0	55	0	6,413	362
U.S. Naval Academy	294	10,260	968	438	0	1,016	1,959	0	91	0	5,788	0
U. Maryland, Eastern Shore	295	10,201	0	3,188	6,935	0	15	0	0	0	63	0
Chapman U.	296	10,015	82	186	6,276	0	1,511	853	439	0	228	440

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Tennessee Technological U.	297	9,975	2,063	31	2,784	0	467	84	27	0	4,141	378
Florida Gulf Coast U.	298	9,858	0	1,245	1,573	2	177	10	23	0	26	6,802
California State U., San Marcos	299	9,845	609	83	1,265	52	976	744	14	4,469	904	729
Oakland U.	300	9,600	843	0	4,949	63	2,411	289	0	0	1,017	28
Central Michigan U.	301	9,591	0	647	6,079	16	1,960	70	121	489	187	22
Montana Technological U.	302	9,585	0	4,011	492	0	31	0	0	0	5,051	0
Texas A&M U.-Kingsville	303	9,584	784	0	3,823	0	119	55	24	0	3,690	1,089
Hampton U.	304	9,445	409	1,880	1,745	490	3,898	0	139	0	837	47
SUNY, C. of Environmental Science and Forestry	305	9,231	236	518	6,481	0	645	26	61	0	1,013	251
Idaho State U.	306	9,230	669	1,467	3,549	38	482	24	98	0	2,640	263
California State U., Los Angeles	307	8,973	499	236	1,200	10	3,807	15	313	0	2,149	744
Northeast Ohio Medical U.	308	8,873	0	115	8,412	0	0	0	278	59	0	9
Villanova U.	309	8,741	59	528	2,002	107	1,634	294	0	0	3,147	970
U. Tulsa	310	8,545	4,400	54	438	0	433	131	194	0	2,462	433
California State U., East Bay	311	8,508	0	202	1,066	0	683	0	150	0	0	6,407
New York Medical C.	312	8,226	0	0	8,226	0	0	0	0	0	0	0
Bowling Green State U.	313	8,208	153	1,781	1,432	39	1,173	0	1,082	0	114	2,434
California State Polytechnic U., Pomona	314	8,162	397	0	2,551	106	1,329	19	82	50	1,213	2,415
Louisiana Tech U.	315	8,118	433	0	1,598	301	528	121	31	0	4,122	984
U. North Carolina, Wilmington	316	8,116	144	1,389	3,465	32	1,178	208	1,107	0	265	328
U. North Florida	317	8,113	453	9	879	0	630	1,324	197	0	208	4,413
Winston-Salem State U.	318	7,901	372	0	2,814	43	551	195	20	0	0	3,906
Clark Atlanta U.	319	7,687	60	0	3,531	827	2,956	0	0	0	114	199
Texas Christian U.	320	7,627	83	346	567	42	776	232	0	5,239	59	283
California State U., San Bernardino	321	7,606	1,189	210	453	188	2,947	1,351	36	0	0	1,232
Kentucky State U.	322	7,605	0	0	7,605	0	0	0	0	0	0	0
U. Arkansas, Little Rock	323	7,544	2,586	0	1,707	0	423	0	19	0	1,805	1,004
U. Minnesota, Duluth	324	7,533	172	427	5,495	92	376	451	165	0	331	24
Fort Valley State U.	325	7,505	0	70	7,300	17	118	0	0	0	0	0
CUNY, John Jay C. of Criminal Justice	326	7,452	0	0	180	335	651	2,282	1,911	34	0	2,059
U. of the District of Columbia	327	7,367	351	146	66	227	0	284	0	145	3,314	2,834
Virginia State U.	328	7,166	0	45	4,480	36	144	323	16	0	1,249	873
Pacific U.	329	7,133	0	0	3,274	0	34	67	86	0	0	3,672

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Rosalind Franklin U. of Medicine and Science	330	7,124	0	0	6,687	0	0	437	0	0	0	0
Western Washington U.	331	6,598	90	1,396	386	342	2,021	76	224	825	421	817
Duquesne U.	332	6,555	0	54	5,247	50	494	0	84	0	52	574
Ball State U.	333	6,355	18	0	4,559	44	857	215	178	0	0	484
MGH Institute of Health Professions	334	6,200	0	0	6,200	0	0	0	0	0	0	0
Western U. of Health Sciences	335	6,099	0	0	4,076	0	0	0	0	0	0	2,023
U. Hawaii, Hilo	336	6,068	286	1,796	3,217	0	180	0	328	261	0	0
California State U., Fullerton	337	6,049	320	402	2,906	157	989	176	271	149	622	57
U.S. Army War C.	338	6,035	0	0	0	0	0	0	6,035	0	0	0
U. Tennessee, Chattanooga	339	6,003	580	0	685	360	113	0	7	1,070	3,049	139
Wesleyan U.	340	5,955	0	547	1,360	411	1,567	963	20	0	0	1,087
Montclair State U.	341	5,916	316	537	962	456	956	318	595	0	360	1,416
Kennesaw State U.	342	5,908	511	0	1,694	675	234	15	350	0	776	1,653
Naval War C.	343	5,819	0	0	0	0	0	0	800	0	0	5,019
Morehouse C.	344	5,750	641	0	400	0	2,813	46	0	1,471	0	379
California State U., Monterey Bay	345	5,639	609	1,166	3,223	190	333	0	31	0	0	87
DePaul U.	346	5,592	768	456	3,041	136	0	0	194	0	106	891
Central State U.	347	5,523	0	163	4,670	59	352	0	0	124	155	0
Gallaudet U.	347	5,523	1,746	0	1,815	40	184	160	981	0	0	597
CUNY, Brooklyn C.	349	5,518	163	79	932	71	2,491	1,655	45	0	0	82
Tarleton State U.	350	5,478	0	92	4,375	0	0	37	19	954	0	1
Langston U.	351	5,473	0	0	4,823	21	94	429	0	0	0	106
South Carolina State U.	352	5,330	565	278	3,036	0	541	0	184	0	549	177
U. New Orleans	353	5,283	1,614	582	170	290	825	0	559	105	640	498
U. Colorado Colorado Springs	354	5,205	2,367	190	343	67	240	243	148	0	762	845
Salisbury U.	355	5,049	230	131	195	0	102	0	0	0	0	4,391
C. Charleston	356	5,036	356	1,978	1,301	0	514	0	85	0	524	278
California State U., Fresno	357	4,864	193	193	1,581	514	1,180	144	107	0	728	224
U. New England	358	4,777	0	217	4,560	0	0	0	0	0	0	0
Oklahoma State U., Center for Health Sciences	359	4,773	0	0	2,295	0	0	2,478	0	0	0	0
Southern U. and A&M C., Agricultural Research and Extension Center	360	4,688	0	0	4,688	0	0	0	0	0	0	0
Fordham U.	361	4,687	54	0	718	10	212	2,377	0	0	0	1,316
Providence C.	362	4,648	0	243	1,071	0	248	105	41	0	0	2,940

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Lincoln U., Jefferson City	363	4,610	0	278	3,978	0	0	0	19	335	0	0
Northwest Indian C.	364	4,595	i	64	539	0	0	0	0	0	243	3,749
U. Missouri, Saint Louis	365	4,569	63	0	2,901	120	504	303	366	0	0	312
Spelman C.	366	4,567	69	336	869	1,112	774	941	312	0	0	154
CUNY, Lehman C.	367	4,487	396	19	614	167	2,603	95	427	0	0	166
Southern U. and A&M C., Baton Rouge	368	4,444	401	0	1,199	100	395	0	10	0	2,272	67
U. Detroit Mercy	369	4,434	6	0	3,454	0	18	7	0	0	804	145
Norfolk State U.	370	4,381	172	0	54	123	1,051	0	0	0	1,845	1,136
Pennsylvania State U., Behrend	371	4,378	0	443	1,853	0	350	148	0	0	1,365	219
U. Baltimore	372	4,250	335	0	0	0	14	75	747	0	0	3,079
Barnard C.	373	4,235	135	209	1,315	0	1,485	1,028	39	0	0	24
U. Arkansas, Pine Bluff	374	4,204	0	0	3,069	0	716	0	0	0	0	419
U. Washington, Tacoma	375	3,875	117	2,207	463	182	0	0	100	0	231	575
Middle Tennessee State U.	376	3,822	313	127	1,372	221	833	68	223	0	141	524
Fisk U.	377	3,819	942	0	946	52	1,879	0	0	0	0	0
U. Washington, Bothell	378	3,787	310	267	789	75	808	0	112	0	343	1,083
Chicago State U.	379	3,756	8	0	1,984	0	1,534	0	230	0	0	0
Towson U.	380	3,653	1,168	506	841	231	386	192	53	36	0	240
Hope C.	381	3,639	0	5	2,076	3	601	0	0	0	412	542
Southern Illinois U., Edwardsville	382	3,621	0	316	1,219	0	635	0	212	8	273	958
Georgia Southern U.	383	3,562	3	388	773	86	340	0	645	3	978	346
U. Wisconsin-Superior	384	3,559	0	3,532	4	0	23	0	0	0	0	0
California State U., Bakersfield	385	3,525	0	117	375	969	98	10	10	0	388	1,558
U. San Diego	386	3,501	0	43	101	1,886	680	0	64	0	343	384
Appalachian State U.	387	3,497	410	429	1,641	29	497	59	112	0	0	320
Sonoma State U.	388	3,483	0	1,719	410	719	1	57	0	54	43	480
James Madison U.	389	3,475	39	168	1,479	81	1,367	0	0	0	209	132
U. Michigan, Dearborn	390	3,464	0	0	248	304	169	0	0	112	2,599	32
Santa Clara U.	391	3,448	0	0	432	8	509	41	41	0	1,849	568
New Mexico Highlands U.	392	3,416	1,095	151	1,765	242	12	151	0	0	0	0
Purdue U., Northwest	393	3,409	458	0	155	0	175	0	0	48	2,023	550
Western Kentucky U.	394	3,401	0	226	1,688	0	820	393	81	0	109	84
U. North Carolina, Asheville	395	3,323	278	100	1,520	0	864	0	0	0	2	559

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Sam Houston State U.	396	3,307	64	75	844	455	387	0	986	0	80	416
CUNY, C. Staten Island	397	3,296	102	0	1,069	65	1,114	660	0	0	286	0
Citadel Military C. South Carolina	398	3,287	2,407	35	32	0	36	15	0	0	416	346
Western Illinois U.	399	3,283	0	0	2,284	0	106	0	176	0	717	0
California State Polytechnic U., Humboldt	400	3,280	8	78	1,758	0	54	0	995	0	6	381
New York Institute of Technology	401	3,252	108	0	2,212	0	190	0	0	0	742	0
California State U., Chico	402	3,152	0	424	910	0	230	0	81	0	990	517
U. of Health Sciences and Pharmacy in St. Louis	403	3,110	0	0	3,107	0	3	0	0	0	0	0
Arkansas State U., Jonesboro	404	3,083	31	0	2,237	0	221	30	83	0	481	0
Troy U.	405	3,069	0	18	283	0	2,525	0	0	0	47	196
Pennsylvania State U., Harrisburg	406	3,045	13	39	1,578	15	91	33	25	0	126	1,125
Rutgers, State U. New Jersey, Camden	407	3,042	2,682	0	0	0	2	0	358	0	0	0
Smith C.	408	3,013	447	47	1,044	342	359	293	0	12	421	48
Colby C.	409	3,011	13	85	2,233	88	294	15	201	0	0	82
U. Northern Iowa	410	2,975	0	0	249	4	831	0	1,763	13	0	115
Occidental C.	411	2,967	354	645	464	122	660	445	197	0	0	80
U. Central del Caribe	412	2,929	0	0	2,929	0	0	0	0	0	0	0
Loyola Marymount U.	413	2,921	52	8	317	0	124	724	352	0	0	1,344
Wellesley C.	413	2,921	137	212	848	292	764	170	397	0	50	51
CUNY, system office	415	2,901	0	0	45	0	0	0	0	1,683	0	1,173
Amherst C.	416	2,869	104	353	826	815	755	0	16	0	0	0
Midwestern U.	417	2,862	0	0	2,862	0	0	0	0	0	0	0
Alabama State U.	418	2,848	255	0	2,579	0	0	0	0	0	14	0
Fort Lewis C.	419	2,816	0	2	981	0	693	0	0	0	569	571
Carleton C.	420	2,800	117	1,627	127	79	358	304	177	0	1	10
West Virginia State U.	420	2,800	0	0	2,777	23	0	0	0	0	0	0
CUNY, Graduate Center	422	2,792	0	15	0	6	659	145	661	301	206	799
St. John's U., New York	422	2,792	163	0	1,853	0	280	448	0	0	0	48
Seton Hall U.	424	2,778	0	0	1,750	0	939	0	0	0	0	89
Pace U.	425	2,698	913	0	108	0	16	108	0	0	649	904
Youngstown State U.	426	2,691	70	0	149	98	73	48	45	0	2,208	0
Saint Joseph's U.	427	2,680	266	0	1,307	4	422	30	167	0	0	484
Tougaloo C.	428	2,643	104	0	1,366	103	608	125	68	0	0	269

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Southern Maine	429	2,598	31	148	129	29	0	0	2,164	0	97	0
Middlebury C.	430	2,564	219	581	801	35	569	125	206	0	0	28
Eastern Michigan U.	431	2,521	0	92	1,632	131	338	0	39	0	83	206
Saginaw Valley State U.	432	2,503	i 272	i 0	i 1,620	i 0	i 0	i 0	i 183	i 0	i 0	i 428
Central Washington U.	433	2,499	363	1,597	28	178	251	0	38	0	39	5
CUNY, New York City C. of Technology	434	2,498	211	0	162	151	543	0	0	0	782	649
National Defense U.	435	2,494	143	0	400	0	0	0	1,951	0	0	0
Bowie State U.	436	2,469	892	0	1,002	14	0	0	69	0	0	492
SUNY, C. of Optometry	436	2,469	0	0	2,469	0	0	0	0	0	0	0
California State U., Dominguez Hills	438	2,457	307	0	263	1	892	534	250	0	0	210
Texas Woman's U.	439	2,439	43	0	1,787	0	1	349	50	10	0	199
Dakota State U.	440	2,437	2,356	0	81	0	0	0	0	0	0	0
Reed C.	441	2,420	i 95	i 0	i 1,250	i 94	i 557	i 115	i 62	i 0	i 0	i 247
Texas Tech U., Health Sciences Center, El Paso	442	2,415	0	0	1,757	0	0	0	0	0	0	658
Northern Kentucky U.	443	2,413	13	0	1,445	97	255	467	0	0	0	136
Bucknell U.	444	2,359	109	0	948	135	462	0	0	3	656	46
Winthrop U.	445	2,358	97	0	150	0	264	0	0	0	0	1,847
Haverford C.	446	2,344	85	9	862	77	1,024	272	15	0	0	0
Keck Graduate Institute	447	2,338	0	0	2,211	0	0	0	0	0	127	0
Swarthmore C.	448	2,315	69	0	1,180	206	600	50	107	0	1	102
Northeastern Illinois U.	449	2,262	481	44	1,271	0	0	0	11	0	0	455
Lamar U.	450	2,259	217	0	232	0	244	0	10	0	1,363	193
Dine C.	451	2,255	0	0	2,131	0	0	0	0	0	93	31
Clark U.	452	2,235	30	470	724	0	579	0	432	0	0	0
U. New Haven	453	2,227	949	62	250	0	113	231	599	0	23	0
Trinity U.	454	2,203	4	164	398	48	721	527	161	0	81	99
Bowdoin C.	455	2,186	53	397	899	92	447	42	8	0	0	248
U. Ana G. Mendez, Gurabo	456	2,132	0	0	0	0	0	0	0	0	0	2,132
Toyota Technological Institute, Chicago	457	2,127	2,127	0	0	0	0	0	0	0	0	0
West Texas A&M U.	458	2,118	263	322	517	0	183	0	0	0	458	375
U. Wisconsin-Stevens Point	459	2,079	0	153	1,763	0	102	0	0	0	61	0
U. Central Oklahoma	460	2,071	i 141	i 0	i 840	i 60	i 222	i 58	i 93	i 0	i 434	i 223
Murray State U.	461	2,058	0	486	998	164	410	0	0	0	0	0

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Christopher Newport U.	462	2,055	0	0	122	154	1,220	16	0	0	541	2
Hofstra U.	463	1,995	1	188	638	216	24	34	0	0	376	518
Long Island U.	464	1,993	36	0	1,678	0	201	10	0	0	0	68
Roger Williams U.	465	1,973	0	687	557	0	131	30	0	0	117	451
Harvey Mudd C.	466	1,968	476	0	417	251	358	0	0	72	394	0
Texas A&M International U.	467	1,966	0	50	333	150	279	0	520	393	106	135
Alfred U.	468	1,958	0	1	0	0	8	40	0	0	1,909	0
New England C. of Optometry	469	1,946	0	0	1,946	0	0	0	0	0	0	0
Hawaii Pacific U.	470	1,942	140	406	1,393	0	0	0	0	0	0	3
Texas A&M U.-Commerce	471	1,936	176	0	228	108	753	24	0	0	0	647
Black Hills State U.	472	1,918	396	0	1,157	0	113	0	0	0	0	252
CUNY, Baruch C.	473	1,879	0	24	608	582	347	144	0	0	0	174
Kean U.	474	1,870	726	0	251	0	52	12	100	0	0	729
Coastal Carolina U.	475	1,847	207	880	233	0	155	0	1	0	194	177
Fayetteville State U.	475	1,847	257	0	484	0	183	0	62	47	141	673
U. Central Arkansas	477	1,824	128	73	692	7	337	0	0	0	221	366
U. Puerto Rico, Humacao	478	1,822	0	105	117	0	1,600	0	0	0	0	0
Grand Valley State U.	479	1,808	64	697	756	0	253	38	0	0	0	0
Lawrence Technological U.	480	1,786	0	0	0	127	57	0	0	0	545	1,057
California State U., Channel Islands	481	1,773	141	0	507	377	14	0	118	563	0	53
C. New Jersey	482	1,755	211	0	689	65	455	0	131	0	193	11
U. Nebraska, Kearney	483	1,739	0	0	1,240	0	340	0	0	0	0	159
Morehead State U.	484	1,718	0	0	326	0	0	0	0	0	1,392	0
Nevada State C.	485	1,711	0	26	995	0	0	286	0	0	0	404
U. Northern Colorado	486	1,705	0	347	496	66	54	17	361	0	0	364
Indiana U. Pennsylvania	487	1,702	244	123	1,088	0	171	17	59	0	0	0
Albany State U.	488	1,681	57	0	158	60	108	0	162	188	936	12
Savannah State U.	489	1,675	0	522	305	0	85	0	56	205	502	0
Utah Valley U.	490	1,671	115	96	237	159	471	0	0	152	435	6
Benedict C.	491	1,665	167	0	354	187	142	0	0	0	815	0
U. Louisiana, Monroe	492	1,655	0	127	1,200	0	163	0	165	0	0	0
U. Texas, Tyler	493	1,652	25	75	913	87	75	48	23	0	304	102
SUNY, Buffalo State U.	494	1,615	53	1,220	39	192	47	18	13	0	0	33

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Mount Holyoke C.	495	1,612	113	53	601	173	256	198	218	0	0	0
Western Carolina U.	496	1,600	0	342	534	72	55	0	111	0	65	421
Pittsburg State U.	497	1,591	0	0	415	0	39	0	49	0	1,088	0
Sul Ross State U.	498	1,568	0	0	371	0	12	0	0	0	0	1,185
Johnson C. Smith U.	499	1,554	43	308	98	0	0	0	0	0	0	1,105
Virginia Military Institute	500	1,534	1,422	0	0	0	50	0	0	0	62	0
Colgate U.	501	1,521	75	658	273	74	389	33	19	0	0	0
CUNY, York C.	502	1,504	0	479	366	351	172	91	0	0	0	45
Palmer C. of Chiropractic, Davenport	503	1,500	0	0	1,500	0	0	0	0	0	0	0
U. Houston-Downtown	504	1,495	352	0	199	10	64	41	0	0	79	750
Lake Superior State U.	505	1,475	0	0	1,443	0	7	0	0	0	25	0
Franklin and Marshall C.	506	1,469	0	1	572	51	529	100	216	0	0	0
U. Alaska, Southeast	507	1,463	0	298	490	0	28	0	0	527	21	99
Bates C.	508	1,455	0	83	1,241	0	94	36	1	0	0	0
Williams C.	508	1,455	i 53	i 110	i 695	i 53	i 309	i 64	i 34	i 0	i 0	i 137
Southern Connecticut State U.	510	1,433	9	54	481	0	548	100	0	0	0	241
Ferris State U.	511	1,430	0	0	1,044	252	134	0	0	0	0	0
Claremont Graduate U.	512	1,422	0	0	25	253	0	3	336	0	0	805
Clafin U.	513	1,418	306	53	562	0	340	0	94	0	63	0
Austin Peay State U.	514	1,401	0	115	1,112	0	94	0	72	0	8	0
West Chester U. Pennsylvania	515	1,386	0	1	388	0	620	316	13	0	0	48
U. Richmond	516	1,379	0	85	729	5	392	83	14	0	0	71
Oregon Institute of Technology	517	1,375	i 109	i 129	i 671	i 49	i 0	i 29	i 0	i 0	i 388	i 0
Norwich U.	518	1,366	0	51	291	170	196	350	0	196	112	0
Southeastern Louisiana U.	518	1,366	225	0	736	0	242	0	2	0	49	112
Davidson C.	520	1,340	85	0	338	0	329	441	136	0	0	11
New School	521	1,337	0	239	0	0	0	910	60	0	81	47
United Tribes Technical C.	521	1,337	61	0	666	0	0	0	0	0	410	200
U. Oklahoma, Tulsa	523	1,328	0	0	287	0	0	0	23	0	339	679
Furman U.	524	1,300	0	77	226	0	836	161	0	0	0	0
U. of the Pacific	524	1,300	0	221	970	0	88	0	0	0	21	0
U. Puget Sound	524	1,300	0	63	1,124	0	86	0	27	0	0	0
SUNY, Geneseo	527	1,292	0	47	196	0	955	78	0	0	0	16

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Bryn Mawr C.	528	1,289	80	40	603	72	432	0	62	0	0	0
Skidmore C.	529	1,288	0	16	568	9	367	182	91	0	0	55
Touro U., California	530	1,279	0	0	1,279	0	0	0	0	0	0	0
U. Houston-Clear Lake	531	1,273	52	0	720	0	178	103	49	5	100	66
U. Hartford	532	1,269	4	0	53	48	17	24	137	0	986	0
Albany C. of Pharmacy and Health Sciences	533	1,256	i 0 i	0 i	1,256 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
U. Wisconsin-Oshkosh	534	1,249	0	2	531	0	117	0	54	0	142	403
Erikson Institute	535	1,245	0	0	0	0	0	0	0	0	0	1,245
U. Hawaii, Maui C.	536	1,234	154	214	510	0	61	0	0	0	0	295
Texas A&M U.-San Antonio	537	1,233	107	38	360	27	0	83	46	0	0	572
Yeshiva U.	538	1,229	0	0	810	0	419	0	0	0	0	0
Dillard U.	539	1,228	0	33	717	14	163	0	1	35	85	180
U. Wisconsin-Green Bay	540	1,222	46 i	67 i	680 i	9 i	94 i	23 i	28 i	0 i	232 i	43 i
Pomona C.	541	1,205	68	66	170	362	523	0	16	0	0	0
Vassar C.	542	1,204	26	183	344	157	259	232	3	0	0	0
Florida Polytechnic U.	543	1,172	401	0	0	0	0	0	0	0	530	241
Seattle U.	544	1,165	54	10	395	42	198	0	34	0	85	347
California State U., Stanislaus	545	1,150	122	0	388	271	171	119	79	0	0	0
Lafayette C.	546	1,141	99	57	96	105	352	29	0	0	403	0
SUNY, C. Plattsburgh	547	1,121	0	634	217	0	270	0	0	0	0	0
Stephen F. Austin State U.	548	1,098	0	10	722	337	0	1	12	16	0	0
Macalester C.	549	1,094	41	206	163	62	547	0	25	0	0	50
Elizabeth City State U.	550	1,093	58	0	495	0	0	3	0	0	0	537
Kenyon C.	551	1,092	0	0	605	49	438	0	0	0	0	0
U. of the Incarnate Word	552	1,086	10	6	535	0	300	0	0	0	235	0
Grinnell C.	553	1,082	129	0	509	0	412	0	18	0	0	14
Butler U.	554	1,077	0	0	739	0	317	11	10	0	0	0
La Sierra U.	555	1,066	i 0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	1,066 i
U. Illinois, Springfield	556	1,057	0	0	3	0	0	49	388	0	0	617
Claremont McKenna C.	557	1,035	166	4	239	138	191	297	0	0	0	0
U. Wisconsin-Eau Claire	558	1,027	0	143	23	22	585	239	15	0	0	0
Hobart and William Smith Colleges	559	1,019	0	270	558	0	172	0	0	19	0	0
Eastern Washington U.	560	1,015	0	37	451	0	75	0	381	0	71	0

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. San Francisco	560	1,015	88	227	612	0	15	0	73	0	0	0
U. Texas of the Permian Basin	562	1,013	0	69	522	0	0	16	102	0	226	78
Indiana State U.	563	980	0	132	282	0	16	0	0	0	34	516
Drake U.	564	954	1	0	104	73	146	0	0	0	0	630
Colorado State U., Pueblo	565	952	123	0	825	0	0	0	4	0	0	0
Abilene Christian U.	566	946	0	0	0	0	836	0	0	0	15	95
Ursinus C.	567	942	12	0	578	120	227	2	3	0	0	0
St. Olaf C.	568	933	109	73	625	8	25	4	32	0	0	57
Marian U., Indianapolis	569	918	0	0	462	3	0	0	0	131	0	322
East Stroudsburg U. Pennsylvania	570	909	0	0	100	0	0	0	0	0	0	809
Minnesota State U., Mankato	571	905	141	138	298	58	33	0	0	0	196	41
SUNY, Oswego	572	894	21	308	87	0	222	133	0	0	123	0
Suffolk U.	573	893	0	73	30	0	0	103	27	0	0	660
Merrimack C.	574	892	0	0	865	16	0	0	0	0	11	0
U. South Carolina, Beaufort	575	889	431	94	87	6	0	0	0	0	134	137
Northland C.	576	880	0	71	568	43	0	62	32	0	0	104
Oberlin C.	576	880	58	19	326	46	377	53	1	0	0	0
U. Scranton	578	866	35	555	138	0	68	0	0	0	0	70
National U. of Natural Medicine	579	862	0	0	862	0	0	0	0	0	0	0
Calvin U.	580	854	9	0	348	40	393	0	0	0	64	0
Northwestern State U. Louisiana	581	822	0	0	14	0	0	0	808	0	0	0
SUNY, C. Brockport	582	813	0	0	605	0	177	0	20	0	0	11
Bentley U.	583	802	8	138	178	0	0	0	30	0	72	376
Eastern Kentucky U.	584	798	0	0	306	0	423	0	0	0	69	0
Rhode Island C.	585	786	98	0	358	0	326	4	0	0	0	0
U. South Carolina, Aiken	586	782	0	107	549	0	0	0	0	0	126	0
Lewis and Clark C.	587	776	0	167	449	21	139	0	0	0	0	0
Arcadia U.	588	772	0	0	18	0	0	0	0	0	0	754
Monmouth U.	589	762	0	527	174	0	31	0	30	0	0	0
U. Puerto Rico, Cayey	590	733	0	0	63	0	194	0	47	429	0	0
SUNY, Cobleskill	591	730	0	0	136	0	0	0	0	0	469	125
Union C., Schenectady	592	729	4	316	0	24	113	0	0	0	272	0
Milwaukee School of Engineering	593	722	75	0	255	0	0	0	0	0	392	0

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Wisconsin-La Crosse	594	714	35	0	315	11	114	0	238	0	0	1
Framingham State U.	595	700	0	0	700	0	0	0	0	0	0	0
St. Cloud State U.	596	689	8	4	63	0	0	0	121	0	0	493
Stockton U.	597	688	0	82	313	0	0	0	293	0	0	0
Trinity C., Hartford	598	687	30	0	319	0	143	172	0	0	2	21
Edward Via C. of Osteopathic Medicine	599	678	0	0	678	0	0	0	0	0	0	0
Pepperdine U.	600	674	0	0	351	0	0	24	27	0	0	272
Robert Morris U.	601	664	130	0	0	0	0	0	0	0	492	42
Connecticut C.	602	648	46	0	257	0	67	131	0	0	0	147
Franklin W. Olin C. of Engineering	603	641	0	0	0	0	0	0	0	0	641	0
Sacred Heart U.	604	639	92	0	120	70	53	8	28	0	0	268
Alaska Pacific U.	605	627	0	539	7	0	0	0	0	0	0	81
Colorado C.	606	611	62	132	141	128	148	0	0	0	0	0
C. Wooster	607	594	0	154	44	56	329	0	0	0	0	11
Northern Michigan U.	608	560	8	77	386	0	0	40	0	0	0	49
Des Moines U.	609	556	0	2	324	0	0	0	195	0	0	35
U. Wisconsin-River Falls	610	551	0	0	176	0	348	0	0	0	27	0
Western New England U.	611	538	76	0	83	35	0	0	0	0	344	0
Southern U., New Orleans	612	536	0	0	536	0	0	0	0	0	0	0
Liberty U.	613	532	369	0	148	0	0	0	0	0	15	0
U. of St. Thomas (MN)	614	531	0	5	99	0	43	0	0	0	367	17
Gettysburg C.	615	517	0	0	39	0	140	0	338	0	0	0
U. Puerto Rico, Ponce	616	510	0	0	382	69	9	0	0	0	0	50
West Virginia School of Osteopathic Medicine	617	500	0	0	500	0	0	0	0	0	0	0
Willamette U.	618	490	0	123	143	0	161	63	0	0	0	0
Elon U.	619	479	0	0	162	23	44	135	17	0	0	98
U. North Georgia	620	477	149	119	24	16	59	0	0	0	0	110
Gustavus Adolphus C.	621	467	0	65	20	0	279	0	0	0	0	103
U. Wisconsin-Platteville	622	465	29	0	191	12	49	7	24	5	106	42
Ithaca C.	623	453	70	0	53	85	206	0	39	0	0	0
Whitman C.	624	449	0	121	83	0	234	0	11	0	0	0
U. Virginia's C. Wise	625	447	213	6	178	0	18	0	32	0	0	0
Andrews U.	626	445	0	0	0	26	377	0	0	0	42	0

TABLE 25
Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Philadelphia C. of Osteopathic Medicine	627	442	0	0	442	0	0	0	0	0	0	0
Bryant U.	628	436	0	7	347	82	0	0	0	0	0	0
Marshall B. Ketchum U.	629	433	0	0	433	0	0	0	0	0	0	0
Lincoln U.	630	430	96	0	232	0	14	0	0	0	0	88
Wheaton C., Wheaton	631	428	0	126	221	0	81	0	0	0	0	0
Manhattan C.	632	422	0	0	0	260	79	0	0	0	83	0
Indiana U., South Bend	633	420	0	0	0	0	232	0	0	91	0	97
Hamilton C.	634	413	33	126	26	0	47	24	153	0	0	4
Canisius U.	635	411	0	0	0	0	108	0	0	303	0	0
U. of Mary Washington	636	406	0	18	78	0	53	0	0	0	0	257
Marymount U.	637	396	247	0	99	0	0	0	0	0	50	0
Central Connecticut State U.	638	393	0	0	7	0	17	0	153	0	108	108
Grambling State U.	639	377	40	16	118	0	0	101	0	0	0	102
St. Edward's U.	640	315	0	68	247	0	0	0	0	0	0	0
Lipscomb U.	641	309	0	0	65	0	0	0	0	0	94	150
Pennsylvania State U., Altoona	642	297	0	0	0	0	0	0	0	0	297	0
U.S. Coast Guard Academy	643	278	50	3	0	0	21	0	204	0	0	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	644	273	0	0	273	0	0	0	0	0	0	0
Albion C.	645	226	0	23	0	0	203	0	0	0	0	0
Purdue U., Fort Wayne	645	226	0	0	55	29	53	54	0	0	17	18
Babson C.	647	224	0	0	2	0	0	0	0	0	0	222
Eastern Connecticut State U.	648	210	4	12	39	2	0	0	13	0	0	140
Heidelberg U.	649	197	0	197	0	0	0	0	0	0	0	0
Fairfield U.	650	180	57	0	0	80	9	0	0	0	34	0
William Paterson U.	651	168	27	82	49	0	1	0	4	0	0	5
St. Mary's C. Maryland	652	152	0	127	0	0	0	0	0	0	13	12
New C. Florida	653	146	45	0	68	33	0	0	0	0	0	0
Azusa Pacific U.	654	140	0	0	7	0	9	107	10	0	7	0
Radford U.	655	109	34	0	70	0	0	0	5	0	0	0
C. of Saint Benedict	656	58	3	0	31	2	13	3	1	0	0	5
Pratt Institute	657	50	0	0	0	0	0	0	0	0	0	50
Roseman U. of Health Sciences	658	38	0	0	38	0	0	0	0	0	0	0

TABLE 25
Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. California, Office of the President	659	25	0	0	25	0	0	0	0	0	0	0
Lincoln Memorial U.	660	2	0	0	2	0	0	0	0	0	0	0

i = imputed.

nec = not elsewhere classified; S&E = science and engineering.

^a Johns Hopkins University includes the Applied Physics Laboratory, with \$2,268,228 thousand in federally financed R&D expenditures in FY 2023.

^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^c The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

Note(s):

Institutions reporting zero federal expenditures for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#). This table includes only institutions reporting \$1 million or more in total R&D expenditures in 2022. Institutions reporting less than \$1 million in total R&D expenditures in 2022 completed a shorter version of the survey form in FY 2023, and that form did not collect federally financed R&D expenditures by source and detailed field. For federally financed R&D expenditures by major field at institutions completing the shorter version of the survey, see [table 85](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 26

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2023

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
All institutions	-	59,603,993	9,047,729	2,671,326	33,097,927	2,295,593	6,699,546	1,700,216	4,091,656
Johns Hopkins U. ^b	1	3,324,551	1,628,821	11,671	919,852	515,047	40,834	3,553	204,773
U. Washington, Seattle	2	1,188,836	126,010	41,413	770,184	22,518	142,970	7,610	78,131
Georgia Institute of Technology	3	1,083,903	811,759	26,089	52,938	17,355	79,048	1,124	95,590
U. California, San Diego	4	1,083,790	126,228	38,680	688,073	16,704	163,266	3,062	47,777
U. Michigan, Ann Arbor	5	1,041,430	79,110	48,259	728,763	31,693	109,808	1,578	42,219
Columbia U. in the City of New York	6	988,670	58,296	25,171	766,707	24,482	105,818	502	7,694
Duke U.	7	974,202	61,598	18,482	833,339	2,223	45,599	998	11,963
Stanford U.	8	943,669	87,775	31,180	712,159	22,178	79,757	1,014	9,606
U. Pennsylvania	9	936,469	53,246	15,424	784,145	2,941	59,837	1,818	19,058
U. Pittsburgh, Pittsburgh	10	916,735	70,896	13,238	777,420	3,546	38,493	518	12,624
U. North Carolina, Chapel Hill	11	907,710	26,942	10,693	729,970	1,887	48,106	2,554	87,558
U. California, Los Angeles	12	878,571	53,640	45,265	652,981	30,978	74,397	1,055	20,255
U. California, San Francisco	13	858,066	41,031	1,296	795,553	606	10,746	370	8,464
U. Maryland ^c	14	825,546	146,036	26,542	382,208	83,337	66,780	30,601	90,042
U. Wisconsin-Madison	15	816,814	44,782	90,201	465,199	16,235	113,712	36,525	50,160
New York U.	16	787,204	21,849	4,386	696,483	1,829	43,877	523	18,257
Pennsylvania State U., University Park and Hershey Medical Center	17	781,303	343,365	44,141	186,358	20,924	84,781	34,662	67,072
Washington U., Saint Louis	18	758,464	25,612	8,503	689,724	10,851	21,715	431	1,628
Vanderbilt U. and Vanderbilt U. Medical Center	19	751,019	35,148	11,932	647,384	3,815	29,839	795	22,106
Yale U.	20	741,198	37,473	10,539	639,636	2,624	39,036	1,146	10,744
Cornell U.	21	705,132	50,537	31,129	423,066	11,790	125,089	44,545	18,976
U. Minnesota, Twin Cities	22	702,483	39,589	28,058	479,309	9,283	81,018	47,660	17,566
Ohio State U.	23	694,647	57,248	32,099	428,792	8,020	68,295	34,371	65,822
U. Southern California	24	683,819	132,806	10,477	456,503	3,560	58,556	93	21,824
Northwestern U.	25	678,062	51,407	33,607	521,988	4,253	56,367	318	10,122
Emory U.	26	664,370	11,443	2,346	630,229	937	12,370	466	6,579
Icahn School of Medicine at Mount Sinai	27	658,916	25,359	66	629,952	460	1,230	96	1,753
Harvard U.	28	639,953	49,624	20,120	490,149	7,992	54,965	385	16,718
U. Texas, Austin	29	621,223	252,267	59,115	128,822	26,172	122,660	428	31,759
Massachusetts Institute of Technology	30	559,766	130,434	89,574	163,137	38,045	117,488	0	21,088
Texas A&M U., College Station and Health Science Center	31	546,481	88,719	47,421	123,004	10,485	142,660	52,842	81,350
U. Colorado Boulder	32	538,715	41,391	34,983	70,737	166,802	119,866	1,640	103,296
U. Florida	33	529,391	49,481	15,711	304,254	14,102	60,602	50,082	35,159
U. California, Berkeley	34	496,298	44,502	51,123	164,520	100,825	101,951	3,722	29,655
U. California, Davis	35	494,847	24,576	21,400	303,877	8,390	46,849	57,989	31,766

TABLE 26

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2023

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
U. Chicago	36	476,689	27,455	19,106	333,843	9,904	75,499	506	10,376
U. Colorado Anschutz Medical Campus	37	474,523	15,486	0	447,861	580	3,343	32	7,221
U. Illinois, Urbana-Champaign	38	460,491	59,094	95,415	95,343	12,335	137,092	27,860	33,352
U. Alabama, Birmingham	39	451,880	13,923	1,949	417,750	4,278	7,969	166	5,845
Baylor C. of Medicine	40	440,345	17,986	0	377,953	15,272	5,527	16,990	6,617
Michigan State U.	41	435,564	15,763	156,742	118,142	4,094	61,082	37,842	41,899
U. Arizona	42	434,700	35,142	10,952	219,085	70,176	57,350	17,750	24,245
Indiana U., Bloomington	43	432,223	26,468	6,277	331,669	977	50,384	601	15,847
Case Western Reserve U.	44	431,736	15,146	9,990	388,194	3,836	10,356	1,083	3,131
U. Utah	45	416,079	23,494	54,890	277,075	4,649	51,343	764	3,864
Boston U.	46	409,551	20,847	8,055	319,715	11,762	33,870	453	14,849
Uniformed Services U. of the Health Sciences	47	403,671	396,092	0	7,579	0	0	0	0
Rutgers, State U. New Jersey, New Brunswick	48	400,930	19,246	9,245	270,149	4,150	47,501	20,615	30,024
U. Cincinnati	49	391,943	16,982	4,401	346,063	745	14,900	21	8,831
Purdue U., West Lafayette	50	385,738	86,728	35,887	83,845	15,323	84,597	33,628	45,730
Oregon Health and Science U.	51	374,043	11,688	118	359,424	74	1,537	0	1,202
U. Rochester	52	368,190	14,305	106,915	221,412	1,766	21,335	0	2,457
U. Virginia, Charlottesville	53	354,748	34,976	13,314	233,253	4,779	41,133	1,075	26,218
Colorado State U., Fort Collins	54	354,401	106,769	21,728	66,714	12,578	37,561	53,462	55,589
Arizona State U.	55	340,880	46,290	23,210	88,827	43,106	87,368	3,609	48,470
U. Texas Southwestern Medical Center	56	336,126	13,067	212	317,632	1,717	2,091	151	1,256
U. California, Irvine	57	335,393	18,949	21,818	221,676	5,564	53,841	149	13,396
U. Iowa	58	331,824	16,153	4,514	232,801	49,232	12,035	1,252	15,837
Utah State U.	59	322,336	170,044	4,134	10,845	37,647	16,532	11,413	71,721
California Institute of Technology	60	310,519	30,414	23,660	81,652	72,312	96,199	2	6,280
U. Miami	61	291,783	28,129	1,772	210,961	4,350	13,748	322	32,501
Virginia Polytechnic Institute and State U.	62	282,152	71,734	19,297	61,996	8,028	58,394	26,449	36,254
U. Nebraska, Lincoln and Medical Center ^d	63	280,120	42,877	12,226	138,888	805	38,292	29,004	18,028
Carnegie Mellon U.	64	279,954	121,019	16,363	47,817	5,753	73,377	2,392	13,233
North Carolina State U.	65	279,179	33,966	29,033	52,326	2,743	66,411	58,599	36,101
Scripps Research Institute	66	278,099	4,693	388	269,196	1,084	2,301	0	437
U. Illinois, Chicago	67	274,424	17,074	12,844	205,543	448	27,352	79	11,084
U. Kentucky	68	265,543	14,714	10,455	191,087	2,597	20,442	16,487	9,761
U. Texas M. D. Anderson Cancer Center	69	259,285	17,584	0	239,726	267	988	3	717
SUNY, U. Buffalo	70	257,857	62,081	9,551	137,564	1,728	33,542	702	12,689
U. South Florida	71	242,224	18,617	2,748	139,899	2,697	16,541	82	61,640

TABLE 26

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2023

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
Brown U.	72	239,744	19,737	7,733	165,621	5,747	34,145	195	6,566
U. Connecticut	73	238,701	22,360	8,592	135,171	3,343	31,244	11,514	26,477
Woods Hole Oceanographic Institution	74	238,554	46,139	2,666	1,638	10,949	148,403	75	28,684
Albert Einstein C. of Medicine	75	230,151	6,328	314	223,495	0	9	5	0
U. Massachusetts, Medical School	76	223,490	6,450	187	214,698	0	1,270	243	642
Oregon State U.	77	222,169	18,957	20,667	30,512	6,084	68,243	44,107	33,599
U. Georgia	78	221,804	8,571	16,977	98,339	1,184	32,580	42,427	21,726
U. Oklahoma, Norman and Health Science Center	79	219,964	17,814	9,640	92,264	27,360	23,986	840	48,060
Princeton U.	80	219,600	25,234	28,060	58,218	22,689	70,709	931	13,759
U. Missouri, Columbia	81	217,091	14,006	4,912	114,981	1,763	18,383	32,057	30,989
U. Dayton	82	216,729	204,029	987	2,274	341	1,533	0	7,565
U. Kansas	83	211,111	8,006	6,051	134,942	2,357	28,554	819	30,382
Washington State U.	84	207,086	7,770	21,866	65,634	1,021	17,645	61,410	31,740
U. New Mexico	85	205,351	24,162	15,295	120,363	2,729	33,744	2,473	6,585
Wake Forest U.	86	204,713	10,658	446	186,595	901	2,939	381	2,793
U. Delaware	87	202,469	24,933	15,436	53,333	6,369	42,731	7,014	52,653
U. Texas Health Science Center, Houston	88	197,759	10,005	25	179,002	371	1,861	2,383	4,112
Iowa State U.	89	195,394	12,259	34,045	31,326	4,612	35,809	50,328	27,015
Florida State U.	90	195,323	24,311	10,765	46,547	3,808	75,363	898	33,631
SUNY, Stony Brook U.	91	192,448	16,848	24,003	90,679	4,743	44,682	289	11,204
U. Hawaii, Manoa	92	192,205	43,913	5,895	49,521	12,685	38,423	12,709	29,059
Northeastern U.	93	186,013	43,759	5,837	61,331	1,983	57,624	116	15,363
Virginia Commonwealth U.	94	184,852	11,522	1,708	138,334	885	6,997	1,064	24,342
U. California, Santa Barbara	95	179,896	51,327	24,864	29,897	7,085	57,467	693	8,563
Medical U. South Carolina	96	168,957	1,201	0	160,174	0	423	0	7,159
Dartmouth C. and Dartmouth Hitchcock Medical Center	97	168,740	11,106	5,618	118,308	4,760	23,150	408	5,390
George Washington U.	98	162,892	12,721	2,739	114,480	2,659	16,167	437	13,689
U. Alaska, Fairbanks	99	156,702	41,062	9,402	8,005	25,141	46,220	3,154	23,718
Florida International U.	100	156,381	23,309	10,226	52,808	2,929	31,761	1,093	34,255
Medical C. Wisconsin	101	155,403	7,510	0	143,675	262	446	199	3,311
Temple U.	102	154,516	13,822	3,408	118,846	221	12,823	295	5,101
Tufts U.	103	154,458	13,073	3,281	88,814	1,192	12,117	18,688	17,293
U. Tennessee, Knoxville	104	153,637	26,963	57,048	13,316	2,738	23,328	20,159	10,085
Tulane U.	105	152,468	4,515	1,202	128,199	793	9,465	862	7,432
U. New Hampshire	106	152,377	6,308	5,360	21,742	64,820	20,540	9,100	24,507
Mississippi State U.	107	150,804	34,737	9,088	9,637	2,751	13,209	39,042	42,340

TABLE 26

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2023

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
U. Texas Medical Branch	108	150,272	13,840	389	133,123	851	735	742	592
U. Notre Dame	109	147,985	35,688	15,960	31,968	4,448	41,477	1,212	17,232
U. Texas Health Science Center, San Antonio	110	143,730	7,197	0	133,227	0	422	0	2,884
Montana State U., Bozeman	111	142,965	52,929	5,355	19,246	8,720	22,324	19,630	14,761
Wichita State U.	112	142,371	112,906	749	1,559	3,233	2,787	19	21,118
U. Massachusetts, Amherst	113	138,849	14,781	7,985	46,582	5,263	38,784	9,883	15,571
Clemson U.	114	129,955	20,118	8,141	20,724	2,098	23,552	11,985	43,337
U. Vermont	115	128,645	4,713	886	80,259	1,797	10,563	21,988	8,439
Wayne State U.	116	128,521	7,942	3,296	103,377	261	10,093	246	3,306
Georgetown U.	117	127,370	12,035	1,253	96,381	2,462	6,527	57	8,655
Louisiana State U., Baton Rouge	118	127,243	15,251	6,220	50,097	6,837	20,103	12,045	16,690
U. Alabama, Huntsville	119	126,040	67,527	1,177	671	36,648	10,710	264	9,043
Auburn U., Auburn	120	125,783	23,535	6,113	18,920	7,446	15,636	31,471	22,662
George Mason U.	121	125,437	54,139	1,057	24,211	9,030	16,347	372	20,281
U. South Carolina, Columbia	122	124,330	15,506	10,157	66,974	4,304	16,472	773	10,144
U. Central Florida	123	124,256	37,555	10,896	23,008	12,752	26,673	404	12,968
U. California, Riverside	124	120,524	11,529	7,693	42,967	3,008	29,853	19,062	6,412
Rice U.	125	119,853	27,925	11,116	32,746	4,323	40,654	375	2,714
West Virginia U.	126	114,708	4,152	13,777	55,509	5,500	14,155	11,701	9,914
U. California, Santa Cruz	127	112,847	9,431	6,895	56,807	5,617	21,029	1,354	11,714
Thomas Jefferson U.	128	110,366	5,295	119	102,067	46	15	2,699	125
Drexel U.	129	108,724	15,008	2,239	66,855	434	16,875	231	7,082
U. Rhode Island	130	102,056	12,127	1,652	26,068	763	15,519	6,867	39,060
Rockefeller U.	131	101,422	797	9	99,873	11	706	0	26
U. Louisville	132	100,890	4,794	1,455	80,972	415	9,497	325	3,432
New Mexico Institute of Mining and Technology	133	100,873	27,914	27,550	1,939	946	8,111	131	34,282
U. Oregon	134	100,265	3,179	9,006	51,917	1,566	20,542	857	13,198
U. Houston	135	99,450	8,886	8,303	47,430	3,862	22,004	386	8,579
U. Arkansas for Medical Sciences	136	94,483	2,845	0	88,064	629	1,184	590	1,171
Rush U.	137	93,180	843	0	92,007	166	0	0	164
U. Maine	138	92,870	25,645	14,654	2,878	2,837	17,637	16,986	12,233
Georgia State U.	139	91,331	2,828	1,022	58,933	860	13,377	471	13,840
U. Maryland, Baltimore County	140	86,573	6,005	2,044	17,085	42,341	13,537	2,248	3,313
U. Alabama, Tuscaloosa	141	86,244	13,447	5,599	17,648	1,911	18,364	1,613	27,662
U. Mississippi	142	85,186	7,862	901	59,848	867	4,799	5,998	4,911
U. Louisiana, Lafayette	143	84,898	3,401	2,600	36,026	1,145	6,541	2,508	32,677

TABLE 26

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2023

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
U. Nevada, Reno	144	83,603	5,071	9,314	29,312	1,870	20,342	5,750	11,944
Kansas State U.	145	82,610	3,311	9,349	15,011	746	15,892	28,874	9,427
U. Arkansas, Fayetteville	146	82,164	13,068	5,913	13,584	1,038	22,471	18,169	7,921
U. North Texas, Health Science Center	147	77,660	272	0	73,730	0	164	0	3,494
U. Montana, Missoula	148	75,490	5,712	878	36,918	1,822	12,241	5,424	12,495
New Mexico State U.	149	71,764	19,315	7,663	9,105	5,073	12,984	12,516	5,108
U. Texas, El Paso	150	70,873	12,633	5,238	21,672	2,622	19,551	510	8,647
U. Tennessee, Health Science Center	151	70,676	2,549	0	66,422	0	135	24	1,546
New Jersey Institute of Technology	152	70,080	9,550	974	6,630	3,516	13,523	313	35,574
Colorado School of Mines	153	68,795	12,241	25,289	2,769	3,975	19,536	538	4,447
U. Wyoming	154	68,467	1,056	12,148	16,804	1,022	22,534	7,158	7,745
San Diego State U.	155	68,045	6,924	1,334	40,732	1,209	12,196	605	5,045
U. Texas, Dallas	156	66,127	12,884	4,243	28,004	2,861	17,448	56	631
U. North Dakota	157	65,890	5,363	20,901	21,948	1,870	3,841	2,051	9,916
Augusta U.	158	64,410	1,989	0	61,257	162	856	0	146
Oklahoma State U., Stillwater	159	64,098	7,661	6,090	11,340	3,823	14,273	14,775	6,136
SUNY, U. Albany	160	62,935	2,319	1,498	46,250	748	6,624	676	4,820
Naval Postgraduate School	161	62,715	56,875	1,357	0	1,483	2,092	0	908
U. Idaho	162	61,531	589	4,777	9,337	3,494	17,921	20,068	5,345
U. Massachusetts, Lowell	163	61,413	20,980	5,058	16,578	2,770	8,163	240	7,624
Texas Tech U.	164	58,922	8,205	7,136	5,927	2,686	13,143	5,499	16,326
U. Texas, San Antonio	165	58,171	8,071	9,876	20,698	2,205	8,173	525	8,623
Cleveland State U.	166	56,550	4,053	396	46,511	361	2,375	30	2,824
Rensselaer Polytechnic Institute	167	56,445	11,163	11,714	14,228	2,619	14,273	0	2,448
U. Texas, Arlington	168	56,337	11,021	3,474	13,742	2,233	12,822	1,126	11,919
Florida A&M U.	169	54,363	1,501	3,360	7,576	778	7,064	10,818	23,266
Cold Spring Harbor Laboratory	170	54,123	2,362	397	44,859	0	4,522	1,983	0
North Dakota State U.	171	53,339	8,962	1,011	9,047	173	10,647	16,517	6,982
Michigan Technological U.	172	52,102	18,081	6,662	4,905	5,735	9,785	2,158	4,776
Northern Arizona U.	173	50,491	7,717	2,659	14,539	5,096	11,658	5,233	3,589
U. Southern Mississippi	174	48,374	12,088	306	4,114	1,945	3,557	1,415	24,949
Howard U.	175	47,662	3,763	610	33,942	554	5,937	0	2,856
U. Puerto Rico, Medical Sciences Campus	176	46,789	437	0	43,095	250	1,579	9	1,419
Brandeis U.	177	46,654	609	2,055	35,566	326	7,849	0	249
Syracuse U.	178	46,595	3,574	2,964	18,297	305	13,639	1,194	6,622
Air Force Institute of Technology	179	45,087	41,057	1,607	0	20	35	0	2,368

TABLE 26

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2023

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
Texas State U.	180	44,297	4,537	571	7,148	3,376	6,987	1,913	19,765
Saint Louis U.	181	44,157	1,378	282	36,662	208	3,267	121	2,239
U.S. Air Force Academy	182	44,056	43,793	90	0	146	27	0	0
Stevens Institute of Technology	183	44,036	29,801	1,345	3,275	1,131	6,241	151	2,092
Morehouse School of Medicine	184	41,069	854	0	39,186	0	952	0	77
Touro U., New York	185	40,008	0	0	40,008	0	0	0	0
Lehigh U.	186	39,909	5,433	6,430	8,985	391	14,720	134	3,816
Indiana U.-Purdue U., Indianapolis	187	39,869	2,065	1,205	22,924	20	8,876	147	4,632
Boston C.	188	39,356	6,761	952	17,454	332	9,110	52	4,695
U. Nevada, Las Vegas	189	38,815	1,127	5,695	13,063	2,278	8,972	1,947	5,733
CUNY, City C.	190	38,669	2,629	2,683	13,221	2,455	11,770	122	5,789
U. Toledo	191	37,872	7,381	6,210	15,343	3,682	2,771	654	1,831
Worcester Polytechnic Institute	192	37,736	10,249	3,200	5,543	577	13,042	324	4,801
Rochester Institute of Technology	193	37,334	6,907	2,565	5,597	3,210	11,449	293	7,313
North Carolina A&T State U.	194	37,152	4,693	3,132	4,856	2,719	9,842	8,379	3,531
Louisiana State U., Health Sciences Center, New Orleans	195	35,933	800	0	34,595	85	58	0	395
Boise State U.	196	35,801	4,780	4,229	7,292	2,296	11,813	1,663	3,728
Catholic U. of America	197	35,502	570	4,193	2,416	25,243	2,580	0	500
Florida Atlantic U.	198	35,108	9,229	642	10,689	873	6,028	2,722	4,925
SUNY, Polytechnic Institute	199	34,393	27,332	1,149	1,087	41	2,448	0	2,336
U. North Carolina, Charlotte	200	33,784	2,923	4,525	10,351	192	11,761	66	3,966
U. Denver	201	33,148	570	130	22,422	41	4,403	154	5,428
William & Mary	202	32,631	2,485	3,284	1,800	119	8,199	278	16,466
Missouri U. of Science and Technology	203	32,457	7,640	7,851	2,729	2,951	5,360	125	5,801
San Jose State U.	204	31,780	453	909	3,223	17,145	4,847	130	5,073
Portland State U.	205	31,731	2,302	1,479	9,367	610	8,319	711	8,943
SUNY, Binghamton U.	206	31,601	5,908	1,282	12,847	0	9,406	0	2,158
U. North Carolina, Greensboro	207	31,581	400	48	13,358	595	3,856	1,091	12,233
Brigham Young U., Provo	208	31,216	4,295	4,032	8,287	1,908	9,148	601	2,945
Old Dominion U.	209	31,104	6,643	4,621	4,467	1,944	7,351	213	5,865
Van Andel Research Institute	210	30,934	990	217	29,476	0	251	0	0
East Carolina U.	211	30,851	2,437	591	17,090	425	6,791	130	3,387
Morgan State U.	212	30,451	4,399	131	8,464	8,502	4,738	115	4,102
SUNY, Upstate Medical U.	213	30,069	1,630	0	28,151	0	41	0	247
U. North Texas, Denton	214	30,017	9,215	3,793	5,427	558	7,489	503	3,032
Mercer U.	215	29,944	26,952	0	2,494	37	421	0	40

TABLE 26

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2023

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
Loyola U., Chicago	216	29,712	826	75	24,329	0	3,318	16	1,148
South Dakota State U.	217	28,897	785	283	5,649	1,089	3,067	15,238	2,786
U. South Alabama	218	28,637	3,863	365	10,008	349	5,486	894	7,672
U. California, Merced	219	28,576	1,839	1,927	7,004	910	10,735	3,810	2,351
SUNY, Downstate Health Sciences U.	220	28,543	1,760	0	26,430	0	231	0	122
U. Missouri, Kansas City	221	28,115	11,816	150	12,707	256	1,990	190	1,006
Illinois Institute of Technology	222	28,027	1,194	6,361	13,250	390	4,722	1,032	1,078
U. Massachusetts, Boston	223	27,098	687	0	11,250	816	6,106	97	8,142
U. Memphis	224	26,913	4,087	536	10,336	180	5,771	151	5,852
U. Wisconsin-Milwaukee	225	25,612	859	2,698	10,328	503	8,497	379	2,348
U. Texas Rio Grande Valley	226	25,068	1,569	1,709	10,558	132	7,382	2,143	1,575
Delaware State U.	227	24,167	3,092	0	8,286	101	2,039	5,147	5,502
Embry-Riddle Aeronautical U.	228	23,733	4,836	187	376	1,961	3,619	107	12,647
CUNY, Hunter C.	229	22,124	813	828	18,145	324	1,787	0	227
U. Nebraska, Omaha	230	22,096	2,956	0	4,908	6	3,766	0	10,460
Ohio U.	231	21,919	889	4,303	8,034	424	2,568	134	5,567
Desert Research Institute	232	20,061	3,508	6,210	1,174	1,376	2,628	1,080	4,085
Marquette U.	233	20,055	1,924	2,952	10,104	41	4,396	20	618
Southern Methodist U.	234	19,986	4,403	1,302	3,721	795	5,520	0	4,245
Marshall U.	235	19,797	4,724	7	11,438	184	694	18	2,732
U.S. Military Academy	236	19,390	18,493	1	817	0	79	0	0
California State U., Northridge	237	19,169	1,204	240	8,418	1,345	7,385	102	475
U. of the Virgin Islands	238	19,127	150	0	1,523	938	8,640	4,090	3,786
Wright State U.	239	19,081	10,171	226	7,150	173	647	36	678
U. Guam	240	18,992	2,748	95	2,759	682	5,195	4,150	3,363
Louisiana State U., Health Sciences Center, Shreveport	241	18,742	125	0	18,080	528	9	0	0
Rowan U.	242	18,454	6,945	0	6,790	227	3,562	163	767
Meharry Medical C.	243	18,398	159	396	17,321	0	508	14	0
Kent State U.	244	17,959	682	1,142	9,106	164	5,691	23	1,151
U. West Florida	245	17,954	5,514	12	921	0	1,396	0	10,111
Eastern Virginia Medical School	246	17,947	207	0	8,650	671	1	0	8,418
CUNY, Queens C.	247	17,811	672	9,893	4,122	7	3,015	54	48
Texas A&M U.-Corpus Christi	248	17,742	1,036	132	2,092	416	4,994	324	8,748
American U.	249	17,462	1,333	162	2,241	2,965	5,629	284	4,848
Southern Illinois U., Carbondale	250	17,209	1,217	383	7,244	285	2,190	1,691	4,199
U. Colorado Denver	251	17,181	669	330	8,429	111	4,345	11	3,286

TABLE 26

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2023

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
Baylor U.	252	17,147	1,973	1,647	6,242	570	4,529	1,536	650
San Francisco State U.	253	16,507	317	319	8,627	245	5,871	1	1,127
Jackson State U.	254	16,443	1,912	435	5,846	90	5,241	0	2,919
Rutgers, State U. New Jersey, Newark	255	16,315	1,393	225	9,325	0	4,904	46	422
U. Puerto Rico, Rio Piedras	256	16,053	264	263	3,358	2,313	8,653	627	575
Tuskegee U.	257	16,023	2,003	0	4,243	161	4,314	4,987	315
Tennessee State U.	258	15,983	242	879	1,701	59	1,899	10,846	357
U. Maryland Center for Environmental Science	259	15,378	232	855	0	1,090	3,719	329	9,153
North Carolina Central U.	260	15,188	1,316	1,236	8,125	1	3,164	153	1,193
California Polytechnic State U., San Luis Obispo	261	14,810	3,550	573	1,667	156	4,267	1,743	2,854
Texas Tech U., Health Sciences Center	262	14,732	301	0	13,810	0	390	201	30
South Dakota School of Mines and Technology	263	14,640	3,749	2,290	502	1,159	6,263	243	434
Albany Medical C.	264	14,193	434	0	13,759	0	0	0	0
U. Hawaii, system office	265	14,150	13,426	0	0	150	0	0	574
U. South Dakota	266	14,101	229	433	9,481	62	3,275	0	621
California State U., Long Beach	267	13,758	230	236	7,752	118	3,518	678	1,226
U. Massachusetts, Dartmouth	268	13,742	5,972	72	829	63	3,949	0	2,857
Illinois State U.	269	13,612	155	2,286	1,011	0	3,570	614	5,976
CUNY, Graduate School of Public Health and Health Policy	270	13,413	0	0	12,396	0	218	9	790
Charles R. Drew U. of Medicine and Science	271	13,297	0	0	13,297	0	0	0	0
Missouri State U.	272	12,973	11,623	0	135	139	266	350	460
Xavier U. Louisiana	273	12,833	245	20	9,845	516	1,520	29	658
Creighton U.	274	12,681	1,235	308	9,786	158	835	46	313
U. Alaska, Anchorage	275	12,646	948	339	2,985	485	3,691	89	4,109
Western Michigan U. and Homer Stryker M.D. School of Medicine	276	12,631	557	3,292	1,509	776	5,536	3	958
U. Texas Health Science Center, Tyler	277	12,555	110	178	12,267	0	0	0	0
Loma Linda U.	278	12,485	7	14	11,258	1,125	0	7	74
Prairie View A&M U.	279	12,354	1,092	622	68	816	2,469	6,566	721
U. Puerto Rico, Mayaguez	280	12,260	791	843	1,320	195	4,972	771	3,368
Alabama A&M U.	281	12,197	1,861	747	6,502	180	1,449	468	990
CUNY, Advanced Science Research Center	282	11,916	5,272	488	4,019	139	1,656	215	127
Teachers C., Columbia U.	283	11,871	0	0	1,113	0	2,873	0	7,885
Nova Southeastern U.	284	11,637	4,303	0	3,786	0	200	100	3,248
Florida Institute of Technology	285	11,520	4,892	583	815	1,728	1,307	332	1,863
California State U., Sacramento	286	11,284	0	0	315	0	2,115	1,021	7,833
Alcorn State U.	287	10,996	35	0	277	15	65	9,485	1,119

TABLE 26

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2023

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
Texas Southern U.	288	10,969	0	0	3,616	0	2,232	0	5,121
Northern Illinois U.	289	10,849	255	3,536	1,268	189	3,345	18	2,238
East Tennessee State U.	290	10,776	124	0	8,632	12	601	113	1,294
Miami U.	291	10,724	915	0	3,991	144	4,056	110	1,508
U. Akron	292	10,709	1,988	1,335	879	1,364	4,369	1	773
Clarkson U.	293	10,611	1,942	294	948	133	5,081	189	2,024
U.S. Naval Academy	294	10,260	9,512	17	0	50	681	0	0
U. Maryland, Eastern Shore	295	10,201	882	135	427	15	287	5,377	3,078
Chapman U.	296	10,015	1,950	13	5,558	188	953	719	634
Tennessee Technological U.	297	9,975	635	2,460	320	82	2,736	500	3,242
Florida Gulf Coast U.	298	9,858	97	0	1,489	51	812	45	7,364
California State U., San Marcos	299	9,845	2,679	88	2,533	719	2,081	156	1,589
Oakland U.	300	9,600	858	27	5,465	61	3,164	25	0
Central Michigan U.	301	9,591	612	1,651	3,643	40	1,285	1	2,359
Montana Technological U.	302	9,585	6,621	457	567	35	524	220	1,161
Texas A&M U.-Kingsville	303	9,584	1,048	45	1,322	454	2,329	2,980	1,406
Hampton U.	304	9,445	320	1,122	1,682	3,496	2,825	0	0
SUNY, C. of Environmental Science and Forestry	305	9,231	1,091	119	200	314	2,311	2,077	3,119
Idaho State U.	306	9,230	106	3,593	1,795	172	3,050	39	475
California State U., Los Angeles	307	8,973	186	119	3,154	212	4,755	85	462
Northeast Ohio Medical U.	308	8,873	262	0	8,146	0	409	0	56
Villanova U.	309	8,741	545	142	2,187	973	4,300	0	594
U. Tulsa	310	8,545	3,591	819	187	115	2,712	209	912
California State U., East Bay	311	8,508	0	290	262	23	2,033	504	5,396
New York Medical C.	312	8,226	482	0	7,744	0	0	0	0
Bowling Green State U.	313	8,208	222	373	2,120	129	3,273	239	1,852
California State Polytechnic U., Pomona	314	8,162	438	227	1,048	240	3,329	780	2,100
Louisiana Tech U.	315	8,118	1,613	405	1,210	292	3,190	327	1,081
U. North Carolina, Wilmington	316	8,116	648	114	806	249	2,718	97	3,484
U. North Florida	317	8,113	173	75	3,533	86	1,130	2	3,114
Winston-Salem State U.	318	7,901	7	65	2,077	0	1,235	0	4,517
Clark Atlanta U.	319	7,687	555	266	3,234	191	3,377	64	0
Texas Christian U.	320	7,627	355	143	4,590	171	594	69	1,705
California State U., San Bernardino	321	7,606	56	58	1,518	139	4,485	17	1,333
Kentucky State U.	322	7,605	0	0	0	0	0	7,605	0
U. Arkansas, Little Rock	323	7,544	2,069	189	619	1,805	1,575	100	1,187

TABLE 26

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2023

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
U. Minnesota, Duluth	324	7,533	325	554	59	20	2,476	314	3,785
Fort Valley State U.	325	7,505	0	0	394	0	634	6,477	0
CUNY, John Jay C. of Criminal Justice	326	7,452	14	0	2,606	0	1,006	0	3,826
U. of the District of Columbia	327	7,367	1,624	565	185	632	3,333	42	986
Virginia State U.	328	7,166	963	265	294	79	1,151	4,360	54
Pacific U.	329	7,133	0	0	3,408	0	2,131	0	1,594
Rosalind Franklin U. of Medicine and Science	330	7,124	371	0	6,648	6	0	0	99
Western Washington U.	331	6,598	0	0	330	267	5,695	18	288
Duquesne U.	332	6,555	1,242	21	3,996	0	476	18	802
Ball State U.	333	6,355	58	0	4,028	9	1,196	226	838
MGH Institute of Health Professions	334	6,200	0	0	6,200	0	0	0	0
Western U. of Health Sciences	335	6,099	530	0	5,092	0	5	472	0
U. Hawaii, Hilo	336	6,068	415	31	811	179	671	585	3,376
California State U., Fullerton	337	6,049	319	0	2,486	0	2,733	86	425
U.S. Army War C.	338	6,035	494	0	197	0	467	554	4,323
U. Tennessee, Chattanooga	339	6,003	826	1,136	332	0	3,219	64	426
Wesleyan U.	340	5,955	317	37	2,133	551	2,546	0	371
Montclair State U.	341	5,916	0	43	1,763	67	3,038	34	971
Kennesaw State U.	342	5,908	361	90	2,818	3	2,472	55	109
Naval War C.	343	5,819	5,819	0	0	0	0	0	0
Morehouse C.	344	5,750	92	358	1,419	0	3,350	99	432
California State U., Monterey Bay	345	5,639	59	0	575	1,714	2,096	607	588
DePaul U.	346	5,592	0	101	2,807	345	2,114	0	225
Central State U.	347	5,523	138	0	265	18	364	4,682	56
Gallaudet U.	347	5,523	132	0	3,271	35	1,105	0	980
CUNY, Brooklyn C.	349	5,518	0	182	3,790	0	1,328	216	2
Tarleton State U.	350	5,478	0	0	1	0	991	4,467	19
Langston U.	351	5,473	600	0	111	119	625	3,984	34
South Carolina State U.	352	5,330	197	558	830	21	620	2,784	320
U. New Orleans	353	5,283	1,529	38	78	753	1,341	0	1,544
U. Colorado Colorado Springs	354	5,205	1,435	230	653	68	2,438	80	301
Salisbury U.	355	5,049	0	0	2,214	0	730	58	2,047
C. Charleston	356	5,036	0	3	584	2,212	1,067	208	962
California State U., Fresno	357	4,864	0	86	1,694	187	1,830	869	198
U. New England	358	4,777	0	27	4,328	0	374	3	45
Oklahoma State U., Center for Health Sciences	359	4,773	0	0	4,291	0	18	285	179

TABLE 26

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2023

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
Southern U. and A&M C., Agricultural Research and Extension Center	360	4,688	0	0	0	0	0	4,688	0
Fordham U.	361	4,687	64	75	3,132	0	647	0	769
Providence C.	362	4,648	177	0	858	0	673	0	2,940
Lincoln U., Jefferson City	363	4,610	0	0	0	0	503	4,107	0
Northwest Indian C.	364	4,595 i	0 i	0 i	908 i	243 i	942 i	128 i	2,374 i
U. Missouri, Saint Louis	365	4,569	182	0	2,364	3	1,162	220	638
Spelman C.	366	4,567	996	60	871	85	2,261	78	216
CUNY, Lehman C.	367	4,487	66	149	2,088	254	1,839	31	60
Southern U. and A&M C., Baton Rouge	368	4,444	168	191	106	213	3,730	36	0
U. Detroit Mercy	369	4,434	577	0	3,457	0	352	0	48
Norfolk State U.	370	4,381	580	641	87	0	2,931	0	142
Pennsylvania State U., Behrend	371	4,378	61	105	0	0	736	141	3,335
U. Baltimore	372	4,250	75	0	72	48	137	0	3,918
Barnard C.	373	4,235	0	0	1,912	90	2,233	0	0
U. Arkansas, Pine Bluff	374	4,204	121	10	230	11	590	3,085	157
U. Washington, Tacoma	375	3,875	75	63	475	169	850	26	2,217
Middle Tennessee State U.	376	3,822	155	45	312	138	1,613	1,026	533
Fisk U.	377	3,819	486	194	374	0	1,637	0	1,128
U. Washington, Bothell	378	3,787	540	0	509	0	2,369	0	369
Chicago State U.	379	3,756	0	170	68	55	3,463	0	0
Towson U.	380	3,653	1,419	0	683	20	858	163	510
Hope C.	381	3,639	0	0	50	104	1,048	0	2,437
Southern Illinois U., Edwardsville	382	3,621	870	107	914	0	901	117	712
Georgia Southern U.	383	3,562	267	287	555	32	1,384	0	1,037
U. Wisconsin-Superior	384	3,559	0	0	0	19	4	0	3,536
California State U., Bakersfield	385	3,525	43	45	223	0	438	349	2,427
U. San Diego	386	3,501	1,663	37	62	50	1,245	48	396
Appalachian State U.	387	3,497	33	32	319	79	1,978	539	517
Sonoma State U.	388	3,483	120	0	0	1,570	1,180	0	613
James Madison U.	389	3,475	40	7	533	62	2,716	17	100
U. Michigan, Dearborn	390	3,464	138	210	747	0	1,976	0	393
Santa Clara U.	391	3,448	672	0	470	214	1,488	0	604
New Mexico Highlands U.	392	3,416	0	0	173	0	3,005	76	162
Purdue U., Northwest	393	3,409	540	1,199	150	8	896	85	531
Western Kentucky U.	394	3,401	1	0	1,731	311	506	563	289
U. North Carolina, Asheville	395	3,323	28	4	1,884	136	403	169	699

TABLE 26

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2023

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
Sam Houston State U.	396	3,307	81	0	590	0	942	635	1,059
CUNY, C. Staten Island	397	3,296	92	0	1,572	42	1,488	0	102
Citadel Military C. South Carolina	398	3,287	1,742	0	31	19	959	0	536
Western Illinois U.	399	3,283	717	180	176	0	39	2,104	67
California State Polytechnic U., Humboldt	400	3,280	0	0	10	0	523	1,498	1,249
New York Institute of Technology	401	3,252	279	0	2,075	26	872	0	0
California State U., Chico	402	3,152	358	0	1	0	2,456	246	91
U. of Health Sciences and Pharmacy in St. Louis	403	3,110	3	0	3,107	0	0	0	0
Arkansas State U., Jonesboro	404	3,083	0	130	643	15	931	881	483
Troy U.	405	3,069	0	0	0	0	70	234	2,765
Pennsylvania State U., Harrisburg	406	3,045	0	0	2,762	0	258	0	25
Rutgers, State U. New Jersey, Camden	407	3,042	122	84	302	0	2,203	0	331
Smith C.	408	3,013	88	27	923	220	1,485	2	268
Colby C.	409	3,011	0	0	299	123	855	1,546	188
U. Northern Iowa	410	2,975	610	75	650	111	1,015	123	391
Occidental C.	411	2,967	0	0	156	60	2,159	111	481
U. Central del Caribe	412	2,929	0	0	2,929	0	0	0	0
Loyola Marymount U.	413	2,921	2	0	936	0	289	0	1,694
Wellesley C.	413	2,921	0	0	1,614	92	1,215	0	0
CUNY, system office	415	2,901	0	0	0	0	2,901	0	0
Amherst C.	416	2,869	0	0	822	145	1,882	16	4
Midwestern U.	417	2,862	0	0	2,210	0	276	80	296
Alabama State U.	418	2,848	14	0	1,104	354	1,376	0	0
Fort Lewis C.	419	2,816	0	52	612	41	1,356	307	448
Carleton C.	420	2,800	0	1	304	41	2,366	0	88
West Virginia State U.	420	2,800	18	0	8	52	152	2,502	68
CUNY, Graduate Center	422	2,792	0	0	142	0	2,385	0	265
St. John's U., New York	422	2,792	68	0	2,163	0	561	0	0
Seton Hall U.	424	2,778	519	0	1,226	0	420	0	613
Pace U.	425	2,698	19	547	308	0	1,824	0	0
Youngstown State U.	426	2,691	1,845	8	195	107	484	0	52
Saint Joseph's U.	427	2,680	0	0	1,022	0	624	144	890
Tougaloo C.	428	2,643	187	57	890	38	1,257	20	194
U. Southern Maine	429	2,598	0	14	2,172	114	253	0	45
Middlebury C.	430	2,564	277	30	1,081	114	1,035	1	26
Eastern Michigan U.	431	2,521	22	0	1,400	179	820	0	100

TABLE 26

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2023

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
Saginaw Valley State U.	432	2,503 i	347 i	581 i	916 i	13 i	284 i	25 i	337 i
Central Washington U.	433	2,499	363	39	36	278	1,401	2	380
CUNY, New York City C. of Technology	434	2,498	717	15	8	0	1,758	0	0
National Defense U.	435	2,494	2,494	0	0	0	0	0	0
Bowie State U.	436	2,469	348	6	422	237	906	58	492
SUNY, C. of Optometry	436	2,469	0	0	2,469	0	0	0	0
California State U., Dominguez Hills	438	2,457	489	57	777	0	826	0	308
Texas Woman's U.	439	2,439	0	0	912	0	804	334	389
Dakota State U.	440	2,437	1,273	0	0	0	1,164	0	0
Reed C.	441	2,420 i	152 i	45 i	951 i	25 i	1,043 i	11 i	193 i
Texas Tech U., Health Sciences Center, El Paso	442	2,415	0	0	1,714	0	48	0	653
Northern Kentucky U.	443	2,413	0	0	1,688	56	227	4	438
Bucknell U.	444	2,359	62	19	822	46	1,251	3	156
Winthrop U.	445	2,358	0	0	703	0	337	0	1,318
Haverford C.	446	2,344	382	0	715	277	960	0	10
Keck Graduate Institute	447	2,338	0	0	1,978	29	204	0	127
Swarthmore C.	448	2,315	0	11	606	14	1,451	0	233
Northeastern Illinois U.	449	2,262	0	0	1,147	0	1,064	51	0
Lamar U.	450	2,259	0	678	117	0	495	170	799
Dine C.	451	2,255	0	0	1,091	0	802	346	16
Clark U.	452	2,235	4	0	488	97	923	513	210
U. New Haven	453	2,227	382	0	205	41	551	0	1,048
Trinity U.	454	2,203	0	0	1,182	9	811	76	125
Bowdoin C.	455	2,186	0	0	657	111	1,297	0	121
U. Ana G. Mendez, Gurabo	456	2,132	0	1,318	379	0	65	12	358
Toyota Technological Institute, Chicago	457	2,127	964	0	379	0	784	0	0
West Texas A&M U.	458	2,118	984	0	0	0	627	386	121
U. Wisconsin-Stevens Point	459	2,079	0	4	0	7	121	200	1,747
U. Central Oklahoma	460	2,071 i	540 i	142 i	638 i	47 i	367 i	34 i	303 i
Murray State U.	461	2,058	0	116	333	55	1,148	25	381
Christopher Newport U.	462	2,055	108	216	41	541	1,131	0	18
Hofstra U.	463	1,995	1	0	670	0	1,291	0	33
Long Island U.	464	1,993	1	0	1,226	0	487	274	5
Roger Williams U.	465	1,973	70	0	208	28	547	75	1,045
Harvey Mudd C.	466	1,968	32	14	2	0	1,898	0	22
Texas A&M International U.	467	1,966	125	50	145	0	524	27	1,095

TABLE 26

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2023

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
Alfred U.	468	1,958	1,204	477	0	8	228	0	41
New England C. of Optometry	469	1,946	0	0	1,946	0	0	0	0
Hawaii Pacific U.	470	1,942	0	0	921	0	271	91	659
Texas A&M U.-Commerce	471	1,936	24	152	0	28	849	231	652
Black Hills State U.	472	1,918	0	0	1,025	0	839	0	54
CUNY, Baruch C.	473	1,879	56	347	583	13	813	0	67
Kean U.	474	1,870	0	0	244	0	979	0	647
Coastal Carolina U.	475	1,847	73	231	400	10	602	0	531
Fayetteville State U.	475	1,847	235	0	593	0	1,019	0	0
U. Central Arkansas	477	1,824	0	10	1,210	50	333	60	161
U. Puerto Rico, Humacao	478	1,822	0	0	420	236	1,104	0	62
Grand Valley State U.	479	1,808	0	0	626	262	391	0	529
Lawrence Technological U.	480	1,786	70	44	0	0	356	0	1,316
California State U., Channel Islands	481	1,773	14	125	394	0	1,186	0	54
C. New Jersey	482	1,755	0	29	310	175	826	272	143
U. Nebraska, Kearney	483	1,739	0	0	1,132	22	356	0	229
Morehead State U.	484	1,718	0	0	181	1,388	145	0	4
Nevada State C.	485	1,711	0	0	815	0	492	0	404
U. Northern Colorado	486	1,705	10	0	125	41	794	116	619
Indiana U. Pennsylvania	487	1,702	424	0	0	0	292	792	194
Albany State U.	488	1,681	6	14	0	64	462	102	1,033
Savannah State U.	489	1,675	394	292	538	0	328	0	123
Utah Valley U.	490	1,671	0	0	115	116	1,421	18	1
Benedict C.	491	1,665	0	467	299	116	316	0	467
U. Louisiana, Monroe	492	1,655	0	0	1,313	0	15	0	327
U. Texas, Tyler	493	1,652	48	0	645	4	593	141	221
SUNY, Buffalo State U.	494	1,615	53	0	12	0	645	30	875
Mount Holyoke C.	495	1,612	0	0	187	95	1,022	0	308
Western Carolina U.	496	1,600	23	0	619	32	376	115	435
Pittsburg State U.	497	1,591	0	0	136	48	289	14	1,104
Sul Ross State U.	498	1,568	0	0	0	0	0	371	1,197
Johnson C. Smith U.	499	1,554	0	0	348	0	43	0	1,163
Virginia Military Institute	500	1,534	1,422	0	0	62	13	37	0
Colgate U.	501	1,521	0	3	157	30	1,270	61	0
CUNY, York C.	502	1,504	130	349	641	25	336	0	23
Palmer C. of Chiropractic, Davenport	503	1,500	0	0	1,500	0	0	0	0

TABLE 26
Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2023

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
U. Houston-Downtown	504	1,495	43	0	129	0	331	0	992
Lake Superior State U.	505	1,475	25	0	0	0	7	0	1,443
Franklin and Marshall C.	506	1,469	0	0	476	24	752	0	217
U. Alaska, Southeast	507	1,463	21	0	41	28	868	58	447
Bates C.	508	1,455	0	9	319	33	990	0	104
Williams C.	508	1,455 i	91 i	24 i	431 i	43 i	713 i	9 i	144 i
Southern Connecticut State U.	510	1,433	0	37	458	166	534	100	138
Ferris State U.	511	1,430	0	0	1,054	0	376	0	0
Claremont Graduate U.	512	1,422	22	122	75	0	212	0	991
Clafin U.	513	1,418	19	571	463	0	365	0	0
Austin Peay State U.	514	1,401	8	0	16	11	287	6	1,073
West Chester U. Pennsylvania	515	1,386	163	0	352	50	705	0	116
U. Richmond	516	1,379	0	122	193	85	680	238	61
Oregon Institute of Technology	517	1,375	432 i	77 i	377 i	68 i	199 i	49 i	173 i
Norwich U.	518	1,366	260	0	1,028	6	0	0	72
Southeastern Louisiana U.	518	1,366	0	0	613	33	489	0	231
Davidson C.	520	1,340	0	35	640	10	629	25	1
New School	521	1,337	0	37	535	0	585	0	180
United Tribes Technical C.	521	1,337	0	349	76	0	559	153	200
U. Oklahoma, Tulsa	523	1,328	0	0	1,128	2	115	0	83
Furman U.	524	1,300	0	0	314	133	776	77	0
U. of the Pacific	524	1,300	18	0	799	10	473	0	0
U. Puget Sound	524	1,300	0	0	66	10	1,224	0	0
SUNY, Geneseo	527	1,292	0	553	82	57	564	0	36
Bryn Mawr C.	528	1,289	0	0	72	18	1,184	0	15
Skidmore C.	529	1,288	0	0	169	14	672	0	433
Touro U., California	530	1,279	0	0	1,251	0	28	0	0
U. Houston-Clear Lake	531	1,273	0	0	103	113	139	0	918
U. Hartford	532	1,269	53	17	71	879	52	0	197
Albany C. of Pharmacy and Health Sciences	533	1,256 i	0 i	0 i	1,256 i	0 i	0 i	0 i	0 i
U. Wisconsin-Oshkosh	534	1,249	0	0	538	0	533	0	178
Erikson Institute	535	1,245	0	0	0	0	0	0	1,245
U. Hawaii, Maui C.	536	1,234	0	6	59	0	801	214	154
Texas A&M U.-San Antonio	537	1,233	0	0	38	0	581	42	572
Yeshiva U.	538	1,229	23	0	559	0	419	129	99
Dillard U.	539	1,228	160	16	96	59	534	0	363

TABLE 26

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2023

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
U. Wisconsin-Green Bay	540	1,222	178 i	76 i	660 i	37 i	152 i	14 i	105 i
Pomona C.	541	1,205	50	0	335	65	755	0	0
Vassar C.	542	1,204	0	0	486	11	707	0	0
Florida Polytechnic U.	543	1,172	19	364	400	18	174	0	197
Seattle U.	544	1,165	16	0	350	0	759	40	0
California State U., Stanislaus	545	1,150	0	5	99	37	670	0	339
Lafayette C.	546	1,141	99	16	109	38	805	0	74
SUNY, C. Plattsburgh	547	1,121	0	0	217	270	0	160	474
Stephen F. Austin State U.	548	1,098	0	0	0	0	378	591	129
Macalester C.	549	1,094	41	0	88	7	882	25	51
Elizabeth City State U.	550	1,093	0	0	1	0	722	0	370
Kenyon C.	551	1,092	0	0	239	0	811	42	0
U. of the Incarnate Word	552	1,086	470	0	471	0	145	0	0
Grinnell C.	553	1,082	0	0	0	0	1,082	0	0
Butler U.	554	1,077	0	0	375	76	616	0	10
La Sierra U.	555	1,066 i	0 i	0 i	0 i	0 i	0 i	0 i	1,066 i
U. Illinois, Springfield	556	1,057	0	0	195	0	18	3	841
Claremont McKenna C.	557	1,035	109	0	94	0	832	0	0
U. Wisconsin-Eau Claire	558	1,027	0	91	360	0	557	0	19
Hobart and William Smith Colleges	559	1,019	0	0	10	5	560	26	418
Eastern Washington U.	560	1,015	0	210	19	0	368	0	418
U. San Francisco	560	1,015	0	0	477	56	461	0	21
U. Texas of the Permian Basin	562	1,013	0	0	495	0	174	0	344
Indiana State U.	563	980	0	16	282	34	114	0	534
Drake U.	564	954	20	15	590	55	254	20	0
Colorado State U., Pueblo	565	952	0	0	0	0	798	43	111
Abilene Christian U.	566	946	0	836	0	15	0	0	95
Ursinus C.	567	942	7	14	266	0	551	104	0
St. Olaf C.	568	933	0	0	23	0	806	0	104
Marian U., Indianapolis	569	918	0	0	282	0	269	0	367
East Stroudsburg U. Pennsylvania	570	909	0	0	0	0	809	85	15
Minnesota State U., Mankato	571	905	55	206	0	33	436	20	155
SUNY, Oswego	572	894	15	24	378	1	429	0	47
Suffolk U.	573	893	0	0	103	0	103	0	687
Merrimack C.	574	892	0	0	865	0	16	0	11
U. South Carolina, Beaufort	575	889	431	0	0	0	140	87	231

TABLE 26

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2023

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
Northland C.	576	880 i	34 i	1 i	360 i	17 i	362 i	5 i	101 i
Oberlin C.	576	880	0	3	187	0	678	0	12
U. Scranton	578	866	0	0	0	228	568	0	70
National U. of Natural Medicine	579	862	0	0	862	0	0	0	0
Calvin U.	580	854	40	0	134	0	515	0	165
Northwestern State U. Louisiana	581	822 i	0 i	0 i	14 i	0 i	0 i	7 i	801 i
SUNY, C. Brockport	582	813	26	0	0	50	142	0	595
Bentley U.	583	802	0	0	99	0	620	0	83
Eastern Kentucky U.	584	798	0	0	64	0	596	10	128
Rhode Island C.	585	786	98	0	627	0	61	0	0
U. South Carolina, Aiken	586	782	0	126	157	287	21	0	191
Lewis and Clark C.	587	776	0	62	0	0	714	0	0
Arcadia U.	588	772	0	0	54	0	503	0	215
Monmouth U.	589	762	124	0	0	0	153	15	470
U. Puerto Rico, Cayey	590	733	0	0	474	149	110	0	0
SUNY, Cobleskill	591	730	469	0	0	0	0	125	136
Union C., Schenectady	592	729	0	0	26	60	643	0	0
Milwaukee School of Engineering	593	722	0	0	204	26	492	0	0
U. Wisconsin-La Crosse	594	714	29	0	0	28	190	194	273
Framingham State U.	595	700	0	0	0	0	0	700	0
St. Cloud State U.	596	689	8	0	0	4	298	63	316
Stockton U.	597	688	0	0	74	0	45	141	428
Trinity C., Hartford	598	687	0	0	319	6	341	0	21
Edward Via C. of Osteopathic Medicine	599	678	38	0	639	0	1	0	0
Pepperdine U.	600	674	84	0	184	0	378	25	3
Robert Morris U.	601	664	463	15	14	0	170	0	2
Connecticut C.	602	648	34	0	215	0	170	0	229
Franklin W. Olin C. of Engineering	603	641	16	0	126	48	415	0	36
Sacred Heart U.	604	639	0	0	97	0	423	0	119
Alaska Pacific U.	605	627	0	0	0	60	406	7	154
Colorado C.	606	611	0	0	0	44	567	0	0
C. Wooster	607	594	69	0	42	0	470	2	11
Northern Michigan U.	608	560	0	0	40	0	192	0	328
Des Moines U.	609	556	0	0	430	0	4	0	122
U. Wisconsin-River Falls	610	551	0	0	0	0	348	152	51
Western New England U.	611	538	0	3	83	0	341	0	111

TABLE 26

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2023

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
Southern U., New Orleans	612	536	0	0	0	0	0	0	536
Liberty U.	613	532	384	0	148	0	0	0	0
U. of St. Thomas (MN)	614	531	140	0	93	2	291	0	5
Gettysburg C.	615	517	0	0	98	3	412	0	4
U. Puerto Rico, Ponce	616	510	0	0	391	0	69	0	50
West Virginia School of Osteopathic Medicine	617	500 i	0 i	0 i	500 i	0 i	0 i	0 i	0 i
Willamette U.	618	490	0	0	114	0	359	0	17
Elon U.	619	479	51	0	253	0	131	0	44
U. North Georgia	620	477	130	0	0	2	319	26	0
Gustavus Adolphus C.	621	467	0	0	0	0	383	9	75
U. Wisconsin-Platteville	622	465 i	140 i	23 i	89 i	8 i	90 i	70 i	45 i
Ithaca C.	623	453	0	0	74	0	379	0	0
Whitman C.	624	449	24	0	0	0	425	0	0
U. Virginia's C. Wise	625	447	0	0	0	0	376	39	32
Andrews U.	626	445	0	0	0	304	141	0	0
Philadelphia C. of Osteopathic Medicine	627	442	0	0	36	0	406	0	0
Bryant U.	628	436	0	0	257	3	176	0	0
Marshall B. Ketchum U.	629	433 i	50 i	0 i	361 i	0 i	9 i	1 i	12 i
Lincoln U.	630	430	0	0	88	40	228	74	0
Wheaton C., Wheaton	631	428	0	21	160	0	186	0	61
Manhattan C.	632	422	86	0	253	0	68	0	15
Indiana U., South Bend	633	420	0	0	0	0	285	0	135
Hamilton C.	634	413	0	0	0	24	346	0	43
Canisius U.	635	411	212	63	7	0	108	0	21
U. of Mary Washington	636	406	0	0	0	0	149	0	257
Marymount U.	637	396	0	0	83	20	293	0	0
Central Connecticut State U.	638	393	0	0	5	38	22	0	328
Grambling State U.	639	377	40	0	145	16	74	0	102
St. Edward's U.	640	315	0	0	78	24	154	59	0
Lipscomb U.	641	309	0	0	65	12	226	0	6
Pennsylvania State U., Altoona	642	297	0	0	0	0	26	0	271
U.S. Coast Guard Academy	643	278	93	13	0	0	0	0	172
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	644	273	0	0	148	0	125	0	0
Albion C.	645	226	0	0	0	184	42	0	0
Purdue U., Fort Wayne	645	226	0	0	54	31	84	0	57
Babson C.	647	224	0	0	204	0	18	0	2

TABLE 26

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2023

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
Eastern Connecticut State U.	648	210	0	0	0	9	182	1	18
Heidelberg U.	649	197	0	0	0	0	0	111	86
Fairfield U.	650	180	15	0	0	20	145	0	0
William Paterson U.	651	168	0	0	45	0	84	0	39
St. Mary's C. Maryland	652	152	13	0	0	0	101	0	38
New C. Florida	653	146	21	0	0	0	58	45	22
Azusa Pacific U.	654	140	0	0	114	9	7	0	10
Radford U.	655	109	0	0	38	0	24	8	39
C. of Saint Benedict	656	58 i	3 i	0 i	24 i	0 i	26 i	0 i	5 i
Pratt Institute	657	50	0	0	0	0	50	0	0
Roseman U. of Health Sciences	658	38	0	0	38	0	0	0	0
U. California, Office of the President	659	25	0	0	0	0	0	25	0
Lincoln Memorial U.	660	2	0	0	0	0	0	2	0

i = imputed.

DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; USDA = Department of Agriculture.

^a Other includes all other agencies reported.^b Johns Hopkins University includes the Applied Physics Laboratory, with \$2,268,228 thousand in federally financed R&D expenditures in FY 2023.^c The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.^d The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.**Note(s):**Agency-specific rankings are available in [table 60](#) through [table 66](#). Institutions reporting zero federal expenditures for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 27

Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	5,437,566	92,811	256,518	3,161,287	30,663	129,636	59,755	208,838	59,917	961,129	477,012
U. Texas M. D. Anderson Cancer Center	1	300,907	0	0	279,390	8,789	3,337	3,926	5,465	0	0	0
Texas A&M U., College Station and Health Science Center	2	251,300	3,867	4,751	108,777	271	4,961	679	4,868	1,621	107,485	14,020
U. Florida	3	193,910	569	4,104	146,844	255	1,841	1,090	4,193	46	26,871	8,097
North Carolina State U.	4	134,547	2,866	8,698	75,900	2,319	4,281	145	2,261	1,547	33,890	2,640
Georgia Institute of Technology	5	128,291	2,492	4,074	11,069	4,302	12,193	1,829	738	0	87,306	4,288
U. Wisconsin-Madison	6	125,524	1,297	6,781	79,724	347	3,628	877	7,680	4,215	9,973	11,002
Rutgers, State U. New Jersey, New Brunswick	7	117,514	0	4,337	96,883	0	83	1,603	1,286	0	5,880	7,442
U. California, Los Angeles	8	105,632	0	1,797	83,304	49	174	176	7,603	1,001	5,070	6,458
Arizona State U.	9	102,208	3,402	2,043	15,949	91	1,752	466	4,757	5,355	50,387	18,006
U. Texas Southwestern Medical Center	10	95,710	0	0	95,710	0	0	0	0	0	0	0
Cornell U.	11	95,202	57	20	75,771	119	1,120	2,748	3,881	0	4,045	7,441
Mississippi State U.	12	92,674	2,386	1,569	47,340	1,622	4,721	1,392	6,812	1,000	12,058	13,774
Virginia Polytechnic Institute and State U.	13	78,279	5,820	343	51,723	146	22	0	2,312	0	17,817	96
U. California, Davis	14	78,096	128	7,745	45,955	0	529	1	1,560	4	21,026	1,148
U. Minnesota, Twin Cities	15	76,395	222	2,397	55,210	347	695	879	2,388	264	10,524	3,469
U. Nebraska, Lincoln and Medical Center ^a	16	76,042	935	0	64,120	1,433	495	1,254	475	208	5,839	1,283
Louisiana State U., Baton Rouge	17	73,829	2,497	1,762	53,662	689	985	95	2,191	1	10,500	1,447
U. California, San Diego	18	70,790	203	23,654	39,327	905	1,482	0	764	0	1,686	2,769
U. Missouri, Columbia	19	65,868	1,032	129	49,746	132	2,145	485	631	504	3,141	7,923
Ohio State U.	20	64,139	7,740	136	36,471	0	0	163	1,181	2,116	9,267	7,065
U. Georgia	21	61,887	0	4,688	53,202	0	2	108	2,907	0	65	915
U. North Carolina, Chapel Hill	22	61,576	250	8,635	25,354	686	2,402	3,630	2,993	0	10,465	7,161
Washington State U.	23	61,333	86	2,184	35,149	66	5,491	260	3,981	110	8,923	5,083
Oregon State U.	24	57,839	0	2,194	47,311	514	158	0	2,286	43	5,073	260
U. Maryland ^b	25	57,007	181	239	28,410	10	6	0	1,779	0	20,945	5,437
North Dakota State U.	26	51,819	17	0	45,856	0	97	0	1,583	1,910	2,172	184
Pennsylvania State U., University Park and Hershey Medical Center	27	49,379	105	586	39,027	24	61	5	3,354	0	5,455	762
U. Texas Health Science Center, Houston	28	48,815	0	0	48,815	0	0	0	0	0	0	0
U. Idaho	29	47,894	534	2,134	30,581	711	972	292	1,306	2,959	4,370	4,035
Virginia Commonwealth U.	30	47,846	47	0	33,163	4	79	1,742	351	0	4,140	8,320
U. California, Berkeley	31	47,005	0	79	12,156	0	6,508	624	3,502	2,127	16,549	5,460
U. North Dakota	32	46,885	132	422	532	0	85	29	40	2	45,602	41
Michigan State U.	33	46,353	3	0	39,480	0	51	13	2,327	245	1,803	2,431

TABLE 27

Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. California, San Francisco	34	45,056	0	0	44,566	0	490	0	0	0	0	0
U. Kansas	35	44,851	0	688	5,093	0	389	420	17	0	999	37,245
Kansas State U.	36	43,122	103	115	33,709	314	0	44	2,075	2,444	1,583	2,735
Purdue U., West Lafayette	37	42,119	68	0	17,014	0	0	0	190	0	18,443	6,404
U. Arkansas, Fayetteville	38	41,687	935	160	31,876	0	1,022	51	91	0	3,572	3,980
U. California, Office of the President	39	41,345	0	0	41,090	0	0	0	0	0	0	255
U. Texas, Austin	40	37,601	276	2,053	8,035	33	2,588	437	841	0	19,746	3,592
U. Arizona	41	37,173	3,039	2,204	13,099	0	3,864	91	1,250	5,193	7,977	456
Florida State U.	42	36,977	0	479	3,577	0	7,904	1,550	4,332	43	6,175	12,917
Auburn U., Auburn	43	34,950	0	89	31,829	0	0	0	407	0	1,464	1,161
U. Kentucky	44	34,829	0	42	28,964	14	124	0	1,169	0	3,786	730
Iowa State U.	45	34,183	0	164	21,221	245	23	0	2,026	246	9,435	823
Baylor C. of Medicine	46	34,061	0	0	34,061	0	0	0	0	0	0	0
U. Washington, Seattle	47	33,833	0	3,269	9,515	0	2	0	668	0	4,815	15,564
SUNY, U. Buffalo	48	32,647	332	14	18,549	0	12	0	346	0	6,233	7,161
SUNY, Polytechnic Institute	49	31,886	0	0	119	0	0	0	0	0	31,767	0
Stanford U.	50	31,872	0	485	29,559	0	587	0	0	0	942	299
U. Texas Health Science Center, San Antonio	51	30,582	0	0	30,582	0	0	0	0	0	0	0
Clemson U.	52	29,268	3	0	18,754	0	88	0	611	0	1,065	8,747
U. Colorado Anschutz Medical Campus	53	28,973	0	0	28,459	0	0	67	0	0	20	427
U. Houston	54	28,641	778	3,368	5,666	239	3,484	1,786	824	0	5,290	7,206
U. Texas, Arlington	55	28,343	2,277	0	1,875	1,325	2,120	0	0	0	17,258	3,488
Texas Tech U.	56	28,095	501	1,465	11,790	121	903	550	1,071	0	5,098	6,596
U. Pennsylvania	57	27,849	0	0	24,369	0	0	120	2,237	650	0	473
Utah State U.	58	27,831	349	627	18,662	167	100	401	810	0	5,918	797
U. Maryland Center for Environmental Science	59	26,509	0	24,238	2,271	0	0	0	0	0	0	0
U. South Florida	60	25,735	205	2,862	12,456	0	22	486	3,297	0	4,516	1,891
New Mexico State U.	61	24,741	0	1,271	21,182	0	38	0	103	244	1,737	166
U. Illinois, Urbana-Champaign	62	24,473	165	463	12,788	2	414	1,030	311	0	4,546	4,754
Oklahoma State U., Stillwater	63	24,323	31	1,211	17,070	0	148	533	1,159	423	2,272	1,476
Colorado State U., Fort Collins	64	22,951	94	1,660	15,276	84	249	83	1,835	212	1,806	1,652
U. Oklahoma, Norman and Health Science Center	65	22,816	0	661	17,198	0	148	71	1,834	0	2,233	671
Florida International U.	66	21,887	538	3,004	3,394	0	275	9,458	2,047	1,135	1,674	362
U. Texas, San Antonio	67	21,583	2,867	242	3,755	0	1,514	3	1,027	0	2,293	9,882

TABLE 27

Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
New Jersey Institute of Technology	68	19,994	4	0	16,471	0	240	0	0	0	2,948	331
U. California, Irvine	69	19,360	171	692	12,446	0	213	1,178	1,016	0	3,530	114
Wichita State U.	70	19,008	0	0	3,110	0	0	0	348	0	15,549	1
Texas Tech U., Health Sciences Center	71	18,670	0	0	17,373	0	0	0	0	0	0	1,297
Montana State U., Bozeman	72	18,379	0	0	18,061	0	0	0	0	0	104	214
South Dakota State U.	73	17,795	0	126	14,721	0	241	0	866	0	1,631	210
U. Maine	74	17,694	267	3,784	4,961	9	1,384	6	504	2,498	3,706	575
U. Hawaii, Manoa	75	17,555	0	308	15,410	0	0	0	205	72	1,149	411
U. Wisconsin-Milwaukee	76	17,207	173	3,386	1,937	23	1,481	601	2,140	1,705	3,070	2,691
U. Texas, El Paso	77	16,687	408	241	6,922	163	1,540	560	450	2,037	2,545	1,821
U. Alabama, Tuscaloosa	78	16,660	9,591	1,327	0	1,019	0	13	359	0	3,216	1,135
U. Miami	79	16,251	0	2,436	13,766	0	0	19	0	0	30	0
SUNY, Stony Brook U.	80	15,436	613	7,566	1,349	33	172	0	0	1,772	3,820	111
U. Alabama, Birmingham	81	14,884	198	0	10,114	0	561	32	19	0	352	3,608
SUNY, C. of Environmental Science and Forestry	82	14,316	0	336	10,263	1	1,118	1,847	0	0	214	537
U. South Carolina, Columbia	83	13,916	11	0	1,672	3	1,004	1,181	5,272	0	668	4,105
U. Arkansas for Medical Sciences	84	13,854	0	0	13,854	0	0	0	0	0	0	0
Old Dominion U.	85	13,535	596	631	3,018	84	1,067	160	489	0	6,824	666
U. Southern Mississippi	86	13,504	0	3,285	2,308	0	2,260	0	746	0	204	4,701
U. Tennessee, Knoxville	87	13,175	0	163	1,673	3	968	10	829	2,203	7,167	159
U. Delaware	88	13,161	422	1,741	4,871	0	175	1	843	227	4,752	129
U. Virginia, Charlottesville	89	13,101	940	35	4,016	0	81	0	204	0	772	7,053
U. Texas, Dallas	90	13,085	296	0	5,393	2	2,123	1,070	345	0	3,610	246
U. Southern California	91	11,881	0	729	8,909	0	0	0	140	0	312	1,791
CUNY, City C.	92	11,846	0	0	86	0	240	0	0	0	2,200	9,320
West Virginia U.	93	11,687	4	24	8,849	0	442	170	259	0	981	958
U. Louisiana, Lafayette	94	11,605	3,409	88	2,533	77	229	22	712	1,479	2,418	638
U. Massachusetts, Amherst	95	11,465	148	99	2,783	0	0	36	0	0	4,151	4,248
U. Pittsburgh, Pittsburgh	96	11,421	156	182	9,681	0	0	71	290	0	1,029	12
Case Western Reserve U.	97	11,202	142	0	5,383	0	17	0	4,054	0	1,606	0
Texas A&M U.-Corpus Christi	98	10,790	61	1,540	612	0	5	1	0	142	7,434	995
Syracuse U.	99	10,706	72	34	355	0	455	0	1	183	2,462	7,144
U. Mississippi	100	10,670	916	0	5,213	0	7	0	0	0	3,126	1,408
U. California, Riverside	101	10,655	68	555	4,610	0	0	98	1,324	3	3,859	138

TABLE 27

Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Thomas Jefferson U.	102	10,315	0	0	10,315	0	0	0	0	0	0	0
Johns Hopkins U. ^c	103	10,271	95	262	9,503	0	0	0	0	0	119	292
New Mexico Institute of Mining and Technology	104	10,189	731	6,917	0	0	0	0	0	0	2,200	341
U. Texas Health Science Center, Tyler	105	10,087	0	0	10,087	0	0	0	0	0	0	0
California State U., Sacramento	106	10,056	0	5	117	0	0	0	324	5,247	3,328	1,035
Rochester Institute of Technology	107	9,828	383	0	13	0	1,035	0	1,835	0	6,496	66
Rice U.	108	9,801	391	0	1,450	304	2,385	0	135	0	5,136	0
U. Memphis	109	9,680	219	1,211	940	130	0	1,921	676	0	2,653	1,930
New York U.	110	9,599	0	0	7,613	0	0	0	41	0	1,357	588
Florida Gulf Coast U.	111	9,477	0	279	907	55	0	0	163	0	16	8,057
CUNY, Graduate School of Public Health and Health Policy	112	9,353	0	0	9,353	0	0	0	0	0	0	0
U. Illinois, Chicago	113	9,293	1,957	0	3,865	0	14	0	802	0	65	2,590
Northern Arizona U.	114	9,030	548	453	4,537	13	1,986	0	31	543	905	14
U. Louisville	115	8,924	28	0	7,766	0	0	106	7	0	407	610
Florida Atlantic U.	116	8,511	206	36	4,498	161	603	498	52	0	1,526	931
Icahn School of Medicine at Mount Sinai	117	8,359	0	0	8,359	0	0	0	0	0	0	0
U. North Carolina, Wilmington	118	8,296	0	4,383	3,558	21	30	0	157	0	36	111
U. Maryland, Baltimore County	119	8,087	625	135	158	0	21	0	5,968	0	750	430
Fort Valley State U.	120	8,031	0	0	8,031	0	0	0	0	0	0	0
Medical U. South Carolina	121	7,944	0	0	7,944	0	0	0	0	0	0	0
U. Cincinnati	122	7,782	1,959	0	3,003	0	0	0	1,200	0	1,278	342
U. Nevada, Reno	123	7,744	80	1,492	3,230	0	94	0	32	0	2,682	134
U. Alaska, Fairbanks	124	7,674	0	759	497	0	0	0	1,210	100	5,108	0
Wake Forest U.	125	7,673	0	0	7,488	0	0	0	0	0	36	149
U. Iowa	126	7,627	0	964	2,406	0	236	0	30	8	3,139	844
U. Texas Medical Branch	127	7,479	0	0	7,429	0	0	0	0	0	50	0
U. Wyoming	128	7,464	0	2,541	1,423	3	0	0	70	78	2,777	572
U. California, Santa Barbara	129	7,230	1,168	3,484	0	0	488	0	3	638	88	1,361
U. Massachusetts, Boston	130	7,176	0	15	34	0	0	409	1,337	0	1	5,380
San Jose State U.	131	7,116	0	4,399	20	2	144	0	212	0	135	2,204
U. New Mexico	132	7,072	0	0	4,095	0	0	0	2,477	0	500	0
Texas A&M U.-Kingsville	133	7,058	0	2	5,786	0	84	16	0	0	941	229
U. California, Merced	134	6,985	46	288	992	0	83	56	832	247	3,186	1,255
Temple U.	135	6,867	0	237	4,096	0	584	83	320	220	325	1,002

TABLE 27

Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. California, Santa Cruz	136	6,863	3	4,697	1,467	1	27	0	136	0	524	8
U. Tennessee, Health Science Center	137	6,816	0	0	6,133	0	0	0	0	0	683	0
San Diego State U.	138	6,745	319	72	2,742	0	0	1,234	121	0	1,141	1,116
Rowan U.	139	6,659	0	304	2,782	6	0	316	0	0	3,251	0
U. Rhode Island	140	6,615	0	1,633	3,348	0	0	0	7	355	571	701
Wayne State U.	141	6,525	0	0	4,606	0	1	0	1	0	337	1,580
U. Minnesota, Duluth	142	6,410	0	76	5,861	0	0	0	0	0	387	86
Columbia U. in the City of New York	143	6,298	55	505	3,950	0	132	133	338	0	824	361
Lamar U.	144	6,124	201	6	243	0	223	0	194	0	4,990	267
SUNY, Binghamton U.	145	6,115	238	1	0	0	1,091	0	12	0	4,773	0
CUNY, John Jay C. of Criminal Justice	146	6,104	0	0	6	0	0	0	0	0	0	6,098
U. Connecticut	147	5,973	862	35	1,030	0	0	120	987	0	1,160	1,779
U. Central Florida	148	5,893	403	8	2,521	2	181	107	69	0	2,515	87
Indiana U., Bloomington	149	5,804	253	0	3,839	0	0	0	1,564	0	60	88
U. North Texas, Denton	150	5,695	0	73	886	0	0	9	32	0	4,695	0
Tennessee Technological U.	151	5,675	759	0	483	0	0	0	0	0	3,871	562
Morgan State U.	152	5,582	114	0	1,826	0	0	0	88	0	3,314	240
Salisbury U.	153	5,551	0	2,277	1,022	0	0	0	398	0	0	1,854
Montana Technological U.	154	5,503	44	5,307	134	0	0	0	0	0	18	0
Portland State U.	155	5,312	50	54	1,173	0	0	2	2,674	0	501	858
U. Colorado Boulder	156	5,264	45	89	289	0	1,454	0	107	124	1,362	1,794
Alcorn State U.	157	5,206	0	0	2,920	0	0	0	2,286	0	0	0
U. Alabama, Huntsville	158	5,071	3	812	12	0	17	0	40	0	619	3,568
California Polytechnic State U., San Luis Obispo	159	4,997	0	13	2,321	67	29	0	186	0	2,298	83
U. Denver	160	4,909	0	0	57	0	0	99	583	0	92	4,078
West Texas A&M U.	161	4,772	73	0	4,504	0	0	0	0	180	15	0
U. Utah	162	4,670	0	457	1,617	0	0	0	150	0	1,543	903
Texas State U.	163	4,667	0	789	925	0	143	0	185	0	372	2,253
Drexel U.	164	4,464	0	0	3,594	0	91	33	31	69	420	226
U. Massachusetts, Lowell	165	4,420	0	0	166	0	755	26	270	0	2,380	823
Georgia State U.	166	4,392	1	0	98	0	18	108	1,714	0	0	2,453
Tarleton State U.	166	4,392	46	1,781	1,751	0	3	0	15	106	149	541
Prairie View A&M U.	168	4,391	8	0	1,879	0	9	0	0	0	59	2,436
U. Texas Rio Grande Valley	169	4,367	210	0	3,506	0	0	85	148	0	0	418

TABLE 27

Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
George Mason U.	170	4,311	1,571	15	303	0	13	40	596	0	1,595	178
Harvard U.	171	4,250	44	122	1,267	0	0	0	2,107	0	645	65
Tulane U.	172	4,121	51	151	3,349	98	97	0	37	0	269	69
Delaware State U.	173	4,093	0	447	3,540	0	0	106	0	0	0	0
Kentucky State U.	174	3,969	0	0	3,969	0	0	0	0	0	0	0
Teachers C., Columbia U.	175	3,953	0	0	332	0	0	0	3,621	0	0	0
Creighton U.	176	3,943	118	0	2,920	29	199	42	246	0	0	389
Oregon Institute of Technology	177	3,931	110	294	2,681	73	0	104	0	0	669	0
Clarkson U.	178	3,910	0	100	77	336	870	11	30	0	1,306	1,180
U. Chicago	179	3,902	0	0	141	0	0	0	3,687	0	0	74
William & Mary	180	3,882	356	2,129	8	0	78	0	350	0	0	961
California Institute of Technology	181	3,870	0	3,537	0	0	118	0	0	0	215	0
Nova Southeastern U.	182	3,862	0	3,738	124	0	0	0	0	0	0	0
Central State U.	183	3,857	0	0	3,857	0	0	0	0	0	0	0
Vanderbilt U. and Vanderbilt U. Medical Center	184	3,821	0	0	2,296	0	0	0	6	0	4	1,515
U. Rochester	185	3,666	0	203	737	0	1,729	0	0	0	0	997
Carnegie Mellon U.	186	3,623	397	0	0	0	19	230	0	0	2,977	0
Tuskegee U.	187	3,565	0	0	3,565	0	0	0	0	0	0	0
Lincoln U., Jefferson City	188	3,552	0	714	2,621	0	0	0	217	0	0	0
Southern Illinois U., Carbondale	189	3,522	5	6	1,723	0	0	121	229	69	102	1,267
Boise State U.	190	3,473	999	311	674	0	891	0	95	0	477	26
Arkansas State U., Jonesboro	191	3,419	74	0	3,198	0	3	0	0	0	98	46
California State Polytechnic U., Humboldt	192	3,338	0	15	833	0	692	0	124	346	1,275	53
Northeastern U.	193	3,336	0	0	376	0	0	0	582	0	2,012	366
Scripps Research Institute	194	3,331	0	0	3,331	0	0	0	0	0	0	0
Rensselaer Polytechnic Institute	195	3,289	0	14	11	0	328	0	0	0	2,485	451
U. Nebraska, Omaha	196	3,184	625	26	1,070	53	83	1	632	133	511	50
U. North Texas, Health Science Center	197	3,180	0	0	3,180	0	0	0	0	0	0	0
Texas Tech U., Health Sciences Center, El Paso	198	3,097	0	0	3,097	0	0	0	0	0	0	0
U. Southern Maine	199	3,070	1,736	0	505	0	0	0	443	82	103	201
Oakland U.	200	3,066	214	0	493	0	1,148	16	0	0	1,002	193
Virginia State U.	201	3,051	102	0	2,756	0	0	0	0	0	0	193
Idaho State U.	202	3,042	414	301	722	27	101	0	8	544	922	3
CUNY, Hunter C.	203	3,037	0	858	636	0	337	0	0	0	0	1,206

TABLE 27

Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Southern U. and A&M C., Agricultural Research and Extension Center	203	3,037	0	0	3,037	0	0	0	0	0	0	0
Indiana U.-Purdue U., Indianapolis	205	3,029	0	94	238	0	0	0	458	0	16	2,223
U. Massachusetts, Medical School	206	2,975	0	0	2,975	0	0	0	0	0	0	0
U. Massachusetts, Dartmouth	207	2,933	0	1,664	568	0	127	0	0	0	574	0
Cleveland State U.	208	2,913	0	0	52	0	4	0	2,542	0	65	250
East Tennessee State U.	209	2,889	0	262	2,488	0	0	0	48	0	87	4
Baylor U.	210	2,879	49	884	1,159	0	158	264	0	0	99	266
Florida A&M U.	211	2,851	0	21	2,493	0	0	1	6	0	4	326
Howard U.	212	2,840	0	0	2,076	0	52	0	0	0	696	16
California State U., San Bernardino	213	2,799	0	0	820	177	45	599	217	0	935	6
South Dakota School of Mines and Technology	214	2,673	44	0	0	0	621	0	0	0	2,008	0
Seton Hall U.	215	2,633	0	0	569	0	1,159	0	0	0	0	905
Van Andel Research Institute	216	2,597	0	0	2,597	0	0	0	0	0	0	0
U. Nevada, Las Vegas	217	2,536	0	16	576	0	9	0	643	0	430	862
Boston C.	218	2,517	0	0	219	0	0	0	2,063	0	0	235
Miami U.	219	2,483	0	0	1,320	11	0	0	224	0	741	187
Lehigh U.	220	2,479	7	17	104	0	0	29	0	0	2,281	41
Illinois State U.	221	2,429	5	45	50	0	5	0	609	0	0	1,715
U. Colorado Denver	222	2,387	17	0	632	58	0	0	67	0	450	1,163
Tufts U.	223	2,328	0	0	312	0	0	20	1,044	0	723	229
U. Guam	224	2,252	0	0	2,252	0	0	0	0	0	0	0
SUNY, Upstate Medical U.	225	2,231	0	0	2,231	0	0	0	0	0	0	0
Louisiana Tech U.	226	2,220	209	0	220	22	180	12	0	0	1,100	477
Rush U.	227	2,208	0	0	2,208	0	0	0	0	0	0	0
American U.	228	2,193	0	0	0	0	0	0	510	384	0	1,299
U. Alaska, Anchorage	229	2,175	55	145	731	0	62	0	723	75	231	153
Bowling Green State U.	230	2,160	0	92	862	0	62	0	1,140	0	0	4
Worcester Polytechnic Institute	231	2,141	0	0	0	0	0	0	8	0	1,981	152
Texas Woman's U.	232	2,136	0	0	1,120	154	104	432	326	0	0	0
California State U., Monterey Bay	233	2,125	614	655	810	0	0	0	46	0	0	0
Massachusetts Institute of Technology	234	2,079	0	0	0	0	0	0	0	0	2,060	19
North Carolina A&T State U.	235	2,075	0	0	115	0	0	0	0	95	548	1,317
Stevens Institute of Technology	236	2,069	0	0	0	0	0	0	0	0	1,590	479
Albert Einstein C. of Medicine	237	2,032	0	0	2,032	0	0	0	0	0	0	0

TABLE 27

Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
San Francisco State U.	238	1,978	0	631	820	5	0	333	20	169	0	0
U. Michigan, Ann Arbor	239	1,934	0	0	584	0	0	0	499	0	705	146
California State U., Long Beach	240	1,930	39	72	641	118	0	0	135	0	526	399
U. North Carolina, Charlotte	241	1,922	0	38	376	0	0	13	13	0	542	940
George Washington U.	242	1,890	0	0	1,403	0	0	0	81	0	100	306
Rutgers, State U. New Jersey, Camden	243	1,842	0	0	0	0	0	15	1,827	0	0	0
SUNY, Cobleskill	244	1,832	0	0	0	0	0	0	0	0	1,832	0
U. Wisconsin-River Falls	244	1,832	0	0	1,737	0	0	0	0	0	0	95
U. Baltimore	246	1,819	18	0	0	0	0	0	1,801	0	0	0
Colorado School of Mines	247	1,804	4	166	54	0	454	0	0	0	1,007	119
West Virginia State U.	247	1,804	0	0	1,804	0	0	0	0	0	0	0
U. South Dakota	249	1,798	0	0	854	0	495	0	0	0	225	224
Georgetown U.	250	1,719	0	0	764	0	0	0	437	0	0	518
Yale U.	251	1,710	0	0	1,684	0	0	0	0	0	26	0
Southern Illinois U., Edwardsville	252	1,684	129	0	564	0	90	0	0	353	548	0
U. Oregon	253	1,674	0	7	182	0	0	583	43	0	0	859
Desert Research Institute	254	1,657	0	1,657	0	0	0	0	0	0	0	0
Stephen F. Austin State U.	255	1,648	26	69	984	10	4	0	31	0	0	524
Western U. of Health Sciences	256	1,635	0	0	31	0	0	0	0	0	0	1,604
U. Toledo	257	1,615	0	186	476	0	94	0	0	0	298	561
Marshall U.	258	1,606	0	1	793	0	71	0	0	0	144	597
Alfred U.	259	1,596	0	0	0	0	0	0	0	0	1,596	0
South Carolina State U.	260	1,531	460	0	261	0	0	0	435	0	375	0
U. Montana, Missoula	261	1,511	0	66	1,303	13	90	13	14	0	0	12
Western Washington U.	262	1,504	0	644	17	0	173	10	145	372	100	43
U. North Florida	263	1,436	0	0	127	0	0	0	98	0	370	841
East Stroudsburg U. Pennsylvania	264	1,421	0	0	1,421	0	0	0	0	0	0	0
Villanova U.	265	1,405	0	16	59	0	0	0	0	0	1,305	25
California State U., Fresno	266	1,394	0	0	616	157	0	0	96	0	525	0
Southern Methodist U.	267	1,393	0	221	186	63	0	0	0	0	244	679
U. Washington, Tacoma	267	1,393	0	1,393	0	0	0	0	0	0	0	0
Austin Peay State U.	269	1,385	0	581	288	0	0	9	0	0	0	507
Oregon Health and Science U.	270	1,348	0	0	1,348	0	0	0	0	0	0	0
CUNY, Queens C.	271	1,345	0	34	1,311	0	0	0	0	0	0	0

TABLE 27

Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
New York Medical C.	272	1,326	0	0	1,326	0	0	0	0	0	0	0
Northern Illinois U.	273	1,299	0	9	1,127	0	0	5	158	0	0	0
U. Arkansas, Pine Bluff	274	1,294	0	0	1,165	0	0	0	0	114	0	15
U. Dayton	275	1,274	52	10	0	0	0	0	0	0	445	767
Princeton U.	276	1,252	0	55	594	0	0	53	0	0	481	69
Michigan Technological U.	277	1,236	0	130	247	0	0	0	10	113	736	0
Texas Southern U.	278	1,227	0	0	1,068	0	91	0	0	0	0	68
Sul Ross State U.	279	1,223	0	0	1,223	0	0	0	0	0	0	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	280	1,216	0	792	0	0	0	25	44	0	231	124
Eastern Washington U.	281	1,198	0	0	0	0	0	0	1,198	0	0	0
Tennessee State U.	282	1,177	898	0	115	0	0	0	0	0	164	0
California State U., San Marcos	283	1,171	16	0	809	0	133	150	46	17	0	0
Wright State U.	284	1,158	125	221	22	0	51	15	0	0	711	13
California State U., Northridge	285	1,152	0	57	852	0	2	0	78	0	0	163
Catholic U. of America	286	1,147	0	0	0	0	0	0	0	0	99	1,048
Brigham Young U., Provo	287	1,145	136	34	36	0	0	12	31	0	657	239
California State U., Chico	288	1,130	0	0	810	0	87	0	2	0	128	103
Saint Joseph's U.	289	1,129	0	0	154	0	0	146	0	0	0	829
Pacific U.	290	1,098	0	0	1,098	0	0	0	0	0	0	0
Loyola Marymount U.	291	1,096	0	0	0	0	0	669	88	0	0	339
California State U., Channel Islands	292	1,086	0	82	866	0	0	0	42	23	0	73
North Carolina Central U.	293	1,085	52	19	113	0	142	0	41	74	255	389
Rutgers, State U. New Jersey, Newark	294	1,073	0	1	709	0	0	95	77	0	0	191
Duquesne U.	295	1,055	0	0	296	0	0	0	0	0	0	759
Ohio U.	296	1,041	0	33	164	0	0	0	50	0	794	0
U. New Hampshire	297	1,031	0	124	559	0	0	0	205	0	143	0
Kent State U.	298	1,021	0	69	289	90	76	151	145	30	138	33
SUNY, U. Albany	299	1,019	0	735	103	26	0	0	28	0	66	61
Texas A&M International U.	300	1,011	0	41	156	0	8	62	4	0	55	685
U. of the Virgin Islands	301	1,010	0	121	889	0	0	0	0	0	0	0
Coastal Carolina U.	302	1,004	0	865	57	0	0	0	0	0	71	11
Purdue U., Northwest	303	996	0	0	263	0	0	2	0	118	7	606
Morehouse School of Medicine	304	987	0	0	987	0	0	0	0	0	0	0
U. Texas, Tyler	305	960	0	1	802	0	14	0	10	0	93	40

TABLE 27

Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Wisconsin-Stevens Point	306	948	0	241	707	0	0	0	0	0	0	0
Lawrence Technological U.	307	937	0	0	0	0	0	0	0	0	126	811
Northwestern State U. Louisiana	308	936	i 111	0	i 144	i 19	i 0	i 6	i 129	i 0	i 7	i 520
James Madison U.	309	925	251	0	126	15	0	16	28	17	36	436
U. New Orleans	310	897	86	21	175	20	86	121	40	0	99	249
U. Tennessee, Chattanooga	311	893	13	0	149	202	55	0	200	4	270	0
Pennsylvania State U., Harrisburg	312	887	0	0	8	0	0	0	92	0	8	779
Charles R. Drew U. of Medicine and Science	313	886	0	0	886	0	0	0	0	0	0	0
Woods Hole Oceanographic Institution	314	882	0	i 882	0	0	0	0	0	0	0	0
California State Polytechnic U., Pomona	315	881	1	0	567	0	75	0	0	0	171	67
Pratt Institute	316	878	0	0	0	0	0	0	0	0	0	878
California State U., Dominguez Hills	317	870	0	58	254	0	0	0	558	0	0	0
CUNY, Brooklyn C.	318	838	0	838	0	0	0	0	0	0	0	0
U. Central Oklahoma	319	833	i 18	0	i 422	i 8	i 60	i 13	i 41	i 0	i 86	i 185
Texas A&M U.-Commerce	320	809	0	0	336	0	0	0	0	0	0	473
DePaul U.	321	807	0	0	417	0	0	177	45	0	0	168
U. Wisconsin-La Crosse	322	804	13	7	231	4	166	6	161	6	0	210
Heidelberg U.	323	799	0	799	0	0	0	0	0	0	0	0
Western Kentucky U.	324	790	0	0	301	14	230	0	10	0	188	47
Duke U.	325	773	0	44	719	0	0	0	10	0	0	0
Florida Institute of Technology	326	768	0	470	0	0	32	0	0	0	266	0
SUNY, Buffalo State U.	327	765	0	0	735	0	0	0	30	0	0	0
CUNY, Advanced Science Research Center	328	761	0	256	0	0	505	0	0	0	0	0
Medical C. Wisconsin	329	754	0	0	754	0	0	0	0	0	0	0
Loma Linda U.	330	745	0	0	745	0	0	0	0	0	0	0
Suffolk U.	331	737	0	0	0	0	0	0	0	0	0	737
Xavier U. Louisiana	332	722	1	0	637	0	84	0	0	0	0	0
U. Notre Dame	333	712	0	0	372	0	11	0	65	0	115	149
Stockton U.	334	711	0	313	0	0	0	0	398	0	0	0
New School	335	708	0	0	690	0	0	0	0	0	0	18
Montclair State U.	336	707	0	155	237	0	0	0	315	0	0	0
U. San Diego	337	684	0	0	17	0	0	0	8	0	4	655
U. South Alabama	338	683	0	576	35	0	0	0	0	0	72	0
Missouri U. of Science and Technology	339	682	0	0	46	3	0	0	0	0	633	0

TABLE 27

Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields										
Texas Christian U.	340	658	0	0	43	0	0	0	0	0	0	615										
Monmouth U.	341	657	0	657	0	0	0	0	0	0	0	0										
Central Washington U.	342	650	0	303	283	0	0	0	59	0	5	0										
Saint Louis U.	343	646	0	0	553	0	0	0	0	0	0	93										
Pittsburg State U.	344	633	0	0	15	0	0	0	0	0	618	0										
U. Vermont	345	632	26	49	130	0	0	0	0	360	67	0										
U. New Haven	346	629	0	36	0	0	0	0	593	0	0	0										
U. Washington, Bothell	347	617	0	0	290	0	0	0	113	0	142	72										
U. Nebraska, Kearney	348	590	22	0	115	2	273	33	16	0	0	129										
Northwestern U.	349	586	0	0	569	0	0	0	0	17	0	0										
U. of the Pacific	349	586	87	0	400	0	0	0	0	0	99	0										
Sonoma State U.	351	585	0	100	233	5	111	0	96	25	15	0										
U. Central Arkansas	352	583	0	0	184	0	5	0	2	0	0	392										
Sam Houston State U.	353	579	0	0	114	0	0	43	206	0	0	216										
Norfolk State U.	354	574	149	0	33	0	0	0	322	0	0	70										
Washington U., Saint Louis	355	571	0	0	571	0	0	0	0	0	0	0										
Kennesaw State U.	356	563	0	0	219	0	0	0	0	0	159	185										
Occidental C.	357	559	i	0	i	312	i	61	i	0	i	0	i									
U. Wisconsin-Green Bay	358	556	13	i	19	i	320	i	4	i	25	i	8	i	24	i	0	i	89	i	54	i
U. North Carolina, Asheville	359	547	0	2	159	0	0	0	0	0	0	386										
U. West Florida	360	542	97	0	236	0	0	0	84	0	0	125										
U. Northern Iowa	361	541	0	0	134	0	10	0	358	0	0	39										
Fayetteville State U.	362	536	i	83	i	0	i	121	i	0	i	0	i	297	i							
Indiana U. Pennsylvania	363	532	0	0	232	0	33	72	25	121	0	49										
U. San Francisco	363	532	0	32	46	0	0	0	0	0	0	454										
Hobart and William Smith Colleges	365	526	0	0	526	0	0	0	0	0	0	0										
U. Texas of the Permian Basin	366	525	0	0	14	0	13	0	162	0	49	287										
U. Central del Caribe	367	524	0	0	524	0	0	0	0	0	0	0										
Georgia Southern U.	368	521	12	0	189	0	19	0	224	0	77	0										
California State U., Stanislaus	369	513	0	0	181	0	0	0	332	0	0	0										
U. Wisconsin-Eau Claire	370	509	0	140	1	0	336	0	32	0	0	0										
Boston U.	371	500	0	68	286	0	0	0	20	0	0	126										
U. of St. Thomas (MN)	372	499	2	0	28	0	132	0	0	0	337	0										
Middle Tennessee State U.	373	488	0	0	67	0	0	0	0	0	0	421										

TABLE 27

Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Southern U., New Orleans	374	460	0	0	0	0	0	0	0	0	0	460
Purdue U., Fort Wayne	375	455	0	0	12	0	0	0	47	0	0	396
Grand Valley State U.	376	450	0	146	72	0	0	0	0	0	152	80
Wellesley C.	377	449	39	1	0	140	44	0	0	0	0	225
Louisiana State U., Health Sciences Center, New Orleans	378	447	0	0	447	0	0	0	0	0	0	0
California State U., East Bay	379	433	0	247	79	0	0	0	107	0	0	0
CUNY, Graduate Center	380	428	0	0	0	0	0	0	58	0	0	370
U. Illinois, Springfield	381	426	0	0	0	0	0	0	409	0	0	17
CUNY, system office	382	413	0	0	0	0	0	0	0	0	413	0
Brandeis U.	383	406	0	0	0	0	0	0	406	0	0	0
U. Puerto Rico, Medical Sciences Campus	383	406	0	0	406	0	0	0	0	0	0	0
Elizabeth City State U.	385	403	318	0	0	0	0	0	85	0	0	0
Ball State U.	386	396	0	0	118	1	0	69	16	0	0	192
Pennsylvania State U., Behrend	387	388	1	0	216	0	34	0	2	0	114	21
U. of the District of Columbia	388	384	0	0	26	0	0	0	50	0	8	300
Morehead State U.	389	381	0	0	61	0	0	123	0	0	197	0
U. Wisconsin-Platteville	390	378	7	0	177	5	20	7	35	5	44	78
Winston-Salem State U.	391	374	374	0	0	0	0	0	0	0	0	0
Santa Clara U.	392	372	0	0	98	0	0	0	224	0	50	0
East Carolina U.	393	371	0	72	154	0	0	0	13	0	55	77
U. Louisiana, Monroe	393	371	0	0	342	0	29	0	0	0	0	0
Towson U.	395	369	0	0	39	0	170	38	0	0	0	122
Drake U.	396	368	0	0	90	0	0	0	0	0	0	278
U. Virginia's C. Wise	397	367	10	0	2	0	0	0	8	0	0	347
U. North Carolina, Greensboro	398	363	0	0	62	0	21	0	59	0	0	221
Claremont Graduate U.	399	354	0	0	0	0	0	0	120	0	0	234
Western Carolina U.	400	337	0	41	76	0	0	0	0	0	220	0
U. Missouri, Kansas City	401	336	0	0	1	0	0	135	0	0	9	191
U. Oklahoma, Tulsa	402	330	0	0	12	0	0	0	0	0	258	60
Eastern Virginia Medical School	403	329	0	0	329	0	0	0	0	0	0	0
U. Tulsa	404	306	0	32	79	0	21	3	0	0	171	0
St. Cloud State U.	405	305	0	0	188	0	0	0	34	0	0	83
Chapman U.	406	303	0	0	64	0	0	228	0	0	0	11
Virginia Military Institute	407	296	291	0	5	0	0	0	0	0	0	0

TABLE 27

Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Louisiana State U., Health Sciences Center, Shreveport	442	158	0	0	158	0	0	0	0	0	0	0
SUNY, C. Brockport	443	155	0	0	155	0	0	0	0	0	0	0
California State U., Bakersfield	444	154	0	14	3	0	68	0	27	0	21	21
Illinois Institute of Technology	444	154	0	0	119	0	0	0	0	0	35	0
Western Illinois U.	446	144	0	0	41	0	0	0	0	0	0	103
Bowie State U.	447	143	0	0	0	0	0	0	0	0	0	143
Florida Polytechnic U.	448	141	0	0	0	0	0	0	8	0	133	0
Edward Via C. of Osteopathic Medicine	449	136	0	0	136	0	0	0	0	0	0	0
Southern Connecticut State U.	449	136	0	11	0	0	0	0	0	114	0	11
U. Wisconsin-Oshkosh	449	136	0	0	68	0	41	0	0	0	1	26
Radford U.	452	135	9	0	18	0	0	0	108	0	0	0
Appalachian State U.	453	134	0	0	115	0	8	0	11	0	0	0
Kean U.	453	134	86	0	32	0	0	0	16	0	0	0
U. North Georgia	455	131	0	13	0	0	0	0	118	0	0	0
Ithaca C.	456	130	0	130	0	0	0	0	0	0	0	0
Lincoln U.	457	126	0	0	0	0	0	0	0	0	0	126
Mount Holyoke C.	458	125	0	0	0	0	0	0	0	0	0	125
New York Institute of Technology	458	125	113	0	0	0	0	0	0	0	0	12
Eastern Kentucky U.	460	124	0	0	61	0	9	0	54	0	0	0
Albany Medical C.	461	120	0	0	120	0	0	0	0	0	0	0
Dillard U.	462	117	0	0	117	0	0	0	0	0	0	0
U. Alaska, Southeast	462	117	0	0	61	0	0	0	0	0	56	0
Ursinus C.	464	112	0	0	0	0	112	0	0	0	0	0
California State U., Los Angeles	465	108	0	0	26	0	82	0	0	0	0	0
Albany State U.	466	106	0	0	0	0	0	0	0	0	106	0
Roger Williams U.	467	102	0	13	28	0	0	0	0	0	61	0
Rockefeller U.	468	101	0	0	63	0	38	0	0	0	0	0
Midwestern U.	469	92	0	0	92	0	0	0	0	0	0	0
Ferris State U.	470	88	0	0	0	0	24	0	0	0	0	64
Missouri State U.	471	84	0	0	84	0	0	0	0	0	0	0
Indiana State U.	472	83	0	0	83	0	0	0	0	0	0	0
Black Hills State U.	473	82	0	0	72	0	0	0	0	0	0	10
U. Missouri, Saint Louis	473	82	0	0	0	0	0	0	24	0	0	58
Troy U.	475	81	0	1	0	0	0	0	12	0	0	68

TABLE 27

Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Puerto Rico, Rio Piedras	475	81	0	0	0	0	0	0	81	0	0	0
U. Wisconsin-Superior	475	81	0	0	0	0	0	0	0	0	0	81
Robert Morris U.	478	79	0	0	0	0	0	0	0	0	61	18
Seattle U.	479	78	0	0	5	0	0	0	0	0	0	73
CUNY, Baruch C.	480	77	0	0	52	0	0	0	0	0	0	25
Northern Kentucky U.	480	77	0	0	13	33	24	2	0	0	0	5
Southern U. and A&M C., Baton Rouge	482	75	0	0	12	0	31	0	0	0	32	0
C. New Jersey	483	72	0	0	62	0	0	0	0	0	10	0
Eastern Michigan U.	483	72	0	0	0	0	0	0	15	0	0	57
Bowdoin C.	485	71	0	71	0	0	0	0	0	0	0	0
Calvin U.	486	68	0	0	0	0	0	0	30	0	38	0
Claremont McKenna C.	487	62	0	0	0	0	0	62	0	0	0	0
Rosalind Franklin U. of Medicine and Science	487	62	0	0	62	0	0	0	0	0	0	0
Bucknell U.	489	61	0	0	26	0	0	0	0	0	35	0
Philadelphia C. of Osteopathic Medicine	490	59	0	0	59	0	0	0	0	0	0	0
Macalester C.	491	58	0	0	58	0	0	0	0	0	0	0
Mercer U.	491	58	0	0	51	0	0	0	0	0	7	0
U. of Mary Washington	493	57	52	0	5	0	0	0	0	0	0	0
New England C. of Optometry	494	56	0	0	56	0	0	0	0	0	0	0
West Chester U. Pennsylvania	495	54	0	0	13	0	0	0	41	0	0	0
Western New England U.	495	54	0	0	0	0	0	0	0	0	54	0
Winthrop U.	495	54	0	0	0	54	0	0	0	0	0	0
Grambling State U.	498	52	52	0	0	0	0	0	0	0	0	0
Central Connecticut State U.	499	51	0	0	17	0	18	0	16	0	0	0
Texas A&M U.-San Antonio	499	51	10	0	2	0	0	0	0	32	0	7
SUNY, Oswego	501	49	0	3	0	0	0	0	46	0	0	0
Dartmouth C. and Dartmouth Hitchcock Medical Center	502	46	0	0	46	0	0	0	0	0	0	0
Reed C.	503	44	0	0	18	0	5	2	6	0	0	13
U. South Carolina, Beaufort	504	43	0	43	0	0	0	0	0	0	0	0
Azusa Pacific U.	505	40	0	0	0	0	0	40	0	0	0	0
Northland C.	505	40	0	2	18	0	0	2	5	0	0	13
Oklahoma State U., Center for Health Sciences	505	40	0	0	40	0	0	0	0	0	0	0
Nevada State C.	508	33	0	33	0	0	0	0	0	0	0	0
Brown U.	509	32	0	0	27	0	0	0	0	0	0	5

TABLE 27

Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Furman U.	509	32	0	0	32	0	0	0	0	0	0	0
St. Mary's C. Maryland	511	31	0	31	0	0	0	0	0	0	0	0
CUNY, New York City C. of Technology	512	30	0	0	0	30	0	0	0	0	0	0
Marymount U.	513	29	0	0	29	0	0	0	0	0	0	0
Murray State U.	513	29	0	0	24	0	0	0	0	0	0	5
U. Colorado Colorado Springs	513	29	0	0	0	0	29	0	0	0	0	0
Gallaudet U.	516	25	0	25	0	0	0	0	0	0	0	0
Northern Michigan U.	516	25	0	0	25	0	0	0	0	0	0	0
Fort Lewis C.	518	23	0	0	23	0	0	0	0	0	0	0
Lafayette C.	518	23	0	0	0	0	0	0	23	0	0	0
U. Hawaii, Hilo	520	22	0	0	16	0	0	0	6	0	0	0
Pace U.	521	20	0	0	0	0	0	0	0	0	20	0
Vassar C.	521	20	0	0	20	0	0	0	0	0	0	0
Langston U.	523	19	0	0	0	0	0	0	0	0	0	19
United Tribes Technical C.	523	19	0	0	0	0	0	0	0	0	19	0
Savannah State U.	525	18	0	0	0	0	0	0	18	0	0	0
West Virginia School of Osteopathic Medicine	526	12 i	0 i	0 i	12 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Davidson C.	527	11	0	0	0	0	11	0	0	0	0	0
Middlebury C.	528	10	10	0	0	0	0	0	0	0	0	0
Gustavus Adolphus C.	529	9	0	0	0	0	9	0	0	0	0	0
Oberlin C.	529	9	0	9	0	0	0	0	0	0	0	0
SUNY, Geneseo	529	9	0	0	9	0	0	0	0	0	0	0
U. Hartford	532	8	0	0	0	0	0	0	8	0	0	0
Des Moines U.	533	7	0	0	0	0	0	0	0	0	0	7
Pennsylvania State U., Altoona	534	6	0	0	0	0	6	0	0	0	0	0
Swarthmore C.	534	6	0	0	0	0	0	6	0	0	0	0
Liberty U.	536	5	0	0	5	0	0	0	0	0	0	0
Norwich U.	536	5	0	0	0	0	0	0	0	0	3	2
Keck Graduate Institute	538	4	0	0	3	0	0	0	0	0	1	0
Tougaloo C.	538	4 i	0 i	0 i	0 i	1 i	0 i	1 i	1 i	1 i	0 i	0 i
Indiana U., South Bend	540	3	0	0	0	0	0	0	3	0	0	0
Trinity U.	541	2	0	0	2	0	0	0	0	0	0	0
U. New England	541	2	0	2	0	0	0	0	0	0	0	0
U. Scranton	541	2	0	0	2	0	0	0	0	0	0	0

TABLE 27

Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Lewis and Clark C.	544	1	0	0	0	0	0	0	1	0	0	0
Pepperdine U.	544	1	0	0	1	0	0	0	0	0	0	0

i = imputed.

nec = not elsewhere classified; S&E = science and engineering.

^a The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^c Johns Hopkins University includes the Applied Physics Laboratory, with \$207 thousand in state and local government-financed R&D expenditures in FY 2023.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 28

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	27,654,829	746,035	744,177	14,981,678	293,464	1,520,045	462,658	1,444,371	518,241	3,329,879	3,614,281
U. Michigan, Ann Arbor	1	679,205	7,997	8,446	350,016	13,066	22,861	11,998	91,082	2,588	74,674	96,477
U. Pennsylvania	2	642,815	6,250	1,337	407,267	2,869	18,026	4,366	36,905	8,336	47,236	110,223
U. Wisconsin-Madison	3	542,782	5,745	21,696	353,636	1,616	21,929	3,377	23,906	11,051	43,586	56,240
U. California, San Francisco	4	505,006	0	0	495,638	0	9,368	0	0	0	0	0
Harvard U.	5	488,906	15,354	6,382	209,445	2,113	39,847	4,262	70,409	11,874	38,890	90,330
Ohio State U.	6	424,124	6,180	2,931	309,936	1,639	7,996	1,382	9,363	11,921	46,346	26,430
U. North Carolina, Chapel Hill	7	407,817	3,087	7,568	317,122	1,191	12,538	16,590	16,429	139	10,252	22,901
Yale U.	8	404,706	3,261	4,267	341,160	1,409	21,243	3,390	11,748	829	12,511	4,888
U. Maryland ^a	9	401,833	29,757	7,702	237,290	1,545	29,966	1,089	17,906	357	44,248	31,973
U. Florida	10	389,065	6,885	3,554	309,763	542	9,729	2,153	4,677	4,529	29,724	17,509
U. Minnesota, Twin Cities	11	386,198	13,437	2,858	269,213	1,635	10,431	7,238	10,917	2,930	34,129	33,410
Vanderbilt U. and Vanderbilt U. Medical Center	12	357,729	6,416	2,067	215,304	1,600	12,531	7,115	22,215	0	24,162	66,319
U. California, Los Angeles	13	354,575	2,101	4,851	234,100	1,217	9,413	2,594	39,265	16,640	17,085	27,309
Texas A&M U., College Station and Health Science Center	14	353,916	5,647	15,137	146,145	2,168	18,778	3,149	8,250	5,460	129,149	20,033
New York U.	15	327,502	1,540	76	248,299	2,136	2,144	1,601	10,248	0	10,113	51,345
U. Pittsburgh, Pittsburgh	16	315,634	3,487	2,702	261,652	1,112	11,182	2,712	1,852	5,805	21,621	3,509
Arizona State U.	17	310,531	5,360	12,065	54,770	902	20,020	5,236	44,066	9,147	87,720	71,245
U. Arizona	18	304,671	7,032	15,979	155,038	4,115	43,454	1,197	12,755	4,836	32,916	27,349
Northwestern U.	19	303,778	3,375	682	188,775	839	36,035	1,426	9,169	7,333	27,653	28,491
Indiana U., Bloomington	20	303,085	11,316	3,457	194,860	602	10,026	6,389	28,881	10,567	4,707	32,280
Michigan State U.	21	300,588	7,983	3,745	136,185	4,587	51,084	4,684	17,950	10,302	37,739	26,329
Baylor C. of Medicine	22	282,695	0	0	282,695	0	0	0	0	0	0	0
Emory U.	23	279,302	1,948	566	242,485	254	13,060	1,262	3,186	0	4,376	12,165
Cornell U.	24	276,682	7,033	871	166,682	575	19,728	3,590	12,369	0	36,364	29,470
Purdue U., West Lafayette	25	267,313	7,976	2,513	119,674	1,426	13,115	1,823	7,763	2,045	87,443	23,535
Pennsylvania State U., University Park and Hershey Medical Center	26	265,205	17,107	4,313	81,725	3,038	33,730	9,965	16,029	0	77,945	21,353
U. Georgia	27	257,757	3,157	11,297	116,778	5,509	6,418	9,995	21,750	7,717	12,531	62,605
U. Texas M. D. Anderson Cancer Center	28	256,545	0	0	230,293	2,826	6,965	8,011	8,450	0	0	0
U. California, San Diego	29	250,973	2,169	23,766	168,425	815	10,603	1,072	7,212	0	26,408	10,503
Rockefeller U.	30	244,237	8,060	125	232,399	1,127	2,526	0	0	0	0	0
U. California, Davis	31	244,082	384	16,285	161,377	300	9,350	550	16,218	10,463	25,140	4,015
U. California, Berkeley	32	242,494	3,835	2,458	68,208	2,479	23,736	4,758	38,045	22,723	37,508	38,744

TABLE 28

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Southern California	33	239,488	3,221	3,360	186,092	139	2,370	237	10,453	0	6,771	26,845
U. Texas, Austin	34	235,987	13,495	32,646	58,695	6,669	37,119	2,844	8,335	5,646	43,287	27,251
U. Illinois, Urbana-Champaign	35	234,686	26,466	7,537	82,041	1,245	16,736	5,072	4,880	16,233	55,210	19,266
Boston U.	36	230,370	9,911	2,585	107,741	1,523	14,741	8,633	8,617	5,937	41,230	29,452
U. Iowa	37	228,803	1,287	1,284	167,333	300	5,966	3,073	2,735	2,127	21,790	22,908
U. Virginia, Charlottesville	38	214,946	6,092	1,724	135,080	300	6,174	1,607	4,009	846	39,367	19,747
U. Utah	39	214,320	249	592	126,713	497	2,590	253	602	0	5,399	77,425
Virginia Commonwealth U.	40	207,023	5,918	41	112,916	163	1,143	1,704	5,937	0	14,842	64,359
Rutgers, State U. New Jersey, New Brunswick	41	207,008	2,240	13,978	136,324	5,038	12,553	4,520	4,841	2,210	11,345	13,959
U. Texas Southwestern Medical Center	42	191,493	0	0	191,493	0	0	0	0	0	0	0
Duke U.	43	191,004	952	1,788	151,415	1,373	2,406	2,106	7,860	473	14,956	7,675
Stanford U.	44	189,108	4,169	8,730	135,024	395	6,417	1,884	5,871	80	18,634	7,904
Washington U., Saint Louis	45	188,985	489	336	175,146	175	3,559	742	751	65	2,421	5,301
U. Delaware	46	188,645	7,582	4,360	44,083	4,661	26,156	5,135	17,508	8,460	54,565	16,135
U. Cincinnati	47	185,586	2,103	547	120,992	792	5,112	2,634	3,697	381	28,734	20,594
U. Alabama, Birmingham	48	184,658	0	0	163,505	0	730	3,697	1	0	10,778	5,947
Virginia Polytechnic Institute and State U.	49	179,590	8,449	1,367	67,770	3,965	6,013	1,837	6,376	0	75,591	8,222
U. Nebraska, Lincoln and Medical Center ^b	50	177,595	4,632	1,703	93,102	2,080	8,230	5,523	6,385	546	23,762	31,632
U. Oklahoma, Norman and Health Science Center	51	169,611	3,254	15,847	55,382	2,011	9,721	2,298	10,551	0	23,018	47,529
Florida State U.	52	166,809	6,636	7,100	31,483	5,484	17,282	7,826	15,852	4,146	14,828	56,172
Dartmouth C. and Dartmouth Hitchcock Medical Center	53	166,114	12,594	5,598	50,450	5,889	14,192	4,666	18,829	2,082	10,508	41,306
Johns Hopkins U. ^c	54	164,758	7,325	3,873	94,579	5,267	10,566	601	356	1,909	40,156	126
U. South Florida	55	160,703	7,487	7,340	59,613	1,867	5,742	4,239	13,067	956	21,267	39,125
U. Illinois, Chicago	56	158,846	2,865	595	105,994	2,441	7,365	2,195	6,482	9,383	14,366	7,160
Auburn U., Auburn	57	158,454	3,460	2,619	49,633	3,446	10,211	2,432	2,585	2,061	45,785	36,222
Louisiana State U., Baton Rouge	58	156,614	1,674	24,123	51,861	5,466	20,003	427	1,176	11,976	31,718	8,190
Iowa State U.	59	156,282	2,977	1,711	55,060	7,633	7,405	2,159	4,634	189	47,937	26,577
U. Kansas	60	152,432	1,404	7,220	85,923	136	4,254	2,808	559	11,402	4,859	33,867
U. Tennessee, Knoxville	61	151,783	2,146	1,363	54,720	2,315	8,182	2,539	8,135	11,889	31,628	28,866
U. Kentucky	62	151,066	2,185	1,406	106,473	119	900	767	2,002	13,549	16,467	7,198
North Carolina State U.	63	150,288	6,791	4,697	83,071	3,665	6,241	377	2,438	4,035	36,010	2,963
Icahn School of Medicine at Mount Sinai	64	147,069	0	0	147,069	0	0	0	0	0	0	0
Scripps Research Institute	65	146,451	0	0	146,451	0	0	0	0	0	0	0

TABLE 28

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Missouri, Columbia	66	146,211	72	122	84,432	147	46,949	1,479	1,449	256	2,902	8,403
Princeton U.	67	144,341	7,815	4,133	36,074	5,268	29,016	2,575	32,817	0	19,939	6,704
George Washington U.	68	141,746	6,678	442	34,534	1,379	2,928	1,586	17,218	7,823	13,257	55,901
U. California, Irvine	69	132,261	6,310	1,253	73,056	2,028	6,107	4,221	6,027	330	19,738	13,191
U. Miami	70	128,438	780	5,643	106,759	342	1,128	2,765	1,067	297	2,751	6,906
Carnegie Mellon U.	71	128,082	35,662	3	5,431	9,740	10,179	1,171	9,165	1,537	38,947	16,247
U. Washington, Seattle	72	125,390	4,309	10,231	86,806	231	1,916	613	2,104	926	12,898	5,356
Georgia State U.	73	125,011	3,741	942	36,893	1,453	7,711	7,028	23,023	0	0	44,220
Oklahoma State U., Stillwater	74	124,314	3,027	2,033	40,298	3,892	5,599	4,694	6,643	7,225	17,525	33,378
SUNY, U. Buffalo	75	124,197	6,563	1,745	72,802	1,369	4,750	1,452	1,963	2,448	25,973	5,132
Texas Tech U.	76	122,202	3,367	3,544	35,771	3,291	8,639	5,844	7,858	0	17,670	36,218
Columbia U. in the City of New York	77	119,863	1,674	6,651	78,690	450	5,452	320	5,365	0	9,214	12,047
U. Connecticut	78	117,252	1,864	3,547	65,190	680	3,235	9,005	4,740	2,430	20,358	6,203
U. Notre Dame	79	115,906	8,447	0	10,199	2,111	20,794	1,050	5,978	5,243	39,057	23,027
Florida International U.	80	115,737	7,218	8,263	32,083	2,959	11,413	8,187	10,971	1,499	14,590	18,554
Medical C. Wisconsin	81	113,726	0	0	112,076	0	0	0	0	0	1,650	0
U. South Carolina, Columbia	82	110,716	1,328	4,988	33,249	2,891	2,785	4,556	10,383	8	15,578	34,950
Medical U. South Carolina	83	110,106	0	0	110,106	0	0	0	0	0	0	0
Syracuse U.	84	108,685	6,140	2,069	7,999	2,481	8,073	2,493	9,868	265	12,823	56,474
Clemson U.	85	100,954	3,423	0	27,289	613	3,106	699	1,191	0	23,360	41,273
Brigham Young U., Provo	86	99,661	4,891	833	17,858	4,810	4,972	2,759	9,076	67	10,018	44,377
U. Central Florida	87	99,427	7,849	3,032	18,111	1,875	13,899	3,670	5,673	4,840	18,156	22,322
SUNY, Binghamton U.	88	96,213	5,317	1,307	12,133	2,923	8,524	5,611	19,833	0	23,670	16,895
SUNY, Stony Brook U.	89	92,936	1,765	11,718	43,013	2,251	9,422	1,541	1,712	11,934	5,508	4,072
West Virginia U.	90	92,314	512	2,112	53,882	239	4,302	759	2,305	724	22,376	5,103
U. Massachusetts, Amherst	91	90,429	8,927	1,254	28,837	934	7,944	2,768	3,148	705	25,285	10,627
Uniformed Services U. of the Health Sciences	92	88,281	0	0	79,763	0	0	8,518	0	0	0	0
Georgetown U.	93	87,408	1,434	0	47,065	663	3,954	268	9,513	1,680	0	22,831
U. Vermont	94	85,988	2,075	910	48,994	1,609	1,892	2,519	6,031	1,329	6,971	13,658
U. Arkansas for Medical Sciences	95	84,563	0	0	84,563	0	0	0	0	0	0	0
U. Houston	96	84,315	2,248	3,051	14,412	2,957	13,148	4,775	2,505	21	23,265	17,933
Washington State U.	97	84,199	706	1,573	46,994	118	6,740	1,218	2,286	435	13,644	10,485
Texas State U.	98	83,686	4,102	3,521	11,600	1,929	2,325	165	6,443	4,156	6,297	43,148

TABLE 28

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Nevada, Reno	99	83,470	267	7,784	25,304	1,242	3,012	1,890	3,486	3,205	21,581	15,699
Albert Einstein C. of Medicine	100	81,552	0	0	81,552	0	0	0	0	0	0	0
Temple U.	101	81,497	767	350	66,627	253	2,764	1,561	870	583	2,799	4,923
Wayne State U.	102	81,136	701	118	54,793	220	7,033	696	1,010	8,010	4,562	3,993
Case Western Reserve U.	103	80,506	923	0	67,788	68	268	68	900	0	9,792	699
U. New Mexico	104	79,298	1,164	595	51,735	126	930	1,170	3,499	7,817	7,666	4,596
Rice U.	105	78,447	3,345	1,235	6,188	2,460	14,172	1,277	9,678	126	36,655	3,311
U. Hawaii, Manoa	106	78,084	743	16,730	42,042	93	9,033	119	1,327	1,030	5,563	1,404
U. Alabama, Tuscaloosa	107	77,554	3,595	2,324	11,487	1,418	3,148	2,656	10,062	264	12,977	29,623
San Diego State U.	108	77,130	1,511	1,152	15,212	2,475	3,917	5,455	5,397	8,833	7,894	25,284
Thomas Jefferson U.	109	76,704	0	0	76,704	0	0	0	0	0	0	0
North Dakota State U.	110	76,422	2,127	313	44,704	954	2,699	1,530	5,049	771	8,416	9,859
Colorado State U., Fort Collins	111	75,358	697	6,769	51,135	118	1,103	312	1,966	4,859	6,025	2,374
Massachusetts Institute of Technology	112	73,497	13,456	2,415	9,172	674	10,357	0	1,365	1,253	32,492	2,313
Kansas State U.	113	73,427	1,680	56	36,195	2,376	2,767	1,400	4,157	5,610	11,724	7,462
U. Louisville	114	73,255	19	15	54,109	404	1,405	1,154	901	457	6,105	8,686
U. Arkansas, Fayetteville	115	72,849	2,189	380	29,526	63	4,868	668	3,453	4,336	13,487	13,879
U. Texas Health Science Center, San Antonio	116	70,676	0	0	70,676	0	0	0	0	0	0	0
SUNY, U. Albany	117	69,881	4,496	6,011	9,216	2,127	6,124	2,640	13,287	0	2,944	23,036
Northeastern U.	118	68,663	9,974	1,218	11,188	481	5,636	1,871	3,728	0	16,315	18,252
U. Mississippi	119	68,074	384	370	28,723	852	4,813	1,783	3,652	718	4,104	22,675
U. Maine	120	67,941	1,484	10,048	15,091	657	3,362	643	1,098	8,519	19,151	7,888
U. Wyoming	121	67,771	775	3,456	13,194	1,030	1,096	822	4,371	23,717	9,825	9,485
U. Texas, San Antonio	122	67,694	5,629	1,505	8,104	1,366	4,087	2,525	6,414	1,311	10,542	26,211
George Mason U.	123	66,769	3,010	1,904	16,611	723	1,221	1,193	23,478	12	8,361	10,256
U. Texas Health Science Center, Houston	124	66,008	0	0	66,008	0	0	0	0	0	0	0
U. California, Santa Barbara	125	65,230	3,747	8,560	361	200	10,774	846	4,783	6,658	18,969	10,332
New Jersey Institute of Technology	126	64,230	7,459	0	5,574	4,238	9,168	0	470	16	31,268	6,037
Mississippi State U.	127	63,773	2,001	2,205	37,630	216	3,033	432	4,851	1,516	9,353	2,536
U. North Texas, Denton	128	63,577	7,615	418	9,679	1,346	5,602	1,918	4,317	0	8,184	24,498
Brown U.	129	63,031	4,289	3,328	26,890	3,451	4,180	232	6,414	1,105	4,619	8,523
Augusta U.	130	62,558	42	0	59,300	42	88	84	70	0	0	2,932
Georgia Institute of Technology	131	61,494	17,343	904	4,175	48	847	54	1,001	0	32,293	4,829

TABLE 28

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Tulane U.	132	60,978	521	1,685	37,184	332	1,187	848	2,276	0	1,717	15,228
Montana State U., Bozeman	133	59,067	955	1,758	20,849	1,321	4,975	363	1,040	7,354	9,263	11,189
U. Texas Medical Branch	134	58,807	0	0	52,282	0	0	0	0	0	6,525	0
U. Memphis	135	58,132	4,018	861	4,988	5	2,743	3,923	5,205	7,082	4,640	24,667
U. Rochester	136	57,142	521	436	49,495	6	2,331	1,121	275	888	1,942	127
U. California, Riverside	137	55,114	441	4,384	35,003	498	1,147	379	3,987	477	4,349	4,449
California Institute of Technology	138	53,950	1,351 i	4,385 i	8,765 i	84 i	20,916 i	86 i	348 i	9,380 i	8,613 i	22 i
U. Montana, Missoula	139	53,689	1,281	2,464	19,717	504	2,210	385	20,162	0	0	6,966
U. New Hampshire	140	52,786	703	5,071	19,510	1,157	2,776	605	3,407	0	9,131	10,426
U. North Carolina, Charlotte	141	52,624	3,682	1,767	5,063	1,475	2,112	1,363	6,648	0	11,341	19,173
U. Colorado Anschutz Medical Campus	142	52,000	0	17	50,893	0	38	89	46	0	35	882
U. Nevada, Las Vegas	143	51,945	707	1,869	17,576	2,282	4,258	1,020	5,863	845	6,166	11,359
U. California, Santa Cruz	144	51,368	2,354	8,157	7,422	278	14,363	649	3,570	535	8,492	5,548
U. North Dakota	145	50,685	1,683	2,968	14,279	444	2,086	4,555	1,538	130	14,140	8,862
U. Massachusetts, Medical School	146	50,479	0	0	50,479	0	0	0	0	0	0	0
U. Texas, Arlington	147	50,435	2,839	1,054	10,207	628	6,759	1,719	53	0	14,558	12,618
Oregon Health and Science U.	148	48,537	0	0	47,214	0	1	0	0	0	1,322	0
U. Louisiana, Lafayette	149	46,907	4,695	1,405	7,084	2,069	3,352	55	136	0	13,697	14,414
U. Chicago	150	46,651	576	314	25,809	472	7,804	567	7,275	0	2,621	1,213
CUNY, Graduate Center	151	45,484	1,008	830	3,604	1,316	1,808	5,206	12,592	53	0	19,067
Rensselaer Polytechnic Institute	152	45,192	3,872	607	2,092	1,531	6,267	1,153	1,276	0	21,462	6,932
Baylor U.	153	45,076	1,219	2,200	7,191	938	5,833	2,988	1,693	4,335	5,576	13,103
U. Texas, El Paso	154	44,987	1,293	1,149	7,021	1,214	3,434	1,921	2,012	1,355	11,868	13,720
American U.	155	44,220	641	470	1,208	987	1,184	1,056	10,155	3,084	0	25,435
Drexel U.	156	43,396	1,288	0	23,831	142	1,336	840	493	1,267	9,428	4,771
U. Alaska, Fairbanks	157	42,733	40	12,075	10,250	2	2,793	0	1,805	5,008	10,737	23
U. Colorado Boulder	158	42,462	445	3,491	4,774	7	7,119	3,093	1,986	167	12,067	9,313
U. Maryland, Baltimore County	159	42,409	6,467	3,319	5,038	2,028	3,274	1,568	7,069	1,358	4,575	7,713
Brandeis U.	160	41,318	1,618	0	6,739	1,517	6,378	2,186	7,921	75	5,763	9,121
Michigan Technological U.	161	40,859	3,443	2,340	5,053	1,871	2,924	512	945	608	19,979	3,184
U. Massachusetts, Lowell	162	39,726	2,365	451	4,274	927	3,790	970	3,121	0	18,744	5,084
San Jose State U.	163	38,582	381	2,644	3,524	1,173	2,746	821	3,756	0	5,960	17,577
Cold Spring Harbor Laboratory	164	38,367	0	0	38,367	0	0	0	0	0	0	0

TABLE 28

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Texas, Dallas	165	38,169	1,616	459	9,623	530	2,215	1,473	636	18	11,319	10,280
Kent State U.	166	37,300	1,024	627	5,491	1,355	4,923	2,413	4,637	1,357	1,084	14,389
U. Texas Rio Grande Valley	167	37,248	2,042	1,502	8,151	2,458	2,938	1,042	4,553	0	3,437	11,125
Van Andel Research Institute	168	36,082	0	0	36,082	0	0	0	0	0	0	0
William & Mary	169	35,413	617	23,827	997	66	1,066	53	4,102	342	0	4,343
U. Tennessee, Health Science Center	170	34,783	4	0	34,516	0	0	0	0	224	0	39
Indiana U.-Purdue U., Indianapolis	171	34,236	1,973	395	9,296	107	837	481	7,290	2,277	2,900	8,680
Tufts U.	172	33,998	1,306	75	17,405	240	1,387	1,097	3,913	776	4,720	3,079
Wichita State U.	173	33,911	0	162	1,763	617	1,126	910	1,148	0	18,831	9,354
Southern Methodist U.	174	33,204	120	1,103	1,341	751	5,935	247	1,368	1,987	5,077	15,275
Nova Southeastern U.	175	32,874	568	3,280	19,603	268	359	1,694	2,439	1,329	108	3,226
Ohio U.	176	31,828	10	724	11,657	13	2,623	951	1,205	0	6,974	7,671
U. Alabama, Huntsville	177	30,635	3,933	2,586	2,124	555	4,297	248	290	0	11,063	5,539
Oregon State U.	178	30,449	857	2,927	20,773	11	73	119	768	280	4,640	1
Georgia Southern U.	179	30,268	1,017	437	6,225	1,456	1,615	1,025	3,931	23	2,717	11,822
Utah State U.	180	30,207	1,910	588	11,246	455	1,533	2,772	538	0	9,938	1,227
Southern Illinois U., Carbondale	181	29,972	799	713	17,852	78	1,221	1,126	2,947	1,038	1,725	2,473
Montclair State U.	182	29,934	969	1,333	4,130	1,228	1,549	5,917	3,640	0	37	11,131
U. Rhode Island	183	29,165	0	12,702	4,978	0	1,959	632	1,869	472	1,759	4,794
East Carolina U.	184	28,495	185	2,766	17,664	13	979	715	373	0	1,109	4,691
U. Massachusetts, Boston	185	27,225	1,160	1,773	3,231	536	1,407	2,111	6,411	564	497	9,535
Wake Forest U.	186	26,886	137	0	21,707	328	691	200	743	0	396	2,684
Western Michigan U. and Homer Stryker M.D. School of Medicine	187	25,832	576	1,391	5,918	1,163	842	1,193	3,007	29	5,566	6,147
SUNY, Polytechnic Institute	188	25,429	0	0	351	0	0	0	0	0	25,078	0
Kennesaw State U.	189	24,976	4,092	0	4,794	184	89	0	76	0	2,462	13,279
East Tennessee State U.	190	24,910	0	0	3,436	0	0	0	0	0	0	21,474
Louisiana State U., Health Sciences Center, New Orleans	191	24,332	0	0	24,332	0	0	0	0	0	0	0
Old Dominion U.	192	23,954	768	1,025	5,714	200	1,624	340	434	0	12,032	1,817
Chapman U.	193	23,533	769	149	8,901	0	227	15	599	0	1,813	11,060
Florida Atlantic U.	194	23,101	878	24	9,297	341	989	940	820	0	2,281	7,531
Howard U.	195	22,461	873	0	17,152	110	787	819	164	0	1,851	705
U. Toledo	196	22,250	0	1,759	13,086	6	2,474	144	25	0	3,437	1,319
U. California, Office of the President	197	22,143	0	0	13,176	0	8,957	0	0	0	0	10

TABLE 28

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Massachusetts, Dartmouth	198	21,993	2,014	5,267	2,224	1,235	2,605	38	101	0	7,987	522
Saint Louis U.	199	21,971	294	6,141	9,203	19	780	125	751	0	793	3,865
North Carolina A&T State U.	200	21,880	20	0	10,506	88	221	8	0	576	5,774	4,687
U. West Florida	201	20,955	1,500	9	2,025	21	815	339	2,538	40	675	12,993
U. California, Merced	202	20,709	557	1,413	1,828	661	1,809	280	1,822	1,375	9,123	1,841
Rowan U.	203	20,501	395	837	3,931	281	1,156	783	986	0	5,282	6,850
U. Idaho	204	20,377	867	627	13,805	18	575	15	637	286	2,140	1,407
Worcester Polytechnic Institute	205	20,202	2,094	0	1,147	1,450	1,815	0	900	0	10,420	2,376
U. Missouri, Kansas City	206	20,030	928	54	12,652	0	740	233	237	1,639	2,147	1,400
U. Oregon	207	19,590	488	1,928	5,648	67	2,310	1,573	1,058	1,773	513	4,232
Cleveland State U.	208	19,420	0	0	2,612	762	1,013	606	3,649	0	3,587	7,191
U. South Alabama	209	19,291	52	2,872	13,623	81	154	872	375	0	1,238	24
Rochester Institute of Technology	210	19,161	3,960	0	443	614	3,971	5	851	0	7,101	2,216
Louisiana Tech U.	211	19,098	1,720	0	1,725	608	1,649	50	573	0	8,636	4,137
California State U., Fullerton	212	18,925	810	382	2,501	730	1,301	727	1,807	1,248	733	8,686
New Mexico State U.	213	18,791	822	607	6,836	48	2,602	141	79	417	6,236	1,003
Boston C.	214	18,254	719	1,932	2,118	60	2,327	1,162	3,353	0	545	6,038
Marquette U.	215	18,010	560	0	5,517	454	509	865	503	0	3,048	6,554
Missouri U. of Science and Technology	216	17,847	1,847	0	614	9	548	53	8	886	13,333	549
Villanova U.	217	17,513	371	408	2,213	56	1,509	830	1,679	0	6,062	4,385
Fordham U.	218	16,377	339	60	370	386	885	422	1,355	0	0	12,560
Illinois State U.	219	16,099	64	71	471	26	395	21	242	0	0	14,809
James Madison U.	220	16,041	866	904	2,603	86	1,051	968	538	6	250	8,769
Oakland U.	221	15,987	1,567	0	3,409	0	5,447	126	0	0	4,888	550
Southern Illinois U., Edwardsville	222	15,854	0	0	10,261	0	0	0	0	0	5,593	0
Northern Illinois U.	223	15,720	485	294	947	26	1,701	332	4,884	0	1,720	5,331
Woods Hole Oceanographic Institution	224	15,591	0	12,682	0	0	0	0	0	0	2,909	0
Northern Arizona U.	225	15,566	1,355	618	9,431	21	1,438	50	20	562	701	1,370
San Francisco State U.	226	14,434	1,111	1,153	3,178	870	1,678	1,357	1,628	38	1,354	2,067
Colorado School of Mines	227	14,035	87	1,177	21	127	1,945	8	18	0	8,536	2,116
Long Island U.	228	13,844	198	59	7,308	226	814	1,077	680	0	0	3,482
Central Michigan U.	229	13,833	50	146	10,659	17	37	66	44	1,440	138	1,236
Naval Postgraduate School	230	13,261	2,084	303	163	394	69	9	2,081	2,829	4,899	430

TABLE 28
Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. South Dakota	231	13,128	108	0	6,150	236	1,472	852	1,049	224	275	2,762
U. Wisconsin-Milwaukee	232	13,084	88	2,650	1,670	17	1,308	544	1,279	1,539	1,983	2,006
Loyola U., Chicago	233	12,892	103	0	10,557	57	608	396	357	0	138	676
Miami U.	234	12,745	432	193	2,942	476	488	1,011	670	0	2,318	4,215
Tarleton State U.	235	12,689	236	164	4,494	111	297	493	927	1,310	649	4,008
California Polytechnic State U., San Luis Obispo	236	12,550	1	204	2,919	570	3,211	19	60	0	1,853	3,713
Towson U.	237	12,449	1,315	0	2,084	662	992	644	2,157	78	0	4,517
U. Puerto Rico, Rio Piedras	238	12,414	296	355	794	23	1,196	0	1,204	753	350	7,443
U. North Florida	239	12,378	396	0	1,568	22	878	420	640	0	2,791	5,663
U. New Orleans	240	12,325	865	233	823	332	1,023	561	1,009	262	1,411	5,806
Rush U.	241	12,316	0	0	12,316	0	0	0	0	0	0	0
U. Southern Mississippi	242	12,285	75	2,838	959	0	721	0	378	0	5,387	1,927
Boise State U.	243	12,190	819	1,114	3,334	122	1,783	37	755	790	2,122	1,314
Texas Christian U.	244	12,066	0	578	2,521	441	2,529	1,228	8	0	0	4,761
Lehigh U.	245	11,921	895	217	1,533	20	1,207	54	29	39	7,330	597
U. North Texas, Health Science Center	246	11,773	0	0	11,761	0	0	0	12	0	0	0
Air Force Institute of Technology	247	11,659	1,643	148	0	23	1,801	0	0	0	8,044	0
SUNY, Upstate Medical U.	248	11,303	0	0	11,303	0	0	0	0	0	0	0
U. Minnesota, Duluth	249	11,092	85	118	8,935	82	233	20	149	0	1,071	399
CUNY, City C.	250	10,996	2	49	505	22	534	22	27	0	787	9,048
U. Puerto Rico, Medical Sciences Campus	251	10,781	0	0	10,781	0	0	0	0	0	0	0
U. North Carolina, Greensboro	252	10,750	366	0	3,304	42	1,294	771	532	18	0	4,423
Tennessee State U.	253	10,740	101	0	5,356	0	0	0	0	0	0	5,283
Morehouse School of Medicine	254	10,710	0	0	10,710	0	0	0	0	0	0	0
Marshall U.	255	10,608	15	135	6,597	27	158	0	38	0	1,028	2,610
California State U., East Bay	256	9,969	136	222	1,305	180	316	418	655	0	155	6,582
Stevens Institute of Technology	257	9,833	548	0	16	52	317	0	19	0	8,295	586
Creighton U.	258	9,597	285	0	7,106	73	484	104	599	0	0	946
CUNY, Hunter C.	259	9,506	194	35	1,693	56	735	1,491	446	0	0	4,856
Texas Tech U., Health Sciences Center	260	9,432	0	0	9,384	0	0	0	0	0	0	48
Midwestern U.	261	9,430	0	0	9,430	0	0	0	0	0	0	0
U. Maryland Center for Environmental Science	262	9,309	0	9,309	0	0	0	0	0	0	0	0
Bowling Green State U.	263	9,214	255	189	1,614	117	723	565	1,600	110	54	3,987

TABLE 28

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Clarkson U.	263	9,214	31	0	570	153	1,445	70	384	0	5,608	953
Rutgers, State U. New Jersey, Newark	265	9,143	97	991	2,133	0	1,281	726	961	171	0	2,783
Mercer U.	266	8,973	141	0	5,647	238	1,646	268	61	159	729	84
U. Tulsa	267	8,079	429	51	904	4	503	597	254	0	1,575	3,762
Louisiana State U., Health Sciences Center, Shreveport	268	8,014	0	0	8,014	0	0	0	0	0	0	0
Catholic U. of America	269	7,957	118	0	906	0	1,304	767	90	0	627	4,145
Kean U.	270	7,954	974	129	1,171	187	450	269	1,727	70	1	2,976
Loyola Marymount U.	271	7,708	46	5	998	0	106	599	1,773	106	0	4,075
Oklahoma State U., Center for Health Sciences	272	7,600	107	0	7,005	0	0	469	0	0	0	19
U. San Diego	273	7,498	0	147	423	239	712	66	733	0	256	4,922
U. Akron	274	7,434	52	86	226	15	3,535	205	92	150	2,561	512
Pepperdine U.	275	7,179	5	0	408	217	139	891	2,351	117	0	3,051
Touro U., New York	276	7,152	0	0	7,147	0	0	0	0	0	0	5
Bryn Mawr C.	277	7,105	283	297	513	458	600	463	1,379	0	0	3,112
Texas Tech U., Health Sciences Center, El Paso	278	6,947	0	0	6,255	0	0	0	0	0	0	692
U. Northern Colorado	279	6,848	88	247	1,043	282	317	858	621	0	0	3,392
U. San Francisco	279	6,848	145	13	1,076	145	211	772	301	13	4	4,168
Sam Houston State U.	281	6,787	0	0	778	0	34	90	2,948	0	19	2,918
Edward Via C. of Osteopathic Medicine	282	6,699	0	0	6,699	0	0	0	0	0	0	0
U. Tennessee, Chattanooga	283	6,585	91	4	152	24	475	53	1	3,400	266	2,119
Florida A&M U.	284	6,503	0	131	3,347	5	32	4	111	0	258	2,615
SUNY, C. of Environmental Science and Forestry	285	6,234	78	873	3,546	1	291	656	0	0	483	306
South Dakota State U.	286	6,156	4	69	4,368	0	248	65	111	0	1,141	150
Yeshiva U.	287	6,104	453	0	1,865	1,542	0	0	0	204	0	2,040
Roseman U. of Health Sciences	288	5,953	0	0	5,953	0	0	0	0	0	0	0
California State U., Sacramento	289	5,821	50	60	527	86	211	67	912	894	960	2,054
Grinnell C.	290	5,816	451	0	510	297	779	28	1,202	0	0	2,549
Southern Connecticut State U.	291	5,810	184	208	748	14	267	213	459	95	0	3,622
Hofstra U.	292	5,786	31	51	1,217	141	377	339	357	0	260	3,013
Portland State U.	293	5,753	1	112	1,786	28	224	31	993	0	1,512	1,066
California State Polytechnic U., Humboldt	294	5,724	9	319	1,775	12	252	4	606	378	2,086	283
Morgan State U.	295	5,635	96	375	1,983	12	108	23	1,197	0	701	1,140
Clark U.	296	5,610	124	267	1,071	15	727	580	2,759	0	0	67

TABLE 28

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Azusa Pacific U.	297	5,545	119	0	2,688	49	201	722	25	0	7	1,734
CUNY, Queens C.	298	5,536	219	276	2,458	97	642	608	345	583	0	308
Eastern Michigan U.	299	5,463	47	65	1,361	141	87	142	932	10	414	2,264
Claremont McKenna C.	300	5,293	0	0	0	0	0	126	4,705	44	0	418
U. Missouri, Saint Louis	301	5,245	97	13	1,913	4	765	375	718	195	0	1,165
Texas A&M U.-Corpus Christi	302	5,118	45	2,112	804	44	76	7	88	372	161	1,409
Western Washington U.	303	5,107	216	242	339	140	533	158	692	483	310	1,994
CUNY, John Jay C. of Criminal Justice	304	5,096	6	0	3	7	67	129	219	35	0	4,630
U. Denver	305	5,028	325	25	349	7	462	677	728	0	555	1,900
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	306	5,021	0	0	5,021	0	0	0	0	0	0	0
Loma Linda U.	307	4,913	0	0	4,775	0	0	137	0	0	0	1
Western Kentucky U.	308	4,906	13	737	1,571	38	667	679	280	0	265	656
U. Nebraska, Omaha	309	4,886	665	85	660	83	27	40	1,126	758	245	1,197
U. Central Oklahoma	310	4,867	103	0	2,466	48	349	76	240	0	502	1,083
Wright State U.	311	4,837	289	115	3,775	39	73	118	0	78	333	17
Tennessee Technological U.	312	4,623	618	20	1,433	0	209	105	41	1	1,396	800
Langston U.	313	4,583	0	0	4,423	6	16	89	0	0	0	49
Desert Research Institute	314	4,378	0	3,811	567	0	0	0	0	0	0	0
Idaho State U.	315	4,362	508	100	1,070	5	634	16	33	282	1,687	27
U. Michigan, Dearborn	316	4,361	8	0	20	112	346	55	159	0	3,118	543
Duquesne U.	317	4,349	0	67	3,046	25	216	25	74	0	56	840
Florida Institute of Technology	318	4,253	486	479	362	88	1,028	372	0	0	1,257	181
West Chester U. Pennsylvania	319	4,176	39	47	491	109	202	168	550	0	51	2,519
Middle Tennessee State U.	320	4,173	424	51	647	80	556	25	436	0	51	1,903
Texas Southern U.	321	4,042	4	0	2,705	5	59	0	1,075	0	6	188
Delaware State U.	322	3,975	0	414	1,885	0	939	0	375	0	243	119
Ball State U.	323	3,956	38	0	949	53	365	156	351	0	32	2,012
Salisbury U.	324	3,904	127	311	745	133	294	38	134	36	3	2,083
Sacred Heart U.	325	3,892	334	0	664	96	108	94	567	0	0	2,029
U. Alaska, Anchorage	326	3,798	48	561	1,360	0	133	0	752	110	588	246
U. Texas Health Science Center, Tyler	327	3,795	0	0	3,795	0	0	0	0	0	0	0
California State U., Fresno	328	3,770	26	28	2,668	202	115	18	168	0	197	348

TABLE 28
Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Charles R. Drew U. of Medicine and Science	329	3,758	0	0	3,758	0	0	0	0	0	0	0
Reed C.	330	3,745	67	0	1,506	53	363	135	454	0	0	1,167
Texas A&M U.-Commerce	331	3,726	209	0	1,496	103	337	255	204	0	112	1,010
Eastern Virginia Medical School	332	3,650	0	0	3,650	0	0	0	0	0	0	0
California State U., Long Beach	333	3,618	110	36	1,003	142	363	181	193	183	560	847
Prairie View A&M U.	334	3,550	0	0	2,462	0	130	5	13	0	564	376
Florida Gulf Coast U.	335	3,533	3	2,201	169	18	178	40	0	0	96	828
Wesleyan U.	336	3,515	0	416	330	196	725	229	230	85	0	1,304
DePaul U.	337	3,512	393	0	116	5	5	45	93	0	0	2,855
New School	338	3,483	0	0	91	0	0	0	1,038	0	576	1,778
Albany Medical C.	339	3,464	0	0	3,464	0	0	0	0	0	0	0
Gallaudet U.	340	3,462	617	11	1,423	31	124	70	1,013	0	0	173
Northeast Ohio Medical U.	341	3,440	0	10	3,376	0	0	0	12	30	0	12
SUNY, Downstate Health Sciences U.	342	3,431	0	0	3,431	0	0	0	0	0	0	0
New Mexico Institute of Mining and Technology	343	3,375	106	888	28	3	57	0	0	0	2,219	74
Trinity C., Hartford	344	3,330	123	0	422	226	92	142	810	0	69	1,446
Texas A&M U.-Kingsville	345	3,311	0	127	2,416	0	15	1	0	255	389	108
Suffolk U.	346	3,303	0	0	0	0	0	1,172	989	0	0	1,142
Indiana U. Pennsylvania	347	3,293	2	55	365	1	0	419	275	3	0	2,173
Rosalind Franklin U. of Medicine and Science	348	3,270	0	0	3,214	0	0	56	0	0	0	0
Des Moines U.	349	3,225	0	0	3,164	0	0	0	51	0	0	10
Rutgers, State U. New Jersey, Camden	350	3,214	496	0	3	0	23	8	1,025	0	0	1,659
Appalachian State U.	351	3,123	126	166	1,394	43	442	63	138	0	266	485
Amherst C.	352	3,104	161	144	376	136	350	224	531	386	0	796
Montana Technological U.	353	3,057	5	1,942	79	0	52	0	0	0	979	0
Colgate U.	354	3,041	102	302	382	39	756	78	447	0	0	935
U. North Carolina, Wilmington	355	3,028	84	2,071	226	0	98	64	51	384	0	50
U. Oklahoma, Tulsa	356	2,963	0	0	1,239	0	0	15	60	0	310	1,339
Grand Valley State U.	357	2,906	40	2,130	316	1	82	0	25	0	40	272
Alcorn State U.	358	2,894	0	0	1,505	0	0	0	1,073	0	316	0
Alabama A&M U.	359	2,848	67	0	1,701	14	139	44	131	0	467	285
Philadelphia C. of Osteopathic Medicine	359	2,848	0	0	2,848	0	0	0	0	0	0	0
California State U., Monterey Bay	361	2,706	65	1,370	1,122	14	8	0	62	0	23	42

TABLE 28

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Pomona C.	362	2,659	156	262	314	71	477	313	680	0	0	386
California State U., Bakersfield	363	2,580	0	56	273	384	36	13	398	0	302	1,118
Swarthmore C.	364	2,578	12	0	238	63	193	124	287	0	337	1,324
Virginia State U.	365	2,566	0	0	1,707	0	0	0	0	0	859	0
Tuskegee U.	366	2,539	0	0	2,324	0	0	0	0	0	215	0
Clark Atlanta U.	367	2,523	0	0	2,325	0	190	0	0	0	0	8
South Dakota School of Mines and Technology	368	2,381	24	0	0	0	451	0	0	0	1,906	0
West Texas A&M U.	369	2,243	23	0	1,771	1	30	0	0	110	113	195
Seattle U.	370	2,223	13	0	242	52	127	162	92	0	146	1,389
U. Arkansas, Pine Bluff	371	2,219	0	0	1,798	0	10	0	0	363	0	48
CUNY, Advanced Science Research Center	372	2,201	0	42	822	0	1,199	0	0	0	112	26
Smith C.	373	2,179	24	53	661	113	139	64	219	5	81	820
Williams C.	374	2,164	i 36	i 119	i 822	i 29	i 198	i 74	i 248	i 0	i 0	i 638
New York Institute of Technology	375	2,146	71	0	1,997	0	0	0	0	0	78	0
Pacific U.	376	2,053	0	0	1,672	0	15	6	39	0	0	321
California State U., San Bernardino	377	2,051	39	29	286	86	75	595	95	208	173	465
Illinois Institute of Technology	378	2,045	211	0	525	21	147	0	2	6	1,099	34
Bucknell U.	379	2,031	103	119	242	29	66	51	196	91	792	342
CUNY, Brooklyn C.	380	1,998	26	99	126	167	128	33	43	0	0	1,376
California State U., Dominguez Hills	381	1,996	133	29	324	81	236	223	425	0	27	518
Elon U.	382	1,989	42	0	292	86	71	77	280	0	24	1,117
Marymount U.	383	1,983	165	0	529	39	32	156	287	0	61	714
Pennsylvania State U., Behrend	384	1,823	0	1,022	309	0	33	0	0	0	155	304
Hamilton C.	385	1,813	77	144	164	16	481	38	267	0	0	626
Sul Ross State U.	386	1,804	0	0	743	0	68	0	0	141	0	852
Central State U.	387	1,743	0	0	1,743	0	0	0	0	0	0	0
Marian U., Indianapolis	388	1,709	0	0	1,168	40	15	0	9	419	0	58
Coastal Carolina U.	389	1,694	1	389	225	0	115	65	260	3	10	626
Hope C.	390	1,678	21	38	77	53	978	2	187	0	12	310
Saint Joseph's U.	391	1,657	93	0	977	5	179	20	55	0	0	328
Toyota Technological Institute, Chicago	392	1,633	1,633	0	0	0	0	0	0	0	0	0
Purdue U., Northwest	393	1,604	30	0	335	0	34	3	0	65	415	722
Jackson State U.	394	1,601	67	0	214	33	559	0	71	226	262	169

TABLE 28
Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Lewis and Clark C.	395	1,590	24	1	78	0	34	0	57	0	0	1,396
Lincoln Memorial U.	396	1,589	0	0	1,570	0	0	0	0	0	0	19
Northwest Indian C.	396	1,589	0	0	0	0	0	0	0	0	0	1,589
Lipscomb U.	398	1,571	0	0	229	0	6	0	0	0	59	1,277
U. New England	399	1,548	0	163	1,351	2	15	0	1	0	0	16
Texas A&M International U.	400	1,542	9	15	254	2	6	19	292	494	14	437
Minnesota State U., Mankato	401	1,537	2	0	176	0	0	300	38	0	727	294
Saint John's U.	402	1,479	26	0	618	17	142	49	164	0	0	463
U. South Carolina, Aiken	403	1,453	3	8	235	13	159	24	1	0	0	1,010
California State Polytechnic U., Pomona	404	1,438	34	4	968	0	46	0	11	0	225	150
Touro U., California	405	1,405	0	0	1,405	0	0	0	0	0	0	0
Texas Woman's U.	406	1,396	0	0	905	12	177	177	35	0	0	90
Harvey Mudd C.	407	1,389	96	0	99	129	598	0	0	85	339	43
Missouri State U.	408	1,387	0	49	311	0	42	14	18	0	953	0
C. of Saint Benedict	409	1,342	23	0	561	16	129	44	149	0	0	420
CUNY, Graduate School of Public Health and Health Policy	410	1,330	0	0	1,330	0	0	0	0	0	0	0
Liberty U.	411	1,315	0	0	527	0	0	0	0	0	573	215
U. Nebraska, Kearney	412	1,307	89	0	473	1	217	28	39	0	0	460
C. Charleston	413	1,285	12	107	288	96	243	42	62	0	0	435
California State U., Northridge	414	1,278	0	97	140	8	606	116	25	0	44	242
Franklin and Marshall C.	415	1,273	42	22	68	8	169	124	144	0	0	696
U. Central del Caribe	416	1,270	0	0	1,270	0	0	0	0	0	0	0
Eastern Connecticut State U.	417	1,239	61	18	44	115	7	158	21	3	0	812
Trinity U.	418	1,238	59	84	147	26	472	54	48	0	35	313
Christopher Newport U.	419	1,218	0	0	412	5	86	61	125	0	0	529
U. Richmond	419	1,218	0	50	240	51	101	125	105	0	0	546
Seton Hall U.	421	1,195	350	0	360	75	170	0	0	0	0	240
Xavier U. Louisiana	422	1,161	0	0	1,161	0	0	0	0	0	0	0
Northern Kentucky U.	423	1,113	37	0	314	25	201	205	121	5	0	205
Pace U.	424	1,101	30	0	556	0	54	0	19	0	0	442
Purdue U., Fort Wayne	425	1,087	0	0	159	113	43	94	82	73	60	463
U. Guam	426	1,083	0	78	990	5	0	0	10	0	0	0
Northern Michigan U.	427	1,079	0	23	519	35	15	75	70	0	0	342

TABLE 28

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
New York Medical C.	428	1,064	0	0	1,064	0	0	0	0	0	0	0
U. Wisconsin-Superior	429	1,062	0	420	642	0	0	0	0	0	0	0
U. of Health Sciences and Pharmacy in St. Louis	430	1,060	0	0	1,060	0	0	0	0	0	0	0
U. of the Incarnate Word	431	1,050	0	0	783	0	0	0	0	0	0	267
Union C., Schenectady	432	1,048	46	28	77	45	256	38	98	14	232	214
U. Colorado Colorado Springs	433	1,042	116	37	211	19	108	81	77	0	75	318
Barnard C.	434	1,006	77	25	226	0	51	63	304	0	0	260
Fayetteville State U.	435	1,005	i 156	i 0	i 226	i 0	i 0	i 0	i 64	i 0	i 0	i 559
Colorado C.	436	1,000	15	32	122	14	106	69	119	0	0	523
U. Wisconsin-Stevens Point	437	997	2	117	843	0	14	0	0	0	21	0
Murray State U.	438	993	0	128	814	2	47	0	0	0	0	2
CUNY, Baruch C.	439	988	0	114	49	66	0	15	101	9	0	634
Claremont Graduate U.	440	984	0	0	0	0	0	0	984	0	0	0
CUNY, C. Staten Island	441	975	21	7	26	32	46	33	15	0	2	793
Wheaton C., Wheaton	442	966	0	51	209	0	33	151	444	0	0	78
Willamette U.	443	961	4	40	86	8	47	6	0	70	0	700
Haverford C.	444	955	i 16	i 45	i 380	i 11	i 87	i 30	i 101	i 0	i 0	i 285
Dillard U.	445	951	0	0	664	0	0	0	0	163	0	124
West Virginia School of Osteopathic Medicine	446	947	i 0	i 0	i 945	i 0	i 0	i 0	i 0	i 0	i 0	i 2
Davidson C.	447	915	0	0	325	106	253	62	81	0	0	88
Roger Williams U.	448	912	1	183	279	0	84	54	0	52	20	239
U. Northern Iowa	449	911	0	210	63	1	36	0	547	0	0	54
Radford U.	450	903	22	14	154	0	0	9	90	86	0	528
Bowdoin C.	451	901	14	22	329	10	184	11	118	0	0	213
Marshall B. Ketchum U.	452	890	i 0	i 0	i 890	i 0	i 0	i 0	i 0	i 0	i 0	i 0
South Carolina State U.	452	890	0	0	0	0	0	0	0	0	0	890
Albany C. of Pharmacy and Health Sciences	454	882	i 0	i 0	i 882	i 0	i 0	i 0	i 0	i 0	i 0	i 0
Indiana U., South Bend	455	875	5	0	141	0	85	72	31	233	0	308
Vassar C.	456	872	22	40	236	9	157	135	103	0	0	170
U. North Georgia	457	871	0	0	42	5	116	0	13	0	0	695
U. Wisconsin-Green Bay	458	868	i 19	i 30	i 500	i 6	i 39	i 12	i 38	i 0	i 139	i 85
Embry-Riddle Aeronautical U.	459	862	94	188	95	18	90	0	23	0	332	22
U. Dayton	460	861	13	5	31	17	0	16	21	0	271	487

TABLE 28

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Texas of the Permian Basin	461	832	0	88	42	7	4	0	4	0	35	652
U. Illinois, Springfield	462	818	0	0	0	0	0	15	90	21	0	692
Stockton U.	463	815	0	524	0	0	0	0	291	0	0	0
U. Hawaii, Hilo	464	809	0	119	649	1	8	0	3	29	0	0
California State U., Los Angeles	465	788	0	0	46	0	361	150	215	0	0	16
Lawrence Technological U.	466	784	0	0	0	0	0	0	0	0	79	705
CUNY, Lehman C.	467	782	6	7	86	8	117	13	45	3	0	497
C. Wooster	468	775	55	22	147	67	193	12	115	0	0	164
St. Edward's U.	469	762	20	50	362	35	70	60	140	25	0	0
Babson C.	470	758	0	0	0	24	0	0	206	0	0	528
Southeastern Louisiana U.	470	758	41	0	193	0	64	0	6	0	56	398
Fairfield U.	472	751	32	4	73	38	44	51	29	47	70	363
Pennsylvania State U., Harrisburg	473	742	0	0	0	0	0	405	169	0	127	41
California State U., Channel Islands	474	737	8	0	319	144	124	7	37	23	0	75
La Sierra U.	475	734	0	0	4	0	1	42	0	0	0	687
CUNY, system office	476	730	0	0	5	0	0	0	0	22	0	703
Florida Polytechnic U.	477	723	76	0	0	30	1	0	67	0	532	17
Andrews U.	478	721	1	3	43	2	3	0	95	0	6	568
Lake Superior State U.	479	720	0	0	720	0	0	0	0	0	0	0
St. Cloud State U.	480	719	7	3	119	0	8	3	82	0	15	482
Winthrop U.	481	707	0	0	153	8	108	0	81	0	0	357
Lafayette C.	482	687	18	23	60	13	72	47	123	0	136	195
St. Olaf C.	483	686	20	18	244	63	132	31	58	0	0	120
Norfolk State U.	484	677	0	0	0	0	0	0	0	0	202	475
Whitman C.	485	676	17	15	214	0	84	93	83	0	0	170
Pennsylvania State U., Altoona	486	666	0	0	461	39	71	0	0	0	33	62
Dakota State U.	487	660	660	0	0	0	0	0	0	0	0	0
Franklin W. Olin C. of Engineering	488	639	0	0	0	0	0	0	0	0	609	30
U. Wisconsin-La Crosse	488	639	12	32	154	0	28	15	250	4	0	144
California State U., Chico	490	636	3	11	417	0	53	0	13	0	76	63
Robert Morris U.	491	632	80	0	33	13	7	23	20	0	37	419
U. Central Arkansas	492	615	26	2	292	0	46	0	22	0	0	227
U. North Carolina, Asheville	492	615	0	20	111	0	5	0	45	51	0	383

TABLE 28
Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
SUNY, C. Brockport	494	610	12	0	425	0	133	0	21	0	0	19
Meharry Medical C.	495	603	0	0	603	0	0	0	0	0	0	0
SUNY, Oswego	496	595	5	21	73	5	83	5	30	251	26	96
SUNY, C. of Optometry	497	594	0	0	594	0	0	0	0	0	0	0
Providence C.	498	582	0	2	156	0	2	0	27	0	0	395
Colby C.	499	580	0	16	161	37	66	28	145	0	0	127
U. of St. Thomas (MN)	500	578	0	0	12	0	82	95	3	0	112	274
Connecticut C.	501	575	20	0	114	0	62	58	0	0	0	321
Hobart and William Smith Colleges	502	572	9	3	460	0	7	2	25	0	0	66
Arkansas State U., Jonesboro	503	561	15	0	398	0	2	11	37	0	66	32
U. of Mary Washington	504	548	19	7	56	2	5	33	13	0	0	413
East Stroudsburg U. Pennsylvania	505	546	9	0	509	0	0	0	9	0	0	19
U. Wisconsin-Oshkosh	506	545	10	26	54	0	38	10	75	0	14	318
Stephen F. Austin State U.	507	541	1	12	122	35	7	1	110	0	0	253
Austin Peay State U.	508	530	0	0	206	0	2	12	106	0	1	203
SUNY, C. Plattsburgh	508	530	0	394	75	0	61	0	0	0	0	0
U. Detroit Mercy	510	529	0	0	428	0	37	23	0	0	30	11
West Virginia State U.	511	521	0	0	521	0	0	0	0	0	0	0
U. Colorado Denver	512	513	1	0	98	5	7	33	8	0	75	286
Skidmore C.	513	510	0	57	148	0	89	58	61	0	0	97
Virginia Military Institute	513	510	92	0	83	46	58	0	19	0	85	127
Macalester C.	515	508	0	17	107	34	84	6	184	0	0	76
Mount Holyoke C.	516	504	4	48	17	18	35	126	25	0	0	231
SUNY, Geneseo	517	491	0	1	54	6	182	60	27	0	0	161
U. Washington, Bothell	518	486	32	26	118	7	76	0	32	22	45	128
Carleton C.	519	483	63	52	48	63	11	2	110	0	0	134
C. New Jersey	520	482	3	0	187	1	48	19	61	42	69	52
Furman U.	520	482	12	22	27	0	359	8	5	0	0	49
Central Connecticut State U.	522	480	27	10	71	40	47	21	50	0	64	150
Saginaw Valley State U.	523	476	13	0	301	0	0	1	29	0	0	132
Eastern Kentucky U.	524	468	0	0	37	0	166	6	9	0	0	250
Oberlin C.	525	463	53	58	25	3	48	9	42	28	0	197
Manhattan C.	526	460	0	0	88	0	0	0	221	0	151	0

TABLE 28

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
St. John's U., New York	527	450	9	0	306	0	100	12	0	0	0	23
U. Texas, Tyler	528	432	0	38	81	0	22	11	19	0	185	76
U. Puerto Rico, Mayaguez	529	421	0	45	0	0	131	0	1	0	48	196
U. South Carolina, Beaufort	530	417	127	38	205	9	0	0	3	0	1	34
U. Puerto Rico, Cayey	531	412	0	0	0	0	54	0	0	358	0	0
Troy U.	532	398	0	0	69	0	13	12	12	0	0	292
U. Wisconsin-Eau Claire	533	389	0	19	73	0	160	19	59	0	0	59
Keck Graduate Institute	534	388	0	0	387	0	0	0	0	0	1	0
Western Carolina U.	535	378	0	101	169	0	1	0	26	0	36	45
New C. Florida	536	367	44	9	150	10	22	14	38	0	7	73
William Paterson U.	537	350	5	32	59	1	0	79	14	0	0	160
Bates C.	538	349	46	35	76	8	39	24	64	0	0	57
Colorado State U., Pueblo	539	347	35	0	307	0	0	0	5	0	0	0
Drake U.	540	340	6	0	250	13	10	6	0	0	0	55
Merrimack C.	541	336	0	0	205	0	36	0	59	0	5	31
U. Virginia's C. Wise	542	333	0	0	0	76	0	0	0	0	0	257
Calvin U.	543	330	14	26	66	17	75	2	0	0	19	111
California State U., San Marcos	544	326	0	146	28	0	0	0	0	60	32	60
Hampton U.	545	324	0	0	0	0	0	0	0	0	0	324
Sonoma State U.	546	321	0	44	45	0	33	7	38	5	9	140
National U. of Natural Medicine	547	305	0	0	305	0	0	0	0	0	0	0
Fisk U.	548	304	4	0	43	0	257	0	0	0	0	0
Western New England U.	549	302	0	0	38	0	0	0	0	0	264	0
Northwestern State U. Louisiana	550	299	36	0	46	7	0	2	41	0	2	165
U.S. Coast Guard Academy	551	287	58	17	0	7	38	0	0	0	101	66
Central Washington U.	552	282	21	102	94	9	12	0	25	0	4	15
Monmouth U.	553	280	38	73	54	0	1	0	18	0	0	96
U. Washington, Tacoma	554	278	0	92	26	0	0	0	0	125	0	35
Lamar U.	555	277	0	0	0	0	0	0	0	0	171	106
Ferris State U.	556	271	0	0	244	0	18	0	0	9	0	0
U. Maryland, Eastern Shore	557	266	0	151	115	0	0	0	0	0	0	0
Norwich U.	558	261	0	26	5	8	4	0	1	0	9	208
Black Hills State U.	559	258	25	0	171	0	7	0	0	0	0	55

TABLE 28

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Citadel Military C. South Carolina	559	258	12	0	33	17	86	2	11	0	34	63
U. Puerto Rico, Humacao	561	252	0	0	0	0	252	0	0	0	0	0
U. Wisconsin-Platteville	562	249	i 5 i	0 i	115 i	4 i	14 i	4 i	24 i	3 i	29 i	51 i
Heidelberg U.	563	243	0	243	0	0	0	0	0	0	0	0
Alfred U.	564	242	0	0	0	0	0	1	0	0	241	0
CUNY, New York City C. of Technology	565	241	10	0	0	24	42	0	20	0	24	121
Western U. of Health Sciences	566	238	0	0	238	0	0	0	0	0	0	0
Palmer C. of Chiropractic, Davenport	567	225	0	0	225	0	0	0	0	0	0	0
Dine C.	568	223	0	0	141	0	0	0	0	0	54	28
Northland C.	569	222	i 0 i	13 i	98 i	3 i	0 i	8 i	26 i	0 i	0 i	74 i
SUNY, Buffalo State U.	569	222	0	40	171	0	0	0	11	0	0	0
Indiana State U.	571	212	0	4	69	0	0	0	0	0	13	126
U. Scranton	571	212	0	6	69	0	31	8	8	0	4	86
Youngstown State U.	573	207	6	0	2	4	16	1	0	0	171	7
U. New Haven	574	204	13	14	33	1	3	0	49	0	52	39
U. Hartford	575	203	11	0	34	0	15	9	17	0	71	46
Butler U.	576	199	0	0	63	4	36	0	18	0	0	78
Abilene Christian U.	577	194	0	0	25	9	18	14	8	0	0	120
U. Southern Maine	578	185	25	16	8	1	0	0	34	0	101	0
Hawaii Pacific U.	579	179	0	144	35	0	0	0	0	0	0	0
Erikson Institute	580	178	0	0	0	0	0	0	0	0	0	178
Ithaca C.	580	178	2	10	19	2	14	6	5	0	0	120
California State U., Stanislaus	582	168	3	2	8	10	32	10	30	0	0	73
CUNY, York C.	583	159	0	39	27	0	16	0	0	0	0	77
U. Puerto Rico, Ponce	584	149	0	0	19	0	0	0	0	0	0	130
Kenyon C.	585	147	0	0	58	20	50	5	14	0	0	0
Gettysburg C.	586	146	0	0	41	0	9	12	9	0	0	75
Fort Lewis C.	587	143	0	33	39	0	11	0	0	0	59	1
U. Houston-Downtown	588	140	15	0	26	0	0	0	0	0	0	99
U. Puget Sound	589	138	3	2	19	3	32	0	5	65	0	9
Bryant U.	590	122	3	0	6	0	0	0	12	0	0	101
U. Hawaii, Maui C.	591	117	32	74	11	0	0	0	0	0	0	0
Gustavus Adolphus C.	592	107	0	15	5	13	34	5	6	0	0	29

TABLE 28

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Alaska, Southeast	593	100	0	21	14	0	36	0	15	0	14	0
Milwaukee School of Engineering	594	71	1	0	36	0	0	0	0	0	29	5
U. Arkansas, Little Rock	595	69	10	0	27	0	7	0	1	0	24	0
U.S. Military Academy	596	66	0	6	47	4	0	0	0	0	4	5
Texas A&M U.-San Antonio	597	51	0	0	14	2	0	6	8	21	0	0
Johnson C. Smith U.	598	48	0	0	0	0	0	0	0	0	0	48
U. Houston-Clear Lake	598	48	5	0	21	0	8	0	7	0	4	3
U. of the District of Columbia	598	48	0	0	0	0	0	0	0	0	0	48
New Mexico Highlands U.	601	43	0	0	29	0	0	0	0	0	0	14
Western Illinois U.	602	42	0	0	10	0	0	0	32	0	0	0
U. Wisconsin-River Falls	603	39	0	0	34	0	5	0	0	0	0	0
Utah Valley U.	604	36	0	0	5	0	31	0	0	0	0	0
Framingham State U.	605	35	0	0	10	0	5	0	13	0	0	7
Lincoln U., Jefferson City	606	34	0 i	4 i	27 i	0 i	0 i	0 i	1 i	1 i	0 i	1 i
Southern U. and A&M C., Baton Rouge	606	34	0	0	0	0	0	0	0	0	34	0
New England C. of Optometry	608	30	0	0	30	0	0	0	0	0	0	0
Middlebury C.	609	25	0	0	25	0	0	0	0	0	0	0
Southern U. and A&M C., Agricultural Research and Extension Center	610	24	0	0	24	0	0	0	0	0	0	0
U. Hawaii, system office	611	22	0	22	0	0	0	0	0	0	0	0
Grambling State U.	612	20	20	0	0	0	0	0	0	0	0	0
MGH Institute of Health Professions	612	20	0	0	0	0	0	0	0	0	0	20
Morehead State U.	614	11	0	0	0	0	0	0	5	0	6	0
Biola U.	615	9	0	0	9	0	0	0	0	0	0	0
Tougaloo C.	616	4 i	0 i	1 i	0 i	0 i	1 i	0 i	0 i	0 i	1 i	1 i
U. Louisiana, Monroe	617	3	0	0	0	0	3	0	0	0	0	0

i = imputed.

nec = not elsewhere classified; S&E = science and engineering.

^a The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^b The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

^c Johns Hopkins University includes the Applied Physics Laboratory, with \$55,756 thousand in institutionally financed R&D expenditures in FY 2023.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 29

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	6,221,128	184,448	91,593	4,118,928	13,942	216,254	13,266	48,351	42,317	1,316,843	175,186
U. Texas M. D. Anderson Cancer Center	1	248,261	0	0	247,338	94	707	15	107	0	0	0
Duke U.	2	219,452	430	279	212,259	147	514	0	471	0	2,896	2,456
U. Pennsylvania	3	203,003	119	17	196,554	0	1,286	146	795	0	3,103	983
SUNY, Polytechnic Institute	4	188,351	0	0	4	0	0	0	0	0	188,347	0
Massachusetts Institute of Technology	5	176,277	30,085	2,540	10,820	830	26,460	0	2,767	9,838	70,285	22,652
Wichita State U.	6	171,010	0	0	1,305	0	0	0	0	0	164,837	4,868
Ohio State U.	7	155,194	2,136	61	89,427	9	2,256	0	295	339	59,821	850
Stanford U.	8	144,300	4,580	4,670	110,700	170	6,538	312	682	0	15,807	841
U. California, San Francisco	9	143,206	0	0	137,546	0	5,660	0	0	0	0	0
Washington U., Saint Louis	10	129,843	362	0	128,294	0	256	0	0	0	169	762
Johns Hopkins U. ^a	11	126,685	1,236	142	114,107	370	818	0	321	295	8,602	794
U. Michigan, Ann Arbor	12	113,903	114	0	78,460	94	2,357	52	1,928	0	30,679	219
U. California, Los Angeles	13	109,531	3,650	654	87,164	12	1,256	301	208	6,872	8,155	1,259
U. California, San Diego	14	96,416	3	16,517	68,066	17	1,375	10	79	0	7,935	2,414
Georgia Institute of Technology	15	94,476	15,200	209	7,438	59	838	76	1,150	0	68,968	538
U. Southern California	16	93,933	545	0	87,783	0	1,057	54	523	0	2,613	1,358
Columbia U. in the City of New York	17	91,828	2,121	898	80,718	0	654	155	90	0	5,226	1,966
Vanderbilt U. and Vanderbilt U. Medical Center	18	86,265	389	78	82,252	0	659	0	118	0	1,517	1,252
U. Louisiana, Lafayette	19	82,197	5,856	1,345	58,008	916	562	0	68	0	8,422	7,020
Icahn School of Medicine at Mount Sinai	20	80,437	0	0	80,437	0	0	0	0	0	0	0
Yale U.	21	80,221	63	0	76,278	0	2,035	0	299	0	1,409	137
U. Texas, Austin	22	79,753	3,073	9,554	10,274	838	2,209	108	2,559	185	36,909	14,044
Purdue U., West Lafayette	23	78,298	2,378	122	12,449	46	11,225	28	738	65	44,304	6,943
U. California, Berkeley	24	75,493	406	0	17,936	86	11,138	270	3,161	8,699	32,255	1,542
U. Alabama, Birmingham	25	74,171	0	0	72,611	0	86	9	0	0	1,465	0
New York U.	26	73,289	1,098	0	63,392	1,964	38	771	161	0	3,975	1,890
Harvard U.	27	71,497	1,085	2,175	44,253	28	15,972	0	1,396	97	5,376	1,115
U. Washington, Seattle	28	71,487	2,053	32	58,286	71	1,002	0	53	0	9,288	702
Northwestern U.	29	67,114	2,537	0	55,084	0	2,425	0	117	1,699	5,008	244
Emory U.	30	64,772	148	147	62,480	17	692	0	0	0	1,232	56
North Carolina State U.	31	64,505	1,385	1,034	26,790	681	652	144	1,426	956	25,097	6,340
U. Colorado Anschutz Medical Campus	32	59,129	0	0	58,997	0	0	81	0	0	51	0
Cornell U.	33	59,081	1,219	0	47,123	0	913	77	164	0	2,728	6,857

TABLE 29

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. North Carolina, Chapel Hill	34	58,179	773	582	53,214	0	1,969	233	135	0	1,071	202
U. California, Davis	35	55,403	296	402	45,517	21	1,294	0	563	0	6,644	666
U. Minnesota, Twin Cities	36	55,081	871	0	47,186	194	1,509	107	402	64	4,261	487
Touro U., New York	37	53,387	0	0	53,387	0	0	0	0	0	0	0
Oregon Health and Science U.	38	53,139	0	0	52,756	0	0	0	0	0	383	0
U. Cincinnati	39	49,685	0	0	44,085	0	169	13	97	606	4,392	323
U. Utah	40	48,761	0	756	41,248	0	721	506	35	0	3,703	1,792
U. Miami	41	48,022	0	206	47,260	0	0	143	330	0	2	81
Carnegie Mellon U.	42	47,152	33,065	188	390	347	362	1	578	0	11,841	380
U. Texas Southwestern Medical Center	43	46,325	0	0	46,325	0	0	0	0	0	0	0
U. California, Irvine	44	46,182	516	92	35,318	0	2,406	152	601	88	6,894	115
U. Wisconsin-Madison	45	46,133	1,191	246	35,972	0	2,153	10	298	2,044	3,654	565
U. Chicago	46	44,990	264	0	40,591	84	868	21	16	0	3,086	60
U. Illinois, Urbana-Champaign	47	44,275	14,183	301	3,724	64	4,064	620	20	30	20,077	1,192
U. Pittsburgh, Pittsburgh	48	43,372	195	299	40,725	0	6	0	0	0	2,048	99
U. Florida	49	42,055	412	34	34,255	30	2,124	8	26	0	4,898	268
Medical C. Wisconsin	50	38,419	0	0	38,401	0	0	0	0	0	18	0
Rutgers, State U. New Jersey, New Brunswick	51	37,495	241	780	33,868	9	475	105	0	0	1,596	421
Texas A&M U., College Station and Health Science Center	52	37,390	456	1,757	9,545	0	1,574	0	77	114	18,477	5,390
U. Maryland ^b	53	37,011	1,658	294	29,329	32	1,097	0	1,069	25	2,212	1,295
Indiana U., Bloomington	54	36,938	672	64	32,890	0	1,441	4	221	58	1,448	140
California Institute of Technology	55	35,867	510	451	707	0	25,277	0	172	0	8,750	0
Virginia Polytechnic Institute and State U.	56	35,761	1,102	0	4,491	921	546	338	140	0	27,100	1,123
U. Iowa	57	34,039	19	0	30,969	0	21	0	42	0	2,276	712
Wake Forest U.	58	33,508	0	0	30,854	96	0	0	184	0	71	2,303
Baylor C. of Medicine	59	33,100	0	0	33,100	0	0	0	0	0	0	0
U. Nebraska, Lincoln and Medical Center ^c	60	32,720	228	28	23,377	503	1,764	26	45	167	5,719	863
U. Virginia, Charlottesville	61	31,588	1,330	0	25,278	0	323	0	0	0	4,466	191
Scripps Research Institute	62	31,164	0	0	31,164	0	0	0	0	0	0	0
U. Kansas	63	30,988	79	186	27,577	0	847	46	118	24	2,106	5
U. Rochester	64	30,075	371	0	26,590	0	1,766	0	0	615	733	0
Pennsylvania State U., University Park and Hershey Medical Center	65	29,300	1,305	300	10,155	115	1,746	179	167	0	14,717	616
Medical U. South Carolina	66	26,042	0	0	26,042	0	0	0	0	0	0	0
U. Arizona	67	25,328	13	1,083	18,644	15	831	73	150	150	4,083	286

TABLE 29

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Temple U.	68	25,150	50	0	24,011	0	53	60	0	0	794	182
Arizona State U.	69	24,693	1,189	185	3,030	0	348	208	1,158	2,217	13,803	2,555
Boston U.	70	23,362	3,151	40	16,037	0	403	279	143	0	2,882	427
Virginia Commonwealth U.	71	22,681	0	0	20,938	0	183	114	48	0	922	476
U. Massachusetts, Medical School	72	21,942	0	0	21,942	0	0	0	0	0	0	0
Thomas Jefferson U.	73	21,845	0	0	21,845	0	0	0	0	0	0	0
Iowa State U.	74	21,246	3	10	14,901	424	511	0	7	0	4,977	413
Clemson U.	75	21,139	399	0	2,742	8	586	247	221	0	11,740	5,196
SUNY, U. Buffalo	76	20,309	438	0	15,410	0	224	0	6	0	4,192	39
Princeton U.	77	20,077	2,759	3,571	1,838	601	3,815	0	1,488	0	5,969	36
Michigan State U.	78	18,603	737	54	8,648	164	1,298	0	57	6	5,262	2,377
U. Texas Health Science Center, Houston	79	17,466	0	0	17,466	0	0	0	0	0	0	0
U. North Dakota	80	17,438	3	85	129	0	33	0	21	0	17,155	12
Georgetown U.	81	17,345	0	0	16,201	2	186	1	104	85	0	766
Rush U.	82	16,533	0	0	16,533	0	0	0	0	0	0	0
Tufts U.	83	15,988	224	0	10,011	4	248	0	722	466	4,170	143
U. Missouri, Columbia	84	15,816	0	0	14,374	0	507	40	95	0	755	45
Texas Tech U.	85	15,461	106	879	6,204	37	400	592	1,991	0	2,438	2,814
U. Colorado Boulder	86	15,045	629	541	764	113	903	0	0	0	9,204	2,891
Louisiana State U., Baton Rouge	87	14,807	300	1,213	7,219	8	580	77	143	0	4,106	1,161
U. California, Santa Barbara	88	14,790	1,869	1,903	24	0	2,541	17	64	803	7,569	0
U. Notre Dame	89	14,640	909	0	674	0	356	3	97	65	11,385	1,151
Colorado State U., Fort Collins	90	13,597	39	541	8,546	313	818	74	200	167	2,895	4
U. South Florida	91	13,502	6	6	12,899	0	0	56	108	0	425	2
U. Georgia	92	12,988	16	245	9,918	0	3	294	251	0	2,074	187
U. Oklahoma, Norman and Health Science Center	93	12,753	590	1,008	8,974	0	202	9	0	0	1,970	0
Oklahoma State U., Stillwater	94	12,528	0	37	8,532	0	228	1	647	1	2,546	536
U. Texas, Dallas	95	12,518	543	0	1,021	0	573	106	49	0	10,166	60
Washington State U.	96	12,077	354	123	9,379	8	484	54	55	92	1,439	89
U. Kentucky	97	11,737	10	72	9,279	15	0	0	0	0	2,327	34
Auburn U., Auburn	98	11,570	23	14	3,381	0	75	907	479	164	3,104	3,423
Northeastern U.	99	11,524	500	124	5,700	0	2,874	498	74	0	1,685	69
Colorado School of Mines	100	11,399	21	3,843	583	94	276	0	69	0	6,459	54
U. Connecticut	101	11,251	610	38	5,344	387	146	250	8	0	4,278	190

TABLE 29

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Rensselaer Polytechnic Institute	102	10,959	4,264	0	169	1,002	428	300	0	0	4,796	0
SUNY, Stony Brook U.	103	10,779	368	2,184	5,959	78	271	93	0	425	1,380	21
U. Texas Health Science Center, San Antonio	104	10,393	0	0	10,393	0	0	0	0	0	0	0
U. Central Florida	105	9,659	1,832	611	584	101	2,842	24	144	78	3,410	33
U. Louisville	106	9,580	0	0	8,664	0	68	0	0	25	823	0
U. Illinois, Chicago	107	9,469	1,387	0	6,498	0	0	0	122	15	1,201	246
U. Massachusetts, Amherst	108	9,220	2,293	288	1,248	0	46	42	11	0	5,025	267
Utah State U.	109	9,204	0	54	773	15	525	6	0	0	7,831	0
Syracuse U.	110	9,170	0	70	229	0	132	0	0	0	961	7,778
Oregon State U.	111	9,154	198	0	4,142	0	321	0	0	12	4,481	0
U. Houston	112	8,565	95	643	1,074	0	289	87	17	0	4,627	1,733
U. New Hampshire	113	8,471	0	895	1,098	0	63	0	0	0	6,094	321
Tulane U.	114	8,428	0	0	8,280	0	79	0	23	0	46	0
George Mason U.	115	8,346	215	282	353	203	0	54	2,352	0	650	4,237
U. Dayton	116	8,193	280	0	0	0	24	0	0	0	7,874	15
U. Tennessee, Knoxville	117	7,899	68	17	3,214	82	11	0	24	85	4,347	51
Kansas State U.	118	7,647	34	0	6,062	65	272	1	0	1	1,212	0
U. California, Santa Cruz	119	7,591	911	686	890	0	1,193	49	837	47	2,805	173
U. Massachusetts, Lowell	120	7,554	478	0	1,642	168	1,392	61	132	0	3,658	23
Rice U.	121	7,506	649	146	275	191	1,909	0	177	0	4,159	0
U. Arkansas, Fayetteville	122	7,368	194	35	3,772	0	217	35	158	0	2,873	84
U. California, Riverside	123	7,288	364	179	3,538	0	1,091	10	160	2	1,944	0
Abilene Christian U.	124	6,934	0	0	107	0	6,827	0	0	0	0	0
Southern Illinois U., Carbondale	125	6,916	0	115	5,990	0	63	42	61	79	491	75
U. Tulsa	126	6,766	0	0	0	0	4	78	0	0	6,682	2
Michigan Technological U.	127	6,632	95	1,025	718	0	95	2	0	6	4,691	0
SUNY, Upstate Medical U.	128	6,335	0	0	6,335	0	0	0	0	0	0	0
U. Texas Medical Branch	129	6,138	0	0	6,138	0	0	0	0	0	0	0
Brown U.	130	6,120	798	0	3,410	0	172	0	35	0	1,577	128
U. Texas, San Antonio	131	5,971	553	43	735	0	545	10	717	0	1,218	2,150
George Washington U.	132	5,655	0	0	4,731	0	0	0	89	0	67	768
Albert Einstein C. of Medicine	133	5,637	0	0	5,637	0	0	0	0	0	0	0
Florida State U.	134	5,614	33	1,891	294	175	582	0	26	29	2,517	67
U. Alaska, Fairbanks	135	5,505	15	1,325	1,005	0	30	0	10	1,905	1,215	0

TABLE 29

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. New Mexico	136	5,469	0	0	5,003	0	0	0	59	0	382	25
Woods Hole Oceanographic Institution	137	5,431	0	4,321	0	0	0	0	0	0	1,110	0
Saint Louis U.	138	5,412	58	14	5,148	0	19	0	0	0	0	173
Georgia Southern U.	139	5,367	0	58	343	0	4,161	2	35	24	359	385
Wayne State U.	140	5,339	0	7	4,021	2	531	1	1	0	347	429
U. Texas, Arlington	141	5,284	300	9	487	0	425	10	21	0	3,492	540
U. Arkansas for Medical Sciences	142	5,274	0	0	5,274	0	0	0	0	0	0	0
U. Delaware	143	5,204	142	872	798	3	780	0	41	0	2,363	205
U. Maine	144	5,043	61	277	1,302	0	0	0	92	1,170	2,115	26
West Virginia U.	145	4,977	0	93	3,970	0	24	53	26	0	807	4
Oakland U.	146	4,953	403	0	1,475	0	1,282	0	0	0	1,793	0
Case Western Reserve U.	147	4,659	113	0	2,516	0	373	0	130	8	1,356	163
East Carolina U.	148	4,648	0	60	4,530	0	0	9	0	0	49	0
U. Vermont	149	4,622	0	0	3,224	11	0	0	0	0	1,387	0
Howard U.	150	4,552	33	0	2,571	0	378	99	5	0	1,411	55
Augusta U.	151	4,396	0	0	4,396	0	0	0	0	0	0	0
Loyola U., Chicago	152	4,302	0	0	4,302	0	0	0	0	0	0	0
U. Tennessee, Health Science Center	153	4,183	0	0	4,183	0	0	0	0	0	0	0
Worcester Polytechnic Institute	154	4,072	110	0	210	0	112	0	0	0	3,640	0
SUNY, Binghamton U.	155	4,067	283	0	67	0	246	13	295	0	3,163	0
Albany Medical C.	156	3,956	0	0	3,956	0	0	0	0	0	0	0
Cold Spring Harbor Laboratory	157	3,914	0	0	3,914	0	0	0	0	0	0	0
Missouri U. of Science and Technology	158	3,907	15	0	14	0	72	0	0	0	3,806	0
Ohio U.	159	3,767	157	3	145	0	65	0	0	0	3,369	28
Louisiana State U., Health Sciences Center, Shreveport	160	3,715	0	0	3,715	0	0	0	0	0	0	0
U. South Carolina, Columbia	161	3,629	185	0	1,055	0	0	0	26	0	2,112	251
Cleveland State U.	162	3,494	0	0	2,910	0	0	0	49	0	477	58
Louisiana State U., Health Sciences Center, New Orleans	163	3,478	0	0	3,478	0	0	0	0	0	0	0
Baylor U.	164	3,460	151	19	45	0	134	0	11	0	2,833	267
Indiana U.-Purdue U., Indianapolis	165	3,434	663	37	1,578	0	0	3	657	0	369	127
Stevens Institute of Technology	166	3,397	264	0	24	0	134	0	0	0	2,975	0
U. Hawaii, Manoa	167	3,390	2	1,503	1,048	0	74	2	13	20	698	30
New Mexico Institute of Mining and Technology	168	3,346	35	150	0	3	0	0	0	0	3,125	33
New York Medical C.	169	3,319	0	0	3,319	0	0	0	0	0	0	0

TABLE 29

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Mississippi	170	3,311	11	0	3,223	0	14	0	0	0	0	63
Western Michigan U. and Homer Stryker M.D. School of Medicine	171	3,280	0	0	387	0	9	153	18	0	2,711	2
Georgia State U.	172	3,269	58	49	1,007	0	156	200	376	0	0	1,423
U. Puerto Rico, Medical Sciences Campus	173	3,259	0	0	3,259	0	0	0	0	0	0	0
Mercer U.	174	3,247	0	0	528	0	0	0	0	0	2,719	0
Mississippi State U.	175	3,140	16	0	1,537	0	77	0	1	0	1,463	46
U. North Carolina, Charlotte	176	3,136	120	43	361	0	312	39	99	0	1,665	497
Rockefeller U.	177	3,089	0	0	3,088	0	1	0	0	0	0	0
Rochester Institute of Technology	178	3,084	36	0	36	0	820	0	0	0	2,188	4
Florida International U.	179	3,019	663	7	950	0	0	134	0	0	1,265	0
Brigham Young U., Provo	180	2,980	15	44	829	0	984	22	0	0	1,086	0
U. Wyoming	181	2,848	177	1,094	1,218	0	20	0	48	0	291	0
Claremont Graduate U.	182	2,709	0	0	0	0	0	0	0	0	0	2,709
U. Nevada, Reno	183	2,666	0	31	1,877	0	53	0	19	0	686	0
Florida Atlantic U.	184	2,611	168	0	1,976	0	44	0	0	0	269	154
U. Michigan, Dearborn	185	2,601	0	0	2	0	0	0	6	0	2,587	6
Philadelphia C. of Osteopathic Medicine	186	2,547	0	0	2,547	0	0	0	0	0	0	0
Saint Joseph's U.	187	2,517	0	0	2,263	0	122	130	0	0	0	2
Milwaukee School of Engineering	188	2,509	6	0	138	0	0	0	0	0	2,365	0
Texas Christian U.	189	2,491	1	44	133	0	157	1	0	0	36	2,119
U. Maryland, Baltimore County	190	2,469	857	299	155	0	308	0	0	0	570	280
Dartmouth C. and Dartmouth Hitchcock Medical Center	191	2,415	126	0	1,448	0	57	0	25	124	635	0
U. Massachusetts, Boston	192	2,400	37	25	367	0	105	57	431	0	95	1,283
U. Toledo	193	2,292	0	14	1,632	0	98	0	15	0	528	5
San Jose State U.	194	2,101	3	986	0	0	12	130	0	0	742	228
U. Rhode Island	195	2,094	0	260	909	0	44	49	89	22	710	11
U. Denver	196	1,978	64	0	315	0	0	0	30	0	1,337	232
U. Alabama, Tuscaloosa	197	1,973	0	106	141	0	4	0	319	0	1,162	241
U. North Texas, Denton	198	1,907	34	17	717	0	542	2	0	0	534	61
New Mexico State U.	199	1,873	0	2	1,208	0	199	125	4	134	201	0
U. Idaho	200	1,846	338	98	1,203	0	0	0	10	0	197	0
U. Memphis	201	1,839	122	54	427	0	2	0	62	0	886	286
U. Akron	202	1,836	0	11	152	0	536	118	0	0	1,019	0
U. Massachusetts, Dartmouth	203	1,808	0	1,375	15	0	250	0	94	0	74	0

TABLE 29

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Drexel U.	204	1,727	0	0	860	0	0	0	0	14	787	66
U. North Carolina, Wilmington	205	1,640	480	0	180	0	0	0	6	0	891	83
Southern Methodist U.	206	1,601	0	124	116	0	0	0	0	801	558	2
U. Nevada, Las Vegas	207	1,599	0	442	354	0	231	0	38	0	309	225
Loma Linda U.	208	1,469	0	0	1,469	0	0	0	0	0	0	0
South Dakota State U.	209	1,432	0	0	1,270	109	0	0	0	0	52	1
U. Wisconsin-Milwaukee	210	1,431	0	0	102	0	77	166	902	0	175	9
Teachers C., Columbia U.	211	1,428	0	0	0	0	0	0	1,428	0	0	0
New Jersey Institute of Technology	212	1,385	623	0	42	0	54	0	0	0	633	33
Texas State U.	213	1,378	344	313	139	0	69	0	39	60	396	18
Miami U.	214	1,350	0	0	519	53	207	128	7	0	408	28
SUNY, C. of Optometry	215	1,328	0	0	1,328	0	0	0	0	0	0	0
U. South Alabama	216	1,300	0	6	1,069	0	0	6	0	0	94	125
U. California, Merced	217	1,294	78	1	52	0	28	0	52	5	454	624
Illinois Institute of Technology	218	1,292	0	0	619	0	98	0	0	0	506	69
North Dakota State U.	218	1,292	42	0	873	0	128	0	100	32	117	0
Eastern Virginia Medical School	220	1,277	0	0	1,277	0	0	0	0	0	0	0
U. Texas, El Paso	221	1,268	157	338	25	0	210	0	0	0	303	235
Rowan U.	222	1,230	144	12	153	44	185	4	0	0	649	39
California Polytechnic State U., San Luis Obispo	223	1,205	7	0	726	0	15	0	43	0	361	53
William & Mary	224	1,174	130	231	247	0	80	0	292	0	0	194
Alaska Pacific U.	225	1,173	0	1,173	0	0	0	0	0	0	0	0
West Texas A&M U.	226	1,135	4	0	642	0	0	0	0	0	489	0
Clarkson U.	227	1,093	0	0	3	0	30	0	45	0	969	46
CUNY, Graduate School of Public Health and Health Policy	228	1,057	0	0	1,057	0	0	0	0	0	0	0
Embry-Riddle Aeronautical U.	229	1,041	82	40	24	0	64	0	0	0	786	45
Creighton U.	230	1,033	30	0	767	8	52	10	65	0	0	101
Northern Arizona U.	231	1,023	0	106	220	0	0	0	0	0	682	15
Boston C.	232	974	20	0	328	0	233	0	313	0	0	80
Montana State U., Bozeman	233	956	3	0	445	0	61	0	0	0	447	0
SUNY, U. Albany	234	927	0	437	297	26	48	0	0	0	98	21
Lehigh U.	235	893	0	0	0	25	100	0	0	0	745	23
Marquette U.	236	879	122	0	281	0	0	111	0	0	364	1
U. North Texas, Health Science Center	237	847	0	0	620	0	0	0	227	0	0	0

TABLE 29

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Colorado Denver	238	846	0	0	397	0	43	260	4	0	101	41
St. Cloud State U.	239	835	10	0	16	0	4	1	77	0	39	688
U. North Florida	240	825	0	0	7	5	16	0	0	0	797	0
Desert Research Institute	241	802	0	802	0	0	0	0	0	0	0	0
Pittsburg State U.	242	755	0	0	0	0	0	0	0	0	755	0
Kent State U.	243	753	78	0	66	0	245	132	17	43	100	72
Southern Illinois U., Edwardsville	244	752	0	5	0	0	230	92	0	0	13	412
CUNY, Hunter C.	245	739	0	0	693	0	36	0	0	0	0	10
U. Alabama, Huntsville	246	731	153	35	0	0	233	0	0	0	304	6
Louisiana Tech U.	247	722	71	0	84	3	74	1	0	0	485	4
Morgan State U.	248	721	140	0	2	0	6	0	158	0	415	0
U. Wisconsin-La Crosse	249	709	0	0	0	0	0	0	704	0	0	5
Pennsylvania State U., Behrend	250	708	0	0	108	0	344	0	0	0	256	0
Portland State U.	250	708	236	0	43	0	15	0	3	0	366	45
Northern Illinois U.	252	705	0	165	0	0	0	0	13	0	527	0
Appalachian State U.	253	702	0	0	693	0	0	8	0	0	0	1
Dakota State U.	254	692	692	0	0	0	0	0	0	0	0	0
Brandeis U.	255	661	117	0	222	0	9	0	313	0	0	0
Naval Postgraduate School	256	654	120	0	0	0	0	0	0	0	534	0
Southern U. and A&M C., Baton Rouge	257	648	16	0	0	0	7	0	30	0	0	595
Ball State U.	258	637	0	0	81	2	0	3	0	0	0	551
Benedict C.	259	635	22	0	0	0	0	0	0	0	613	0
Keck Graduate Institute	260	634	0	0	634	0	0	0	0	0	0	0
North Carolina A&T State U.	261	628	122	0	3	0	0	0	0	2	310	191
Villanova U.	262	622	0	0	0	0	10	0	0	0	612	0
Texas Tech U., Health Sciences Center	263	608	0	0	567	0	0	0	0	0	0	41
Idaho State U.	264	605	0	25	417	0	0	0	0	0	163	0
American U.	265	603	0	0	0	0	0	0	0	0	0	603
U. West Florida	266	601	60	0	45	1	0	0	491	0	0	4
Purdue U., Northwest	267	597	3	0	0	0	55	0	0	0	520	19
Florida A&M U.	268	586	0	0	524	0	0	0	0	0	57	5
U. Missouri, Kansas City	269	582	0	53	270	0	0	57	0	0	202	0
U. Texas Rio Grande Valley	270	569	0	0	59	0	0	0	0	0	508	2
Rosalind Franklin U. of Medicine and Science	271	565	0	0	565	0	0	0	0	0	0	0

TABLE 29

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Occidental C.	272	554	0	309	61	0	107	18	59	0	0	0
Rutgers, State U. New Jersey, Camden	273	544	40	0	265	0	78	9	150	0	0	2
Nova Southeastern U.	274	543	0	29	347	0	0	167	0	0	0	0
U. Houston-Clear Lake	275	533	0	0	433	0	20	0	0	0	80	0
Morehead State U.	276	530	0	0	1	0	0	0	0	0	529	0
U. Colorado Colorado Springs	277	523	216	0	0	0	0	0	0	0	307	0
SUNY, C. of Environmental Science and Forestry	278	515	0	0	409	0	0	0	0	0	41	65
U. Arkansas, Little Rock	279	513	32	0	2	0	0	0	0	0	103	376
Wright State U.	279	513	14	0	496	0	0	0	0	0	3	0
Marshall U.	281	510	0	0	424	0	41	0	0	0	0	45
North Carolina Central U.	282	494	24	8	52	0	65	0	19	33	116	177
U. New Orleans	283	491	14	4	0	0	32	0	19	0	310	112
Prairie View A&M U.	284	490	32	0	52	0	8	0	0	0	398	0
Texas A&M U.-Kingsville	285	487	0	0	452	0	0	0	0	0	35	0
Southeastern Louisiana U.	286	472	0	0	407	0	65	0	0	0	0	0
San Diego State U.	287	469	0	0	111	0	76	0	0	0	265	17
California State U., Stanislaus	288	468	0	0	233	0	0	235	0	0	0	0
Western U. of Health Sciences	289	457	0	0	439	0	0	0	0	0	0	18
U. Puerto Rico, Mayaguez	290	455	9	17	2	27	173	0	0	0	217	10
Marshall B. Ketchum U.	291	454	0	0	454	0	0	0	0	0	0	0
CUNY, Advanced Science Research Center	292	451	0	0	0	0	390	0	0	0	61	0
U. North Carolina, Greensboro	293	450	0	0	321	0	65	0	0	0	0	64
U. Oregon	294	443	14	10	52	0	243	75	0	0	11	38
Hawaii Pacific U.	295	438	0	0	438	0	0	0	0	0	0	0
California State Polytechnic U., Humboldt	296	437	0	0	347	0	0	0	5	0	71	14
Langston U.	297	430	0	0	430	0	0	0	0	0	0	0
Boise State U.	298	426	0	9	113	0	165	0	17	0	122	0
New C. Florida	299	425	0	0	425	0	0	0	0	0	0	0
Central Michigan U.	300	408	0	140	268	0	0	0	0	0	0	0
New England C. of Optometry	301	390	0	0	390	0	0	0	0	0	0	0
Old Dominion U.	302	387	76	49	57	0	93	0	0	0	112	0
Chapman U.	303	383	0	0	383	0	0	0	0	0	0	0
Alabama A&M U.	304	381	7	0	227	2	19	6	18	0	64	38
U. Minnesota, Duluth	304	381	0	0	237	74	0	0	0	0	70	0

TABLE 29

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
DePaul U.	306	372	72	0	0	0	0	0	0	0	0	300
U. Southern Mississippi	306	372	0	120	168	0	71	0	0	0	0	13
Franklin and Marshall C.	308	371	0	0	0	0	0	0	55	0	0	316
CUNY, Lehman C.	309	365	0	0	57	0	283	25	0	0	0	0
Santa Clara U.	310	364	0	0	0	0	0	0	0	0	362	2
U.S. Air Force Academy	311	357	25	7	0	0	10	0	12	0	225	78
Lamar U.	312	342	2	0	5	0	0	0	0	0	117	218
St. John's U., New York	313	341	48	0	224	0	0	69	0	0	0	0
U. Wisconsin-Platteville	314	339	i 6	i 0	i 158	i 4	i 20	i 6	i 33	i 4	i 38	i 70
Alfred U.	315	330	0	0	0	0	0	0	0	0	330	0
Toyota Technological Institute, Chicago	316	321	321	0	0	0	0	0	0	0	0	0
SUNY, Downstate Health Sciences U.	317	313	0	0	313	0	0	0	0	0	0	0
Colgate U.	318	305	0	0	0	0	305	0	0	0	0	0
Bucknell U.	319	299	6	0	0	0	0	0	0	0	293	0
Alabama State U.	320	296	0	0	0	141	0	0	0	0	0	155
Albany C. of Pharmacy and Health Sciences	321	287	i 0	i 0	i 287	i 0	i 0	i 0	i 0	i 0	i 0	i 0
South Dakota School of Mines and Technology	322	286	0	0	0	0	0	0	0	0	286	0
Tarleton State U.	322	286	0	0	186	100	0	0	0	0	0	0
U. Alaska, Anchorage	324	283	0	111	106	0	0	0	0	0	20	46
Duquesne U.	325	275	0	0	182	3	16	0	2	0	61	11
U.S. Military Academy	326	269	0	0	0	3	0	83	0	0	183	0
Catholic U. of America	327	264	0	0	218	0	0	0	0	0	46	0
Arkansas State U., Jonesboro	328	260	0	0	20	0	116	0	73	0	15	36
U. of St. Thomas (MN)	329	255	0	0	4	1	81	0	0	0	166	3
Smith C.	330	253	188	0	0	0	0	0	0	0	65	0
U. Puerto Rico, Rio Piedras	331	252	20	0	180	10	42	0	0	0	0	0
U. Tennessee, Chattanooga	331	252	0	0	11	22	0	7	0	3	209	0
U. Wisconsin-Eau Claire	333	248	0	0	39	0	65	69	68	0	0	7
Western Illinois U.	334	243	0	0	95	0	0	0	0	0	0	148
California State U., Fresno	335	238	0	0	229	0	0	0	9	0	0	0
Sam Houston State U.	336	235	20	0	40	0	0	58	117	0	0	0
Bowling Green State U.	337	233	48	0	152	0	33	0	0	0	0	0
Franklin W. Olin C. of Engineering	338	230	0	0	0	0	0	0	0	0	230	0
Montana Technological U.	338	230	0	29	98	0	0	0	0	0	103	0

TABLE 29

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Texas A&M U.-Corpus Christi	338	230	82	144	0	0	0	0	0	0	1	3
Texas Tech U., Health Sciences Center, El Paso	341	229	0	0	229	0	0	0	0	0	0	0
U. Texas, Tyler	342	227	0	0	96	0	0	0	0	0	126	5
CUNY, City C.	343	223	0	0	86	0	1	0	0	0	122	14
Wesleyan U.	344	221	0	0	151	22	48	0	0	0	0	0
U. Montana, Missoula	345	220	0	92	103	0	25	0	0	0	0	0
California State U., Channel Islands	346	219	0	0	0	0	219	0	0	0	0	0
U. Wisconsin-River Falls	347	213	0	0	167	0	20	0	0	0	15	11
California State U., Fullerton	348	204	0	1	37	0	0	0	166	0	0	0
U. Maryland Center for Environmental Science	349	198	0	189	9	0	0	0	0	0	0	0
Rutgers, State U. New Jersey, Newark	350	195	0	9	6	0	0	0	130	0	0	50
U. Texas of the Permian Basin	351	190	0	4	15	0	34	46	3	0	88	0
Florida Polytechnic U.	352	183	0	0	0	0	6	0	0	0	177	0
Lawrence Technological U.	352	183	0	0	0	0	0	0	0	0	66	117
Norfolk State U.	354	182	95	0	0	0	0	0	0	0	82	5
Gustavus Adolphus C.	355	181	0	0	0	0	181	0	0	0	0	0
Pennsylvania State U., Harrisburg	356	178	0	0	178	0	0	0	0	0	0	0
Purdue U., Fort Wayne	357	172	0	0	103	0	0	0	0	0	69	0
U. Texas Health Science Center, Tyler	357	172	0	0	172	0	0	0	0	0	0	0
California State Polytechnic U., Pomona	359	171	0	0	113	0	0	0	0	0	56	2
Western Carolina U.	359	171	0	0	36	0	0	0	44	0	59	32
Texas A&M International U.	361	170	0	0	0	0	0	0	0	0	0	170
National U. of Natural Medicine	362	169	0	0	169	0	0	0	0	0	0	0
Monmouth U.	363	168	0	147	13	0	0	0	0	0	0	8
Texas Woman's U.	364	166	0	0	166	0	0	0	0	0	0	0
Kennesaw State U.	365	157	52	0	59	17	0	0	0	0	20	9
U. Wisconsin-Oshkosh	365	157	0	0	157	0	0	0	0	0	0	0
Tennessee State U.	367	155	73	0	14	0	0	0	0	0	68	0
Van Andel Research Institute	367	155	0	0	155	0	0	0	0	0	0	0
Illinois State U.	369	152	25	0	91	0	3	0	0	0	0	33
California State U., Long Beach	370	149	4	0	2	9	27	0	18	0	44	45
Manhattan C.	371	146	0	0	26	0	0	0	0	0	82	38
Albany State U.	372	145	0	0	0	0	3	0	7	0	135	0
Elizabeth City State U.	372	145	10	0	0	0	0	0	31	0	0	104

TABLE 29

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Middle Tennessee State U.	374	143	0	0	121	8	14	0	0	0	0	0
Florida Institute of Technology	375	142	0	82	0	0	0	0	0	0	60	0
U. Detroit Mercy	376	140	0	0	1	0	0	0	0	0	139	0
East Tennessee State U.	377	130	0	0	90	0	0	0	0	0	0	40
Fayetteville State U.	377	130	i 21	i 0	i 29	i 0	i 0	i 0	i 8	i 0	i 0	i 72
Furman U.	379	128	0	0	128	0	0	0	0	0	0	0
CUNY, Graduate Center	380	127	68	0	0	0	58	1	0	0	0	0
U. North Carolina, Asheville	381	126	0	0	0	0	0	0	0	0	0	126
U. Oklahoma, Tulsa	382	124	0	0	63	0	0	0	0	0	61	0
West Chester U. Pennsylvania	382	124	0	17	83	23	0	0	0	0	0	1
Tennessee Technological U.	384	120	0	0	0	0	0	0	0	0	120	0
California State U., Northridge	385	113	0	3	0	0	50	0	0	0	60	0
CUNY, John Jay C. of Criminal Justice	386	111	0	0	0	0	0	0	6	0	0	105
Florida Gulf Coast U.	387	108	0	0	4	0	0	0	14	0	63	27
U. Missouri, Saint Louis	388	105	0	0	0	0	67	0	0	0	38	0
Seton Hall U.	389	104	0	0	0	0	0	0	5	0	0	99
Air Force Institute of Technology	390	102	31	0	0	0	71	0	0	0	0	0
Oregon Institute of Technology	391	97	i 3	i 7	i 67	i 1	i 0	i 3	i 0	i 0	i 16	i 0
U. Central Oklahoma	392	95	i 3	i 0	i 48	i 2	i 5	i 1	i 5	i 0	i 10	i 21
Christopher Newport U.	393	94	0	0	94	0	0	0	0	0	0	0
CUNY, Baruch C.	394	91	0	0	75	16	0	0	0	0	0	0
Pennsylvania State U., Altoona	394	91	0	0	0	0	0	0	0	0	91	0
Long Island U.	396	90	0	0	90	0	0	0	0	0	0	0
Western New England U.	397	89	0	0	79	0	0	0	0	0	10	0
U. Wisconsin-Superior	398	87	0	0	0	0	0	0	0	0	0	87
Central Washington U.	399	85	0	11	0	0	0	0	71	0	0	3
Loyola Marymount U.	400	84	0	0	84	0	0	0	0	0	0	0
U. of Health Sciences and Pharmacy in St. Louis	400	84	0	0	84	0	0	0	0	0	0	0
Clark U.	402	81	0	0	75	0	0	0	6	0	0	0
Wellesley C.	403	80	0	9	0	0	71	0	0	0	0	0
Clark Atlanta U.	404	79	53	0	17	0	9	0	0	0	0	0
Murray State U.	404	79	0	0	38	0	24	0	0	0	0	17
Touro U., California	404	79	0	0	79	0	0	0	0	0	0	0
Towson U.	404	79	0	0	79	0	0	0	0	0	0	0

TABLE 29

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Babson C.	408	78	0 i	0 i	0 i	2 i	0 i	0 i	21 i	0 i	0 i	55 i
Western Kentucky U.	408	78	0	0	30	0	0	0	0	0	43	5
Midwestern U.	410	76	0	0	76	0	0	0	0	0	0	0
Roger Williams U.	411	72	4	0	0	0	0	0	0	0	4	64
Pacific U.	412	70	0	0	70	0	0	0	0	0	0	0
U. Northern Colorado	413	69	0	0	66	0	3	0	0	0	0	0
U. San Diego	413	69	0	0	0	0	0	0	0	0	0	69
Southern Connecticut State U.	415	68	0	0	0	0	0	0	0	11	0	57
U. Houston-Downtown	415	68	0	0	0	0	0	0	0	0	0	68
Roseman U. of Health Sciences	417	67	0	0	67	0	0	0	0	0	0	0
Lake Superior State U.	418	66	0	0	48	0	0	0	0	0	18	0
Western Washington U.	418	66	0	0	0	0	1	24	1	0	40	0
C. Charleston	420	64	53	0	0	0	11	0	0	0	0	0
California State U., Monterey Bay	420	64	6	54	4	0	0	0	0	0	0	0
Meharry Medical C.	420	64	0	0	64	0	0	0	0	0	0	0
U. Nebraska, Omaha	423	61	0	0	57	0	0	4	0	0	0	0
New York Institute of Technology	424	60	0	0	39	0	21	0	0	0	0	0
U. Guam	425	59	0	27	32	0	0	0	0	0	0	0
U. Hawaii, Hilo	425	59	0	0	50	0	9	0	0	0	0	0
Eastern Kentucky U.	427	56	0	0	54	0	0	2	0	0	0	0
New School	427	56	0	0	0	0	0	0	47	0	0	9
Seattle U.	429	55	0	0	4	0	0	0	0	0	0	51
U. of the Incarnate Word	430	54	0	0	0	0	0	0	0	0	54	0
Ferris State U.	431	53	0	0	50	0	3	0	0	0	0	0
U. Wisconsin-Green Bay	432	52	1 i	2 i	31 i	0 i	2 i	1 i	2 i	0 i	8 i	5 i
Albion C.	433	50	0	50	0	0	0	0	0	0	0	0
Delaware State U.	434	48	0	0	48	0	0	0	0	0	0	0
Liberty U.	434	48	0	0	48	0	0	0	0	0	0	0
U. of the Virgin Islands	434	48	0	0	48	0	0	0	0	0	0	0
Youngstown State U.	437	47	0	0	0	0	26	0	0	0	21	0
Sonoma State U.	438	46	0	17	29	0	0	0	0	0	0	0
CUNY, Brooklyn C.	439	44	1	1	9	0	33	0	0	0	0	0
U. South Dakota	439	44	0	0	19	0	0	0	0	0	0	25
California State U., Dominguez Hills	441	41	0	0	0	0	0	0	9	0	0	32

TABLE 29

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
CUNY, C. Staten Island	441	41	0	0	0	0	39	0	0	0	0	2
U. Arkansas, Pine Bluff	441	41	0	0	41	0	0	0	0	0	0	0
U. Central Arkansas	444	40	0	0	40	0	0	0	0	0	0	0
Stockton U.	445	36	0	36	0	0	0	0	0	0	0	0
Azusa Pacific U.	446	35	0	0	0	0	0	35	0	0	0	0
Drake U.	447	34	0	0	34	0	0	0	0	0	0	0
Indiana State U.	448	32	0	0	20	0	0	0	0	0	12	0
Stephen F. Austin State U.	448	32	0	15	17	0	0	0	0	0	0	0
U. Louisiana, Monroe	450	30	0	0	0	0	0	0	0	0	0	30
U. New England	451	29	0	0	29	0	0	0	0	0	0	0
California State U., Sacramento	452	26	17	0	6	0	0	0	0	0	2	1
Montclair State U.	452	26	0	0	26	0	0	0	0	0	0	0
U. Nebraska, Kearney	454	25	0	0	23	0	2	0	0	0	0	0
Alcorn State U.	455	24	0	0	24	0	0	0	0	0	0	0
U. New Haven	455	24	0	0	0	0	15	0	9	0	0	0
Robert Morris U.	457	22	0	0	0	0	0	0	0	0	22	0
Butler U.	458	20	0	0	0	0	20	0	0	0	0	0
Missouri State U.	458	20	0	0	20	0	0	0	0	0	0	0
U. Baltimore	458	20	0	0	0	0	0	0	20	0	0	0
U. Scranton	458	20	0	0	20	0	0	0	0	0	0	0
Bentley U.	462	18	0	0	18	0	0	0	0	0	0	0
California State U., Chico	462	18	0	0	13	0	5	0	0	0	0	0
CUNY, system office	462	18	18	0	0	0	0	0	0	0	0	0
James Madison U.	462	18	0	0	0	10	8	0	0	0	0	0
Marian U., Indianapolis	462	18	0	0	0	0	18	0	0	0	0	0
Indiana U. Pennsylvania	467	17	0	0	0	0	0	0	17	0	0	0
Kentucky State U.	467	17	13	0	4	0	0	0	0	0	0	0
Union C., Schenectady	467	17	0	0	0	0	5	0	12	0	0	0
Bryn Mawr C.	470	16	0	0	0	0	0	16	0	0	0	0
Kean U.	471	15	15	0	0	0	0	0	0	0	0	0
Utah Valley U.	472	14	0	0	14	0	0	0	0	0	0	0
Radford U.	473	13	0	0	13	0	0	0	0	0	0	0
Davidson C.	474	12	0	0	0	0	12	0	0	0	0	0
Oklahoma State U., Center for Health Sciences	475	11	0	0	11	0	0	0	0	0	0	0

TABLE 29

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
CUNY, New York City C. of Technology	476	10	0	0	0	10	0	0	0	0	0	0
U. of the Pacific	477	9	0	0	1	0	0	0	0	0	8	0
Barnard C.	478	8	0	0	0	0	8	0	0	0	0	0
CUNY, Queens C.	478	8	0	0	0	0	8	0	0	0	0	0
Eastern Washington U.	478	8	0	0	3	1	0	0	4	0	0	0
Lipscomb U.	478	8	0	0	8	0	0	0	0	0	0	0
Southern U., New Orleans	478	8	0	0	0	0	0	0	0	0	0	8
Trinity C., Hartford	483	7	7	0	0	0	0	0	0	0	0	0
U. North Georgia	483	7	0	0	7	0	0	0	0	0	0	0
Winthrop U.	483	7	0	0	0	0	5	0	0	0	0	2
Fort Lewis C.	486	6	0	0	0	0	6	0	0	0	0	0
Northern Kentucky U.	486	6	0	0	0	0	0	0	1	0	0	5
Saginaw Valley State U.	486	6 i	0 i	0 i	4 i	0 i	0 i	0 i	0 i	0 i	0 i	2 i
Lafayette C.	489	5	0	0	0	0	0	0	0	0	0	5
Wheaton C., Wheaton	489	5	0	0	0	0	5	0	0	0	0	0
Jackson State U.	491	4	0	0	4	0	0	0	0	0	0	0
Lincoln Memorial U.	491	4	0	0	4	0	0	0	0	0	0	0
SUNY, Cobleskill	491	4	0	0	4	0	0	0	0	0	0	0
Texas A&M U.-San Antonio	491	4	0	0	0	0	0	0	0	0	4	0
Tougaloo C.	491	4 i	0 i	0 i	1 i	1 i	0 i	0 i	0 i	1 i	1 i	0 i
William Paterson U.	491	4	0	0	3	0	0	0	0	0	0	1
Fordham U.	497	3	0	0	0	0	0	0	0	0	0	3
Texas A&M U.-Commerce	497	3	3	0	0	0	0	0	0	0	0	0
U. Hartford	497	3	0	0	0	0	0	0	0	0	3	0
California State U., San Bernardino	500	1	0	0	0	0	0	0	1	0	0	0
Northern Michigan U.	500	1	0	0	0	0	0	0	0	0	0	1
Oberlin C.	500	1	0	0	0	0	0	0	1	0	0	0
SUNY, Oswego	500	1	0	0	0	0	0	0	0	0	1	0
Troy U.	500	1	0	0	1	0	0	0	0	0	0	0
U. Washington, Bothell	500	1	0	0	1	0	0	0	0	0	0	0
U. Washington, Tacoma	500	1	0	0	0	0	0	0	0	1	0	0

i = imputed.

nec = not elsewhere classified; S&E = science and engineering.

^a Johns Hopkins University includes the Applied Physics Laboratory, with \$5,990 thousand in business-financed R&D expenditures in FY 2023.

^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^c The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 30

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	6,671,012	102,976	160,734	4,173,988	52,785	302,363	101,674	560,818	68,582	469,350	677,742
U. California, San Francisco	1	313,964	0	0	305,968	0	7,996	0	0	0	0	0
U. Washington, Seattle	2	260,986	2,720	10,797	216,909	1,104	2,590	847	9,378	209	8,229	8,203
Stanford U.	3	219,578	2,696	8,868	148,938	599	11,861	1,802	10,732	144	21,159	12,779
U. California, Los Angeles	4	219,227	1,063	4,203	148,855	2,017	4,692	3,108	23,710	5,423	7,691	18,465
Harvard U.	5	202,605	1,076	2,173	99,983	869	13,111	740	40,082	266	10,961	33,344
U. California, Berkeley	6	188,887	9,218	1,375	45,497	1,800	28,983	6,085	30,699	14,461	22,780	27,989
Johns Hopkins U. ^a	7	168,401	454	481	145,431	379	2,672	204	1,347	1,449	6,568	9,416
U. Wisconsin-Madison	8	153,068	7,717	3,122	77,079	1,588	10,009	3,665	12,706	4,021	13,186	19,975
U. Pennsylvania	9	134,455	521	228	99,648	1,150	3,316	3,915	9,426	0	4,569	11,682
Columbia U. in the City of New York	10	132,930	2,164	16,377	75,291	1,194	4,483	309	9,842	0	4,763	18,507
Cornell U.	11	129,082	1,884	128	108,915	599	3,241	871	3,174	0	5,775	4,495
New York U.	12	118,376	1,397	125	64,446	4,152	3,656	2,545	7,442	0	2,862	31,751
Massachusetts Institute of Technology	13	112,591	2,012	2,957	17,136	2,740	8,822	0	36,281	2,561	25,685	14,397
U. California, San Diego	14	109,398	132	4,974	64,441	402	18,918	741	3,055	0	11,474	5,261
Arizona State U.	15	99,781	878	2,031	24,230	129	7,920	1,970	9,607	9,217	11,923	31,876
Duke U.	16	96,327	114	1,302	72,676	1,674	814	883	8,550	0	5,102	5,212
Boston U.	17	93,532	192	582	73,713	685	861	2,905	4,079	34	4,665	5,816
Yale U.	18	93,363	784	192	79,847	507	2,188	680	3,113	0	1,725	4,327
U. North Carolina, Chapel Hill	19	92,573	2,022	804	60,526	42	2,439	7,715	9,729	0	2,984	6,312
Washington U., Saint Louis	20	89,041	137	471	79,279	16	1,082	578	349	0	2,772	4,357
Emory U.	21	81,897	234	84	72,594	27	1,166	0	776	0	3,171	3,845
U. Michigan, Ann Arbor	22	80,894	1,360	206	52,204	230	2,408	2,162	10,052	215	8,438	3,619
Princeton U.	23	76,101	1,338	1,620	15,755	3,911	14,200	1,727	30,680	0	2,776	4,094
U. Southern California	24	72,744	1,793	1,948	41,568	111	836	136	6,975	0	1,523	17,854
Indiana U., Bloomington	25	69,773	504	32	61,547	394	331	465	3,572	29	515	2,384
Georgetown U.	26	68,114	13,133	0	13,496	1,995	633	291	20,914	844	0	16,808
U. Texas Southwestern Medical Center	27	66,076	0	0	66,076	0	0	0	0	0	0	0
U. Pittsburgh, Pittsburgh	28	64,516	82	259	57,866	161	242	13	1,124	1,633	1,555	1,581
Rutgers, State U. New Jersey, New Brunswick	29	64,220	368	1,438	51,409	427	1,223	730	2,142	16	1,257	5,210
Ohio State U.	30	63,964	438	51	48,025	76	1,311	222	1,422	875	6,768	4,776
Icahn School of Medicine at Mount Sinai	31	62,202	0	0	62,202	0	0	0	0	0	0	0
Northwestern U.	32	58,196	0	151	41,637	162	5,543	36	2,379	286	2,910	5,092

TABLE 30

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Florida	33	58,010	105	462	46,889	176	956	648	826	0	1,387	6,561
Baylor C. of Medicine	34	57,104	0	0	57,104	0	0	0	0	0	0	0
U. Maryland ^b	35	54,377	708	4,041	27,341	309	2,132	538	12,427	25	2,563	4,293
Texas A&M U., College Station and Health Science Center	36	53,710	736	2,456	15,169	272	3,587	217	2,048	42	27,100	2,083
U. Chicago	37	53,670	749	398	23,094	811	8,159	1,008	13,218	0	1,347	4,886
U. Texas, Austin	38	52,764	1,900	2,702	11,771	3,949	4,640	426	6,916	52	10,470	9,938
U. Colorado Anschutz Medical Campus	39	51,546	0	0	50,802	0	204	167	7	0	29	337
U. California, Davis	40	48,643	0	1,603	34,010	116	1,673	286	1,663	0	5,878	3,414
U. Cincinnati	41	44,304	1	12	37,940	57	220	15	1,486	0	970	3,603
George Mason U.	42	40,831	927	269	1,692	208	0	136	30,081	0	414	7,104
U. Minnesota, Twin Cities	43	40,764	33	2	29,969	777	585	1,229	2,354	195	1,061	4,559
Oregon Health and Science U.	44	40,419	0	0	39,261	0	0	0	0	0	1,158	0
Vanderbilt U. and Vanderbilt U. Medical Center	45	39,591	1,744	0	31,102	30	403	645	1,382	0	2,313	1,972
U. Texas M. D. Anderson Cancer Center	46	38,163	0	0	34,539	99	325	683	2,517	0	0	0
U. Alabama, Birmingham	47	36,533	0	0	35,752	0	0	16	129	0	590	46
Rockefeller U.	48	35,953	0	0	34,934	183	836	0	0	0	0	0
Scripps Research Institute	49	35,901	0	0	35,901	0	0	0	0	0	0	0
U. Illinois, Urbana-Champaign	50	35,768	982	31	15,494	244	4,634	524	1,069	354	8,190	4,246
U. Utah	51	35,413	0	186	22,260	103	826	691	295	0	8,625	2,427
Brown U.	52	34,721	390	2,415	10,580	1,221	890	827	9,572	1,289	1,004	6,533
U. Texas Health Science Center, Houston	53	34,341	0	0	34,341	0	0	0	0	0	0	0
Rice U.	54	33,684	52	109	835	230	3,189	40	8,024	0	20,351	854
U. California, Irvine	55	33,514	3,481	607	14,937	1,781	2,844	1,294	1,423	0	2,199	4,948
Medical C. Wisconsin	56	33,075	0	0	32,654	0	0	0	0	0	421	0
Purdue U., West Lafayette	57	31,453	1,539	125	11,743	29	1,888	70	1,680	0	7,468	6,911
U. Virginia, Charlottesville	58	31,392	384	42	15,635	306	767	394	2,127	0	1,661	10,076
U. Arizona	59	31,154	59	697	11,626	72	15,120	228	1,277	29	1,236	810
Georgia Institute of Technology	60	31,073	979	466	2,005	937	981	377	931	0	23,377	1,020
U. Illinois, Chicago	61	30,905	230	5	21,296	250	967	598	1,212	1,662	1,015	3,670
George Washington U.	62	30,534	48	3	18,168	43	68	317	4,830	216	1,042	5,799
Pennsylvania State U., University Park and Hershey Medical Center	63	29,539	1,085	1,031	13,124	132	2,014	2,153	3,171	0	3,166	3,663
Tufts U.	64	29,439	282	31	12,029	32	673	331	9,740	727	2,481	3,113
SUNY, U. Buffalo	65	29,292	37	385	13,934	632	337	0	1,173	0	3,242	9,552

TABLE 30

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
California Institute of Technology	66	29,024	870	2,660	12,381	134	8,500	0	439	0	4,040	0
U. Nebraska, Lincoln and Medical Center ^c	67	27,961	5	0	23,525	95	0	68	418	0	2,944	906
U. California, Santa Barbara	68	27,455	1,829	7,701	397	183	6,875	333	1,029	3,932	4,064	1,112
Wayne State U.	69	25,618	101	4	20,097	0	1,161	329	105	0	1,304	2,517
U. Texas Health Science Center, San Antonio	70	25,514	0	0	25,514	0	0	0	0	0	0	0
U. Notre Dame	71	25,449	3,179	0	7,500	82	609	42	2,749	509	1,842	8,937
U. Miami	72	25,118	191	1,130	20,610	983	101	1,073	273	0	232	525
U. Iowa	73	24,365	0	29	21,020	48	281	229	193	260	817	1,488
Wake Forest U.	74	23,868	2	0	18,189	0	158	274	2,770	0	59	2,416
Case Western Reserve U.	75	23,331	0	145	18,170	9	221	242	1,074	0	2,444	1,026
Michigan State U.	76	22,693	2	33	6,231	247	655	348	3,598	4,790	1,001	5,788
Colorado State U., Fort Collins	77	21,049	0	466	15,665	29	803	0	436	348	1,404	1,898
Cold Spring Harbor Laboratory	78	20,870	0	0	20,870	0	0	0	0	0	0	0
Dartmouth C. and Dartmouth Hitchcock Medical Center	79	20,865	42	338	17,038	637	460	314	545	28	756	707
U. Hawaii, Manoa	80	20,472	0	13,475	4,202	17	501	31	139	627	1,290	190
U. Massachusetts, Medical School	81	20,295	0	0	20,295	0	0	0	0	0	0	0
Boston C.	82	19,273	0	0	1,426	196	759	1,143	1,575	0	13	14,161
Northeastern U.	83	18,604	552	499	4,497	41	1,703	2,258	1,428	0	2,907	4,719
U. California, Santa Cruz	84	18,454	862	3,325	3,619	123	4,051	172	1,647	77	2,593	1,985
U. Colorado Boulder	85	18,275	82	657	3,323	67	4,112	1,280	2,451	31	1,917	4,355
Virginia Commonwealth U.	86	17,458	294	80	14,385	98	394	54	191	0	1,269	693
Albert Einstein C. of Medicine	87	16,866	0	0	16,866	0	0	0	0	0	0	0
U. New Mexico	88	16,855	0	0	14,607	2	3	21	1,796	37	126	263
Tulane U.	89	16,709	35	462	13,824	91	38	241	1,057	0	686	275
Temple U.	90	16,517	36	304	11,331	12	123	783	688	0	415	2,825
U. Texas, Dallas	91	16,383	646	237	6,060	122	1,728	274	510	10	4,167	2,629
New School	92	16,080	41	0	654	0	0	94	6,178	2,576	2,908	3,629
U. South Florida	93	16,015	0	526	12,591	136	91	35	1,239	294	672	431
U. Rochester	94	16,014	188	78	13,358	98	1,308	92	386	119	375	12
Carnegie Mellon U.	95	15,669	8,740	78	840	86	632	409	791	19	3,863	211
U. Texas Rio Grande Valley	96	15,016	31	68	14,170	108	60	10	0	0	77	492
Texas Tech U.	97	14,994	62	215	5,295	56	565	443	1,310	0	1,312	5,736
Teachers C., Columbia U.	98	14,239	45	0	4,341	0	0	1,037	8,722	0	0	94

TABLE 30

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Thomas Jefferson U.	99	13,815	0	0	13,815	0	0	0	0	0	0	0
Saint Louis U.	100	13,484	415	539	5,591	4	969	75	1,430	0	791	3,670
U. Kansas	101	13,436	84	600	8,052	39	40	772	129	0	648	3,072
Iowa State U.	102	13,084	0	0	8,343	9	168	380	167	0	3,978	39
Virginia Polytechnic Institute and State U.	103	13,021	512	85	4,520	105	193	220	439	0	6,831	116
Baylor U.	104	12,667	0	128	311	21	607	1,472	671	0	131	9,326
U. Kentucky	105	12,511	482	41	10,402	88	26	41	61	138	948	284
Washington State U.	106	12,411	23	127	7,604	27	800	250	291	443	344	2,502
U. Massachusetts, Amherst	107	12,373	530	137	2,750	139	642	754	1,404	1	4,918	1,098
U. Connecticut	108	12,293	48	145	7,248	44	163	1,984	370	391	496	1,404
Georgia State U.	109	12,131	25	110	2,165	43	199	583	2,691	0	0	6,315
U. Georgia	110	11,982	51	709	8,964	79	32	210	296	0	752	889
U. Missouri, Columbia	111	11,225	0	89	8,835	158	0	2	275	0	793	1,073
U. California, Riverside	112	10,826	65	156	2,036	400	289	1,604	3,328	325	1,376	1,247
Brandeis U.	113	10,730	110	0	905	146	218	67	7,456	0	154	1,674
U. Texas Medical Branch	114	10,496	0	0	10,181	0	0	0	0	0	315	0
Woods Hole Oceanographic Institution	115	10,476	0	9,004	0	0	0	0	0	0	1,472	0
SUNY, Stony Brook U.	116	10,329	49	1,131	4,671	433	1,347	210	92	867	1,462	67
U. Oklahoma, Norman and Health Science Center	117	10,096	0	777	7,688	64	443	15	548	0	422	139
Kansas State U.	118	9,860	0	0	8,613	71	64	98	305	0	300	409
American U.	119	9,510	0	57	28	0	207	1	4,019	646	0	4,552
Syracuse U.	120	8,570	28	16	502	21	353	18	1,959	0	334	5,339
Drexel U.	121	8,475	32	0	5,314	8	60	473	550	269	1,432	337
U. Delaware	122	8,191	178	386	1,329	52	839	643	621	221	2,858	1,064
Rush U.	123	8,157	0	0	8,147	0	0	10	0	0	0	0
Medical U. South Carolina	124	8,152	0	0	8,152	0	0	0	0	0	0	0
U. New Hampshire	125	7,984	0	341	4,993	0	4	0	2,186	0	67	393
Florida International U.	126	7,971	422	2,314	1,292	36	206	512	1,665	161	793	570
U. South Carolina, Columbia	127	7,960	75	188	3,184	73	0	1,543	883	0	980	1,034
Mississippi State U.	128	7,858	0	28	6,153	5	172	53	920	9	408	110
U. Tennessee, Knoxville	129	7,696	0	0	5,238	26	352	4	236	265	1,119	456
U. Arkansas, Fayetteville	130	7,514	0	61	3,475	78	78	6	509	13	1,126	2,168
Chapman U.	131	7,481	0	7	2,272	0	368	0	2,490	0	0	2,344

TABLE 30

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Florida Atlantic U.	132	7,308	0	36	6,435	8	8	145	0	0	565	111
U. Vermont	133	7,305	242	0	6,080	201	71	127	31	0	217	336
Texas State U.	134	7,106	37	860	572	22	334	15	208	11	386	4,661
U. Denver	135	7,038	0	0	179	35	335	486	1,892	0	230	3,881
Augusta U.	136	6,836	0	0	6,797	0	15	0	24	0	0	0
U. Tennessee, Health Science Center	137	6,814	0	0	6,814	0	0	0	0	0	0	0
Indiana U.-Purdue U., Indianapolis	138	6,776	0	53	1,383	35	10	74	4,527	5	46	643
U. Massachusetts, Boston	139	6,733	2	1,331	1,193	0	544	788	1,452	0	0	1,423
U. Oregon	140	6,634	39	90	2,754	301	549	259	1,658	39	316	629
U. Houston	141	6,492	0	38	1,331	131	1,294	798	12	1	1,247	1,640
Louisiana State U., Baton Rouge	142	6,295	167	1,134	2,535	60	576	18	279	0	1,176	350
U. Louisville	143	6,261	0	0	5,408	2	62	322	49	0	127	291
U. Arkansas for Medical Sciences	144	6,102	0	0	6,102	0	0	0	0	0	0	0
High Tech High Graduate School of Ed.	145	5,939	0	0	0	0	0	0	0	0	0	5,939
Texas A&M U.-Kingsville	146	5,932	0	86	5,728	0	47	0	0	0	46	25
U. Texas Health Science Center, Tyler	147	5,468	0	0	5,468	0	0	0	0	0	0	0
Cleveland State U.	148	5,423	0	0	3,817	0	2	0	0	0	1,197	407
William & Mary	149	5,385	69	331	164	41	194	37	3,866	0	0	683
Howard U.	150	5,140	94	0	3,751	6	35	840	25	0	342	47
Clemson U.	151	5,110	17	0	2,160	53	241	41	181	0	1,624	793
Auburn U., Auburn	152	5,092	0	454	3,204	42	17	105	14	23	1,048	185
Louisiana State U., Health Sciences Center, Shreveport	153	4,995	0	0	4,995	0	0	0	0	0	0	0
U. Texas, Arlington	154	4,708	10	40	574	7	258	0	0	0	2,134	1,685
SUNY, U. Albany	155	4,707	42	427	923	24	2,500	229	467	0	14	81
U. Mississippi	156	4,583	0	0	2,869	21	9	86	374	0	283	941
Uniformed Services U. of the Health Sciences	157	4,489	0	0	4,483	0	0	6	0	0	0	0
North Carolina State U.	158	4,472	88	129	1,914	257	634	102	26	6	1,170	146
CUNY, Graduate Center	159	4,450	3	36	121	242	468	58	1,011	0	0	2,511
Montana State U., Bozeman	160	4,403	0	181	2,111	16	313	18	25	0	779	960
Morehouse School of Medicine	161	4,359	0	0	4,359	0	0	0	0	0	0	0
Louisiana State U., Health Sciences Center, New Orleans	162	4,235	0	0	4,235	0	0	0	0	0	0	0
Van Andel Research Institute	163	4,149	0	0	4,149	0	0	0	0	0	0	0
Loyola U., Chicago	164	4,062	62	0	2,986	0	0	72	672	0	0	270

TABLE 30

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
San Diego State U.	165	3,666	83	0	1,512	136	332	285	744	0	138	436
U. Central Florida	166	3,642	159	8	1,434	125	340	40	318	35	531	652
East Tennessee State U.	167	3,601	0	36	3,006	0	7	2	0	0	0	550
Florida State U.	168	3,466	0	441	1,108	87	110	115	396	290	307	612
U. Rhode Island	169	3,441	53	1,533	305	0	433	0	17	12	52	1,036
Southern Methodist U.	170	3,399	0	0	78	17	459	14	50	174	44	2,563
Colorado School of Mines	171	3,388	1	351	33	0	776	0	99	0	1,926	202
U. Maryland, Baltimore County	172	3,332	175	115	288	0	367	384	232	249	327	1,195
U. Memphis	173	3,273	0	0	205	0	15	85	900	65	525	1,478
Oregon State U.	174	3,260	169	208	2,031	7	0	124	189	169	363	0
U. Maine	174	3,260	0	1,167	1,269	0	89	0	382	16	153	184
South Dakota State U.	176	3,251	33	0	2,780	0	0	0	31	0	348	59
U. Toledo	177	3,230	0	930	1,779	7	109	0	5	0	178	222
Texas Tech U., Health Sciences Center	178	3,205	0	0	3,111	0	0	0	0	0	0	94
Villanova U.	179	3,165	0	0	409	0	86	4	39	0	244	2,383
CUNY, John Jay C. of Criminal Justice	180	3,124	0	0	174	0	5	1	375	14	0	2,555
Rensselaer Polytechnic Institute	181	3,123	14	0	610	6	143	0	3	0	2,104	243
California State Polytechnic U., Humboldt	182	3,094	0	241	925	20	30	0	271	0	1,373	234
New Mexico State U.	183	3,039	0	0	201	9	2,560	0	21	19	85	144
SUNY, Downstate Health Sciences U.	184	3,005	0	0	3,005	0	0	0	0	0	0	0
Meharry Medical C.	185	2,937	0	0	2,937	0	0	0	0	0	0	0
DePaul U.	186	2,911	166	0	35	27	11	45	212	0	0	2,415
Desert Research Institute	187	2,890	0	483	2,407	0	0	0	0	0	0	0
Rutgers, State U. New Jersey, Newark	188	2,880	14	74	819	0	68	400	1,065	0	0	440
West Virginia U.	189	2,874	0	0	1,624	0	41	122	129	30	758	170
U. Alaska, Fairbanks	190	2,814	1	980	866	0	742	0	0	0	209	16
Texas A&M U.-Corpus Christi	191	2,783	413	1,482	540	0	214	1	49	60	6	18
Pepperdine U.	192	2,771	0	0	2,193	0	0	24	409	0	0	145
Duquesne U.	193	2,755	0	115	1,735	5	0	58	93	0	18	731
Brigham Young U., Provo	194	2,649	0	20	634	45	413	21	75	0	861	580
Loma Linda U.	195	2,634	0	0	2,594	0	0	36	0	0	0	4
Wellesley C.	196	2,628	32	198	323	212	0	466	526	14	0	857
U. Massachusetts, Lowell	197	2,527	0	0	844	58	225	21	193	0	743	443

TABLE 30

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Western Washington U.	198	2,520	176	726	47	54	372	636	108	85	13	303
U. Montana, Missoula	199	2,498	93	383	1,838	13	52	2	47	0	0	70
San Jose State U.	200	2,478	186	934	124	68	234	74	303	0	136	419
U. California, Merced	201	2,464	124	45	555	1	193	0	822	117	302	305
U. South Alabama	202	2,422	0	218	387	9	0	1,785	0	0	23	0
Marquette U.	203	2,385	0	0	1,285	38	101	3	79	0	272	607
California State U., East Bay	204	2,381	0	0	66	0	0	0	24	0	0	2,291
Loyola Marymount U.	205	2,277	0	0	221	0	22	0	294	228	0	1,512
East Carolina U.	206	2,267	0	76	1,718	0	35	44	271	0	0	123
Portland State U.	207	2,244	16	0	183	0	310	65	541	0	224	905
U. Missouri, Saint Louis	208	2,190	65	0	878	11	0	2	758	0	0	476
California Polytechnic State U., San Luis Obispo	209	2,182	0	513	1,311	0	232	2	10	0	85	29
Rochester Institute of Technology	210	2,178	365	0	379	71	315	0	290	0	619	139
U. North Texas, Denton	211	2,170	27	30	682	0	262	234	119	0	150	666
New York Medical C.	212	2,169	0	0	2,169	0	0	0	0	0	0	0
U. North Carolina, Asheville	213	2,148	0	90	348	0	25	0	208	231	0	1,246
Catholic U. of America	214	2,124	0	0	0	0	0	0	842	0	40	1,242
SUNY, Upstate Medical U.	215	2,054	0	0	2,054	0	0	0	0	0	0	0
U. Texas, San Antonio	216	1,988	14	21	924	0	305	0	143	168	42	371
Fordham U.	217	1,957	0	0	209	0	114	204	254	0	0	1,176
U. Wyoming	218	1,934	0	36	1,751	16	0	3	28	3	19	78
U. Nevada, Reno	219	1,926	0	0	514	46	146	41	385	0	752	42
Old Dominion U.	220	1,915	122	56	445	0	55	28	66	0	928	215
Florida Gulf Coast U.	221	1,891	0	19	63	2	21	0	85	0	20	1,681
Kent State U.	222	1,872	18	256	419	11	266	329	291	0	1	281
Trinity U.	223	1,834	21	7	370	15	832	67	113	0	21	388
Clark U.	224	1,804	0	693	699	0	7	30	260	0	0	115
U. Texas, El Paso	225	1,770	5	13	273	11	316	132	38	0	187	795
U. Alabama, Tuscaloosa	226	1,753	3	102	292	28	12	20	113	0	670	513
Oakland U.	227	1,636	77	0	657	0	420	25	0	0	438	19
Montclair State U.	228	1,621	47	327	154	0	15	213	192	0	5	668
New Jersey Institute of Technology	229	1,616	83	0	36	85	233	0	0	0	684	495
Charles R. Drew U. of Medicine and Science	230	1,610	0	0	1,610	0	0	0	0	0	0	0

TABLE 30

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
CUNY, Advanced Science Research Center	231	1,574	0	5	497	0	1,061	0	0	0	2	9
Philadelphia C. of Osteopathic Medicine	232	1,563	0	0	1,563	0	0	0	0	0	0	0
U. Maryland Center for Environmental Science	232	1,563	0	1,057	506	0	0	0	0	0	0	0
San Francisco State U.	234	1,536	0	169	766	21	38	0	371	167	0	4
Hartford International U. for Religion and Peace	235	1,485	0	0	0	0	0	0	0	0	0	1,485
California State U., Long Beach	236	1,468	0	0	158	0	14	0	81	182	131	902
CUNY, Graduate School of Public Health and Health Policy	237	1,451	0	0	1,451	0	0	0	0	0	0	0
U. Wisconsin-Milwaukee	238	1,450	26	73	475	26	0	104	199	0	274	273
Santa Clara U.	239	1,424	0	0	83	1	429	21	401	0	300	189
California State U., Northridge	240	1,381	60	142	372	101	270	120	0	0	194	122
Worcester Polytechnic Institute	241	1,380	191	0	228	5	34	0	64	0	718	140
Jackson State U.	242	1,375	45	0	439	4	0	60	118	232	283	194
Albany Medical C.	243	1,360	0	0	1,360	0	0	0	0	0	0	0
Hope C.	244	1,308	28	0	125	0	73	108	122	0	69	783
Biola U.	245	1,298	0	0	0	0	0	665	0	0	0	633
CUNY, Hunter C.	246	1,293	3	0	341	8	41	167	326	0	0	407
U. Massachusetts, Dartmouth	247	1,267	0	880	208	0	45	0	27	0	80	27
U. Colorado Denver	248	1,258	1	2	444	17	65	252	5	0	6	466
Northern Arizona U.	249	1,250	0	4	831	0	20	54	8	8	87	238
Claremont Graduate U.	250	1,228	0	0	0	0	0	115	350	0	0	763
North Dakota State U.	251	1,215	1	6	803	2	0	51	256	0	84	12
MGH Institute of Health Professions	252	1,206	0	0	0	0	0	0	0	0	0	1,206
Delaware State U.	253	1,181	0	0	527	0	0	15	0	261	0	378
Marshall U.	254	1,172	0	0	790	0	2	0	0	0	62	318
U. Tulsa	255	1,149	68	0	78	0	0	50	105	0	101	747
California State U., Fresno	256	1,120	0	0	1,034	36	0	24	21	0	0	5
U. Nevada, Las Vegas	257	1,096	0	0	393	2	0	312	46	0	39	304
Lehigh U.	258	1,081	0	0	395	1	197	0	0	0	326	162
SUNY, C. of Environmental Science and Forestry	259	1,073	0	15	577	1	10	0	0	0	320	150
Barnard C.	260	1,071	115	2	30	0	44	186	413	0	0	281
Texas Christian U.	261	1,069	0	12	368	0	163	13	2	0	0	511
Miami U.	262	1,066	0	7	368	26	47	37	13	0	248	320
Calvin U.	263	1,060	0	1	59	0	17	0	2	0	0	981

TABLE 30

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Hamilton C.	297	819	0	0	0	0	78	0	94	0	0	647
Utah State U.	298	813	2	0	537	26	0	194	0	0	54	0
Xavier U. Louisiana	299	803	0	0	775	0	9	0	0	0	0	19
CUNY, Baruch C.	300	785	0	131	23	18	0	16	38	0	0	559
Texas Woman's U.	300	785	0	0	275	0	4	492	1	0	0	13
U. South Dakota	302	782	0	0	735	0	47	0	0	0	0	0
James Madison U.	303	780	0	1	92	106	99	1	107	0	77	297
Oklahoma State U., Stillwater	304	773	0	0	377	37	63	15	1	0	90	190
Nova Southeastern U.	305	762	0	316	311	0	0	98	0	0	0	37
Bentley U.	306	751	0	0	751	0	0	0	0	0	0	0
U. Akron	307	746	0	0	71	5	492	77	9	0	83	9
Virginia State U.	308	713	0	0	10	0	0	0	0	1	2	700
CUNY, Queens C.	309	710	0	28	11	78	58	250	186	34	0	65
Boise State U.	310	704	6	10	520	11	21	5	54	0	60	17
U.S. Military Academy	311	700	294	0	0	0	0	0	406	0	0	0
Swarthmore C.	312	697	0	0	98	4	226	18	180	0	0	171
La Sierra U.	313	696	0	0	4	0	0	40	0	0	0	652
California State U., San Bernardino	314	695	0	0	0	11	0	684	0	0	0	0
U. Alabama, Huntsville	315	689	152	18	41	40	7	0	0	0	430	1
Wesleyan U.	316	688	0	0	130	30	198	1	0	0	0	329
Southern Illinois U., Carbondale	317	672	0	23	463	31	0	0	93	0	0	62
U. Washington, Bothell	318	667	0	0	125	0	0	0	115	230	0	197
Illinois State U.	319	664	0	0	119	32	24	33	242	0	0	214
U. Puerto Rico, Mayaguez	320	660	28	1	0	24	178	0	0	0	429	0
U. North Carolina, Wilmington	321	656	461	0	46	0	0	0	0	0	115	34
Morgan State U.	322	644	9	0	114	0	0	1	102	0	216	202
Occidental C.	323	638	0	355	71	0	124	20	68	0	0	0
Pratt Institute	324	630	0	0	0	0	0	0	0	0	0	630
Bryn Mawr C.	325	629	5	0	25	11	62	0	275	0	0	251
Towson U.	326	622	2	2	57	6	28	23	7	0	0	497
Eastern Virginia Medical School	327	612	0	0	612	0	0	0	0	0	0	0
Monmouth U.	327	612	0	434	58	0	0	0	120	0	0	0
Rosalind Franklin U. of Medicine and Science	329	608	0	0	588	0	0	20	0	0	0	0

TABLE 30

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Western Michigan U. and Homer Stryker M.D. School of Medicine	330	603	0	0	290	18	26	0	4	6	33	226
Northeast Ohio Medical U.	331	601	0	12	587	0	0	0	0	2	0	0
Skidmore C.	332	586	0	321	109	10	0	84	62	0	0	0
Grand Valley State U.	333	584	4	1	4	0	0	0	565	0	0	10
C. Charleston	334	571	0	3	88	13	0	21	173	0	29	244
Long Island U.	335	569	0	0	429	0	0	44	1	0	0	95
California State U., Sacramento	336	556	0	34	63	0	0	7	137	114	29	172
Fairfield U.	337	553	3	2	58	0	23	41	35	0	121	270
U. North Carolina, Charlotte	337	553	0	0	216	8	0	68	45	0	80	136
Franklin and Marshall C.	339	543	0	325	17	0	199	2	0	0	0	0
U. San Diego	340	542	0	0	0	0	253	0	24	0	5	260
U. Alaska, Anchorage	341	537	0	7	341	0	0	0	62	0	74	53
Gallaudet U.	342	526	503	0	23	0	0	0	0	0	0	0
U. Washington, Tacoma	343	520	0	299	44	0	0	0	0	82	0	95
U. Nebraska, Omaha	344	512	260	14	86	3	0	21	87	0	0	41
Smith C.	345	509	0	28	318	0	19	0	64	57	0	23
Indiana U. Pennsylvania	346	508	0	0	224	0	0	47	4	14	0	219
Fisk U.	347	504	3	0	0	52	437	10	0	0	0	2
Wichita State U.	347	504	0	0	40	8	13	0	10	0	61	372
Texas Tech U., Health Sciences Center, El Paso	349	501	0	0	491	0	0	0	0	0	0	10
Tarleton State U.	350	500	0	0	73	0	109	7	1	0	59	251
Western U. of Health Sciences	350	500	0	0	162	0	0	0	0	0	0	338
U. Southern Mississippi	352	499	0	179	61	0	79	0	142	0	0	38
Canisius U.	353	494	0	0	0	0	0	0	0	494	0	0
Texas A&M U.-Commerce	353	494	0	0	308	2	26	0	0	0	1	157
Davidson C.	355	492	29	0	46	192	0	0	179	0	0	46
Vassar C.	356	490	0	0	198	19	34	6	233	0	0	0
U. New Haven	357	487	30	20	108	0	0	0	203	0	27	99
Claremont McKenna C.	358	485	0	0	0	40	0	11	410	0	0	24
Northern Illinois U.	359	469	0	0	65	10	78	43	6	0	52	215
Creighton U.	360	467	14	0	346	3	23	6	28	0	0	47
Toyota Technological Institute, Chicago	361	463	463	0	0	0	0	0	0	0	0	0
Whitman C.	362	443	0	85	14	0	338	0	0	0	0	6

TABLE 30

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Richmond	363	436	0	0	82	0	70	114	2	0	0	168
Saint Joseph's U.	364	434	0	0	243	0	169	5	0	0	0	17
California State U., Fullerton	365	428	169	0	18	0	29	15	9	0	0	188
Seattle U.	365	428	0	0	30	10	2	0	289	0	51	46
U. Baltimore	367	422	0	0	0	0	0	0	390	0	0	32
Clarkson U.	368	406	0	0	26	0	150	5	0	0	195	30
Roger Williams U.	368	406	0	0	293	0	9	0	0	0	0	104
U. West Florida	370	402	1	0	24	0	0	0	9	0	0	368
U. New England	371	395	0	58	337	0	0	0	0	0	0	0
West Chester U. Pennsylvania	372	392	0	0	78	0	35	121	147	0	0	11
Reed C.	373	391	i 7	i 0	i 157	i 6	i 39	i 14	i 46	i 0	i 0	i 122
Fort Lewis C.	374	384	24	0	11	0	15	0	0	0	0	334
U. Tennessee, Chattanooga	375	381	0	0	18	0	19	70	0	34	236	4
Norfolk State U.	376	380	28	0	239	0	23	0	1	0	89	0
Middlebury C.	377	376	0	4	1	0	29	0	137	0	0	205
U. Puerto Rico, Rio Piedras	378	375	0	0	0	0	8	0	64	0	0	303
U. Puerto Rico, Cayey	379	374	0	0	18	0	0	0	190	166	0	0
Arcadia U.	380	367	0	0	25	0	0	0	0	0	0	342
Pacific U.	381	365	0	0	287	0	0	0	0	0	0	78
Wright State U.	382	360	0	0	316	4	9	2	0	0	0	29
Colby C.	383	356	0	0	38	0	19	76	68	0	0	155
Keck Graduate Institute	384	354	0	0	354	0	0	0	0	0	0	0
Hawaii Pacific U.	385	344	0	14	330	0	0	0	0	0	0	0
Winston-Salem State U.	386	336	0	0	114	0	0	0	220	0	0	2
C. New Jersey	387	332	0	0	169	0	26	6	17	108	6	0
U. Michigan, Dearborn	388	331	0	0	0	0	0	264	28	0	28	11
New Mexico Institute of Mining and Technology	389	324	0	197	0	0	16	0	0	0	111	0
Lewis and Clark C.	390	319	0	3	120	0	41	0	43	0	0	112
California State U., Los Angeles	391	317	0	0	0	0	104	84	120	0	0	9
U. Louisiana, Lafayette	391	317	0	20	16	0	0	18	2	0	261	0
Sam Houston State U.	393	315	0	11	53	0	46	17	37	0	0	151
Dine C.	394	314	0	0	211	0	0	0	0	0	0	103
Spelman C.	395	310	0	0	0	0	0	0	0	145	0	165

TABLE 30

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields										
Furman U.	396	308	0	73	161	0	38	4	7	0	0	25										
Pennsylvania State U., Behrend	396	308	0	0	218	46	4	35	0	0	2	3										
Ball State U.	398	306	0	0	191	0	55	3	25	0	0	32										
Pennsylvania State U., Harrisburg	399	303	0	0	10	0	0	45	50	0	7	191										
Providence C.	399	303	0	3	93	0	3	0	20	0	0	184										
U. Wisconsin-Stevens Point	401	302	0	0	293	0	9	0	0	0	0	0										
Northland C.	402	300	i	0	16	i	4	i	0	i	10	i	36	i	0	i	100	i				
Eastern Michigan U.	403	297	0	0	98	0	21	88	53	0	37	0										
Indiana U., South Bend	404	295	0	0	0	0	75	105	0	0	0	115										
U. North Florida	405	293	0	0	95	0	20	0	76	0	0	102										
Mount Holyoke C.	406	292	1	18	0	0	56	53	14	0	0	150										
North Carolina A&T State U.	406	292	28	0	46	0	1	0	0	34	7	176										
Purdue U., Fort Wayne	408	291	0	0	0	291	0	0	0	0	0	0										
SUNY, C. Brockport	409	290	0	0	250	0	0	0	40	0	0	0										
Pomona C.	410	285	0	0	16	0	40	2	227	0	0	0										
Sul Ross State U.	411	283	0	0	121	0	151	0	0	11	0	0										
U. San Francisco	412	279	0	0	48	0	0	0	24	0	0	207										
U. of St. Thomas (MN)	413	277	0	0	0	0	0	241	10	0	25	1										
Macalester C.	414	275	7	15	24	0	51	2	42	0	0	134										
Azusa Pacific U.	415	273	0	0	100	0	1	117	0	0	7	48										
Bates C.	416	272	175	0	61	3	0	0	8	0	0	25										
Georgia Southern U.	417	270	0	1	165	0	8	0	39	0	57	0										
Haverford C.	417	270	3	i	13	i	108	i	2	i	25	i	8	i	30	i	0	i	0	i	81	i
U. New Orleans	419	267	0	92	1	0	11	1	130	0	0	32										
Midwestern U.	420	265	0	0	265	0	0	0	0	0	0	0										
Merrimack C.	421	247	0	0	247	0	0	0	0	0	0	0										
SUNY, Binghamton U.	422	242	0	0	152	8	0	40	31	0	2	9										
U. Northern Colorado	423	240	0	0	213	23	0	0	0	0	0	4										
Grinnell C.	424	239	16	0	0	0	0	0	32	0	0	191										
Southern Connecticut State U.	424	239	0	0	43	0	6	6	2	145	0	37										
Pace U.	426	237	124	0	3	0	36	44	0	0	15	15										
Purdue U., Northwest	427	236	19	0	0	0	35	5	0	30	26	121										
Amherst C.	428	235	4	0	1	0	150	66	9	0	0	5										

TABLE 30

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields	
Bucknell U.	428	235	0	7	58	0	23	0	17	0	88	42	
CUNY, system office	430	234	0	0	129	0	0	3	0	0	0	102	
St. John's U., New York	431	232	2	0	54	0	0	10	0	0	0	166	
Suffolk U.	432	231	0	0	1	0	0	0	15	0	0	215	
Stephen F. Austin State U.	433	225	0	25	72	0	49	0	10	0	0	69	
Texas A&M U.-San Antonio	434	224	0	0	33	0	0	2	33	0	0	156	
Eastern Washington U.	435	221	0	0	0	0	11	4	206	0	0	0	
U.S. Naval Academy	435	221	0	1	0	17	32	0	171	0	0	0	
Connecticut C.	437	211	0	0	147	0	15	0	29	0	0	20	
Seton Hall U.	437	211	0	0	120	0	31	0	0	0	0	60	
New York Institute of Technology	439	207	0	0	183	0	0	0	0	0	24	0	
U. Colorado Colorado Springs	439	207	0	0	12	0	0	1	85	0	0	109	
U. Illinois, Springfield	439	207	0	0	0	0	0	0	43	0	0	164	
Gettysburg C.	442	204	0	0	136	0	11	0	31	0	0	26	
Troy U.	443	203	0	114	20	0	0	0	0	0	0	69	
Sacred Heart U.	444	202	10	0	147	0	0	0	0	0	0	45	
Idaho State U.	445	196	0	0	142	0	8	3	39	0	4	0	
Marymount U.	446	193	15	0	133	0	0	24	0	0	0	21	
Sonoma State U.	447	190	0	139	27	0	0	4	0	0	0	20	
Mercer U.	448	187	0	0	68	0	0	0	0	0	2	117	
Tennessee State U.	448	187	0	0	52	0	0	19	0	0	13	103	
U. Texas, Tyler	448	187	0	0	60	0	11	0	5	0	97	14	
Coastal Carolina U.	451	184	0	80	57	0	10	0	0	0	0	37	
Oregon Institute of Technology	452	182	i	5	124	i	3	0	5	0	0	31	0
CUNY, Lehman C.	453	181	0	17	0	6	0	12	41	0	0	105	
Northern Kentucky U.	453	181	2	0	92	0	25	0	60	0	0	2	
SUNY, Polytechnic Institute	453	181	0	0	5	0	0	0	0	0	0	176	
Williams C.	456	178	i	3	68	i	2	17	6	20	0	52	i
California State U., Channel Islands	457	177	0	0	162	15	0	0	0	0	0	0	
Florida Institute of Technology	458	176	0	17	0	2	5	20	0	0	132	0	
U. Puget Sound	459	175	0	0	23	0	9	0	32	4	0	107	
Marian U., Indianapolis	460	172	0	0	141	0	0	0	0	19	0	12	
Missouri State U.	460	172	0	0	131	0	23	0	18	0	0	0	

TABLE 30

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Albany C. of Pharmacy and Health Sciences	462	169	0	0	169	0	0	0	0	0	0	0
Lamar U.	463	166	0	0	8	0	79	0	37	0	18	24
Embry-Riddle Aeronautical U.	464	161	0	29	0	6	55	0	0	0	32	39
Harvey Mudd C.	464	161	4	0	4	8	101	0	0	19	25	0
U. North Georgia	466	157	0	0	4	0	43	5	0	0	0	105
Radford U.	467	155	6	0	0	0	0	0	0	149	0	0
California State U., Bakersfield	468	150	0	7	10	0	0	0	11	0	0	122
St. Cloud State U.	469	145	0	1	1	0	0	0	87	0	0	56
California State U., Monterey Bay	470	144	0	54	73	0	8	0	9	0	0	0
Des Moines U.	470	144	0	10	72	0	0	0	0	0	0	62
Hofstra U.	470	144	36	0	63	11	0	8	13	0	6	7
Pennsylvania State U., Altoona	470	144	0	0	137	0	0	0	3	0	4	0
U. Louisiana, Monroe	470	144	0	0	140	0	0	0	4	0	0	0
New C. Florida	475	142	10	12	77	0	18	0	0	0	25	0
Christopher Newport U.	476	140	0	0	0	0	88	0	9	0	0	43
Saginaw Valley State U.	477	138	4	0	87	0	0	0	9	0	0	38
U. Northern Iowa	478	137	0	0	0	0	0	0	117	0	0	20
Hobart and William Smith Colleges	479	136	0	15	70	15	20	0	7	0	0	9
Lafayette C.	480	135	0	0	41	0	21	0	18	0	42	13
U. Arkansas, Little Rock	481	134	9	0	78	0	0	0	19	0	24	4
Central Washington U.	482	132	0	1	59	22	4	0	33	0	2	11
Kenyon C.	482	132	0	0	31	0	35	0	20	0	0	46
Western New England U.	482	132	0	0	118	0	0	0	0	0	14	0
Babson C.	485	131	0	0	0	5	0	0	35	0	0	91
U. of the District of Columbia	485	131	0	0	0	0	7	0	0	0	20	104
U.S. Coast Guard Academy	487	124	0	0	0	0	3	0	3	0	32	86
Western Kentucky U.	488	123	0	0	25	0	0	15	25	0	10	48
CUNY, Brooklyn C.	489	119	1	6	0	4	28	0	74	0	0	6
U. South Carolina, Beaufort	490	117	0	114	0	0	0	0	0	0	0	3
Tennessee Technological U.	491	116	45	0	13	0	6	0	0	0	49	3
CUNY, C. Staten Island	492	109	0	0	7	19	42	16	0	0	0	25
Abilene Christian U.	493	108	0	0	47	0	35	0	0	0	0	26
St. Olaf C.	494	105	0	20	39	0	39	7	0	0	0	0

TABLE 30

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Alaska, Southeast	494	105	0	35	0	0	0	0	70	0	0	0
U. Wisconsin-Green Bay	496	103	3 i	3 i	59 i	2 i	6 i	1 i	5 i	0 i	16 i	8 i
Bowdoin C.	497	102	0	0	9	1	23	0	0	0	0	69
California State U., San Marcos	498	101	15	0	0	0	0	0	80	5	1	0
West Virginia State U.	498	101	0	0	101	0	0	0	0	0	0	0
Austin Peay State U.	500	100	0	20	80	0	0	0	0	0	0	0
Butler U.	500	100	0	0	19	0	33	0	0	0	0	48
California State U., Chico	502	97	0	0	66	0	21	0	0	0	0	10
Ursinus C.	503	96	0	0	87	0	5	1	3	0	0	0
Willamette U.	504	91	0	34	14	0	19	0	0	0	0	24
Andrews U.	505	89	0	18	22	0	0	0	49	0	0	0
Kean U.	505	89	0	0	9	0	0	0	0	0	0	80
U. of Health Sciences and Pharmacy in St. Louis	505	89	0	0	33	0	56	0	0	0	0	0
Alabama State U.	508	85	0	0	0	0	0	0	0	0	0	85
Edward Via C. of Osteopathic Medicine	509	84	0	0	84	0	0	0	0	0	0	0
U. Houston-Downtown	510	81	0	0	0	0	46	0	0	0	0	35
Northern Michigan U.	511	80	0	0	46	0	0	34	0	0	0	0
U. of Mary Washington	512	79	0	0	74	0	5	0	0	0	0	0
U. of the Pacific	513	77	0	0	77	0	0	0	0	0	0	0
Oklahoma State U., Center for Health Sciences	514	76	0	0	25	0	0	51	0	0	0	0
Trinity C., Hartford	515	75	0	0	8	0	36	0	7	0	0	24
Stockton U.	516	74	0	9	0	0	0	0	65	0	0	0
U. of the Virgin Islands	516	74	0	64	10	0	0	0	0	0	0	0
Ferris State U.	518	73	0	0	73	0	0	0	0	0	0	0
Lincoln U.	519	72	0	0	0	0	0	0	0	0	0	72
U. Southern Maine	519	72	0	5	0	5	0	0	62	0	0	0
St. Edward's U.	521	71	0	0	71	0	0	0	0	0	0	0
California State Polytechnic U., Pomona	522	70	0	0	5	0	3	0	0	0	8	54
New England C. of Optometry	523	69	0	0	69	0	0	0	0	0	0	0
SUNY, C. Plattsburgh	523	69	0	50	0	0	0	0	19	0	0	0
U. Scranton	523	69	0	0	22	0	1	0	0	0	0	46
U. Virginia's C. Wise	523	69	0	0	0	0	0	0	0	0	0	69
Naval Postgraduate School	527	67	0	0	0	0	0	0	67	0	0	0

TABLE 30

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields			
Colgate U.	528	63	0	0	37	0	6	16	0	0	0	4			
South Carolina State U.	528	63	0	0	63	0	0	0	0	0	0	0			
U. Minnesota, Duluth	528	63	0	0	0	0	0	0	12	0	0	51			
Winthrop U.	528	63	0	0	5	0	1	0	57	0	0	0			
Lipscomb U.	532	58	0	0	58	0	0	0	0	0	0	0			
Western Carolina U.	533	57	0	0	7	0	0	0	1	0	15	34			
Oberlin C.	534	55	11	2	0	0	42	0	0	0	0	0			
U. of the Incarnate Word	534	55	0	0	6	0	49	0	0	0	0	0			
Youngstown State U.	534	55	0	0	0	31	7	0	0	0	17	0			
Gustavus Adolphus C.	537	54	0	21	0	0	33	0	0	0	0	0			
Rhode Island C.	538	53	0	0	0	0	0	53	0	0	0	0			
Salisbury U.	538	53	0	0	0	0	0	1	0	0	0	52			
California State U., Dominguez Hills	540	52	0	8	4	0	0	2	35	0	0	3			
East Stroudsburg U. Pennsylvania	540	52	0	0	52	0	0	0	0	0	0	0			
SUNY, Geneseo	540	52	0	0	0	0	0	0	3	0	0	49			
Fayetteville State U.	543	51	i	7	i	0	i	12	i	0	i	4	i	28	i
U. Hartford	544	50	0	0	28	0	0	0	12	0	7	3			
Texas Southern U.	545	49	5	0	5	0	0	0	21	0	0	18			
CUNY, York C.	546	48	0	0	37	5	0	0	0	0	0	6			
Lincoln Memorial U.	547	46	0	0	46	0	0	0	0	0	0	0			
Minnesota State U., Mankato	548	45	0	0	21	0	5	0	0	0	14	5			
U. Wisconsin-La Crosse	549	44	0	0	18	6	14	0	6	0	0	0			
Ithaca C.	550	42	0	14	0	0	8	0	0	0	0	20			
Florida Polytechnic U.	551	41	9	0	0	0	0	0	0	0	32	0			
U. Detroit Mercy	552	39	0	0	2	0	0	0	0	0	37	0			
U. Wisconsin-Platteville	552	39	i	1	i	0	i	18	i	0	i	3	i	1	i
Lake Superior State U.	554	37	0	0	36	0	1	0	0	0	0	0			
U. Wisconsin-Superior	555	36	0	0	0	6	0	0	0	0	0	30			
South Dakota School of Mines and Technology	556	35	0	0	0	0	0	0	0	0	35	0			
Murray State U.	557	34	0	0	34	0	0	0	0	0	0	0			
Union C., Schenectady	557	34	0	0	5	6	6	0	14	0	3	0			
West Texas A&M U.	557	34	0	0	0	0	34	0	0	0	0	0			
SUNY, Oswego	560	32	0	0	17	0	0	1	0	0	0	14			

TABLE 30

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Clark Atlanta U.	561	31	0	0	0	18	13	0	0	0	0	0
United Tribes Technical C.	561	31	0	0	0	0	0	0	0	0	15	16
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	563	30	0	0	30	0	0	0	0	0	0	0
Alfred U.	564	28	0	0	0	0	0	28	0	0	0	0
Drake U.	565	26	0	0	8	0	0	0	14	0	0	4
Dakota State U.	566	25	25	0	0	0	0	0	0	0	0	0
Southeastern Louisiana U.	566	25	0	0	8	0	0	0	11	0	6	0
U. Hawaii, Maui C.	566	25	0	25	0	0	0	0	0	0	0	0
U. Maryland, Eastern Shore	569	24	0	0	24	0	0	0	0	0	0	0
Robert Morris U.	570	22	0	0	15	0	0	0	0	0	0	7
St. Mary's C. Maryland	570	22	0	0	0	0	22	0	0	0	0	0
U. Houston-Clear Lake	570	22	0	0	16	0	0	0	0	0	0	6
Alcorn State U.	573	21	0	0	16	0	0	0	5	0	0	0
Elon U.	574	20	0	0	3	0	1	0	0	0	6	10
Morehead State U.	575	18	0	0	1	0	0	0	0	0	17	0
SUNY, Buffalo State U.	576	17	0	5	0	0	0	0	12	0	0	0
CUNY, New York City C. of Technology	577	16	0	0	0	5	0	0	0	0	0	11
Heidelberg U.	578	15	0	15	0	0	0	0	0	0	0	0
Milwaukee School of Engineering	578	15	0	0	2	0	0	0	0	0	4	9
Southern U. and A&M C., Agricultural Research and Extension Center	578	15	0	0	15	0	0	0	0	0	0	0
U. South Carolina, Aiken	578	15	0	9	0	0	6	0	0	0	0	0
Utah Valley U.	578	15	0	0	0	0	4	0	0	0	11	0
Southern Illinois U., Edwardsville	583	14	0	0	4	0	0	10	0	0	0	0
Savannah State U.	584	13	0	0	13	0	0	0	0	0	0	0
Indiana State U.	585	11	0	0	7	0	0	0	0	0	0	4
U. Central Arkansas	585	11	0	0	4	0	0	0	0	0	0	7
William Paterson U.	585	11	0	0	10	0	0	0	0	0	0	1
SUNY, C. of Optometry	588	10	0	0	10	0	0	0	0	0	0	0
U. Wisconsin-Eau Claire	588	10	0	0	0	0	9	0	1	0	0	0
Virginia Military Institute	588	10	0	0	0	0	0	0	10	0	0	0
U. Arkansas, Pine Bluff	591	8	0	0	8	0	0	0	0	0	0	0
Benedict C.	592	7	0	0	0	0	7	0	0	0	0	0
Roseman U. of Health Sciences	592	7	0	0	7	0	0	0	0	0	0	0

TABLE 30

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Texas of the Permian Basin	592	7	0	0	0	0	0	0	0	0	0	7
California State U., Stanislaus	595	6	0	0	3	0	0	0	0	0	0	3
Norwich U.	596	5	0	0	5	0	0	0	0	0	0	0
Tougaloo C.	597	4 i	1 i	0 i	1 i	0 i	1 i	1 i	0 i	0 i	0 i	0 i
U. Central Oklahoma	598	3 i	0 i	0 i	2 i	0 i	0 i	0 i	0 i	0 i	0 i	1 i
Black Hills State U.	599	2	0	0	0	0	0	2	0	0	0	0
Central Connecticut State U.	599	2	0	0	0	0	0	0	0	0	0	2
U. Guam	599	2	0	0	2	0	0	0	0	0	0	0

i = imputed.

nec = not elsewhere classified; S&E = science and engineering.

^a Johns Hopkins University includes the Applied Physics Laboratory, with zero in nonprofit-financed R&D expenditures in FY 2023.^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.^c The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.**Note(s):**Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 31

Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	3,092,480	73,140	85,621	1,872,244	8,400	154,708	21,692	150,303	30,483	459,918	235,971
Cornell U.	1	186,792	4,115	112	151,866	28	6,041	851	2,395	0	16,583	4,801
U. California, San Francisco	2	181,241	0	0	178,692	0	2,549	0	0	0	0	0
U. Texas M. D. Anderson Cancer Center	3	152,029	0	0	149,455	321	580	737	936	0	0	0
New York U.	4	141,454	1,148	343	11,064	625	5,689	308	13,476	0	89,989	18,812
U. Arizona	5	122,398	438	5,383	80,337	24	22,716	409	3,623	36	8,066	1,366
U. California, San Diego	6	94,043	304	6,928	61,208	289	2,603	800	4,485	0	14,837	2,589
Massachusetts Institute of Technology	7	75,871	6,042	609	4,365	55	2,915	5	5,727	3,096	47,172	5,885
U. Virginia, Charlottesville	8	68,682	897	516	44,717	119	695	484	4,969	2	1,428	14,855
U. Texas Southwestern Medical Center	9	64,661	0	0	64,661	0	0	0	0	0	0	0
U. Minnesota, Twin Cities	10	59,262	565	247	53,442	29	463	423	522	168	2,698	705
California Institute of Technology	11	57,442	1,911	5,892	15,229	87	19,388	0	620	3,842	10,473	0
U. California, Los Angeles	12	54,129	1,378	2,292	29,429	248	1,843	266	1,639	509	13,109	3,416
U. Washington, Seattle	13	53,559	2,359	2,645	40,509	0	310	809	828	0	5,356	743
U. Southern California	14	52,939	993	799	37,992	33	557	56	3,173	0	2,581	6,755
Pennsylvania State U., University Park and Hershey Medical Center	15	52,067	5,756	190	23,651	168	15,036	251	861	0	3,644	2,510
Princeton U.	16	51,994	1,398	2,691	20,164	882	3,404	140	11,673	0	5,570	6,072
U. Wisconsin-Madison	17	47,628	994	1,427	27,326	62	2,823	68	1,183	2,297	7,176	4,272
Ohio State U.	18	47,120	150	456	34,964	136	907	110	297	1,117	6,907	2,076
U. Pittsburgh, Pittsburgh	19	46,400	165	113	42,832	1	129	25	598	183	1,972	382
U. California, Irvine	20	42,904	2,230	689	25,466	564	1,992	666	1,921	0	7,032	2,344
U. California, Davis	21	41,328	233	1,164	31,627	0	414	379	520	0	6,602	389
Purdue U., West Lafayette	22	39,649	842	492	11,471	90	1,498	628	378	435	13,935	9,880
U. Florida	23	37,770	69	76	32,562	0	606	43	393	0	2,958	1,063
U. Oregon	24	35,894	679	171	22,699	19	639	22	1,062	0	0	10,603
U. Iowa	25	35,476	504	8	28,162	20	175	102	276	110	1,868	4,251
Georgetown U.	26	35,050	1,488	0	11,380	94	1,138	71	9,016	424	0	11,439
Texas A&M U., College Station and Health Science Center	27	35,017	272	1,411	12,201	84	4,532	356	3,519	38	11,694	910
U. Colorado Boulder	28	32,163	237	719	737	29	18,710	66	233	0	9,789	1,643
U. Kentucky	29	28,319	140	9	24,395	31	158	3	241	16	1,119	2,207
Harvard U.	30	28,007	0	405	12,877	10	472	76	9,840	0	1,736	2,591
U. Notre Dame	31	27,251	1,071	0	2,506	100	552	177	5,201	4,752	3,541	9,351
U. California, Berkeley	32	26,577	143	238	4,847	193	6,331	354	2,286	2,709	7,324	2,152
Duke U.	33	26,238	111	286	22,061	14	109	175	1,095	19	1,337	1,031

TABLE 31

Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Arizona State U.	34	25,686	773	2,313	4,753	57	1,737	552	7,855	589	2,812	4,245
Thomas Jefferson U.	35	25,300	0	0	25,300	0	0	0	0	0	0	0
U. Nebraska, Lincoln and Medical Center ^a	36	22,934	22	45	20,979	4	82	128	249	0	625	800
U. North Carolina, Chapel Hill	37	21,762	94	334	17,047	0	320	615	1,244	0	811	1,297
U. Louisville	38	21,658	0	4	16,613	2	86	150	203	25	2,118	2,457
U. Illinois, Urbana-Champaign	39	21,330	2,034	108	8,112	301	1,147	252	448	30	7,702	1,196
Michigan State U.	40	20,275	162	334	9,842	26	504	157	2,813	56	3,546	2,835
U. Colorado Anschutz Medical Campus	41	19,855	0	91	15,251	0	0	172	285	0	0	4,056
West Virginia U.	42	19,613	0	359	15,495	1	201	0	156	33	2,016	1,352
U. Cincinnati	43	19,342	0	34	14,556	34	258	0	199	0	1,234	3,027
U. Alabama, Birmingham	44	18,353	0	0	18,353	0	0	0	0	0	0	0
George Washington U.	45	17,543	0	278	12,711	0	0	0	3,747	0	323	484
Woods Hole Oceanographic Institution	46	16,891	0	13,329	0	0	0	0	0	0	3,562	0
Boston U.	47	15,885	139	89	14,523	47	117	23	140	72	482	253
Tulane U.	48	15,735	0	0	15,210	0	59	10	210	0	20	226
Icahn School of Medicine at Mount Sinai	49	15,493	0	0	15,493	0	0	0	0	0	0	0
Oregon State U.	50	15,114	0	1,463	11,286	13	0	70	695	132	1,455	0
Vanderbilt U. and Vanderbilt U. Medical Center	51	14,731	46	118	3,391	0	136	12	941	0	406	9,681
South Dakota State U.	52	13,809	1	62	11,931	0	0	0	0	0	1,797	18
Auburn U., Auburn	53	13,424	287	24	4,863	12	20	28	4	71	6,725	1,390
U. Kansas	54	13,404	70	40	10,747	1	83	440	77	528	1,173	245
Medical U. South Carolina	55	12,625	0	0	12,625	0	0	0	0	0	0	0
Wake Forest U.	56	12,324	0	0	12,123	0	0	0	21	0	0	180
Tufts U.	57	11,065	418	27	6,139	0	30	54	278	35	1,555	2,529
Utah State U.	58	11,046	246	173	6,445	6	73	136	21	0	3,877	69
U. California, Santa Barbara	59	10,882	207	4,868	18	0	535	906	650	410	3,084	204
Colorado State U., Fort Collins	60	10,717	74	1,677	6,934	17	118	75	122	474	1,051	175
U. Delaware	61	10,458	51	218	1,310	0	491	57	969	0	6,809	553
U. California, Riverside	62	10,395	353	470	6,471	1	557	42	209	191	1,886	215
Carnegie Mellon U.	63	10,277	6,269	158	445	0	1,022	0	149	15	1,982	237
U. Texas, El Paso	64	10,139	322	336	2,530	47	156	273	733	330	2,119	3,293
U. Illinois, Chicago	65	9,999	348	0	7,210	2	128	66	134	940	891	280
Brown U.	66	9,943	1,573	38	7,333	40	24	24	473	314	100	24
U. Arkansas, Fayetteville	66	9,943	443	0	3,959	675	19	351	31	848	853	2,764

TABLE 31

Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Texas Health Science Center, Houston	68	9,716	0	0	9,716	0	0	0	0	0	0	0
U. Maryland ^b	69	9,528	0	1,077	6,693	0	125	0	257	0	1,113	263
Stanford U.	70	9,319	573	371	5,309	0	221	0	55	0	2,293	497
Virginia Polytechnic Institute and State U.	71	9,310	100	291	2,632	111	54	189	213	0	5,427	293
U. Nevada, Reno	72	9,096	0	1,388	4,121	11	725	56	486	144	902	1,263
U. Pennsylvania	73	9,026	105	86	4,703	0	157	210	647	0	1,796	1,322
Dartmouth C. and Dartmouth Hitchcock Medical Center	74	8,676	863	220	4,411	7	241	270	1,382	0	1,109	173
U. Texas, Austin	75	8,510	592	285	2,036	399	452	898	598	18	1,437	1,795
U. Michigan, Ann Arbor	76	8,509	28	7	4,150	138	132	87	533	0	3,373	61
U. Massachusetts, Medical School	77	7,550	0	0	7,550	0	0	0	0	0	0	0
Temple U.	78	7,482	19	1	7,291	0	73	10	25	0	0	63
SUNY, U. Buffalo	79	7,267	128	0	6,952	0	0	0	187	0	0	0
U. Tennessee, Health Science Center	80	7,200	0	0	6,249	0	0	0	0	951	0	0
Johns Hopkins U. ^c	81	6,919	1,221	77	3,362	62	14	0	311	0	1,831	41
Van Andel Research Institute	82	6,831	0	0	6,831	0	0	0	0	0	0	0
U. California, Santa Cruz	83	6,760	637	1,351	678	0	1,990	66	656	21	625	736
U. Vermont	84	6,614	149	0	3,816	284	153	104	354	103	420	1,231
George Mason U.	85	6,545	506	108	274	0	8	19	4,453	0	69	1,108
Northwestern U.	86	6,533	28	33	3,937	0	507	37	451	10	506	1,024
U. Massachusetts, Amherst	87	6,321	1,643	0	726	139	116	97	1,018	174	1,692	716
Florida State U.	88	6,274	31	366	1,104	82	415	339	832	191	413	2,501
Marquette U.	89	6,244	275	0	1,101	18	243	187	135	0	1,063	3,222
North Dakota State U.	90	6,243	8	0	5,005	0	136	0	661	0	393	40
U. Missouri, Columbia	91	6,224	200	0	4,095	46	73	0	89	0	74	1,647
U. Rochester	92	6,140	0	20	4,474	0	704	146	0	54	739	3
New Mexico State U.	93	6,129	0	182	1,222	2	14	16	6	4	4,410	273
Georgia Institute of Technology	94	5,843	3,333	92	240	0	1	0	61	0	2,098	18
Rice U.	95	5,824	305	0	64	10	110	0	3,641	0	1,659	35
Yale U.	96	5,609	0	0	4,430	0	358	205	20	0	36	560
Missouri U. of Science and Technology	97	5,566	322	0	465	7	15	22	0	0	4,633	102
Louisiana State U., Baton Rouge	98	5,480	54	323	3,805	6	126	23	11	14	531	587
Medical C. Wisconsin	99	5,314	0	0	5,310	0	0	0	0	0	4	0
Indiana U., Bloomington	100	5,233	68	91	4,207	0	103	0	413	0	341	10
U. Arkansas for Medical Sciences	101	5,133	0	0	5,133	0	0	0	0	0	0	0

TABLE 31

Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Colorado School of Mines	102	4,876	96	1,088	47	0	118	9	0	0	3,480	38
U. Connecticut	103	4,695	0	0	4,307	0	0	0	0	0	370	18
U. Tennessee, Knoxville	104	4,657	209	16	2,828	0	152	3	57	125	1,085	182
U. Missouri, Kansas City	105	4,568	0	0	1,577	0	16	11	156	1	1,428	1,379
Rutgers, State U. New Jersey, New Brunswick	106	4,552	0	16	2,117	0	758	0	7	0	1,430	224
U. Georgia	107	4,538	149	314	3,178	4	109	147	202	70	263	102
U. Houston	108	4,479	247	364	579	13	180	34	128	24	1,823	1,087
U. Utah	109	4,470	0	8	501	0	0	0	0	0	137	3,824
SUNY, Polytechnic Institute	110	4,437	0	0	6	0	0	0	0	0	4,431	0
U. Central Florida	111	4,382	398	0	570	0	310	228	194	362	2,090	230
Montana State U., Bozeman	112	3,912	236	156	521	14	426	0	152	135	1,722	550
Brandeis U.	113	3,884	0	0	1,442	0	209	0	1,667	0	1	565
New Jersey Institute of Technology	114	3,773	173	0	835	59	126	0	7	7	2,308	258
Wayne State U.	115	3,772	0	0	3,101	5	351	0	132	0	62	121
Emory U.	116	3,743	0	126	3,273	0	0	6	3	0	313	22
Tuskegee U.	117	3,498	0	0	2,771	0	6	0	0	0	721	0
SUNY, Binghamton U.	118	3,447	527	26	83	0	153	22	42	0	2,489	105
U. Idaho	119	3,401	225	14	2,456	27	176	2	103	17	215	166
William & Mary	120	3,330	72	87	1,081	0	37	0	1,077	35	0	941
U. North Texas, Denton	121	3,299	558	0	323	0	286	5	58	0	234	1,835
U. South Florida	122	3,211	241	33	1,705	50	174	12	128	44	282	542
U. Texas, San Antonio	123	3,046	252	50	489	100	730	43	54	221	347	760
California State Polytechnic U., Humboldt	124	2,927	22	611	888	0	10	0	71	11	1,109	205
Mercer U.	125	2,838	0	0	0	0	0	0	0	0	2,838	0
Drexel U.	126	2,797	37	0	1,730	0	0	284	0	0	571	175
U. Nevada, Las Vegas	127	2,760	113	57	478	13	510	29	173	37	151	1,199
Rensselaer Polytechnic Institute	128	2,698	156	1	671	0	402	273	0	0	1,119	76
Teachers C., Columbia U.	129	2,692	958	0	79	0	0	649	867	0	0	139
Williams C.	130	2,651	45	145	1,007	35	244	91	304	0	0	780
Texas A&M U.-Corpus Christi	131	2,642	0	2,550	34	4	51	0	0	0	0	3
U. Alaska, Fairbanks	132	2,613	0	932	431	0	499	0	8	729	14	0
SUNY, Stony Brook U.	133	2,603	384	335	1,046	112	10	4	0	9	383	320
U. Chicago	134	2,400	20	0	1,171	0	14	0	1,086	0	71	38
Columbia U. in the City of New York	135	2,363	90	251	1,536	0	20	8	140	0	94	224

TABLE 31

Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Case Western Reserve U.	136	2,306	36	0	742	0	21	0	302	0	1,205	0
U. California, Merced	137	2,251	199	108	53	195	38	29	216	209	638	566
SUNY, U. Albany	138	2,202	0	90	1,942	0	0	5	33	0	28	104
U. Texas, Arlington	139	2,158	0	43	578	0	1	6	0	0	636	894
Howard U.	140	2,101	0	0	1,924	0	0	0	0	0	177	0
American U.	141	2,053	0	16	3	0	29	0	519	38	0	1,448
Michigan Technological U.	142	2,022	106	215	389	5	78	39	24	0	1,138	28
Oakland U.	143	2,021	1,302	0	651	0	0	0	68	0	0	0
Texas Tech U., Health Sciences Center	144	1,991	0	0	1,958	0	0	0	0	0	0	33
U. New Mexico	145	1,981	0	20	1,416	0	0	0	276	0	131	138
San Diego State U.	146	1,958	25	72	1,365	60	2	77	71	0	44	242
Washington U., Saint Louis	147	1,957	98	10	1,548	0	0	2	0	0	189	110
Amherst C.	148	1,944	43	348	282	43	473	43	277	138	0	297
U. Wisconsin-Milwaukee	149	1,928	0	121	409	0	0	0	56	0	901	441
U. Maine	150	1,882	0	554	689	0	161	1	1	35	282	159
U. Oklahoma, Norman and Health Science Center	151	1,724	144	670	12	0	0	0	158	0	715	25
U. Massachusetts, Lowell	152	1,696	0	193	196	0	692	13	121	0	470	11
U. South Carolina, Columbia	153	1,656	21	78	252	0	33	0	43	0	132	1,097
U. Wyoming	154	1,640	0	1,374	43	0	0	0	42	0	181	0
Washington State U.	155	1,638	86	0	942	0	0	0	55	52	490	13
Western Michigan U. and Homer Stryker M.D. School of Medicine	156	1,595	6	60	76	0	1	0	133	0	1,066	253
Clark U.	157	1,578	0	0	1,164	0	122	3	225	0	0	64
Louisiana Tech U.	158	1,518	149	0	105	35	88	0	0	0	735	406
Embry-Riddle Aeronautical U.	159	1,449	144	492	57	48	385	0	31	0	288	4
Florida International U.	160	1,439	343	32	18	0	358	310	148	0	207	23
U. Hawaii, Manoa	161	1,437	0	369	381	0	198	22	177	90	55	145
Mississippi State U.	162	1,435	2	0	1,376	19	1	0	0	7	30	0
U. Maryland, Baltimore County	163	1,392	160	29	20	0	31	318	55	264	344	171
U. Denver	164	1,383	0	0	166	0	0	56	577	0	45	539
Georgia State U.	165	1,359	83	0	522	0	87	318	156	0	0	193
San Jose State U.	166	1,349	0	26	0	0	1	11	10	0	851	450
Kansas State U.	167	1,326	47	0	858	0	0	0	100	0	321	0
SUNY, C. of Environmental Science and Forestry	168	1,313	0	1	1,185	0	42	6	0	0	24	55
Loyola U., Chicago	169	1,235	2	0	940	0	0	11	92	0	13	177

TABLE 31

Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
SUNY, Upstate Medical U.	170	1,227	0	0	1,227	0	0	0	0	0	0	0
Dakota State U.	171	1,208	1,208	0	0	0	0	0	0	0	0	0
U. New Orleans	172	1,133	0	15	12	0	117	351	151	156	49	282
CUNY, John Jay C. of Criminal Justice	173	1,080	0	0	56	0	0	0	0	0	0	1,024
Boston C.	174	1,051	0	0	38	0	0	0	915	0	34	64
U. New Hampshire	175	1,034	0	514	185	0	0	39	175	0	86	35
New School	176	1,016	0	0	5	0	0	36	70	0	0	905
New York Medical C.	177	1,009	0	0	1,009	0	0	0	0	0	0	0
U. San Francisco	178	959	0	0	0	0	957	0	0	0	0	2
Florida Atlantic U.	179	954	81	312	246	44	28	21	0	0	218	4
California State U., Chico	180	951	0	50	518	25	0	0	14	0	271	73
Desert Research Institute	181	928	0	928	0	0	0	0	0	0	0	0
Bucknell U.	182	902	11	0	94	0	54	35	142	66	200	300
U. South Alabama	183	849	0	40	542	0	0	243	7	0	17	0
Baylor U.	184	845	2	27	185	2	216	0	16	0	0	397
Morgan State U.	185	835	6	0	173	0	0	26	0	0	117	513
North Carolina Central U.	186	827	i 39	i 14	i 87	i 0	i 109	i 0	i 31	i 56	i 194	i 297
Worcester Polytechnic Institute	187	822	103	0	66	0	0	0	59	0	582	12
Rochester Institute of Technology	188	820	113	0	29	7	187	0	21	0	363	100
CUNY, Graduate Center	189	808	0	0	0	0	0	100	78	0	0	630
Fordham U.	189	808	0	0	269	0	15	0	10	0	0	514
Babson C.	191	766	0	i 0	i 0	i 24	i 0	i 0	i 208	i 0	i 0	i 534
Creighton U.	192	722	21	i 0	i 536	i 5	i 37	i 8	i 45	i 0	i 0	i 70
Augusta U.	193	707	0	0	707	0	0	0	0	0	0	0
U. Alabama, Tuscaloosa	194	696	40	16	75	0	0	0	43	0	434	88
Central Michigan U.	195	679	0	0	513	7	7	10	0	3	47	92
Naval Postgraduate School	196	667	0	191	0	0	0	0	0	476	0	0
Purdue U., Northwest	197	662	0	0	282	0	3	0	0	0	87	290
Illinois Institute of Technology	198	645	0	0	296	0	0	0	0	0	348	1
U. Dayton	199	644	0	0	0	0	0	0	0	0	591	53
U. Rhode Island	200	642	0	53	59	0	528	0	2	0	0	0
Iowa State U.	201	634	0	0	72	14	0	0	0	0	548	0
New Mexico Institute of Mining and Technology	202	628	0	103	50	0	56	0	0	0	411	8
U. Missouri, Saint Louis	203	617	0	15	75	0	0	0	384	0	0	143

TABLE 31

Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Akron	204	610	0	0	23	0	148	0	30	0	325	84
U. San Diego	205	608	0	0	0	0	113	100	321	0	0	74
Portland State U.	206	576	23	9	6	0	98	0	125	0	215	100
Purdue U., Fort Wayne	207	573	0	0	109	25	3	3	102	156	46	129
Claremont Graduate U.	208	565	56	0	0	0	0	68	388	0	0	53
U. Tennessee, Chattanooga	209	557	0	0	40	0	0	265	0	5	108	139
U. Montana, Missoula	210	550	0	94	456	0	0	0	0	0	0	0
Sam Houston State U.	211	537	25	0	0	0	0	0	490	0	10	12
California State U., Long Beach	212	535	224	0	29	0	0	30	24	0	2	226
Austin Peay State U.	213	534	0	0	534	0	0	0	0	0	0	0
Haverford C.	214	519	10 i	25 i	206 i	7 i	47 i	16 i	54 i	0 i	0 i	154 i
Colby C.	215	507	60	0	70	2	77	0	154	0	0	144
U. Texas, Dallas	216	497	0	0	0	0	0	0	0	0	497	0
Nova Southeastern U.	217	495	0	116	342	0	0	0	0	37	0	0
Grand Valley State U.	218	483	0	16	253	74	4	36	2	0	47	51
CUNY, Hunter C.	219	473	0	0	27	0	63	22	110	0	0	251
U.S. Air Force Academy	220	467	0	0	0	7	0	0	0	0	412	48
Oklahoma State U., Stillwater	221	462	0	0	376	0	0	0	6	0	80	0
Grinnell C.	222	460	139	0	63	2	170	0	29	0	0	57
East Carolina U.	223	450	0	20	365	0	0	33	0	0	4	28
Wesleyan U.	224	449	0	0	27	0	0	0	0	0	0	422
Old Dominion U.	225	439	27	31	196	0	0	0	1	0	143	41
U.S. Naval Academy	225	439	211	0	0	11	157	0	0	0	60	0
Texas Tech U.	227	433	26	0	398	0	0	0	0	0	0	9
Stevens Institute of Technology	228	421	0	0	0	0	113	0	0	0	308	0
Northeastern U.	229	418	16	7	17	0	233	0	28	0	115	2
U. Alaska, Anchorage	230	411	0	0	217	0	0	0	33	40	80	41
CUNY, Advanced Science Research Center	231	406	0	0	275	0	38	0	0	0	93	0
U. Toledo	232	397	0	0	338	0	0	28	0	0	31	0
Boise State U.	233	395	2	45	87	0	7	0	29	0	225	0
CUNY, City C.	234	378	0	0	0	0	3	52	49	0	274	0
Minnesota State U., Mankato	235	372	0	0	87	0	6	4	67	0	204	4
Rockefeller U.	236	366	0	0	366	0	0	0	0	0	0	0
Gallaudet U.	237	358	2	0	0	31	0	291	34	0	0	0

TABLE 31

Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Mississippi	238	352	0	0	210	0	0	0	0	0	21	121
U. Massachusetts, Boston	239	346	0	0	18	0	0	0	107	0	0	221
U. Colorado Denver	240	345	0	4	61	0	0	0	60	0	11	209
U. North Dakota	241	342	0	0	296	0	0	2	0	0	0	44
Keck Graduate Institute	242	341	0	0	341	0	0	0	0	0	0	0
U. Miami	243	339	0	36	243	0	0	13	0	5	31	11
South Dakota School of Mines and Technology	244	322	0	0	0	0	79	0	0	0	243	0
U. North Carolina, Greensboro	244	322	27	0	71	0	0	49	76	0	0	99
Southern Connecticut State U.	246	321	3	99	3	0	72	0	1	16	0	127
Yeshiva U.	247	320	0	0	320	0	0	0	0	0	0	0
Ohio U.	248	311	0	11	132	0	20	10	6	0	18	114
SUNY, Downstate Health Sciences U.	249	308	0	0	308	0	0	0	0	0	0	0
Indiana U.-Purdue U., Indianapolis	250	304	52	0	139	0	0	0	82	0	10	21
Tennessee Technological U.	251	288	63	0	0	0	0	0	0	0	225	0
Hope C.	252	285	0	0	11	0	0	0	81	0	0	193
California State U., Sacramento	253	284	0	4	18	0	0	4	106	86	0	66
Louisiana State U., Health Sciences Center, New Orleans	254	282	0	0	282	0	0	0	0	0	0	0
North Carolina A&T State U.	255	280	0	0	34	0	0	0	0	19	227	0
U. Maryland Center for Environmental Science	256	276	0	112	164	0	0	0	0	0	0	0
U. Massachusetts, Dartmouth	257	275	0	256	1	0	0	0	0	0	18	0
CUNY, Baruch C.	258	264	0	0	0	0	0	0	30	0	0	234
U. Wisconsin-Stevens Point	259	263	0	18	245	0	0	0	0	0	0	0
U. Alabama, Huntsville	260	262	0	22	31	138	0	0	0	0	54	17
North Carolina State U.	261	260	0	23	138	0	0	0	0	0	99	0
Saint Joseph's U.	262	258	2	0	242	0	14	0	0	0	0	0
Oregon Health and Science U.	263	256	0	0	256	0	0	0	0	0	0	0
Saint Louis U.	264	251	70	32	68	0	3	0	0	0	0	78
Calvin U.	265	243	2 i	3 i	50 i	6 i	51 i	0 i	3 i	0 i	13 i	115 i
Wellesley C.	266	242	0	0	0	0	0	0	0	0	0	242
Hamilton C.	267	240	0	0	0	0	0	0	0	0	0	240
Wright State U.	267	240	0	0	162	0	0	0	0	0	78	0
Gettysburg C.	269	232	4	0	58	0	68	12	15	0	0	75
U. North Florida	270	224	12	0	42	0	0	0	0	0	147	23
Franklin and Marshall C.	271	214	0	138	13	9	23	11	9	0	0	11

TABLE 31

Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Hawaii, Hilo	271	214	0	65	149	0	0	0	0	0	0	0
St. Cloud State U.	273	208	0	0	0	0	0	0	0	0	0	208
U. Arkansas, Little Rock	274	207	140	0	5	0	9	0	45	0	0	8
U. Memphis	275	205	1	40	0	0	14	1	47	0	21	81
U. Texas of the Permian Basin	276	202	0	0	0	0	0	0	0	0	18	184
Marian U., Indianapolis	277	192	0	0	3	0	0	0	0	0	0	189
U. North Texas, Health Science Center	278	189	0	0	189	0	0	0	0	0	0	0
U. Texas Health Science Center, San Antonio	279	183	0	0	183	0	0	0	0	0	0	0
Rutgers, State U. New Jersey, Newark	280	181	0	96	0	0	0	0	80	0	0	5
U. Washington, Bothell	281	180	27	0	42	0	0	0	0	55	0	56
Eastern Virginia Medical School	282	176	0	0	176	0	0	0	0	0	0	0
U. Texas Rio Grande Valley	282	176	0	0	35	0	47	0	20	0	18	56
U. Washington, Tacoma	282	176	0	0	8	0	0	0	0	0	97	71
Northern Arizona U.	285	173	0	21	91	0	0	0	0	0	0	61
Albany Medical C.	286	166	0	0	166	0	0	0	0	0	0	0
Southern Methodist U.	286	166	0	0	88	29	49	0	0	0	0	0
Clarkson U.	288	165	0	0	1	80	0	1	0	0	77	6
Harvey Mudd C.	289	164	9	0	4	17	73	0	0	39	16	6
Texas State U.	290	157	0	0	0	0	0	0	3	0	137	17
Davidson C.	291	156	0	0	0	0	0	3	4	0	0	149
U. Central del Caribe	292	155	0	0	155	0	0	0	0	0	0	0
Biola U.	293	154	0	0	154	0	0	0	0	0	0	0
Gustavus Adolphus C.	294	151	0	23	39	0	62	3	8	0	0	16
Reed C.	295	150	3	0	60	2	14	5	19	0	0	47
Seton Hall U.	296	147	0	0	63	0	76	0	5	0	0	3
U. North Carolina, Wilmington	297	143	0	0	122	0	11	0	0	0	10	0
California State U., Dominguez Hills	298	142	0	0	0	0	0	0	142	0	0	0
Cleveland State U.	299	141	0	0	1	0	11	0	0	0	129	0
St. John's U., New York	300	140	0	0	140	0	0	0	0	0	0	0
U. of St. Thomas (MN)	300	140	0	0	0	0	0	0	0	0	138	2
Texas Christian U.	302	139	0	0	0	0	0	0	0	0	0	139
U. Wisconsin-River Falls	303	137	0	0	11	0	0	0	0	0	0	126
Colorado State U., Pueblo	304	126	0	0	88	0	0	0	30	0	8	0
Northern Michigan U.	304	126	22	0	104	0	0	0	0	0	0	0

TABLE 31

Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Syracuse U.	306	124	0	0	20	0	0	0	20	0	67	17
Hobart and William Smith Colleges	307	120	7	12	39	0	12	0	8	0	0	42
Stephen F. Austin State U.	308	117	0	1	111	0	0	0	0	0	0	5
Long Island U.	309	116	0	0	116	0	0	0	0	0	0	0
U. California, Office of the President	309	116	0	0	116	0	0	0	0	0	0	0
SUNY, Geneseo	311	114	0	7	27	1	39	11	9	0	0	20
Touro U., California	311	114	0	0	114	0	0	0	0	0	0	0
Idaho State U.	313	113	5	0	84	0	0	0	5	0	19	0
Western Illinois U.	314	112	0	0	103	0	0	0	0	0	0	9
Eastern Washington U.	315	104	0	0	0	0	0	83	21	0	0	0
U. Baltimore	315	104	0	0	0	0	0	0	104	0	0	0
CUNY, Lehman C.	317	103	0	0	0	0	0	33	68	0	0	2
Franklin W. Olin C. of Engineering	317	103	0	0	0	0	0	0	0	0	103	0
U. Nebraska, Omaha	319	102	12	0	25	0	0	16	19	0	5	25
Brigham Young U., Provo	320	97	0	0	95	0	0	0	0	0	2	0
Northern Illinois U.	321	92	0	14	1	0	0	0	0	0	73	4
Toyota Technological Institute, Chicago	321	92	92	0	0	0	0	0	0	0	0	0
California Polytechnic State U., San Luis Obispo	323	86	0	0	7	0	0	0	0	0	0	79
CUNY, C. Staten Island	324	85	0	47	0	0	36	0	2	0	0	0
Merrimack C.	324	85	0	0	21	0	0	0	0	0	0	64
CUNY, Queens C.	326	82	0	0	58	16	0	0	8	0	0	0
U. Michigan, Dearborn	326	82	0	0	0	0	0	0	0	0	82	0
Lake Superior State U.	328	81	0	0	81	0	0	0	0	0	0	0
Bowdoin C.	329	79	58	0	21	0	0	0	0	0	0	0
Kent State U.	329	79	0	0	63	0	0	1	8	0	7	0
Western Washington U.	329	79	0	0	75	0	0	0	3	0	0	1
Clemson U.	332	77	0	0	77	0	0	0	0	0	0	0
Chapman U.	333	76	0	22	13	0	0	0	0	0	0	41
DePaul U.	334	73	0	0	0	0	0	0	0	0	0	73
Santa Clara U.	335	71	0	0	0	0	0	0	0	0	56	15
Virginia Commonwealth U.	336	70	0	0	49	0	0	0	0	0	0	21
U.S. Military Academy	337	68	0	0	0	7	0	0	0	0	61	0
Villanova U.	338	67	0	0	26	0	0	0	19	0	0	22
Azusa Pacific U.	339	64	0	0	0	0	45	0	0	0	0	19

TABLE 31

Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Miami U.	340	62	0	0	2	0	0	0	0	0	49	11
Stockton U.	340	62	0	0	0	0	0	0	62	0	0	0
Texas A&M U.-Commerce	342	61	61	0	0	0	0	0	0	0	0	0
Ithaca C.	343	58	0	0	4	0	49	0	0	0	0	5
Winston-Salem State U.	344	57	0	0	0	0	0	0	24	0	0	33
Elon U.	345	56	0	0	0	0	0	0	0	56	0	0
U. Minnesota, Duluth	346	55	0	0	2	0	10	2	0	0	19	22
Citadel Military C. South Carolina	347	53	0	0	0	1	0	8	0	0	41	3
Union C., Schenectady	347	53	3	0	26	0	3	3	3	0	12	3
Claremont McKenna C.	349	50	0	0	0	0	0	0	50	0	0	0
CUNY, Graduate School of Public Health and Health Policy	350	47	0	0	47	0	0	0	0	0	0	0
Wichita State U.	351	44	0	0	1	0	5	0	0	0	38	0
Bates C.	352	42	0	0	0	0	42	0	0	0	0	0
Georgia Southern U.	353	38	0	0	0	0	20	0	6	0	12	0
Monmouth U.	353	38	0	0	38	0	0	0	0	0	0	0
U. Alaska, Southeast	355	37	0	18	1	0	2	0	1	14	1	0
Central Washington U.	356	35	0	29	0	0	0	0	0	0	6	0
Delaware State U.	356	35	0	0	0	0	0	0	0	0	0	35
Jackson State U.	358	34	0	0	14	0	20	0	0	0	0	0
Troy U.	359	33	0	0	0	0	0	0	0	0	0	33
Florida Gulf Coast U.	360	32	0	0	32	0	0	0	0	0	0	0
U. New Haven	361	31	0	0	13	0	0	0	0	0	18	0
Texas A&M U.-San Antonio	362	30	0	0	0	0	0	0	0	0	30	0
East Tennessee State U.	363	29	0	0	28	0	0	0	0	0	0	1
Texas A&M U.-Kingsville	363	29	0	0	0	0	0	0	0	0	29	0
U. Texas, Tyler	363	29	0	5	5	0	0	0	0	0	7	12
Catholic U. of America	366	28	0	0	0	0	0	0	0	0	0	28
U. Oklahoma, Tulsa	367	27	0	0	0	0	0	0	0	0	0	27
U. Puerto Rico, Rio Piedras	367	27	0	0	0	0	0	0	16	0	0	11
James Madison U.	369	26	0	0	0	3	0	0	0	8	4	11
Towson U.	369	26	0	0	0	0	0	26	0	0	0	0
California State U., Fresno	371	25	0	0	0	0	0	0	0	0	0	25
Rutgers, State U. New Jersey, Camden	371	25	25	0	0	0	0	0	0	0	0	0
U. of Mary Washington	371	25	0	0	0	0	0	0	25	0	0	0

TABLE 31

Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Richmond	371	25	0	0	0	0	0	0	0	0	0	25
CUNY, New York City C. of Technology	375	24	20	0	0	0	0	0	4	0	0	0
SUNY, Oswego	375	24	0	0	11	0	10	3	0	0	0	0
Swarthmore C.	375	24	0	0	0	0	0	0	0	0	0	24
Alaska Pacific U.	378	23	0	23	0	0	0	0	0	0	0	0
SUNY, C. of Optometry	379	22	0	0	22	0	0	0	0	0	0	0
California State U., East Bay	380	21	0	0	21	0	0	0	0	0	0	0
Saginaw Valley State U.	381	20	i	i	i	i	i	i	i	i	i	i
U. Nebraska, Kearney	381	20	0	0	11	0	0	0	9	0	0	0
Trinity U.	383	19	0	2	17	0	0	0	0	0	0	0
U. Central Arkansas	383	19	0	0	7	0	11	0	1	0	0	0
Bentley U.	385	18	0	0	0	0	0	0	17	0	0	1
CUNY, Brooklyn C.	385	18	12	0	0	0	0	5	0	0	0	1
Lehigh U.	385	18	0	0	0	0	0	0	0	0	18	0
Missouri State U.	385	18	0	0	0	0	18	0	0	0	0	0
Appalachian State U.	389	17	0	0	17	0	0	0	0	0	0	0
Furman U.	389	17	0	0	0	0	17	0	0	0	0	0
SUNY, Buffalo State U.	389	17	0	11	0	0	0	0	6	0	0	0
Loma Linda U.	392	16	0	0	16	0	0	0	0	0	0	0
U. of the District of Columbia	393	15	0	0	15	0	0	0	0	0	0	0
Pennsylvania State U., Altoona	394	11	0	0	11	0	0	0	0	0	0	0
San Francisco State U.	394	11	0	0	11	0	0	0	0	0	0	0
U. Wisconsin-La Crosse	394	11	0	0	11	0	0	0	0	0	0	0
U. Wisconsin-Platteville	394	11	i	i	i	i	i	i	i	i	i	i
Eastern Michigan U.	398	10	0	0	0	0	0	0	0	0	0	10
Hawaii Pacific U.	398	10	0	10	0	0	0	0	0	0	0	0
Vassar C.	398	10	0	0	0	0	0	0	10	0	0	0
Indiana State U.	401	9	0	1	0	0	0	0	0	0	0	8
New Mexico Highlands U.	401	9	0	0	9	0	0	0	0	0	0	0
Pennsylvania State U., Behrend	401	9	0	1	0	0	8	0	0	0	0	0
SUNY, C. Brockport	401	9	0	0	9	0	0	0	0	0	0	0
Central Connecticut State U.	405	8	0	0	0	0	0	0	0	0	0	8
Middle Tennessee State U.	405	8	0	0	0	0	0	0	0	0	0	8
U. North Carolina, Charlotte	405	8	0	0	0	0	0	0	7	0	0	1

TABLE 31

Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Wisconsin-Eau Claire	405	8	0	0	3	0	5	0	0	0	0	0
Virginia State U.	405	8	0	0	8	0	0	0	0	0	0	0
Pepperdine U.	410	7	0	0	0	0	0	0	7	0	0	0
U. Virginia's C. Wise	410	7	0	0	0	0	0	0	0	0	0	7
Connecticut C.	412	6	0	0	0	0	0	0	6	0	0	0
U. Colorado Colorado Springs	412	6	6	0	0	0	0	0	0	0	0	0
Illinois State U.	414	5	0	0	5	0	0	0	0	0	0	0
Montclair State U.	414	5	0	0	0	0	0	0	5	0	0	0
U. New England	414	5	0	0	5	0	0	0	0	0	0	0
U. Southern Maine	414	5	0	0	5	0	0	0	0	0	0	0
Pennsylvania State U., Harrisburg	418	4	0	0	0	0	0	0	0	0	4	0
Tennessee State U.	418	4	0	0	0	0	0	4	0	0	0	0
Tougaloo C.	418	4 i	1 i	1 i	0 i	0 i	0 i	0 i	1 i	0 i	0 i	1 i
Drake U.	421	2	0	0	0	0	2	0	0	0	0	0
Southern Illinois U., Edwardsville	421	2	0	0	0	0	0	2	0	0	0	0
SUNY, C. Plattsburgh	421	2	0	0	0	0	0	0	2	0	0	0
U. Maryland, Eastern Shore	421	2	0	2	0	0	0	0	0	0	0	0
U. North Carolina, Asheville	421	2	0	0	0	0	0	0	0	0	0	2
U. South Dakota	421	2	0	0	2	0	0	0	0	0	0	0
C. Charleston	427	1	0	0	0	0	0	0	0	0	0	1
U. Central Oklahoma	427	1 i	0 i	0 i	0 i	0 i	1 i	0 i	0 i	0 i	0 i	0 i

i = imputed.

nec = not elsewhere classified; S&E = science and engineering.

^a The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^c Johns Hopkins University includes the Applied Physics Laboratory, with \$2,868 thousand in R&D expenditures from all other sources in FY 2023.

Note(s):

All other sources is funding sources other than the U.S. federal government, state and local governments, businesses, nonprofit institutions, and academic institutions own funds. This includes funds from foreign governments, foreign or U.S. universities, and gifts designated by the donors for research. Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 32

Higher education R&D expenditures at historically black colleges and universities, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
All HBCUs	-	769,508	537,305	70,967	119,926	10,955	22,655	7,700
Howard U.	1	84,756	47,662	2,840	22,461	4,552	5,140	2,101
Florida A&M U.	2	65,159	54,363	2,851	6,503	586	856	0
North Carolina A&T State U.	3	62,307	37,152	2,075	21,880	628	292	280
Morehouse School of Medicine	4	57,125	41,069	987	10,710	0	4,359	0
Morgan State U.	5	43,868	30,451	5,582	5,635	721	644	835
Delaware State U.	6	33,499	24,167	4,093	3,975	48	1,181	35
Tennessee State U.	7	28,246	15,983	1,177	10,740	155	187	4
Tuskegee U.	8	25,625	16,023	3,565	2,539	0	0	3,498
Meharry Medical C.	9	22,002	18,398	0	603	64	2,937	0
Prairie View A&M U.	10	21,791	12,354	4,391	3,550	490	1,006	0
U. of the Virgin Islands	11	20,259	19,127	1,010	NA	48	74	0
Jackson State U.	12	19,457	16,443	0	1,601	4	1,375	34
Alcorn State U.	13	19,141	10,996	5,206	2,894	24	21	0
North Carolina Central U.	14	18,477 i	15,188 i	1,085 i	NA	494 i	883 i	827 i
Texas Southern U.	15	16,287	10,969	1,227	4,042	0	49	0
Alabama A&M U.	16	15,588	12,197	162	2,848	381	0	0
Fort Valley State U.	17	15,536	7,505	8,031	0	0	0	0
Xavier U. Louisiana	18	15,519	12,833	722	1,161	0	803	0
Virginia State U.	19	13,504	7,166	3,051	2,566	0	713	8
Kentucky State U.	20	11,591	7,605	3,969	NA	17	0	0
Central State U.	21	11,123	5,523	3,857	1,743	0	0	0
U. Maryland, Eastern Shore	22	10,730	10,201	237	266	0	24	2
Langston U.	23	10,505	5,473	19	4,583	430	0	0
Clark Atlanta U.	24	10,320	7,687	0	2,523	79	31	0
Hampton U.	25	9,769	9,445	0	324	0	0	0
Winston-Salem State U.	26	8,668	7,901	374	0	0	336	57
Lincoln U., Jefferson City	27	8,196	4,610	3,552	34	0	0	0
U. of the District of Columbia	28	7,945	7,367	384	48	0	131	15
South Carolina State U.	29	7,814	5,330	1,531	890	0	63	0
U. Arkansas, Pine Bluff	30	7,766	4,204	1,294	2,219	41	8	0
Southern U. and A&M C., Agricultural Research and Extension Center	31	7,764	4,688	3,037	24	0	15	0
Norfolk State U.	32	6,194	4,381	574	677	182	380	0
Morehouse C.	33	5,750	5,750	0	NA	0	0	0
West Virginia State U.	34	5,226	2,800	1,804	521	0	101	0

TABLE 32

Higher education R&D expenditures at historically black colleges and universities, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds							
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources		
Southern U. and A&M C., Baton Rouge	35	5,201	4,444	75	34	648	0	0		
Spelman C.	36	4,877	4,567	0	0	0	310	0		
Fisk U.	37	4,867	3,819	240	304	0	504	0		
Fayetteville State U.	38	3,569 i	1,847 i	536 i	1,005 i	130 i	51 i	0 i		
Alabama State U.	39	3,229	2,848	0	0	296	85	0		
Tougaloo C.	40	2,663 i	2,643 i	4 i	4 i	4 i	4 i	4 i		
Bowie State U.	41	2,612	2,469	143	0	0	0	0		
Benedict C.	42	2,307	1,665	0	0	635	7	0		
Dillard U.	43	2,296	1,228	117	951	0	0	0		
Albany State U.	44	1,932	1,681	106	0	145	0	0		
Savannah State U.	45	1,706	1,675	18	0	0	13	0		
Elizabeth City State U.	46	1,641	1,093	403	NA	145	0	0		
Johnson C. Smith U.	47	1,602	1,554	0	48	0	0	0		
Clafin U.	48	1,418	1,418	0	0	0	0	0		
Southern U., New Orleans	49	1,004	536	460	0	8	0	0		
Lincoln U.	50	628	430	126	0	0	72	0		
Grambling State U.	51	449	377	52	20	0	0	0		

i = imputed. NA = not available; data were not provided by institution.

HBCUs = historically black colleges and universities.

Note(s):Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 33

Higher education R&D expenditures at historically black colleges and universities, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All HBCUs	-	769,508	25,282	32,719	436,147	8,143	69,138	6,793	17,546	8,078	90,620	75,042
Howard U.	1	84,756	7,235	0	48,554	369	7,016	1,976	1,671	0	11,221	6,714
Florida A&M U.	2	65,159	220	5,377	31,768	33	2,201	120	467	0	9,530	15,443
North Carolina A&T State U.	3	62,307	1,884	0	22,995	1,149	3,306	95	111	2,056	20,925	9,786
Morehouse School of Medicine	4	57,125	0	0	57,125	0	0	0	0	0	0	0
Morgan State U.	5	43,868	1,109	8,663	10,795	356	3,287	286	1,864	0	10,725	6,783
Delaware State U.	6	33,499	1,071	1,451	20,808	803	5,666	473	787	1,296	419	725
Tennessee State U.	7	28,246	1,412	0	16,921	0	369	152	0	0	3,026	6,366
Tuskegee U.	8	25,625	923	0	18,189	616	2,141	0	5	472	3,262	17
Meharry Medical C.	9	22,002	508	0	21,494	0	0	0	0	0	0	0
Prairie View A&M U.	10	21,791	671	2	10,328	40	1,545	5	431	4	5,101	3,664
U. of the Virgin Islands	11	20,259	267	8,729	8,130	679	1,130	0	534	0	790	0
Jackson State U.	12	19,457	383	0	6,183	128	7,333	167	559	618	3,214	872
Alcorn State U.	13	19,141	0	0	11,432	0	0	0	6,360	0	1,349	0
North Carolina Central U.	14	18,477 i	157 i	261 i	7,115 i	0 i	5,524 i	0 i	357 i	293 i	2,317 i	2,453 i
Texas Southern U.	15	16,287	100	0	11,092	125	1,823	661	1,096	0	75	1,315
Alabama A&M U.	16	15,588	557 i	0 i	9,197 i	118 i	1,143 i	310 i	447 i	0 i	3,018 i	798 i
Fort Valley State U.	17	15,536	0	70	15,331	17	118	0	0	0	0	0
Xavier U. Louisiana	18	15,519	540	0	7,030	0	7,701	0	91	0	135	22
Virginia State U.	19	13,504	102	45	8,961	36	144	323	16	1	2,110	1,766
Kentucky State U.	20	11,591	13	0	11,578	0	0	0	0	0	0	0
Central State U.	21	11,123	0	163	10,270	59	352	0	0	124	155	0
U. Maryland, Eastern Shore	22	10,730	0	3,388	7,264	0	15	0	0	0	63	0
Langston U.	23	10,505	0	0	9,676	27	110	518	0	0	0	174
Clark Atlanta U.	24	10,320	113	0	5,873	845	3,168	0	0	0	114	207
Hampton U.	25	9,769	409	1,880	1,745	490	3,898	0	139	0	837	371
Winston-Salem State U.	26	8,668	746	0	2,928	43	551	195	264	0	0	3,941
Lincoln U., Jefferson City	27	8,196	0 i	996 i	6,626 i	0 i	0 i	0 i	237 i	336 i	0 i	1 i
U. of the District of Columbia	28	7,945	351	146	107	227	7	284	50	145	3,342	3,286
South Carolina State U.	29	7,814	1,025	278	3,360	0	541	0	619	0	924	1,067
U. Arkansas, Pine Bluff	30	7,766	0	0	6,081	0	726	0	0	477	0	482
Southern U. and A&M C., Agricultural Research and Extension Center	31	7,764	0	0	7,764	0	0	0	0	0	0	0
Norfolk State U.	32	6,194	444	0	326	123	1,074	0	323	0	2,218	1,686
Morehouse C.	33	5,750	641	0	400	0	2,813	46	0	1,471	0	379

TABLE 33

Higher education R&D expenditures at historically black colleges and universities, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
West Virginia State U.	34	5,226	0	0	5,203	23	0	0	0	0	0	0
Southern U. and A&M C., Baton Rouge	35	5,201	417	0	1,211	100	433	0	40	0	2,338	662
Spelman C.	36	4,877	69	336	869	1,112	774	941	312	145	0	319
Fisk U.	37	4,867	949	0	1,228	104	2,574	10	0	0	0	2
Fayetteville State U.	38	3,569 i	524 i	0 i	872 i	0 i	183 i	0 i	173 i	47 i	141 i	1,629 i
Alabama State U.	39	3,229	255	0	2,579	141	0	0	0	0	14	240
Tougaloo C.	40	2,663 i	106 i	2 i	1,368 i	105 i	610 i	127 i	70 i	2 i	2 i	271 i
Bowie State U.	41	2,612	892	0	1,002	14	0	0	69	0	0	635
Benedict C.	42	2,307	189	0	354	187	149	0	0	0	1,428	0
Dillard U.	43	2,296	0	33	1,498	14	163	0	1	198	85	304
Albany State U.	44	1,932	57	0	158	60	111	0	169	188	1,177	12
Savannah State U.	45	1,706	0	522	318	0	85	0	74	205	502	0
Elizabeth City State U.	46	1,641	386	0	495	0	0	3	116	0	0	641
Johnson C. Smith U.	47	1,602	43	308	98	0	0	0	0	0	0	1,153
Clafin U.	48	1,418	306	53	562	0	340	0	94	0	63	0
Southern U., New Orleans	49	1,004	0	0	536	0	0	0	0	0	0	468
Lincoln U.	50	628	96	0	232	0	14	0	0	0	0	286
Grambling State U.	51	449	112	16	118	0	0	101	0	0	0	102

i = imputed.

HBCUs = historically black colleges and universities; nec = not elsewhere classified; S&E = science and engineering.

Note(s):

Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 34

Higher education R&D expenditures at high-Hispanic-enrollment institutions, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
All HHE institutions	-	11,481,185	5,378,161	1,158,039	3,315,267	616,999	536,524	476,195
Texas A&M U., College Station and Health Science Center	1	1,277,814	546,481	251,300	353,916	37,390	53,710	35,017
U. Texas M. D. Anderson Cancer Center	2	1,255,190	259,285	300,907	256,545	248,261	38,163	152,029
U. Texas, Austin	3	1,035,838	621,223	37,601	235,987	79,753	52,764	8,510
U. Arizona	4	955,424	434,700	37,173	304,671	25,328	31,154	122,398
U. California, Irvine	5	609,614	335,393	19,360	132,261	46,182	33,514	42,904
U. Illinois, Chicago	6	492,936	274,424	9,293	158,846	9,469	30,905	9,999
U. Texas Health Science Center, Houston	7	374,105	197,759	48,815	66,008	17,466	34,341	9,716
U. New Mexico	8	316,026	205,351	7,072	79,298	5,469	16,855	1,981
Florida International U.	9	306,434	156,381	21,887	115,737	3,019	7,971	1,439
U. California, Santa Barbara	10	305,483	179,896	7,230	65,230	14,790	27,455	10,882
U. Texas Health Science Center, San Antonio	11	281,078	143,730	30,582	70,676	10,393	25,514	183
U. Central Florida	12	247,259	124,256	5,893	99,427	9,659	3,642	4,382
Texas Tech U.	13	240,107	58,922	28,095	122,202	15,461	14,994	433
U. Texas Medical Branch	14	233,192	150,272	7,479	58,807	6,138	10,496	0
U. Houston	15	231,942	99,450	28,641	84,315	8,565	6,492	4,479
U. California, Riverside	16	214,802	120,524	10,655	55,114	7,288	10,826	10,395
U. California, Santa Cruz	17	203,883	112,847	6,863	51,368	7,591	18,454	6,760
New Jersey Institute of Technology	18	161,078	70,080	19,994	64,230	1,385	1,616	3,773
U. Texas, San Antonio	19	158,453	58,171	21,583	67,694	5,971	1,988	3,046
San Diego State U.	20	158,013	68,045	6,745	77,130	469	3,666	1,958
U. Texas, Arlington	21	147,265	56,337	28,343	50,435	5,284	4,708	2,158
U. Texas, El Paso	22	145,724	70,873	16,687	44,987	1,268	1,770	10,139
Texas State U.	23	141,291	44,297	4,667	83,686	1,378	7,106	157
Rush U.	24	132,394	93,180	2,208	12,316	16,533	8,157	0
New Mexico State U.	25	126,337	71,764	24,741	18,791	1,873	3,039	6,129
New Mexico Institute of Mining and Technology	26	118,735	100,873	10,189	3,375	3,346	324	628
U. North Texas, Denton	27	106,665	30,017	5,695	63,577	1,907	2,170	3,299
U. Nevada, Las Vegas	28	98,751	38,815	2,536	51,945	1,599	1,096	2,760
San Jose State U.	29	83,406	31,780	7,116	38,582	2,101	2,478	1,349
U. Texas Rio Grande Valley	30	82,444	25,068	4,367	37,248	569	15,016	176
Florida Atlantic U.	31	77,593	35,108	8,511	23,101	2,611	7,308	954
Northern Arizona U.	32	77,533	50,491	9,030	15,566	1,023	1,250	173
CUNY, City C.	33	63,159	38,669	11,846	10,996	223	1,047	378
U. California, Merced	34	62,279	28,576	6,985	20,709	1,294	2,464	2,251

TABLE 34

Higher education R&D expenditures at high-Hispanic-enrollment institutions, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Puerto Rico, Medical Sciences Campus	35	61,235	46,789	406	10,781	3,259	0	0
CUNY, Graduate Center	36	54,089	2,792	428	45,484	127	4,450	808
Nova Southeastern U.	37	50,173	11,637	3,862	32,874	543	762	495
Texas Tech U., Health Sciences Center	38	48,638	14,732	18,670	9,432	608	3,205	1,991
Texas A&M U.-Corpus Christi	39	39,305	17,742	10,790	5,118	230	2,783	2,642
Montclair State U.	40	38,209	5,916	707	29,934	26	1,621	5
CUNY, Hunter C.	41	37,172	22,124	3,037	9,506	739	1,293	473
San Francisco State U.	42	34,466	16,507	1,978	14,434	0	1,536	11
Rutgers, State U. New Jersey, Newark	43	29,787	16,315	1,073	9,143	195	2,880	181
U. Puerto Rico, Rio Piedras	44	29,202	16,053	81	12,414	252	375	27
California State U., Sacramento	45	28,027	11,284	10,056	5,821	26	556	284
Texas A&M U.-Kingsville	46	26,401	9,584	7,058	3,311	487	5,932	29
California State U., Fullerton	47	25,811	6,049	205	18,925	204	428	0
CUNY, Queens C.	48	25,492	17,811	1,345	5,536	8	710	82
California State U., Northridge	49	23,093	19,169	1,152	1,278	113	1,381	0
CUNY, John Jay C. of Criminal Justice	50	22,967	7,452	6,104	5,096	111	3,124	1,080
U. Colorado Denver	51	22,530	17,181	2,387	513	846	1,258	345
Loma Linda U.	52	22,262	12,485	745	4,913	1,469	2,634	16
California State U., Long Beach	53	21,458	13,758	1,930	3,618	149	1,468	535
California State U., East Bay	54	21,312	8,508	433	9,969	0	2,381	21
Charles R. Drew U. of Medicine and Science	55	19,551	13,297	886	3,758	0	1,610	0
California State Polytechnic U., Humboldt	56	18,800	3,280	3,338	5,724	437	3,094	2,927
U. Puerto Rico, Mayaguez	57	13,989	12,260	193	421	455	660	0
Texas Tech U., Health Sciences Center, El Paso	58	13,189	2,415	3,097	6,947	229	501	0
California State U., San Bernardino	59	13,152	7,606	2,799	2,051	1	695	0
Sam Houston State U.	60	11,760	3,307	579	6,787	235	315	537
California State U., San Marcos	61	11,443	9,845	1,171	326	0	101	0
California State U., Fresno	62	11,411	4,864	1,394	3,770	238	1,120	25
California State Polytechnic U., Pomona	63	10,722	8,162	881	1,438	171	70	0
California State U., Monterey Bay	64	10,678	5,639	2,125	2,706	64	144	0
West Texas A&M U.	65	10,302	2,118	4,772	2,243	1,135	34	0
California State U., Los Angeles	66	10,186	8,973	108	788	0	317	0
Kean U.	67	10,062	1,870	134	7,954	15	89	0
U. Northern Colorado	68	9,064	1,705	202	6,848	69	240	0
Purdue U., Northwest	69	7,504	3,409	996	1,604	597	236	662

TABLE 34

Higher education R&D expenditures at high-Hispanic-enrollment institutions, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Texas Woman's U.	70	6,922	2,439	2,136	1,396	166	785	0
California State U., Bakersfield	71	6,409	3,525	154	2,580	0	150	0
Azusa Pacific U.	72	6,097	140	40	5,545	35	273	64
California State U., Chico	73	5,984	3,152	1,130	636	18	97	951
CUNY, Lehman C.	74	5,918	4,487	0	782	365	181	103
Texas A&M International U.	75	5,602	1,966	1,011	1,542	170	913	0
California State U., Dominguez Hills	76	5,558	2,457	870	1,996	41	52	142
Sul Ross State U.	77	4,878	1,568	1,223	1,804	0	283	0
U. Central del Caribe	77	4,878	2,929	524	1,270	0	0	155
CUNY, C. Staten Island	79	4,730	3,296	224	975	41	109	85
Sonoma State U.	80	4,625	3,483	585	321	46	190	0
CUNY, Baruch C.	81	4,084	1,879	77	988	91	785	264
California State U., Channel Islands	82	3,992	1,773	1,086	737	219	177	0
U. Texas, Tyler	83	3,487	1,652	960	432	227	187	29
New Mexico Highlands U.	84	3,468	3,416	0	43	0	0	9
CUNY, New York City C. of Technology	85	2,819	2,498	30	241	10	16	24
U. Texas of the Permian Basin	86	2,769	1,013	525	832	190	7	202
Marymount U.	87	2,601	396	29	1,983	0	193	0
La Sierra U.	88	2,496 i	1,066 i	0 i	734 i	0 i	696 i	0 i
California State U., Stanislaus	89	2,305	1,150	513	168	468	6	0
Northeastern Illinois U.	90	2,262	2,262	0	0	0	0	0
U. of the Incarnate Word	91	2,245	1,086	0	1,050	54	55	0
U. Ana G. Mendez, Gurabo	92	2,132	2,132	0	0	0	0	0
U. Houston-Clear Lake	93	2,127	1,273	251	48	533	22	0
U. Puerto Rico, Humacao	94	2,074	1,822	0	252	0	0	0
U. of the Pacific	95	1,972	1,300	586	NA	9	77	0
U. Houston-Downtown	96	1,967	1,495	183	140	68	81	0
Nevada State C.	97	1,744	1,711	33	0	0	0	0
Colorado State U., Pueblo	98	1,624	952	199	347	0	0	126
Texas A&M U.-San Antonio	99	1,593	1,233	51	51	4	224	30
U. Puerto Rico, Cayey	100	1,519	733	0	412	0	374	0
St. Edward's U.	101	1,334	315	186	762	0	71	0
Manhattan C.	102	1,250	422	222	460	146	0	0
Rhode Island C.	103	839	786	0	NA	0	53	0
U. Puerto Rico, Ponce	104	659	510	0	149	0	0	0

TABLE 34

Higher education R&D expenditures at high-Hispanic-enrollment institutions, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
William Paterson U.	105	533	168	0	350	4	11	0

i = imputed. NA = not available; data were not provided by institution.

HHE = high Hispanic enrollment.

Note(s):

HHE institutions are those whose full-time equivalent (FTE) undergraduate student enrollment is at least 25% Hispanic, according to fall 2022 data in the Integrated Postsecondary Education Data System, directed by the National Center for Education Statistics. FTE enrollment is calculated as full-time undergraduate student enrollment plus one-third of part-time undergraduate student enrollment. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 35

Higher education R&D expenditures at high-Hispanic-enrollment institutions, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All HHE institutions	-	11,481,185	451,722	557,895	5,484,540	150,061	956,294	292,188	356,204	144,572	2,143,607	944,102
Texas A&M U., College Station and Health Science Center	1	1,277,814	28,414	125,114	464,675	8,774	65,248	10,488	32,324	13,003	464,769	65,005
U. Texas M. D. Anderson Cancer Center	2	1,255,190	0	0	1,166,465	23,423	23,775	18,290	23,237	0	0	0
U. Texas, Austin	3	1,035,838	116,971	76,120	188,258	18,889	123,113	16,683	32,781	5,907	360,947	96,169
U. Arizona	4	955,424	18,319	44,173	522,916	7,530	173,256	10,219	27,542	13,247	103,771	34,451
U. California, Irvine	5	609,614	26,089	11,236	369,735	8,818	43,790	14,662	13,104	457	84,902	36,821
U. Illinois, Chicago	6	492,936	12,543	1,331	347,162	5,823	28,674	4,041	11,499	12,958	46,820	22,085
U. Texas Health Science Center, Houston	7	374,105	0	0	374,105	0	0	0	0	0	0	0
U. New Mexico	8	316,026	4,816	7,551	204,109	1,012	11,065	7,440	13,113	8,015	51,318	7,587
Florida International U.	9	306,434	22,726	29,061	71,169	3,628	31,704	41,054	21,873	3,554	56,199	25,466
U. California, Santa Barbara	10	305,483	23,101	38,926	13,211	1,759	68,503	4,387	11,052	18,612	111,017	14,915
U. Texas Health Science Center, San Antonio	11	281,078	0	0	281,078	0	0	0	0	0	0	0
U. Central Florida	12	247,259	30,129	6,932	39,523	2,971	45,916	9,837	8,249	6,424	68,340	28,938
Texas Tech U.	13	240,107	5,472	11,667	74,439	4,501	15,057	8,343	13,213	0	53,564	53,851
U. Texas Medical Branch	14	233,192	0	0	225,795	0	0	0	0	0	7,397	0
U. Houston	15	231,942	9,325	12,509	46,297	7,605	27,682	19,682	4,721	1,101	67,684	35,336
U. California, Riverside	16	214,802	7,414	12,654	108,803	2,694	18,535	6,971	10,057	2,877	36,650	8,147
U. California, Santa Cruz	17	203,883	8,695	39,967	34,549	605	43,696	1,226	7,665	680	57,256	9,544
New Jersey Institute of Technology	18	161,078	12,638	0	24,332	5,475	18,434	0	625	277	90,849	8,448
U. Texas, San Antonio	19	158,453	22,722	4,765	31,428	1,782	12,226	3,133	12,152	1,929	25,584	42,732
San Diego State U.	20	158,013	2,902	2,911	46,665	4,198	10,039	23,094	7,749	8,999	16,138	35,318
U. Texas, Arlington	21	147,265	9,165	1,228	23,340	3,317	20,371	2,416	150	0	64,548	22,730
U. Texas, El Paso	22	145,724	8,443	4,729	35,325	2,552	12,207	6,453	4,319	3,722	45,627	22,347
Texas State U.	23	141,291	5,633	7,467	20,212	3,465	6,776	329	10,760	4,272	11,165	71,212
Rush U.	24	132,394	0	0	128,200	0	0	4,194	0	0	0	0
New Mexico State U.	25	126,337	5,075	4,514	55,765	170	12,826	312	701	4,087	40,884	2,003
New Mexico Institute of Mining and Technology	26	118,735	14,923	16,521	558	157	7,124	464	0	0	76,286	2,702
U. North Texas, Denton	27	106,665	12,171	538	16,228	1,879	9,854	3,758	4,801	0	27,249	30,187
U. Nevada, Las Vegas	28	98,751	2,120	5,803	36,005	2,558	11,407	2,027	7,566	910	13,866	16,489
San Jose State U.	29	83,406	570	16,140	6,431	1,522	5,800	16,798	4,400	0	9,496	22,249
U. Texas Rio Grande Valley	30	82,444	2,540	2,766	37,668	3,845	5,214	1,268	4,897	63	11,028	13,155
Florida Atlantic U.	31	77,593	4,999	890	35,633	1,112	3,509	2,749	1,089	0	17,629	9,983
Northern Arizona U.	32	77,533	4,797	5,518	48,110	34	7,952	196	520	1,472	5,880	3,054
CUNY, City C.	33	63,159	358	1,627	8,800	358	10,061	1,297	76	4	21,627	18,951

TABLE 35

Higher education R&D expenditures at high-Hispanic-enrollment institutions, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. California, Merced	34	62,279	1,864	3,811	10,265	1,650	6,930	365	4,460	4,708	21,052	7,174
U. Puerto Rico, Medical Sciences Campus	35	61,235	0	250	60,985	0	0	0	0	0	0	0
CUNY, Graduate Center	36	54,089	1,079	881	3,725	1,564	2,993	5,510	14,400	354	206	23,377
Nova Southeastern U.	37	50,173	1,022	12,274	26,746	268	359	2,278	2,439	1,366	108	3,313
Texas Tech U., Health Sciences Center	38	48,638	0	0	47,072	0	0	0	0	0	0	1,566
Texas A&M U.-Corpus Christi	39	39,305	982	15,556	4,745	126	1,643	9	1,030	1,336	9,507	4,371
Montclair State U.	40	38,209	1,332	2,352	5,509	1,684	2,520	6,448	4,747	0	402	13,215
CUNY, Hunter C.	41	37,172	1,805	1,258	10,272	262	5,712	8,218	1,537	0	0	8,108
San Francisco State U.	42	34,466	2,172	3,055	14,372	1,155	2,867	1,912	3,053	1,561	1,967	2,352
Rutgers, State U. New Jersey, Newark	43	29,787	1,107	3,154	11,575	0	4,188	1,638	3,265	171	0	4,689
U. Puerto Rico, Rio Piedras	44	29,202	783	2,644	3,451	157	5,852	76	1,443	3,953	2,930	7,913
California State U., Sacramento	45	28,027	212	850	1,182	112	630	176	2,511	6,623	11,433	4,298
Texas A&M U.-Kingsville	46	26,401	784	215	18,205	0	265	72	24	255	5,130	1,451
California State U., Fullerton	47	25,811	1,299	902	5,538	887	2,331	918	2,253	1,397	1,355	8,931
CUNY, Queens C.	48	25,492	442	680	16,586	380	2,163	2,523	1,325	617	0	776
California State U., Northridge	49	23,093	329	1,969	7,147	480	8,180	676	597	242	2,209	1,264
CUNY, John Jay C. of Criminal Justice	50	22,967	6	0	419	342	723	2,412	2,511	83	0	16,471
U. Colorado Denver	51	22,530	573	893	5,291	1,613	1,924	1,218	432	16	4,511	6,059
Loma Linda U.	52	22,262	0	0	20,844	0	0	1,413	0	0	0	5
California State U., Long Beach	53	21,458	542	514	7,345	534	2,993	2,056	1,113	365	3,160	2,836
California State U., East Bay	54	21,312	136	671	2,537	180	999	418	936	0	155	15,280
Charles R. Drew U. of Medicine and Science	55	19,551	0	0	19,551	0	0	0	0	0	0	0
California State Polytechnic U., Humboldt	56	18,800	39	1,264	6,526	32	1,038	4	2,072	735	5,920	1,170
U. Puerto Rico, Mayaguez	57	13,989	333	1,976	368	51	2,339	0	177	0	7,401	1,344
Texas Tech U., Health Sciences Center, El Paso	58	13,189	0	0	11,829	0	0	0	0	0	0	1,360
California State U., San Bernardino	59	13,152	1,228	239	1,559	462	3,067	3,229	349	208	1,108	1,703
Sam Houston State U.	60	11,760	109	86	1,829	455	467	208	4,784	0	109	3,713
California State U., San Marcos	61	11,443	640	229	2,102	52	1,109	894	140	4,551	937	789
California State U., Fresno	62	11,411	219	221	6,128	909	1,295	186	401	0	1,450	602
California State Polytechnic U., Pomona	63	10,722	432	4	4,204	106	1,453	19	93	50	1,673	2,688
California State U., Monterey Bay	64	10,678	1,294	3,299	5,232	204	349	0	148	0	23	129
West Texas A&M U.	65	10,302	363	322	7,434	1	247	0	0	290	1,075	570
California State U., Los Angeles	66	10,186	499	236	1,272	10	4,354	249	648	0	2,149	769
Kean U.	67	10,062	1,801	129	1,463	187	502	281	1,843	70	1	3,785

TABLE 35

Higher education R&D expenditures at high-Hispanic-enrollment institutions, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Northern Colorado	68	9,064	88	602	1,925	371	374	875	985	0	0	3,844
Purdue U., Northwest	69	7,504	510	0	1,035	0	302	10	0	261	3,078	2,308
Texas Woman's U.	70	6,922	43	0	4,253	166	286	1,450	412	10	0	302
California State U., Bakersfield	71	6,409	0	194	661	1,353	202	23	446	0	711	2,819
Azusa Pacific U.	72	6,097	119	0	2,795	49	256	1,021	35	0	21	1,801
California State U., Chico	73	5,984	3	485	2,734	25	396	0	110	0	1,465	766
CUNY, Lehman C.	74	5,918	402	43	757	181	3,003	178	581	3	0	770
Texas A&M International U.	75	5,602	9	106	743	152	314	81	820	887	175	2,315
California State U., Dominguez Hills	76	5,558	440	95	845	82	1,128	759	1,419	0	27	763
Sul Ross State U.	77	4,878	0	0	2,458	0	231	0	0	152	0	2,037
U. Central del Caribe	77	4,878	0	0	4,878	0	0	0	0	0	0	0
CUNY, C. Staten Island	79	4,730	123	54	1,300	116	1,303	709	17	0	288	820
Sonoma State U.	80	4,625	0	2,019	744	724	145	68	134	84	67	640
CUNY, Baruch C.	81	4,084	0	269	807	682	347	175	169	9	0	1,626
California State U., Channel Islands	82	3,992	149	82	1,854	536	357	7	197	609	0	201
U. Texas, Tyler	83	3,487	25	119	1,957	87	122	59	57	0	812	249
New Mexico Highlands U.	84	3,468	1,095	151	1,803	242	12	151	0	0	0	14
CUNY, New York City C. of Technology	85	2,819	241	0	162	220	585	0	24	0	806	781
U. Texas of the Permian Basin	86	2,769	0	161	593	7	51	62	271	0	416	1,208
Marymount U.	87	2,601	427	0	790	39	32	180	287	0	111	735
La Sierra U.	88	2,496	0	0	8	0	1	82	0	0	0	2,405
California State U., Stanislaus	89	2,305	125	2	813	281	203	364	441	0	0	76
Northeastern Illinois U.	90	2,262	481	44	1,271	0	0	0	11	0	0	455
U. of the Incarnate Word	91	2,245	10	6	1,324	0	349	0	0	0	289	267
U. Ana G. Mendez, Gurabo	92	2,132	0	0	0	0	0	0	0	0	0	2,132
U. Houston-Clear Lake	93	2,127	57	0	1,369	0	206	103	56	5	184	147
U. Puerto Rico, Humacao	94	2,074	0	105	117	0	1,852	0	0	0	0	0
U. of the Pacific	95	1,972	87	221	1,448	0	88	0	0	0	128	0
U. Houston-Downtown	96	1,967	367	30	245	35	110	41	0	0	79	1,060
Nevada State C.	97	1,744	0	59	995	0	0	286	0	0	0	404
Colorado State U., Pueblo	98	1,624	158	0	1,395	0	0	0	63	0	8	0
Texas A&M U.-San Antonio	99	1,593	117	38	409	29	0	91	87	53	34	735
U. Puerto Rico, Cayey	100	1,519	0	0	81	0	248	0	237	953	0	0
St. Edward's U.	101	1,334	20	304	680	35	70	60	140	25	0	0

TABLE 35

Higher education R&D expenditures at high-Hispanic-enrollment institutions, ranked by all R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Manhattan C.	102	1,250	0	0	114	260	79	0	221	0	447	129
Rhode Island C.	103	839	98	0	358	0	326	57	0	0	0	0
U. Puerto Rico, Ponce	104	659	0	0	401	69	9	0	0	0	0	180
William Paterson U.	105	533	32	114	121	1	1	79	18	0	0	167

i = imputed.

HHE = high Hispanic enrollment; nec = not elsewhere classified; S&E = science and engineering.

Note(s):

HHE institutions are those whose full-time equivalent (FTE) undergraduate student enrollment is at least 25% Hispanic, according to fall 2022 data in the Integrated Postsecondary Education Data System, directed by the National Center for Education Statistics. FTE enrollment is calculated as full-time undergraduate student enrollment plus one-third of part-time undergraduate student enrollment. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 36

Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2023

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
All institutions	-	69,196,722	39,484,286	108,681,008
Johns Hopkins U. ^a	1	2,883,002	918,583	3,801,585
Georgia Institute of Technology	2	1,405,080	0	1,405,080
U. Texas M. D. Anderson Cancer Center	3	1,255,190	0	1,255,190
Texas A&M U., College Station and Health Science Center	4	1,221,049	56,765	1,277,814
U. Michigan, Ann Arbor	5	1,128,841	797,034	1,925,875
U. Wisconsin-Madison	6	1,127,480	604,469	1,731,949
U. California, Berkeley	7	1,076,754	0	1,076,754
Pennsylvania State U., University Park and Hershey Medical Center	8	1,049,305	157,488	1,206,793
Massachusetts Institute of Technology	9	1,000,081	0	1,000,081
U. Texas, Austin	10	989,652	46,186	1,035,838
Harvard U.	11	984,897	450,321	1,435,218
U. California, San Diego	12	923,334	782,076	1,705,410
Arizona State U.	13	903,779	0	903,779
U. Minnesota, Twin Cities	14	865,640	454,543	1,320,183
Purdue U., West Lafayette	15	844,570	0	844,570
U. Maryland ^b	16	841,731	543,571	1,385,302
Cornell U.	17	821,271	630,700	1,451,971
U. Illinois, Urbana-Champaign	18	820,053	970	821,023
U. Washington, Seattle	19	789,767	944,324	1,734,091
Michigan State U.	20	727,411	116,665	844,076
U. Florida	21	719,135	531,066	1,250,201
Ohio State U.	22	710,495	738,693	1,449,188
U. California, Davis	23	700,090	262,309	962,399
U. North Carolina, Chapel Hill	24	695,523	854,094	1,549,617
U. Southern California	25	676,214	478,590	1,154,804
U. Arizona	26	668,877	286,547	955,424
U. Colorado Boulder	27	651,924	0	651,924
Columbia U. in the City of New York	28	648,383	693,569	1,341,952
North Carolina State U.	29	633,251	0	633,251
U. California, Los Angeles	30	631,766	1,089,899	1,721,665
Vanderbilt U. and Vanderbilt U. Medical Center	31	606,063	647,093	1,253,156
Virginia Polytechnic Institute and State U.	32	598,113	0	598,113
U. Pennsylvania	33	586,246	1,367,371	1,953,617
U. Georgia	34	570,956	0	570,956
Boston U.	35	548,784	224,416	773,200
Princeton U.	36	513,365	0	513,365
Colorado State U., Fort Collins	37	498,073	0	498,073
Scripps Research Institute	38	494,946	0	494,946
California Institute of Technology	39	490,672	0	490,672
Carnegie Mellon U.	40	484,757	0	484,757
U. Nebraska, Lincoln and Medical Center ^c	41	484,437	132,935	617,372
New York U.	42	478,272	979,152	1,457,424
U. Utah	43	468,018	255,695	723,713
Stanford U.	44	455,095	1,082,751	1,537,846
U. Delaware	45	428,128	0	428,128
Iowa State U.	46	420,823	0	420,823
Utah State U.	47	401,437	0	401,437

TABLE 36

Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2023

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
U. California, Irvine	48	399,132	210,482	609,614
Emory U.	49	393,379	700,949	1,094,328
Rutgers, State U. New Jersey, New Brunswick	50	385,891	445,828	831,719
Rockefeller U.	51	385,168	0	385,168
Louisiana State U., Baton Rouge	52	384,268	0	384,268
Florida State U.	53	380,203	34,260	414,463
U. Pittsburgh, Pittsburgh	54	373,477	1,024,601	1,398,078
Wichita State U.	55	366,848	0	366,848
U. Virginia, Charlottesville	56	364,713	349,744	714,457
Washington State U.	57	362,718	16,026	378,744
U. Missouri, Columbia	58	353,856	108,579	462,435
Auburn U., Auburn	59	349,273	0	349,273
Northwestern U.	60	348,983	765,286	1,114,269
U. Tennessee, Knoxville	61	338,847	0	338,847
Oregon State U.	62	337,985	0	337,985
U. Notre Dame	63	331,943	0	331,943
Mississippi State U.	64	319,684	0	319,684
U. Iowa	65	308,196	353,938	662,134
U. Oklahoma, Norman and Health Science Center	66	305,804	131,160	436,964
U. California, Santa Barbara	67	305,483	0	305,483
U. Kentucky	68	304,577	199,428	504,005
Florida International U.	69	295,467	10,967	306,434
U. Kansas	70	289,507	176,715	466,222
U. South Florida	71	289,268	172,122	461,390
Northeastern U.	72	288,558	0	288,558
Indiana U., Bloomington	73	288,037	565,019	853,056
Woods Hole Oceanographic Institution	74	287,825	0	287,825
George Washington U.	75	287,568	72,692	360,260
Clemson U.	76	286,503	0	286,503
Duke U.	77	285,657	1,222,339	1,507,996
SUNY, Polytechnic Institute	78	284,677	0	284,677
U. Hawaii, Manoa	79	283,607	29,536	313,143
SUNY, U. Buffalo	80	281,049	190,520	471,569
U. Illinois, Chicago	81	276,373	216,563	492,936
U. Connecticut	82	269,571	120,594	390,165
U. Massachusetts, Amherst	83	268,657	0	268,657
Rice U.	84	255,115	0	255,115
U. California, San Francisco	85	253,218	1,793,321	2,046,539
George Mason U.	86	252,239	0	252,239
Virginia Commonwealth U.	87	242,880	237,050	479,930
Texas Tech U.	88	240,107	0	240,107
U. Central Florida	89	239,794	7,465	247,259
U. South Carolina, Columbia	90	239,728	22,479	262,207
Georgia State U.	91	237,493	0	237,493
U. Chicago	92	232,681	395,621	628,302
U. Houston	93	230,864	1,078	231,942
Montana State U., Bozeman	94	229,682	0	229,682
U. Dayton	95	228,723	0	228,723
Oklahoma State U., Stillwater	96	226,498	0	226,498

TABLE 36

Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2023

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
U. Louisiana, Lafayette	97	225,924	0	225,924
U. New Hampshire	98	223,683	0	223,683
Brown U.	99	222,999	130,592	353,591
U. Arkansas, Fayetteville	100	221,525	0	221,525
Yale U.	101	221,292	1,105,515	1,326,807
Oregon Health and Science U.	102	220,574	297,168	517,742
U. Alaska, Fairbanks	103	218,041	0	218,041
Kansas State U.	104	217,992	0	217,992
Dartmouth C. and Dartmouth Hitchcock Medical Center	105	208,809	158,047	366,856
U. New Mexico	106	205,514	110,512	316,026
U. California, Santa Cruz	107	203,883	0	203,883
U. Alabama, Birmingham	108	202,353	578,126	780,479
U. Rochester	109	196,931	284,296	481,227
U. California, Riverside	110	195,216	19,586	214,802
North Dakota State U.	111	190,330	0	190,330
U. Maine	112	188,690	0	188,690
SUNY, Stony Brook U.	113	186,938	137,593	324,531
U. Alabama, Tuscaloosa	114	184,880	0	184,880
Syracuse U.	115	183,850	0	183,850
Temple U.	116	177,376	114,653	292,029
West Virginia U.	117	175,956	70,217	246,173
Tufts U.	118	173,575	73,701	247,276
U. Colorado Anschutz Medical Campus	119	167,976	518,050	686,026
U. Oregon	120	164,500	0	164,500
U. Alabama, Huntsville	121	163,428	0	163,428
New Jersey Institute of Technology	122	161,078	0	161,078
U. Texas Health Science Center, Houston	123	158,823	215,282	374,105
U. Texas, San Antonio	124	158,453	0	158,453
San Diego State U.	125	158,013	0	158,013
Tulane U.	126	155,212	103,227	258,439
U. Nevada, Reno	127	152,774	35,731	188,505
U. Wyoming	128	150,124	0	150,124
U. North Dakota	129	148,271	33,924	182,195
U. Texas, Arlington	130	147,265	0	147,265
U. Texas, Dallas	131	146,779	0	146,779
Georgetown U.	132	146,396	190,610	337,006
U. Texas, El Paso	133	145,724	0	145,724
U. Maryland, Baltimore County	134	144,262	0	144,262
U. Rhode Island	135	144,013	0	144,013
SUNY, Binghamton U.	136	141,685	0	141,685
SUNY, U. Albany	137	141,671	0	141,671
Texas State U.	138	141,291	0	141,291
Washington U., Saint Louis	139	140,360	1,028,501	1,168,861
Brigham Young U., Provo	140	137,748	0	137,748
U. Idaho	141	135,901	0	135,901
U. Montana, Missoula	142	133,958	0	133,958
U. Miami	143	127,409	382,542	509,951
Drexel U.	144	127,234	42,349	169,583
New Mexico State U.	145	126,337	0	126,337

TABLE 36

Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2023

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
U. Cincinnati	146	124,373	574,269	698,642
Rensselaer Polytechnic Institute	147	121,706	0	121,706
U. Vermont	148	118,955	114,851	233,806
New Mexico Institute of Mining and Technology	149	118,735	0	118,735
Cold Spring Harbor Laboratory	150	117,483	0	117,483
U. Massachusetts, Lowell	151	117,336	0	117,336
Case Western Reserve U.	152	113,964	439,776	553,740
U. North Texas, Denton	153	106,665	0	106,665
Colorado School of Mines	154	104,297	0	104,297
Uniformed Services U. of the Health Sciences	155	104,074	392,367	496,441
Michigan Technological U.	156	103,819	0	103,819
Brandeis U.	157	103,653	0	103,653
U. Texas Health Science Center, San Antonio	158	102,921	178,157	281,078
Touro U., New York	159	100,207	340	100,547
U. Memphis	160	100,042	0	100,042
U. Mississippi	161	99,017	73,159	172,176
U. Nevada, Las Vegas	162	92,870	5,881	98,751
U. North Carolina, Charlotte	163	92,027	0	92,027
U. North Texas, Health Science Center	164	91,355	3,297	94,652
Cleveland State U.	165	87,941	0	87,941
Indiana U.-Purdue U., Indianapolis	166	87,648	0	87,648
U. Louisville	167	85,707	134,861	220,568
San Jose State U.	168	83,406	0	83,406
Wayne State U.	169	82,341	168,570	250,911
Baylor U.	170	82,074	0	82,074
William & Mary	171	81,815	0	81,815
Boston C.	172	81,425	0	81,425
Van Andel Research Institute	173	80,748	0	80,748
Northern Arizona U.	174	77,533	0	77,533
Naval Postgraduate School	175	77,364	0	77,364
American U.	176	76,041	0	76,041
U. Southern Mississippi	177	75,034	0	75,034
Rochester Institute of Technology	178	72,405	0	72,405
South Dakota State U.	179	71,340	0	71,340
Old Dominion U.	180	71,334	0	71,334
U. Massachusetts, Boston	181	70,978	0	70,978
Florida Atlantic U.	182	66,520	11,073	77,593
Worcester Polytechnic Institute	183	66,353	0	66,353
Florida A&M U.	184	65,159	0	65,159
U. California, Office of the President	185	63,629	0	63,629
North Carolina A&T State U.	186	62,307	0	62,307
U. California, Merced	187	62,279	0	62,279
Missouri U. of Science and Technology	188	61,496	0	61,496
Howard U.	189	61,466	23,290	84,756
U. Wisconsin-Milwaukee	190	60,712	0	60,712
Stevens Institute of Technology	191	60,685	0	60,685
Medical U. South Carolina	192	60,419	273,407	333,826
CUNY, City C.	193	60,017	3,142	63,159
Southern Methodist U.	194	59,749	0	59,749

TABLE 36

Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2023

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
Kent State U.	195	58,984	0	58,984
Air Force Institute of Technology	196	56,848	0	56,848
Lehigh U.	197	56,301	0	56,301
CUNY, Graduate Center	198	54,089	0	54,089
U. Denver	199	53,484	0	53,484
U. Maryland Center for Environmental Science	200	53,233	0	53,233
Boise State U.	201	52,989	0	52,989
U. Texas Rio Grande Valley	202	50,809	31,635	82,444
East Carolina U.	203	48,059	19,023	67,082
Marquette U.	204	47,819	0	47,819
Catholic U. of America	205	47,022	0	47,022
Ohio U.	206	46,757	13,120	59,877
Portland State U.	207	46,324	0	46,324
U.S. Air Force Academy	208	44,880	0	44,880
U. Missouri, Kansas City	209	44,813	9,752	54,565
U. North Carolina, Greensboro	210	44,521	0	44,521
Morgan State U.	211	43,868	0	43,868
Saint Louis U.	212	43,624	42,297	85,921
U. Massachusetts, Dartmouth	213	42,018	0	42,018
Chapman U.	214	41,791	0	41,791
U. Puerto Rico, Medical Sciences Campus	215	41,112	20,123	61,235
U. West Florida	216	40,454	0	40,454
Rowan U.	217	40,410	7,400	47,810
Georgia Southern U.	218	40,026	0	40,026
Western Michigan U. and Homer Stryker M.D. School of Medicine	219	39,865	5,292	45,157
Mercer U.	220	39,606	5,641	45,247
U. Toledo	221	39,353	28,303	67,656
Texas A&M U.-Corpus Christi	222	39,305	0	39,305
Montclair State U.	223	38,209	0	38,209
Southern Illinois U., Carbondale	224	38,043	20,248	58,291
CUNY, Hunter C.	225	37,172	0	37,172
Oakland U.	226	36,267	996	37,263
California Polytechnic State U., San Luis Obispo	227	35,830	0	35,830
San Francisco State U.	228	34,466	0	34,466
East Tennessee State U.	229	34,323	8,012	42,335
Teachers C., Columbia U.	230	34,183	0	34,183
Delaware State U.	231	33,499	0	33,499
Illinois Institute of Technology	232	33,021	0	33,021
Illinois State U.	233	32,961	0	32,961
SUNY, C. of Environmental Science and Forestry	234	32,682	0	32,682
Kennesaw State U.	235	32,497	0	32,497
Nova Southeastern U.	236	32,111	18,062	50,173
U. Texas Health Science Center, Tyler	237	32,077	0	32,077
Louisiana Tech U.	238	31,676	0	31,676
Villanova U.	239	31,513	0	31,513
U. Nebraska, Omaha	240	30,841	0	30,841
Desert Research Institute	241	30,716	0	30,716
U. South Alabama	242	30,211	22,971	53,182
Rutgers, State U. New Jersey, Newark	243	29,787	0	29,787

TABLE 36

Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2023

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
U. Puerto Rico, Rio Piedras	244	29,202	0	29,202
Northern Illinois U.	245	29,134	0	29,134
U. Texas Southwestern Medical Center	246	28,738	771,653	800,391
Miami U.	247	28,430	0	28,430
Tennessee State U.	248	28,246	0	28,246
California State U., Sacramento	249	28,027	0	28,027
Embry-Riddle Aeronautical U.	250	27,451	0	27,451
CUNY, Graduate School of Public Health and Health Policy	251	26,651	0	26,651
Texas A&M U.-Kingsville	252	26,401	0	26,401
California State U., Fullerton	253	25,811	0	25,811
Tuskegee U.	254	25,625	0	25,625
U. Minnesota, Duluth	255	25,534	0	25,534
CUNY, Queens C.	256	25,492	0	25,492
Clarkson U.	257	25,399	0	25,399
Florida Gulf Coast U.	258	24,899	0	24,899
U. Tulsa	259	24,845	0	24,845
Wake Forest U.	260	24,163	284,809	308,972
Texas Christian U.	261	23,992	58	24,050
Fordham U.	262	23,832	0	23,832
Tarleton State U.	263	23,345	0	23,345
U. North Florida	264	23,269	0	23,269
California State U., Northridge	265	23,093	0	23,093
CUNY, John Jay C. of Criminal Justice	266	22,967	0	22,967
New School	267	22,680	0	22,680
Augusta U.	268	22,654	116,467	139,121
U. Colorado Denver	269	22,530	0	22,530
U. Guam	270	22,388	0	22,388
Southern Illinois U., Edwardsville	271	21,927	0	21,927
U. North Carolina, Wilmington	272	21,879	0	21,879
Prairie View A&M U.	273	21,791	0	21,791
U. Akron	274	21,525	0	21,525
California State U., Long Beach	275	21,458	0	21,458
California State U., East Bay	276	21,312	0	21,312
James Madison U.	277	21,265	0	21,265
Tennessee Technological U.	278	20,797	0	20,797
Bowling Green State U.	279	20,726	0	20,726
U.S. Military Academy	280	20,493	0	20,493
U. New Orleans	281	20,396	0	20,396
South Dakota School of Mines and Technology	282	20,337	0	20,337
U. of the Virgin Islands	283	20,259	0	20,259
U. Alaska, Anchorage	284	19,850	0	19,850
U. South Dakota	285	19,554	10,301	29,855
Jackson State U.	286	19,457	0	19,457
Alcorn State U.	287	19,141	0	19,141
California State Polytechnic U., Humboldt	288	18,800	0	18,800
North Carolina Central U.	289	18,477	0	18,477
Montana Technological U.	290	18,375	0	18,375
Marshall U.	291	17,994	15,699	33,693
Idaho State U.	292	17,548	0	17,548

TABLE 36

Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2023

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
Texas Tech U., Health Sciences Center	293	17,522	31,116	48,638
CUNY, Advanced Science Research Center	294	17,309	0	17,309
Towson U.	295	17,198	0	17,198
Florida Institute of Technology	296	16,859	0	16,859
Thomas Jefferson U.	297	16,693	241,652	258,345
Long Island U.	298	16,612	0	16,612
Texas Southern U.	299	16,287	0	16,287
Wright State U.	300	15,900	10,289	26,189
Western Washington U.	301	15,874	0	15,874
Alabama A&M U.	302	15,588	0	15,588
Fort Valley State U.	303	15,536	0	15,536
Xavier U. Louisiana	304	15,519	0	15,519
Duquesne U.	305	14,989	0	14,989
U. Tennessee, Chattanooga	306	14,671	0	14,671
Missouri State U.	307	14,654	0	14,654
Salisbury U.	308	14,557	0	14,557
U. Hawaii, system office	309	14,172	0	14,172
Loyola Marymount U.	310	14,086	0	14,086
U. Puerto Rico, Mayaguez	311	13,989	0	13,989
Virginia State U.	312	13,504	0	13,504
DePaul U.	313	13,267	0	13,267
California State U., San Bernardino	314	13,152	0	13,152
Loyola U., Chicago	315	12,919	39,526	52,445
U. San Diego	316	12,902	0	12,902
U. Missouri, Saint Louis	317	12,808	0	12,808
Central Michigan U.	318	11,766	13,597	25,363
Ball State U.	319	11,650	0	11,650
Kentucky State U.	320	11,591	0	11,591
Clark U.	321	11,539	0	11,539
U. Texas Medical Branch	322	11,447	221,745	233,192
California State U., San Marcos	323	11,443	0	11,443
California State U., Fresno	324	11,411	0	11,411
SUNY, Upstate Medical U.	325	11,303	41,916	53,219
Central State U.	326	11,123	0	11,123
Sam Houston State U.	327	11,044	716	11,760
U.S. Naval Academy	328	10,920	0	10,920
U. Michigan, Dearborn	329	10,839	0	10,839
Wesleyan U.	330	10,828	0	10,828
U. Maryland, Eastern Shore	331	10,730	0	10,730
California State Polytechnic U., Pomona	332	10,722	0	10,722
Pacific U.	333	10,719	0	10,719
California State U., Monterey Bay	334	10,678	0	10,678
Pepperdine U.	335	10,632	0	10,632
Langston U.	336	10,505	0	10,505
Clark Atlanta U.	337	10,320	0	10,320
West Texas A&M U.	338	10,302	0	10,302
California State U., Los Angeles	339	10,186	0	10,186
Kean U.	340	10,062	0	10,062
Gallaudet U.	341	9,894	0	9,894

TABLE 36

Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2023

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
Hampton U.	342	9,769	0	9,769
U. San Francisco	343	9,633	0	9,633
Middle Tennessee State U.	344	9,577	0	9,577
Rutgers, State U. New Jersey, Camden	345	9,527	0	9,527
Western Kentucky U.	346	9,298	0	9,298
Lamar U.	347	9,168	0	9,168
U. Northern Colorado	348	9,064	0	9,064
Bryn Mawr C.	349	9,039	0	9,039
U. Arkansas, Little Rock	350	8,685	0	8,685
Saint Joseph's U.	351	8,675	0	8,675
Winston-Salem State U.	352	8,668	0	8,668
Yeshiva U.	353	8,661	0	8,661
CUNY, Brooklyn C.	354	8,535	0	8,535
Appalachian State U.	355	8,479	0	8,479
Eastern Michigan U.	356	8,363	0	8,363
Lincoln U., Jefferson City	357	8,196	0	8,196
Abilene Christian U.	358	8,182	0	8,182
Amherst C.	359	8,152	0	8,152
U. Hawaii, Hilo	360	8,112	0	8,112
Southern Connecticut State U.	361	8,007	0	8,007
U. of the District of Columbia	362	7,945	0	7,945
Creighton U.	363	7,926 i	20,517 i	28,443
U. Central Oklahoma	364	7,870 i	0 i	7,870 i
South Carolina State U.	365	7,814	0	7,814
U. Arkansas, Pine Bluff	366	7,766	0	7,766
Southern U. and A&M C., Agricultural Research and Extension Center	367	7,764	0	7,764
Pennsylvania State U., Behrend	368	7,614	0	7,614
Grinnell C.	369	7,597	0	7,597
Purdue U., Northwest	370	7,504	0	7,504
Hofstra U.	371	7,495	667	8,162
MGH Institute of Health Professions	372	7,426	0	7,426
Western U. of Health Sciences	373	7,399	1,530	8,929
Arkansas State U., Jonesboro	374	7,323	0	7,323
Claremont Graduate U.	375	7,262	0	7,262
C. Charleston	376	7,231	0	7,231
Seton Hall U.	377	7,068	0	7,068
Texas A&M U.-Commerce	378	7,029	0	7,029
U. Colorado Colorado Springs	379	7,012	0	7,012
Claremont McKenna C.	380	6,925	0	6,925
Texas Woman's U.	381	6,922	0	6,922
Hope C.	382	6,910	0	6,910
U. North Carolina, Asheville	383	6,761	0	6,761
Reed C.	384	6,750 i	0 i	6,750 i
U. Baltimore	385	6,615	0	6,615
Williams C.	386	6,448 i	0 i	6,448 i
California State U., Bakersfield	387	6,409	0	6,409
Barnard C.	388	6,320	0	6,320
Wellesley C.	388	6,320	0	6,320
Louisiana State U., Health Sciences Center, New Orleans	390	6,245	62,462	68,707

TABLE 36

Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2023

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
U. Washington, Tacoma	391	6,243	0	6,243
Grand Valley State U.	392	6,231	0	6,231
Norfolk State U.	393	6,194	0	6,194
Northwest Indian C.	394	6,184	0	6,184
West Chester U. Pennsylvania	395	6,132	0	6,132
Midwestern U.	396	6,101	6,624	12,725
Azusa Pacific U.	397	6,097	0	6,097
Roseman U. of Health Sciences	398	6,065	0	6,065
Indiana U. Pennsylvania	399	6,052	0	6,052
U.S. Army War C.	400	6,035	0	6,035
California State U., Chico	401	5,984	0	5,984
Smith C.	402	5,954	0	5,954
High Tech High Graduate School of Ed.	403	5,939	0	5,939
U. Southern Maine	404	5,930	0	5,930
CUNY, Lehman C.	405	5,918	0	5,918
Bucknell U.	406	5,887	0	5,887
Naval War C.	407	5,819	0	5,819
Morehouse C.	408	5,750	0	5,750
U. Washington, Bothell	409	5,738	0	5,738
Santa Clara U.	410	5,679	0	5,679
Swarthmore C.	411	5,620	0	5,620
Texas A&M International U.	412	5,602	0	5,602
Oregon Institute of Technology	413	5,585	0	5,585
California State U., Dominguez Hills	414	5,558	0	5,558
Providence C.	415	5,533	0	5,533
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	416	5,324	0	5,324
Trinity U.	417	5,296	0	5,296
Dakota State U.	418	5,253	0	5,253
West Virginia State U.	419	5,226	0	5,226
Meharry Medical C.	420	5,221	16,781	22,002
Southern U. and A&M C., Baton Rouge	421	5,201	0	5,201
Suffolk U.	422	5,164	0	5,164
Pennsylvania State U., Harrisburg	423	5,159	0	5,159
U. Detroit Mercy	424	5,142	0	5,142
Colgate U.	425	4,930	0	4,930
Sul Ross State U.	426	4,878	0	4,878
Spelman C.	427	4,877	0	4,877
Fisk U.	428	4,867	0	4,867
U. Wisconsin-Superior	429	4,825	0	4,825
U. New England	430	4,772	1,984	6,756
Sacred Heart U.	431	4,733	0	4,733
CUNY, C. Staten Island	432	4,730	0	4,730
Coastal Carolina U.	433	4,729	0	4,729
Occidental C.	434	4,718	0	4,718
Toyota Technological Institute, Chicago	435	4,636	0	4,636
Lawrence Technological U.	436	4,632	0	4,632
Sonoma State U.	437	4,625	0	4,625
Philadelphia C. of Osteopathic Medicine	438	4,611	2,848	7,459

TABLE 36

Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2023

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
U. Wisconsin-Stevens Point	439	4,589	0	4,589
U. Northern Iowa	440	4,564	0	4,564
Rush U.	441	4,560	127,834	132,394
Colby C.	442	4,454	0	4,454
SUNY, C. of Optometry	443	4,423	0	4,423
U. of Health Sciences and Pharmacy in St. Louis	444	4,343	0	4,343
CUNY, system office	445	4,296	0	4,296
U. Oklahoma, Tulsa	446	4,188	1,638	5,826
Carleton C.	447	4,185	0	4,185
Alfred U.	448	4,154	0	4,154
Pomona C.	449	4,149	0	4,149
Franklin and Marshall C.	450	4,111	0	4,111
Trinity C., Hartford	451	4,099	0	4,099
Haverford C.	452	4,088	0	4,088
CUNY, Baruch C.	453	4,084	0	4,084
Keck Graduate Institute	454	4,059	0	4,059
Loma Linda U.	454	4,059	18,203	22,262
Pace U.	456	4,056	0	4,056
California State U., Channel Islands	457	3,992	0	3,992
St. John's U., New York	458	3,955	0	3,955
Austin Peay State U.	459	3,950	0	3,950
Seattle U.	460	3,949	0	3,949
Western Illinois U.	461	3,824	0	3,824
Northern Kentucky U.	462	3,790	0	3,790
Troy U.	463	3,785	0	3,785
Citadel Military C. South Carolina	464	3,757	0	3,757
Chicago State U.	465	3,756	0	3,756
Central Washington U.	466	3,683	0	3,683
Harvey Mudd C.	467	3,682	0	3,682
U. Nebraska, Kearney	468	3,681	0	3,681
Stephen F. Austin State U.	469	3,661	0	3,661
U. New Haven	470	3,602	0	3,602
Fayetteville State U.	471	3,569	0	3,569
Des Moines U.	472	3,531	401	3,932
Christopher Newport U.	473	3,507	0	3,507
U. Texas, Tyler	474	3,487	0	3,487
New Mexico Highlands U.	475	3,468	0	3,468
Roger Williams U.	476	3,465	0	3,465
Fort Lewis C.	477	3,372	0	3,372
Bowdoin C.	478	3,339	0	3,339
Milwaukee School of Engineering	479	3,317	0	3,317
Hamilton C.	480	3,285	0	3,285
Youngstown State U.	481	3,244	0	3,244
Alabama State U.	482	3,229	0	3,229
Murray State U.	483	3,193	0	3,193
Winthrop U.	484	3,189	0	3,189
Saginaw Valley State U.	485	3,143	0	3,143
U. Central Arkansas	486	3,092	0	3,092
U. Richmond	487	3,058	0	3,058

TABLE 36

Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2023

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
Minnesota State U., Mankato	488	3,055	0	3,055
Dine C.	489	3,054	0	3,054
Pittsburg State U.	490	2,979	0	2,979
Middlebury C.	491	2,975	0	2,975
East Stroudsburg U. Pennsylvania	492	2,928	0	2,928
Davidson C.	493	2,926	0	2,926
U. Wisconsin-La Crosse	494	2,921	0	2,921
Hawaii Pacific U.	495	2,913	0	2,913
St. Cloud State U.	496	2,901	0	2,901
Southeastern Louisiana U.	497	2,858	0	2,858
SUNY, Downstate Health Sciences U.	498	2,848	32,752	35,600
CUNY, New York City C. of Technology	499	2,819	0	2,819
Purdue U., Fort Wayne	500	2,804	0	2,804
U. Wisconsin-Green Bay	501	2,801	0	2,801
U. Wisconsin-River Falls	502	2,772	0	2,772
U. Texas of the Permian Basin	503	2,769	0	2,769
Texas Tech U., Health Sciences Center, El Paso	504	2,720	10,469	13,189
Lewis and Clark C.	505	2,686	0	2,686
Tougaloo C.	506	2,663 i	0 i	2,663 i
Morehead State U.	507	2,658	0	2,658
C. New Jersey	508	2,641	0	2,641
SUNY, Buffalo State U.	509	2,636	0	2,636
Bowie State U.	510	2,612	0	2,612
Marymount U.	511	2,601	0	2,601
Vassar C.	512	2,596	0	2,596
Albany C. of Pharmacy and Health Sciences	513	2,594 i	0 i	2,594 i
SUNY, Cobleskill	514	2,566	0	2,566
Calvin U.	515	2,555	0	2,555
U. Tennessee, Health Science Center	516	2,549	127,923	130,472
Eastern Washington U.	517	2,546	0	2,546
Lake Superior State U.	518	2,545	0	2,545
Elon U.	519	2,544	0	2,544
Western Carolina U.	520	2,543	0	2,543
Charles R. Drew U. of Medicine and Science	521	2,542	17,009	19,551
Mount Holyoke C.	522	2,533	0	2,533
Monmouth U.	523	2,517	0	2,517
U. Illinois, Springfield	524	2,508	0	2,508
Colorado C.	525	2,498	0	2,498
La Sierra U.	526	2,496 i	0 i	2,496 i
National Defense U.	527	2,494	0	2,494
New England C. of Optometry	528	2,491	0	2,491
Franklin W. Olin C. of Engineering	529	2,450	0	2,450
Erikson Institute	530	2,414	0	2,414
Wheaton C., Wheaton	531	2,403	0	2,403
Stockton U.	532	2,386	0	2,386
Skidmore C.	533	2,384	0	2,384
Hobart and William Smith Colleges	534	2,373	0	2,373
Virginia Military Institute	535	2,350	0	2,350
New York Institute of Technology	536	2,329	3,461	5,790

TABLE 36

Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2023

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
Benedict C.	537	2,307	0	2,307
California State U., Stanislaus	538	2,305	0	2,305
Dillard U.	539	2,296	0	2,296
U. of St. Thomas (MN)	540	2,280	0	2,280
Furman U.	541	2,267	0	2,267
Northeastern Illinois U.	542	2,262	0	2,262
Black Hills State U.	543	2,260	0	2,260
Florida Polytechnic U.	543	2,260	0	2,260
U. South Carolina, Aiken	545	2,250	0	2,250
C. Wooster	546	2,209	0	2,209
U. Louisiana, Monroe	547	2,203	0	2,203
U. Wisconsin-Eau Claire	548	2,191	0	2,191
U. Ana G. Mendez, Gurabo	549	2,132	0	2,132
U. Houston-Clear Lake	550	2,127	0	2,127
Bates C.	551	2,118	0	2,118
U. Wisconsin-Oshkosh	552	2,087	0	2,087
U. Puerto Rico, Humacao	553	2,074	0	2,074
Northwestern State U. Louisiana	554	2,057	0	2,057
Utah Valley U.	555	2,015	0	2,015
Lafayette C.	556	1,991	0	1,991
U. of the Pacific	557	1,972	0	1,972
U. Houston-Downtown	558	1,967	0	1,967
SUNY, Geneseo	559	1,958	0	1,958
Babson C.	560	1,957	0	1,957
Lipscomb U.	561	1,946	0	1,946
Macalester C.	562	1,935	0	1,935
Albany State U.	563	1,932	0	1,932
Ferris State U.	564	1,915	0	1,915
Union C., Schenectady	565	1,881	0	1,881
SUNY, C. Brockport	566	1,877	0	1,877
Northern Michigan U.	567	1,871	0	1,871
Northeast Ohio Medical U.	568	1,853	11,263	13,116
Alaska Pacific U.	569	1,823	0	1,823
U. Alaska, Southeast	570	1,822	0	1,822
Marshall B. Ketchum U.	571	1,777	0	1,777
Nevada State C.	572	1,744	0	1,744
Palmer C. of Chiropractic, Davenport	573	1,725	0	1,725
Drake U.	574	1,724	0	1,724
St. Olaf C.	574	1,724	0	1,724
SUNY, C. Plattsburgh	576	1,722	0	1,722
CUNY, York C.	577	1,711	0	1,711
Savannah State U.	578	1,706	0	1,706
U. North Georgia	579	1,643	0	1,643
Elizabeth City State U.	580	1,641	0	1,641
Norwich U.	581	1,637	0	1,637
Colorado State U., Pueblo	582	1,624	0	1,624
U. Puget Sound	583	1,613	0	1,613
Johnson C. Smith U.	584	1,602	0	1,602
SUNY, Oswego	585	1,595	0	1,595

TABLE 36

Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2023

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
Indiana U., South Bend	586	1,593	0	1,593
Texas A&M U.-San Antonio	586	1,593	0	1,593
U. of the Incarnate Word	588	1,590	655	2,245
Bentley U.	589	1,589	0	1,589
Whitman C.	590	1,568	0	1,568
Merrimack C.	591	1,560	0	1,560
Pratt Institute	592	1,558	0	1,558
Willamette U.	593	1,542	0	1,542
U. Hartford	594	1,533	0	1,533
U. Puerto Rico, Cayey	595	1,519	0	1,519
Rosalind Franklin U. of Medicine and Science	596	1,513	10,116	11,629
Hartford International U. for Religion and Peace	597	1,485	0	1,485
Fairfield U.	598	1,484	0	1,484
U. Wisconsin-Platteville	599	1,481	0	1,481
Saint John's U.	600	1,479	0	1,479
U. South Carolina, Beaufort	601	1,466	0	1,466
Biola U.	602	1,461	0	1,461
Eastern Connecticut State U.	603	1,449	0	1,449
Eastern Kentucky U.	604	1,446	0	1,446
Northland C.	605	1,442	0	1,442
Connecticut C.	606	1,440	0	1,440
Liberty U.	607	1,432	468	1,900
Robert Morris U.	608	1,419	0	1,419
Clafin U.	609	1,418	0	1,418
Oberlin C.	610	1,408	0	1,408
C. of Saint Benedict	611	1,400	0	1,400
Butler U.	612	1,396	0	1,396
United Tribes Technical C.	613	1,387	0	1,387
U. Hawaii, Maui C.	614	1,376	0	1,376
Kenyon C.	615	1,371	0	1,371
National U. of Natural Medicine	616	1,336	0	1,336
St. Edward's U.	617	1,334	0	1,334
Indiana State U.	618	1,327	0	1,327
Arcadia U.	619	1,321	0	1,321
Radford U.	620	1,315	0	1,315
Andrews U.	621	1,255	0	1,255
Heidelberg U.	622	1,254	0	1,254
Manhattan C.	623	1,250	0	1,250
U. Virginia's C. Wise	624	1,223	0	1,223
Pennsylvania State U., Altoona	625	1,215	0	1,215
U. Scranton	626	1,169	0	1,169
Ursinus C.	627	1,150	0	1,150
U. of Mary Washington	628	1,115	0	1,115
Western New England U.	628	1,115	0	1,115
Gettysburg C.	630	1,099	0	1,099
New C. Florida	631	1,080	0	1,080
Marian U., Indianapolis	632	1,061	1,948	3,009
Southern U., New Orleans	633	1,004	0	1,004
Gustavus Adolphus C.	634	969	0	969

TABLE 36

Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2023

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
Central Connecticut State U.	635	934	0	934
Canisius U.	636	905	0	905
Ithaca C.	637	861	0	861
Rhode Island C.	638	839	0	839
Framingham State U.	639	735	0	735
Touro U., California	640	710	2,167	2,877
U.S. Coast Guard Academy	641	689	0	689
U. Puerto Rico, Ponce	642	659	0	659
Lincoln U.	643	628	0	628
Morehouse School of Medicine	644	584	56,541	57,125
Bryant U.	645	558	0	558
William Paterson U.	646	533	0	533
Grambling State U.	647	449	0	449
Albion C.	648	276	0	276
St. Mary's C. Maryland	649	205	0	205
New York Medical C.	650	132	16,981	17,113
Lincoln Memorial U.	651	73	1,568	1,641
Albany Medical C.	-	0	23,259	23,259
Albert Einstein C. of Medicine	-	0	336,238	336,238
Baylor C. of Medicine	-	0	847,305	847,305
Eastern Virginia Medical School	-	0	23,991	23,991
Edward Via C. of Osteopathic Medicine	-	0	7,597	7,597
Icahn School of Medicine at Mount Sinai	-	0	972,476	972,476
Louisiana State U., Health Sciences Center, Shreveport	-	0	35,624	35,624
Medical C. Wisconsin	-	0	346,691	346,691
Oklahoma State U., Center for Health Sciences	-	0	12,500	12,500
U. Arkansas for Medical Sciences	-	0	209,409	209,409
U. Central del Caribe	-	0	4,878	4,878
U. Massachusetts, Medical School	-	0	326,731	326,731
West Virginia School of Osteopathic Medicine	-	0 i	1,459 i	1,459 i

i = imputed.

^a Johns Hopkins University includes the Applied Physics Laboratory, with \$2,333,049 thousand in total R&D expenditures in FY 2023.^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.^c The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.**Note(s):**Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 37

Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
All institutions	-	71,001,044	37,015,780	4,979,687	19,437,810	3,735,372	3,733,311	2,099,084
U. California, San Francisco	1	2,046,539	858,066	45,056	505,006	143,206	313,964	181,241
U. Michigan, Ann Arbor	2	1,925,875	1,041,430	1,934	679,205	113,903	80,894	8,509
U. Washington, Seattle	3	1,734,091	1,188,836	33,833	125,390	71,487	260,986	53,559
U. Wisconsin-Madison	4	1,731,949	816,814	125,524	542,782	46,133	153,068	47,628
U. California, Los Angeles	5	1,721,665	878,571	105,632	354,575	109,531	219,227	54,129
U. California, San Diego	6	1,705,410	1,083,790	70,790	250,973	96,416	109,398	94,043
U. North Carolina, Chapel Hill	7	1,549,617	907,710	61,576	407,817	58,179	92,573	21,762
Ohio State U.	8	1,449,188	694,647	64,139	424,124	155,194	63,964	47,120
Georgia Institute of Technology	9	1,405,080	1,083,903	128,291	61,494	94,476	31,073	5,843
U. Pittsburgh, Pittsburgh	10	1,398,078	916,735	11,421	315,634	43,372	64,516	46,400
U. Maryland ^a	11	1,385,302	825,546	57,007	401,833	37,011	54,377	9,528
U. Minnesota, Twin Cities	12	1,320,183	702,483	76,395	386,198	55,081	40,764	59,262
Texas A&M U., College Station and Health Science Center	13	1,277,814	546,481	251,300	353,916	37,390	53,710	35,017
U. Texas M. D. Anderson Cancer Center	14	1,255,190	259,285	300,907	256,545	248,261	38,163	152,029
U. Florida	15	1,250,201	529,391	193,910	389,065	42,055	58,010	37,770
Pennsylvania State U., University Park and Hershey Medical Center	16	1,206,793	781,303	49,379	265,205	29,300	29,539	52,067
U. California, Berkeley	17	1,076,754	496,298	47,005	242,494	75,493	188,887	26,577
U. Texas, Austin	18	1,035,838	621,223	37,601	235,987	79,753	52,764	8,510
U. California, Davis	19	962,399	494,847	78,096	244,082	55,403	48,643	41,328
U. Arizona	20	955,424	434,700	37,173	304,671	25,328	31,154	122,398
Arizona State U.	21	903,779	340,880	102,208	310,531	24,693	99,781	25,686
Indiana U., Bloomington	22	853,056	432,223	5,804	303,085	36,938	69,773	5,233
Purdue U., West Lafayette	23	844,570	385,738	42,119	267,313	78,298	31,453	39,649
Michigan State U.	24	844,076	435,564	46,353	300,588	18,603	22,693	20,275
Rutgers, State U. New Jersey, New Brunswick	25	831,719	400,930	117,514	207,008	37,495	64,220	4,552
U. Illinois, Urbana-Champaign	26	821,023	460,491	24,473	234,686	44,275	35,768	21,330
U. Texas Southwestern Medical Center	27	800,391	336,126	95,710	191,493	46,325	66,076	64,661
U. Alabama, Birmingham	28	780,479	451,880	14,884	184,658	74,171	36,533	18,353
U. Utah	29	723,713	416,079	4,670	214,320	48,761	35,413	4,470
U. Virginia, Charlottesville	30	714,457	354,748	13,101	214,946	31,588	31,392	68,682
U. Cincinnati	31	698,642	391,943	7,782	185,586	49,685	44,304	19,342
U. Colorado Anschutz Medical Campus	32	686,026	474,523	28,973	52,000	59,129	51,546	19,855
U. Iowa	33	662,134	331,824	7,627	228,803	34,039	24,365	35,476
U. Colorado Boulder	34	651,924	538,715	5,264	42,462	15,045	18,275	32,163

TABLE 37

Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
North Carolina State U.	35	633,251	279,179	134,547	150,288	64,505	4,472	260
U. Nebraska, Lincoln and Medical Center ^b	36	617,372	280,120	76,042	177,595	32,720	27,961	22,934
U. California, Irvine	37	609,614	335,393	19,360	132,261	46,182	33,514	42,904
Virginia Polytechnic Institute and State U.	38	598,113	282,152	78,279	179,590	35,761	13,021	9,310
U. Georgia	39	570,956	221,804	61,887	257,757	12,988	11,982	4,538
Oregon Health and Science U.	40	517,742	374,043	1,348	48,537	53,139	40,419	256
U. Kentucky	41	504,005	265,543	34,829	151,066	11,737	12,511	28,319
Colorado State U., Fort Collins	42	498,073	354,401	22,951	75,358	13,597	21,049	10,717
Uniformed Services U. of the Health Sciences	43	496,441	403,671	0	88,281	0	4,489	0
U. Illinois, Chicago	44	492,936	274,424	9,293	158,846	9,469	30,905	9,999
Virginia Commonwealth U.	45	479,930	184,852	47,846	207,023	22,681	17,458	70
SUNY, U. Buffalo	46	471,569	257,857	32,647	124,197	20,309	29,292	7,267
U. Kansas	47	466,222	211,111	44,851	152,432	30,988	13,436	13,404
U. Missouri, Columbia	48	462,435	217,091	65,868	146,211	15,816	11,225	6,224
U. South Florida	49	461,390	242,224	25,735	160,703	13,502	16,015	3,211
U. Oklahoma, Norman and Health Science Center	50	436,964	219,964	22,816	169,611	12,753	10,096	1,724
U. Delaware	51	428,128	202,469	13,161	188,645	5,204	8,191	10,458
Iowa State U.	52	420,823	195,394	34,183	156,282	21,246	13,084	634
Florida State U.	53	414,463	195,323	36,977	166,809	5,614	3,466	6,274
Utah State U.	54	401,437	322,336	27,831	30,207	9,204	813	11,046
U. Connecticut	55	390,165	238,701	5,973	117,252	11,251	12,293	4,695
Louisiana State U., Baton Rouge	56	384,268	127,243	73,829	156,614	14,807	6,295	5,480
Washington State U.	57	378,744	207,086	61,333	84,199	12,077	12,411	1,638
U. Texas Health Science Center, Houston	58	374,105	197,759	48,815	66,008	17,466	34,341	9,716
Wichita State U.	59	366,848	142,371	19,008	33,911	171,010	504	44
Auburn U., Auburn	60	349,273	125,783	34,950	158,454	11,570	5,092	13,424
U. Tennessee, Knoxville	61	338,847	153,637	13,175	151,783	7,899	7,696	4,657
Oregon State U.	62	337,985	222,169	57,839	30,449	9,154	3,260	15,114
Medical U. South Carolina	63	333,826	168,957	7,944	110,106	26,042	8,152	12,625
U. Massachusetts, Medical School	64	326,731	223,490	2,975	50,479	21,942	20,295	7,550
SUNY, Stony Brook U.	65	324,531	192,448	15,436	92,936	10,779	10,329	2,603
Mississippi State U.	66	319,684	150,804	92,674	63,773	3,140	7,858	1,435
U. New Mexico	67	316,026	205,351	7,072	79,298	5,469	16,855	1,981
U. Hawaii, Manoa	68	313,143	192,205	17,555	78,084	3,390	20,472	1,437
Florida International U.	69	306,434	156,381	21,887	115,737	3,019	7,971	1,439

TABLE 37

Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. California, Santa Barbara	70	305,483	179,896	7,230	65,230	14,790	27,455	10,882
Temple U.	71	292,029	154,516	6,867	81,497	25,150	16,517	7,482
Clemson U.	72	286,503	129,955	29,268	100,954	21,139	5,110	77
SUNY, Polytechnic Institute	73	284,677	34,393	31,886	25,429	188,351	181	4,437
U. Texas Health Science Center, San Antonio	74	281,078	143,730	30,582	70,676	10,393	25,514	183
U. Massachusetts, Amherst	75	268,657	138,849	11,465	90,429	9,220	12,373	6,321
U. South Carolina, Columbia	76	262,207	124,330	13,916	110,716	3,629	7,960	1,656
George Mason U.	77	252,239	125,437	4,311	66,769	8,346	40,831	6,545
Wayne State U.	78	250,911	128,521	6,525	81,136	5,339	25,618	3,772
U. Central Florida	79	247,259	124,256	5,893	99,427	9,659	3,642	4,382
West Virginia U.	80	246,173	114,708	11,687	92,314	4,977	2,874	19,613
Texas Tech U.	81	240,107	58,922	28,095	122,202	15,461	14,994	433
Georgia State U.	82	237,493	91,331	4,392	125,011	3,269	12,131	1,359
U. Vermont	83	233,806	128,645	632	85,988	4,622	7,305	6,614
U. Texas Medical Branch	84	233,192	150,272	7,479	58,807	6,138	10,496	0
U. Houston	85	231,942	99,450	28,641	84,315	8,565	6,492	4,479
Montana State U., Bozeman	86	229,682	142,965	18,379	59,067	956	4,403	3,912
Oklahoma State U., Stillwater	87	226,498	64,098	24,323	124,314	12,528	773	462
U. Louisiana, Lafayette	88	225,924	84,898	11,605	46,907	82,197	317	0
U. New Hampshire	89	223,683	152,377	1,031	52,786	8,471	7,984	1,034
U. Arkansas, Fayetteville	90	221,525	82,164	41,687	72,849	7,368	7,514	9,943
U. Louisville	91	220,568	100,890	8,924	73,255	9,580	6,261	21,658
U. Alaska, Fairbanks	92	218,041	156,702	7,674	42,733	5,505	2,814	2,613
Kansas State U.	93	217,992	82,610	43,122	73,427	7,647	9,860	1,326
U. California, Riverside	94	214,802	120,524	10,655	55,114	7,288	10,826	10,395
U. Arkansas for Medical Sciences	95	209,409	94,483	13,854	84,563	5,274	6,102	5,133
U. California, Santa Cruz	96	203,883	112,847	6,863	51,368	7,591	18,454	6,760
North Dakota State U.	97	190,330	53,339	51,819	76,422	1,292	1,215	6,243
U. Maine	98	188,690	92,870	17,694	67,941	5,043	3,260	1,882
U. Nevada, Reno	99	188,505	83,603	7,744	83,470	2,666	1,926	9,096
U. Alabama, Tuscaloosa	100	184,880	86,244	16,660	77,554	1,973	1,753	696
U. North Dakota	101	182,195	65,890	46,885	50,685	17,438	955	342
U. Mississippi	102	172,176	85,186	10,670	68,074	3,311	4,583	352
U. Oregon	103	164,500	100,265	1,674	19,590	443	6,634	35,894
U. Alabama, Huntsville	104	163,428	126,040	5,071	30,635	731	689	262

TABLE 37

Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
New Jersey Institute of Technology	105	161,078	70,080	19,994	64,230	1,385	1,616	3,773
U. Texas, San Antonio	106	158,453	58,171	21,583	67,694	5,971	1,988	3,046
San Diego State U.	107	158,013	68,045	6,745	77,130	469	3,666	1,958
U. Wyoming	108	150,124	68,467	7,464	67,771	2,848	1,934	1,640
U. Texas, Arlington	109	147,265	56,337	28,343	50,435	5,284	4,708	2,158
U. Texas, Dallas	110	146,779	66,127	13,085	38,169	12,518	16,383	497
U. Texas, El Paso	111	145,724	70,873	16,687	44,987	1,268	1,770	10,139
U. Maryland, Baltimore County	112	144,262	86,573	8,087	42,409	2,469	3,332	1,392
U. Rhode Island	113	144,013	102,056	6,615	29,165	2,094	3,441	642
SUNY, Binghamton U.	114	141,685	31,601	6,115	96,213	4,067	242	3,447
SUNY, U. Albany	115	141,671	62,935	1,019	69,881	927	4,707	2,202
Texas State U.	116	141,291	44,297	4,667	83,686	1,378	7,106	157
Augusta U.	117	139,121	64,410	214	62,558	4,396	6,836	707
U. Idaho	118	135,901	61,531	47,894	20,377	1,846	852	3,401
U. Montana, Missoula	119	133,958	75,490	1,511	53,689	220	2,498	550
U. Tennessee, Health Science Center	120	130,472	70,676	6,816	34,783	4,183	6,814	7,200
New Mexico State U.	121	126,337	71,764	24,741	18,791	1,873	3,039	6,129
New Mexico Institute of Mining and Technology	122	118,735	100,873	10,189	3,375	3,346	324	628
U. Massachusetts, Lowell	123	117,336	61,413	4,420	39,726	7,554	2,527	1,696
U. North Texas, Denton	124	106,665	30,017	5,695	63,577	1,907	2,170	3,299
Colorado School of Mines	125	104,297	68,795	1,804	14,035	11,399	3,388	4,876
Michigan Technological U.	126	103,819	52,102	1,236	40,859	6,632	968	2,022
U. Memphis	127	100,042	26,913	9,680	58,132	1,839	3,273	205
U. Nevada, Las Vegas	128	98,751	38,815	2,536	51,945	1,599	1,096	2,760
U. North Texas, Health Science Center	129	94,652	77,660	3,180	11,773	847	1,003	189
U. North Carolina, Charlotte	130	92,027	33,784	1,922	52,624	3,136	553	8
Cleveland State U.	131	87,941	56,550	2,913	19,420	3,494	5,423	141
Indiana U.-Purdue U., Indianapolis	132	87,648	39,869	3,029	34,236	3,434	6,776	304
San Jose State U.	133	83,406	31,780	7,116	38,582	2,101	2,478	1,349
U. Texas Rio Grande Valley	134	82,444	25,068	4,367	37,248	569	15,016	176
William & Mary	135	81,815	32,631	3,882	35,413	1,174	5,385	3,330
Florida Atlantic U.	136	77,593	35,108	8,511	23,101	2,611	7,308	954
Northern Arizona U.	137	77,533	50,491	9,030	15,566	1,023	1,250	173
Naval Postgraduate School	138	77,364	62,715	0	13,261	654	67	667
U. Southern Mississippi	139	75,034	48,374	13,504	12,285	372	499	0

TABLE 37

Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
South Dakota State U.	140	71,340	28,897	17,795	6,156	1,432	3,251	13,809
Old Dominion U.	141	71,334	31,104	13,535	23,954	387	1,915	439
U. Massachusetts, Boston	142	70,978	27,098	7,176	27,225	2,400	6,733	346
Louisiana State U., Health Sciences Center, New Orleans	143	68,707	35,933	447	24,332	3,478	4,235	282
U. Toledo	144	67,656	37,872	1,615	22,250	2,292	3,230	397
East Carolina U.	145	67,082	30,851	371	28,495	4,648	2,267	450
Florida A&M U.	146	65,159	54,363	2,851	6,503	586	856	0
U. California, Office of the President	147	63,629	25	41,345	22,143	0	0	116
CUNY, City C.	148	63,159	38,669	11,846	10,996	223	1,047	378
North Carolina A&T State U.	149	62,307	37,152	2,075	21,880	628	292	280
U. California, Merced	150	62,279	28,576	6,985	20,709	1,294	2,464	2,251
Missouri U. of Science and Technology	151	61,496	32,457	682	17,847	3,907	1,037	5,566
U. Puerto Rico, Medical Sciences Campus	152	61,235	46,789	406	10,781	3,259	0	0
U. Wisconsin-Milwaukee	153	60,712	25,612	17,207	13,084	1,431	1,450	1,928
Ohio U.	154	59,877	21,919	1,041	31,828	3,767	1,011	311
Kent State U.	155	58,984	17,959	1,021	37,300	753	1,872	79
Southern Illinois U., Carbondale	156	58,291	17,209	3,522	29,972	6,916	672	0
Air Force Institute of Technology	157	56,848	45,087	0	11,659	102	0	0
U. Missouri, Kansas City	158	54,565	28,115	336	20,030	582	934	4,568
CUNY, Graduate Center	159	54,089	2,792	428	45,484	127	4,450	808
U. Maryland Center for Environmental Science	160	53,233	15,378	26,509	9,309	198	1,563	276
SUNY, Upstate Medical U.	161	53,219	30,069	2,231	11,303	6,335	2,054	1,227
U. South Alabama	162	53,182	28,637	683	19,291	1,300	2,422	849
Boise State U.	163	52,989	35,801	3,473	12,190	426	704	395
Texas Tech U., Health Sciences Center	164	48,638	14,732	18,670	9,432	608	3,205	1,991
Rowan U.	165	47,810	18,454	6,659	20,501	1,230	966	0
Portland State U.	166	46,324	31,731	5,312	5,753	708	2,244	576
Western Michigan U. and Homer Stryker M.D. School of Medicine	167	45,157	12,631	1,216	25,832	3,280	603	1,595
U.S. Air Force Academy	168	44,880	44,056	0	0	357	0	467
U. North Carolina, Greensboro	169	44,521	31,581	363	10,750	450	1,055	322
Morgan State U.	170	43,868	30,451	5,582	5,635	721	644	835
East Tennessee State U.	171	42,335	10,776	2,889	24,910	130	3,601	29
U. Massachusetts, Dartmouth	172	42,018	13,742	2,933	21,993	1,808	1,267	275
U. West Florida	173	40,454	17,954	542	20,955	601	402	0
Georgia Southern U.	174	40,026	3,562	521	30,268	5,367	270	38

TABLE 37

Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Texas A&M U.-Corpus Christi	175	39,305	17,742	10,790	5,118	230	2,783	2,642
Montclair State U.	176	38,209	5,916	707	29,934	26	1,621	5
Oakland U.	177	37,263	9,600	3,066	15,987	4,953	1,636	2,021
CUNY, Hunter C.	178	37,172	22,124	3,037	9,506	739	1,293	473
California Polytechnic State U., San Luis Obispo	179	35,830	14,810	4,997	12,550	1,205	2,182	86
Louisiana State U., Health Sciences Center, Shreveport	180	35,624	18,742	158	8,014	3,715	4,995	0
SUNY, Downstate Health Sciences U.	181	35,600	28,543	0	3,431	313	3,005	308
San Francisco State U.	182	34,466	16,507	1,978	14,434	0	1,536	11
Marshall U.	183	33,693	19,797	1,606	10,608	510	1,172	0
Delaware State U.	184	33,499	24,167	4,093	3,975	48	1,181	35
Illinois State U.	185	32,961	13,612	2,429	16,099	152	664	5
SUNY, C. of Environmental Science and Forestry	186	32,682	9,231	14,316	6,234	515	1,073	1,313
Kennesaw State U.	187	32,497	5,908	563	24,976	157	893	0
U. Texas Health Science Center, Tyler	188	32,077	12,555	10,087	3,795	172	5,468	0
Louisiana Tech U.	189	31,676	8,118	2,220	19,098	722	0	1,518
U. Nebraska, Omaha	190	30,841	22,096	3,184	4,886	61	512	102
Desert Research Institute	191	30,716	20,061	1,657	4,378	802	2,890	928
U. South Dakota	192	29,855	14,101	1,798	13,128	44	782	2
Rutgers, State U. New Jersey, Newark	193	29,787	16,315	1,073	9,143	195	2,880	181
U. Puerto Rico, Rio Piedras	194	29,202	16,053	81	12,414	252	375	27
Northern Illinois U.	195	29,134	10,849	1,299	15,720	705	469	92
Miami U.	196	28,430	10,724	2,483	12,745	1,350	1,066	62
Tennessee State U.	197	28,246	15,983	1,177	10,740	155	187	4
California State U., Sacramento	198	28,027	11,284	10,056	5,821	26	556	284
CUNY, Graduate School of Public Health and Health Policy	199	26,651	13,413	9,353	1,330	1,057	1,451	47
Texas A&M U.-Kingsville	200	26,401	9,584	7,058	3,311	487	5,932	29
Wright State U.	201	26,189	19,081	1,158	4,837	513	360	240
California State U., Fullerton	202	25,811	6,049	205	18,925	204	428	0
U. Minnesota, Duluth	203	25,534	7,533	6,410	11,092	381	63	55
CUNY, Queens C.	204	25,492	17,811	1,345	5,536	8	710	82
Central Michigan U.	205	25,363	9,591	0	13,833	408	852	679
Florida Gulf Coast U.	206	24,899	9,858	9,477	3,533	108	1,891	32
Eastern Virginia Medical School	207	23,991	17,947	329	3,650	1,277	612	176
Tarleton State U.	208	23,345	5,478	4,392	12,689	286	500	0
U. North Florida	209	23,269	8,113	1,436	12,378	825	293	224

TABLE 37

Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
California State U., Northridge	210	23,093	19,169	1,152	1,278	113	1,381	0
CUNY, John Jay C. of Criminal Justice	211	22,967	7,452	6,104	5,096	111	3,124	1,080
U. Colorado Denver	212	22,530	17,181	2,387	513	846	1,258	345
U. Guam	213	22,388	18,992	2,252	1,083	59	2	0
Southern Illinois U., Edwardsville	214	21,927	3,621	1,684	15,854	752	14	2
U. North Carolina, Wilmington	215	21,879	8,116	8,296	3,028	1,640	656	143
Prairie View A&M U.	216	21,791	12,354	4,391	3,550	490	1,006	0
U. Akron	217	21,525	10,709	190	7,434	1,836	746	610
California State U., Long Beach	218	21,458	13,758	1,930	3,618	149	1,468	535
California State U., East Bay	219	21,312	8,508	433	9,969	0	2,381	21
James Madison U.	220	21,265	3,475	925	16,041	18	780	26
Tennessee Technological U.	221	20,797	9,975	5,675	4,623	120	116	288
Bowling Green State U.	222	20,726	8,208	2,160	9,214	233	911	0
U.S. Military Academy	223	20,493	19,390	0	66	269	700	68
U. New Orleans	224	20,396	5,283	897	12,325	491	267	1,133
South Dakota School of Mines and Technology	225	20,337	14,640	2,673	2,381	286	35	322
U. of the Virgin Islands	226	20,259	19,127	1,010	NA	48	74	0
U. Alaska, Anchorage	227	19,850	12,646	2,175	3,798	283	537	411
Jackson State U.	228	19,457	16,443	0	1,601	4	1,375	34
Alcorn State U.	229	19,141	10,996	5,206	2,894	24	21	0
California State Polytechnic U., Humboldt	230	18,800	3,280	3,338	5,724	437	3,094	2,927
North Carolina Central U.	231	18,477	15,188	1,085	NA	494	883	827
Montana Technological U.	232	18,375	9,585	5,503	3,057	230	0	0
Idaho State U.	233	17,548	9,230	3,042	4,362	605	196	113
CUNY, Advanced Science Research Center	234	17,309	11,916	761	2,201	451	1,574	406
Towson U.	235	17,198	3,653	369	12,449	79	622	26
Texas Southern U.	236	16,287	10,969	1,227	4,042	0	49	0
Western Washington U.	237	15,874	6,598	1,504	5,107	66	2,520	79
Alabama A&M U.	238	15,588	12,197	162	2,848	381	0	0
Fort Valley State U.	239	15,536	7,505	8,031	0	0	0	0
U. Tennessee, Chattanooga	240	14,671	6,003	893	6,585	252	381	557
Missouri State U.	241	14,654	12,973	84	1,387	20	172	18
Salisbury U.	242	14,557	5,049	5,551	3,904	0	53	0
U. Hawaii, system office	243	14,172	14,150	0	22	0	0	0
U. Puerto Rico, Mayaguez	244	13,989	12,260	193	421	455	660	0

TABLE 37

Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Virginia State U.	245	13,504	7,166	3,051	2,566	0	713	8
Texas Tech U., Health Sciences Center, El Paso	246	13,189	2,415	3,097	6,947	229	501	0
California State U., San Bernardino	247	13,152	7,606	2,799	2,051	1	695	0
Northeast Ohio Medical U.	248	13,116	8,873	202	3,440	0	601	0
U. Missouri, Saint Louis	249	12,808	4,569	82	5,245	105	2,190	617
Oklahoma State U., Center for Health Sciences	250	12,500	4,773	40	7,600	11	76	0
Sam Houston State U.	251	11,760	3,307	579	6,787	235	315	537
Ball State U.	252	11,650	6,355	396	3,956	637	306	0
Kentucky State U.	253	11,591	7,605	3,969	NA	17	0	0
California State U., San Marcos	254	11,443	9,845	1,171	326	0	101	0
California State U., Fresno	255	11,411	4,864	1,394	3,770	238	1,120	25
Central State U.	256	11,123	5,523	3,857	1,743	0	0	0
U.S. Naval Academy	257	10,920	10,260	0	0	0	221	439
U. Michigan, Dearborn	258	10,839	3,464	0	4,361	2,601	331	82
U. Maryland, Eastern Shore	259	10,730	10,201	237	266	0	24	2
California State Polytechnic U., Pomona	260	10,722	8,162	881	1,438	171	70	0
California State U., Monterey Bay	261	10,678	5,639	2,125	2,706	64	144	0
Langston U.	262	10,505	5,473	19	4,583	430	0	0
West Texas A&M U.	263	10,302	2,118	4,772	2,243	1,135	34	0
California State U., Los Angeles	264	10,186	8,973	108	788	0	317	0
Kean U.	265	10,062	1,870	134	7,954	15	89	0
Middle Tennessee State U.	266	9,577	3,822	488	4,173	143	943	8
Rutgers, State U. New Jersey, Camden	267	9,527	3,042	1,842	3,214	544	860	25
Western Kentucky U.	268	9,298	3,401	790	4,906	78	123	0
Lamar U.	269	9,168	2,259	6,124	277	342	166	0
U. Northern Colorado	270	9,064	1,705	202	6,848	69	240	0
U. Arkansas, Little Rock	271	8,685	7,544	218	69	513	134	207
Winston-Salem State U.	272	8,668	7,901	374	0	0	336	57
CUNY, Brooklyn C.	273	8,535	5,518	838	1,998	44	119	18
Appalachian State U.	274	8,479	3,497	134	3,123	702	1,006	17
Eastern Michigan U.	275	8,363	2,521	72	5,463	0	297	10
Lincoln U., Jefferson City	276	8,196	4,610	3,552	34	0	0	0
U. Hawaii, Hilo	277	8,112	6,068	22	809	59	940	214
Southern Connecticut State U.	278	8,007	1,433	136	5,810	68	239	321
U. of the District of Columbia	279	7,945	7,367	384	48	0	131	15

TABLE 37

Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Central Oklahoma	280	7,870 i	2,071 i	833 i	4,867 i	95 i	3 i	1 i
South Carolina State U.	281	7,814	5,330	1,531	890	0	63	0
U. Arkansas, Pine Bluff	282	7,766	4,204	1,294	2,219	41	8	0
Southern U. and A&M C., Agricultural Research and Extension Center	283	7,764	4,688	3,037	24	0	15	0
Pennsylvania State U., Behrend	284	7,614	4,378	388	1,823	708	308	9
Purdue U., Northwest	285	7,504	3,409	996	1,604	597	236	662
Arkansas State U., Jonesboro	286	7,323	3,083	3,419	561	260	0	0
C. Charleston	287	7,231	5,036	274	1,285	64	571	1
Texas A&M U.-Commerce	288	7,029	1,936	809	3,726	3	494	61
U. Colorado Colorado Springs	289	7,012	5,205	29	1,042	523	207	6
Texas Woman's U.	290	6,922	2,439	2,136	1,396	166	785	0
U. North Carolina, Asheville	291	6,761	3,323	547	615	126	2,148	2
U. Baltimore	292	6,615	4,250	1,819	NA	20	422	104
California State U., Bakersfield	293	6,409	3,525	154	2,580	0	150	0
U. Washington, Tacoma	294	6,243	3,875	1,393	278	1	520	176
Grand Valley State U.	295	6,231	1,808	450	2,906	0	584	483
Norfolk State U.	296	6,194	4,381	574	677	182	380	0
Northwest Indian C.	297	6,184 i	4,595 i	0 i	1,589 i	0 i	0 i	0 i
West Chester U. Pennsylvania	298	6,132	1,386	54	4,176	124	392	0
Indiana U. Pennsylvania	299	6,052	1,702	532	3,293	17	508	0
U.S. Army War C.	300	6,035 i	6,035 i	0 i	0 i	0 i	0 i	0 i
California State U., Chico	301	5,984	3,152	1,130	636	18	97	951
U. Southern Maine	302	5,930	2,598	3,070	185	0	72	5
CUNY, Lehman C.	303	5,918	4,487	0	782	365	181	103
U. Oklahoma, Tulsa	304	5,826	1,328	330	2,963	124	1,054	27
Naval War C.	305	5,819	5,819	0	0	0	0	0
U. Washington, Bothell	306	5,738	3,787	617	486	1	667	180
Texas A&M International U.	307	5,602	1,966	1,011	1,542	170	913	0
Oregon Institute of Technology	308	5,585 i	1,375	3,931 i	NA	97 i	182 i	0
California State U., Dominguez Hills	309	5,558	2,457	870	1,996	41	52	142
Dakota State U.	310	5,253	2,437	231	660	692	25	1,208
West Virginia State U.	311	5,226	2,800	1,804	521	0	101	0
Southern U. and A&M C., Baton Rouge	312	5,201	4,444	75	34	648	0	0
Pennsylvania State U., Harrisburg	313	5,159	3,045	887	742	178	303	4
Sul Ross State U.	314	4,878	1,568	1,223	1,804	0	283	0

TABLE 37

Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Wisconsin-Superior	315	4,825	3,559	81	1,062	87	36	0
CUNY, C. Staten Island	316	4,730	3,296	224	975	41	109	85
Coastal Carolina U.	317	4,729	1,847	1,004	1,694	0	184	0
Sonoma State U.	318	4,625	3,483	585	321	46	190	0
U. Wisconsin-Stevens Point	319	4,589	2,079	948	997	0	302	263
U. Northern Iowa	320	4,564	2,975	541	911	0	137	0
SUNY, C. of Optometry	321	4,423	2,469	0	594	1,328	10	22
CUNY, system office	322	4,296	2,901	413	730	18	234	0
CUNY, Baruch C.	323	4,084	1,879	77	988	91	785	264
California State U., Channel Islands	324	3,992	1,773	1,086	737	219	177	0
Austin Peay State U.	325	3,950	1,401	1,385	530	0	100	534
Western Illinois U.	326	3,824	3,283	144	42	243	0	112
Northern Kentucky U.	327	3,790	2,413	77	1,113	6	181	0
Troy U.	328	3,785	3,069	81	398	1	203	33
Citadel Military C. South Carolina	329	3,757	3,287	159	258	0	0	53
Chicago State U.	330	3,756	3,756	0	0	0	0	0
Central Washington U.	331	3,683	2,499	650	282	85	132	35
U. Nebraska, Kearney	332	3,681	1,739	590	1,307	25	0	20
Stephen F. Austin State U.	333	3,661	1,098	1,648	541	32	225	117
Fayetteville State U.	334	3,569	1,847	536	1,005	130	51	0
Christopher Newport U.	335	3,507	2,055	0	1,218	94	140	0
U. Texas, Tyler	336	3,487	1,652	960	432	227	187	29
New Mexico Highlands U.	337	3,468	3,416	0	43	0	0	9
Fort Lewis C.	338	3,372	2,816	23	143	6	384	0
Youngstown State U.	339	3,244	2,691	244	207	47	55	0
Alabama State U.	340	3,229	2,848	0	0	296	85	0
Murray State U.	341	3,193	2,058	29	993	79	34	0
Winthrop U.	342	3,189	2,358	54	707	7	63	0
Saginaw Valley State U.	343	3,143	2,503	0	476	6	138	20
U. Central Arkansas	344	3,092	1,824	583	615	40	11	19
Minnesota State U., Mankato	345	3,055	905	196	1,537	0	45	372
Dine C.	346	3,054	2,255	262	223	0	314	0
Pittsburg State U.	347	2,979	1,591	633	NA	755	0	0
East Stroudsburg U. Pennsylvania	348	2,928	909	1,421	546	0	52	0
U. Wisconsin-La Crosse	349	2,921	714	804	639	709	44	11

TABLE 37

Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
St. Cloud State U.	350	2,901	689	305	719	835	145	208
Southeastern Louisiana U.	351	2,858	1,366	237	758	472	25	0
CUNY, New York City C. of Technology	352	2,819	2,498	30	241	10	16	24
Purdue U., Fort Wayne	353	2,804	226	455	1,087	172	291	573
U. Wisconsin-Green Bay	354	2,801	1,222	556	868	52	103	0
U. Wisconsin-River Falls	355	2,772	551	1,832	39	213	0	137
U. Texas of the Permian Basin	356	2,769	1,013	525	832	190	7	202
Morehead State U.	357	2,658	1,718	381	11	530	18	0
C. New Jersey	358	2,641	1,755	72	482	0	332	0
SUNY, Buffalo State U.	359	2,636	1,615	765	222	0	17	17
Bowie State U.	360	2,612	2,469	143	0	0	0	0
SUNY, Cobleskill	361	2,566	730	1,832	0	4	0	0
Eastern Washington U.	362	2,546	1,015	1,198	NA	8	221	104
Lake Superior State U.	363	2,545	1,475	166	720	66	37	81
Western Carolina U.	364	2,543	1,600	337	378	171	57	0
U. Illinois, Springfield	365	2,508	1,057	426	818	0	207	0
National Defense U.	366	2,494	2,494	0	0	0	0	0
Stockton U.	367	2,386	688	711	815	36	74	62
Virginia Military Institute	368	2,350	1,534	296	510	0	10	0
California State U., Stanislaus	369	2,305	1,150	513	168	468	6	0
Northeastern Illinois U.	370	2,262	2,262	0	0	0	0	0
Black Hills State U.	371	2,260	1,918	82	258	0	2	0
Florida Polytechnic U.	371	2,260	1,172	141	723	183	41	0
U. South Carolina, Aiken	373	2,250	782	0	1,453	0	15	0
U. Louisiana, Monroe	374	2,203	1,655	371	3	30	144	0
U. Wisconsin-Eau Claire	375	2,191	1,027	509	389	248	10	8
U. Houston-Clear Lake	376	2,127	1,273	251	48	533	22	0
U. Wisconsin-Oshkosh	377	2,087	1,249	136	545	157	0	0
U. Puerto Rico, Humacao	378	2,074	1,822	0	252	0	0	0
Northwestern State U. Louisiana	379	2,057	822	936	299	0	0	0
Utah Valley U.	380	2,015	1,671	279	36	14	15	0
U. Houston-Downtown	381	1,967	1,495	183	140	68	81	0
SUNY, Geneseo	382	1,958	1,292	9	491	0	52	114
Albany State U.	383	1,932	1,681	106	0	145	0	0
Ferris State U.	384	1,915	1,430	88	271	53	73	0

TABLE 37

Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
SUNY, C. Brockport	385	1,877	813	155	610	0	290	9
Northern Michigan U.	386	1,871	560	25	1,079	1	80	126
U. Alaska, Southeast	387	1,822	1,463	117	100	0	105	37
Nevada State C.	388	1,744	1,711	33	0	0	0	0
SUNY, C. Plattsburgh	389	1,722	1,121	0	530	0	69	2
CUNY, York C.	390	1,711	1,504	0	159	0	48	0
Savannah State U.	391	1,706	1,675	18	0	0	13	0
U. North Georgia	392	1,643	477	131	871	7	157	0
Elizabeth City State U.	393	1,641	1,093	403	NA	145	0	0
Colorado State U., Pueblo	394	1,624	952	199	347	0	0	126
SUNY, Oswego	395	1,595	894	49	595	1	32	24
Indiana U., South Bend	396	1,593	420	3	875	0	295	0
Texas A&M U.-San Antonio	396	1,593	1,233	51	51	4	224	30
U. Puerto Rico, Cayey	398	1,519	733	0	412	0	374	0
U. Wisconsin-Platteville	399	1,481 i	465 i	378 i	249 i	339 i	39 i	11 i
U. South Carolina, Beaufort	400	1,466	889	43	417	0	117	0
West Virginia School of Osteopathic Medicine	401	1,459 i	500 i	12 i	947 i	0 i	0 i	0 i
Eastern Connecticut State U.	402	1,449	210	0	1,239	0	0	0
Eastern Kentucky U.	403	1,446	798	124	468	56	0	0
U. Hawaii, Maui C.	404	1,376	1,234	0	117	0	25	0
Indiana State U.	405	1,327	980	83	212	32	11	9
Radford U.	406	1,315	109	135	903	13	155	0
U. Virginia's C. Wise	407	1,223	447	367	333	0	69	7
Pennsylvania State U., Altoona	408	1,215	297	6	666	91	144	11
U. of Mary Washington	409	1,115	406	57	548	0	79	25
New C. Florida	410	1,080	146	0	367	425	142	0
Southern U., New Orleans	411	1,004	536	460	0	8	0	0
Central Connecticut State U.	412	934	393	51	480	0	2	8
Rhode Island C.	413	839	786	0	NA	0	53	0
Framingham State U.	414	735	700	0	35	0	0	0
U.S. Coast Guard Academy	415	689	278	0	287	0	124	0
U. Puerto Rico, Ponce	416	659	510	0	149	0	0	0
Lincoln U.	417	628	430	126	0	0	72	0
William Paterson U.	418	533	168	0	350	4	11	0
Grambling State U.	419	449	377	52	20	0	0	0

TABLE 37

Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
St. Mary's C. Maryland	420	205	152	31	0	0	22	0

i = imputed. NA = not available; data were not provided by institution.

^a The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^b The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

Note(s):

Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 38

Higher education R&D expenditures at private institutions, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
All institutions	-	37,679,964	22,588,213	457,879	8,217,019	2,485,756	2,937,701	993,396
Johns Hopkins U. ^a	1	3,801,585	3,324,551	10,271	164,758	126,685	168,401	6,919
U. Pennsylvania	2	1,953,617	936,469	27,849	642,815	203,003	134,455	9,026
Stanford U.	3	1,537,846	943,669	31,872	189,108	144,300	219,578	9,319
Duke U.	4	1,507,996	974,202	773	191,004	219,452	96,327	26,238
New York U.	5	1,457,424	787,204	9,599	327,502	73,289	118,376	141,454
Cornell U.	6	1,451,971	705,132	95,202	276,682	59,081	129,082	186,792
Harvard U.	7	1,435,218	639,953	4,250	488,906	71,497	202,605	28,007
Columbia U. in the City of New York	8	1,341,952	988,670	6,298	119,863	91,828	132,930	2,363
Yale U.	9	1,326,807	741,198	1,710	404,706	80,221	93,363	5,609
Vanderbilt U. and Vanderbilt U. Medical Center	10	1,253,156	751,019	3,821	357,729	86,265	39,591	14,731
Washington U., Saint Louis	11	1,168,861	758,464	571	188,985	129,843	89,041	1,957
U. Southern California	12	1,154,804	683,819	11,881	239,488	93,933	72,744	52,939
Northwestern U.	13	1,114,269	678,062	586	303,778	67,114	58,196	6,533
Emory U.	14	1,094,328	664,370	244	279,302	64,772	81,897	3,743
Massachusetts Institute of Technology	15	1,000,081	559,766	2,079	73,497	176,277	112,591	75,871
Icahn School of Medicine at Mount Sinai	16	972,476	658,916	8,359	147,069	80,437	62,202	15,493
Baylor C. of Medicine	17	847,305	440,345	34,061	282,695	33,100	57,104	0
Boston U.	18	773,200	409,551	500	230,370	23,362	93,532	15,885
U. Chicago	19	628,302	476,689	3,902	46,651	44,990	53,670	2,400
Case Western Reserve U.	20	553,740	431,736	11,202	80,506	4,659	23,331	2,306
Princeton U.	21	513,365	219,600	1,252	144,341	20,077	76,101	51,994
U. Miami	22	509,951	291,783	16,251	128,438	48,022	25,118	339
Scripps Research Institute	23	494,946	278,099	3,331	146,451	31,164	35,901	0
California Institute of Technology	24	490,672	310,519	3,870	53,950	35,867	29,024	57,442
Carnegie Mellon U.	25	484,757	279,954	3,623	128,082	47,152	15,669	10,277
U. Rochester	26	481,227	368,190	3,666	57,142	30,075	16,014	6,140
Rockefeller U.	27	385,168	101,422	101	244,237	3,089	35,953	366
Dartmouth C. and Dartmouth Hitchcock Medical Center	28	366,856	168,740	46	166,114	2,415	20,865	8,676
George Washington U.	29	360,260	162,892	1,890	141,746	5,655	30,534	17,543
Brown U.	30	353,591	239,744	32	63,031	6,120	34,721	9,943
Medical C. Wisconsin	31	346,691	155,403	754	113,726	38,419	33,075	5,314
Georgetown U.	32	337,006	127,370	1,719	87,408	17,345	68,114	35,050
Albert Einstein C. of Medicine	33	336,238	230,151	2,032	81,552	5,637	16,866	0

TABLE 38

Higher education R&D expenditures at private institutions, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Notre Dame	34	331,943	147,985	712	115,906	14,640	25,449	27,251
Wake Forest U.	35	308,972	204,713	7,673	26,886	33,508	23,868	12,324
Northeastern U.	36	288,558	186,013	3,336	68,663	11,524	18,604	418
Woods Hole Oceanographic Institution	37	287,825	238,554	882	15,591	5,431	10,476	16,891
Tulane U.	38	258,439	152,468	4,121	60,978	8,428	16,709	15,735
Thomas Jefferson U.	39	258,345	110,366	10,315	76,704	21,845	13,815	25,300
Rice U.	40	255,115	119,853	9,801	78,447	7,506	33,684	5,824
Tufts U.	41	247,276	154,458	2,328	33,998	15,988	29,439	11,065
U. Dayton	42	228,723	216,729	1,274	861	8,193	1,022	644
Syracuse U.	43	183,850	46,595	10,706	108,685	9,170	8,570	124
Drexel U.	44	169,583	108,724	4,464	43,396	1,727	8,475	2,797
Brigham Young U., Provo	45	137,748	31,216	1,145	99,661	2,980	2,649	97
Rush U.	46	132,394	93,180	2,208	12,316	16,533	8,157	0
Rensselaer Polytechnic Institute	47	121,706	56,445	3,289	45,192	10,959	3,123	2,698
Cold Spring Harbor Laboratory	48	117,483	54,123	209	38,367	3,914	20,870	0
Brandeis U.	49	103,653	46,654	406	41,318	661	10,730	3,884
Touro U., New York	50	100,547	40,008	0	7,152	53,387	0	0
Saint Louis U.	51	85,921	44,157	646	21,971	5,412	13,484	251
Howard U.	52	84,756	47,662	2,840	22,461	4,552	5,140	2,101
Baylor U.	53	82,074	17,147	2,879	45,076	3,460	12,667	845
Boston C.	54	81,425	39,356	2,517	18,254	974	19,273	1,051
Van Andel Research Institute	55	80,748	30,934	2,597	36,082	155	4,149	6,831
American U.	56	76,041	17,462	2,193	44,220	603	9,510	2,053
Rochester Institute of Technology	57	72,405	37,334	9,828	19,161	3,084	2,178	820
Worcester Polytechnic Institute	58	66,353	37,736	2,141	20,202	4,072	1,380	822
Stevens Institute of Technology	59	60,685	44,036	2,069	9,833	3,397	929	421
Southern Methodist U.	60	59,749	19,986	1,393	33,204	1,601	3,399	166
Morehouse School of Medicine	61	57,125	41,069	987	10,710	0	4,359	0
Lehigh U.	62	56,301	39,909	2,479	11,921	893	1,081	18
U. Denver	63	53,484	33,148	4,909	5,028	1,978	7,038	1,383
Loyola U., Chicago	64	52,445	29,712	242	12,892	4,302	4,062	1,235
Nova Southeastern U.	65	50,173	11,637	3,862	32,874	543	762	495
Marquette U.	66	47,819	20,055	246	18,010	879	2,385	6,244
Catholic U. of America	67	47,022	35,502	1,147	7,957	264	2,124	28

TABLE 38

Higher education R&D expenditures at private institutions, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Mercer U.	68	45,247	29,944	58	8,973	3,247	187	2,838
Chapman U.	69	41,791	10,015	303	23,533	383	7,481	76
Teachers C., Columbia U.	70	34,183	11,871	3,953	NA	1,428	14,239	2,692
Illinois Institute of Technology	71	33,021	28,027	154	2,045	1,292	858	645
Villanova U.	72	31,513	8,741	1,405	17,513	622	3,165	67
Creighton U.	73	28,443	12,681	3,943	9,597	1,033	467	722
Embry-Riddle Aeronautical U.	74	27,451	23,733	205	862	1,041	161	1,449
Tuskegee U.	75	25,625	16,023	3,565	2,539	0	0	3,498
Clarkson U.	76	25,399	10,611	3,910	9,214	1,093	406	165
U. Tulsa	77	24,845	8,545	306	8,079	6,766	1,149	0
Texas Christian U.	78	24,050	7,627	658	12,066	2,491	1,069	139
Fordham U.	79	23,832	4,687	0	16,377	3	1,957	808
Albany Medical C.	80	23,259	14,193	120	3,464	3,956	1,360	166
New School	81	22,680	1,337	708	3,483	56	16,080	1,016
Loma Linda U.	82	22,262	12,485	745	4,913	1,469	2,634	16
Meharry Medical C.	83	22,002	18,398	0	603	64	2,937	0
Charles R. Drew U. of Medicine and Science	84	19,551	13,297	886	3,758	0	1,610	0
New York Medical C.	85	17,113	8,226	1,326	1,064	3,319	2,169	1,009
Florida Institute of Technology	86	16,859	11,520	768	4,253	142	176	0
Long Island U.	87	16,612	1,993	0	13,844	90	569	116
Xavier U. Louisiana	88	15,519	12,833	722	1,161	0	803	0
Duquesne U.	89	14,989	6,555	1,055	4,349	275	2,755	0
Loyola Marymount U.	90	14,086	2,921	1,096	7,708	84	2,277	0
DePaul U.	91	13,267	5,592	807	3,512	372	2,911	73
U. San Diego	92	12,902	3,501	684	7,498	69	542	608
Midwestern U.	93	12,725	2,862	92	9,430	76	265	0
Rosalind Franklin U. of Medicine and Science	94	11,629	7,124	62	3,270	565	608	0
Clark U.	95	11,539	2,235	231	5,610	81	1,804	1,578
Wesleyan U.	96	10,828	5,955	0	3,515	221	688	449
Pacific U.	97	10,719	7,133	1,098	2,053	70	365	0
Pepperdine U.	98	10,632	674	1	7,179	0	2,771	7
Clark Atlanta U.	99	10,320	7,687	0	2,523	79	31	0
Gallaudet U.	100	9,894	5,523	25	3,462	0	526	358
Hampton U.	101	9,769	9,445	0	324	0	0	0

TABLE 38

Higher education R&D expenditures at private institutions, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. San Francisco	102	9,633	1,015	532	6,848	0	279	959
Bryn Mawr C.	103	9,039	1,289	0	7,105	16	629	0
Western U. of Health Sciences	104	8,929	6,099	1,635	238	457	500	0
Saint Joseph's U.	105	8,675	2,680	1,129	1,657	2,517	434	258
Yeshiva U.	106	8,661	1,229	0	6,104	0	1,008	320
Abilene Christian U.	107	8,182	946	0	194	6,934	108	0
Hofstra U.	108	8,162	1,995	237	5,786	0	144	0
Amherst C.	109	8,152	2,869	0	3,104	0	235	1,944
Edward Via C. of Osteopathic Medicine	110	7,597	678	136	6,699	0	84	0
Grinnell C.	110	7,597	1,082	0	5,816	0	239	460
Philadelphia C. of Osteopathic Medicine	112	7,459	442	59	2,848	2,547	1,563	0
MGH Institute of Health Professions	113	7,426	6,200	0	20	0	1,206	0
Claremont Graduate U.	114	7,262	1,422	354	984	2,709	1,228	565
Seton Hall U.	115	7,068	2,778	2,633	1,195	104	211	147
Claremont McKenna C.	116	6,925	1,035	62	5,293	0	485	50
Hope C.	117	6,910	3,639	0	1,678	0	1,308	285
U. New England	118	6,756	4,777	2	1,548	29	395	5
Reed C.	119	6,750 i	2,420 i	44 i	3,745 i	0 i	391 i	150 i
Williams C.	120	6,448 i	1,455 i	0 i	2,164 i	0 i	178 i	2,651 i
Barnard C.	121	6,320	4,235	0	1,006	8	1,071	0
Wellesley C.	121	6,320	2,921	449	NA	80	2,628	242
Azusa Pacific U.	123	6,097	140	40	5,545	35	273	64
Roseman U. of Health Sciences	124	6,065	38	0	5,953	67	7	0
Smith C.	125	5,954	3,013	0	2,179	253	509	0
High Tech High Graduate School of Ed.	126	5,939	0	0	0	0	5,939	0
Bucknell U.	127	5,887	2,359	61	2,031	299	235	902
New York Institute of Technology	128	5,790	3,252	125	2,146	60	207	0
Morehouse C.	129	5,750	5,750	0	NA	0	0	0
Santa Clara U.	130	5,679	3,448	372	NA	364	1,424	71
Swarthmore C.	131	5,620	2,315	6	2,578	0	697	24
Providence C.	132	5,533	4,648	0	582	0	303	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	133	5,324	273	0	5,021	0	30	0
Trinity U.	134	5,296	2,203	2	1,238	0	1,834	19
Suffolk U.	135	5,164	893	737	3,303	0	231	0

TABLE 38

Higher education R&D expenditures at private institutions, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Detroit Mercy	136	5,142	4,434	0	529	140	39	0
Colgate U.	137	4,930	1,521	0	3,041	305	63	0
U. Central del Caribe	138	4,878	2,929	524	1,270	0	0	155
Spelman C.	139	4,877	4,567	0	0	0	310	0
Fisk U.	140	4,867	3,819	240	304	0	504	0
Sacred Heart U.	141	4,733	639	0	3,892	0	202	0
Occidental C.	142	4,718 i	2,967 i	559 i	NA	554 i	638 i	0 i
Toyota Technological Institute, Chicago	143	4,636	2,127	0	1,633	321	463	92
Lawrence Technological U.	144	4,632	1,786	937	784	183	942	0
Colby C.	145	4,454	3,011	0	580	0	356	507
U. of Health Sciences and Pharmacy in St. Louis	146	4,343	3,110	0	1,060	84	89	0
Carleton C.	147	4,185	2,800	0	483	0	902	0
Alfred U.	148	4,154	1,958	1,596	242	330	28	0
Pomona C.	149	4,149	1,205	0	2,659	0	285	0
Franklin and Marshall C.	150	4,111	1,469	241	1,273	371	543	214
Trinity C., Hartford	151	4,099	687	0	3,330	7	75	0
Haverford C.	152	4,088	2,344	0	955	0	270	519
Keck Graduate Institute	153	4,059	2,338	4	388	634	354	341
Pace U.	154	4,056	2,698	20	1,101	0	237	0
St. John's U., New York	155	3,955	2,792	0	450	341	232	140
Seattle U.	156	3,949	1,165	78	2,223	55	428	0
Des Moines U.	157	3,932	556	7	3,225	0	144	0
Harvey Mudd C.	158	3,682	1,968	0	1,389	0	161	164
U. New Haven	159	3,602	2,227	629	204	24	487	31
Roger Williams U.	160	3,465	1,973	102	912	72	406	0
Bowdoin C.	161	3,339	2,186	71	901	0	102	79
Milwaukee School of Engineering	162	3,317	722	0	71	2,509	15	0
Hamilton C.	163	3,285	413	0	1,813	0	819	240
U. Richmond	164	3,058	1,379	0	1,218	0	436	25
Marian U., Indianapolis	165	3,009	918	0	1,709	18	172	192
Middlebury C.	166	2,975	2,564	10	25	0	376	0
Davidson C.	167	2,926	1,340	11	915	12	492	156
Hawaii Pacific U.	168	2,913	1,942	0	179	438	344	10
Touro U., California	169	2,877	1,279	0	1,405	79	0	114

TABLE 38

Higher education R&D expenditures at private institutions, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Lewis and Clark C.	170	2,686	776	1	1,590	0	319	0
Tougaloo C.	171	2,663 i	2,643 i	4 i	4 i	4 i	4 i	4 i
Marymount U.	172	2,601	396	29	1,983	0	193	0
Vassar C.	173	2,596	1,204	20	872	0	490	10
Albany C. of Pharmacy and Health Sciences	174	2,594 i	1,256 i	0 i	882 i	287 i	169 i	0 i
Calvin U.	175	2,555	854	68	330	0	1,060	243
Elon U.	176	2,544	479	0	1,989	0	20	56
Mount Holyoke C.	177	2,533	1,612	125	504	0	292	0
Monmouth U.	178	2,517	762	657	280	168	612	38
Colorado C.	179	2,498	611	0	1,000	0	887	0
La Sierra U.	180	2,496 i	1,066 i	0 i	734 i	0 i	696 i	0 i
New England C. of Optometry	181	2,491	1,946	56	30	390	69	0
Franklin W. Olin C. of Engineering	182	2,450	641	0	639	230	837	103
Erikson Institute	183	2,414	1,245	0	178	0	991	0
Wheaton C., Wheaton	184	2,403	428	0	966	5	1,004	0
Skidmore C.	185	2,384	1,288	0	510	0	586	0
Hobart and William Smith Colleges	186	2,373	1,019	526	572	0	136	120
Benedict C.	187	2,307	1,665	0	0	635	7	0
Dillard U.	188	2,296	1,228	117	951	0	0	0
U. of St. Thomas (MN)	189	2,280	531	499	578	255	277	140
Furman U.	190	2,267	1,300	32	482	128	308	17
U. of the Incarnate Word	191	2,245	1,086	0	1,050	54	55	0
C. Wooster	192	2,209	594	0	775	0	840	0
U. Ana G. Mendez, Gurabo	193	2,132	2,132	0	0	0	0	0
Bates C.	194	2,118	1,455	0	349	0	272	42
Lafayette C.	195	1,991	1,141	23	687	5	135	0
U. of the Pacific	196	1,972	1,300	586	NA	9	77	0
Babson C.	197	1,957	224	0	758	78	131	766
Lipscomb U.	198	1,946	309	0	1,571	8	58	0
Macalester C.	199	1,935	1,094	58	508	0	275	0
Liberty U.	200	1,900	532	5	1,315	48	0	0
Union C., Schenectady	201	1,881	729	0	1,048	17	34	53
Alaska Pacific U.	202	1,823	627	0	0	1,173	0	23
Marshall B. Ketchum U.	203	1,777 i	433 i	0 i	890 i	454 i	0 i	0 i

TABLE 38

Higher education R&D expenditures at private institutions, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Palmer C. of Chiropractic, Davenport	204	1,725	1,500	0	225	0	0	0
Drake U.	205	1,724	954	368	340	34	26	2
St. Olaf C.	205	1,724	933	0	686	0	105	0
Lincoln Memorial U.	207	1,641	2	0	1,589	4	46	0
Norwich U.	208	1,637	1,366	5	261	0	5	0
U. Puget Sound	209	1,613	1,300	0	138	0	175	0
Johnson C. Smith U.	210	1,602	1,554	0	48	0	0	0
Bentley U.	211	1,589	802	0	0	18	751	18
Whitman C.	212	1,568	449	0	676	0	443	0
Merrimack C.	213	1,560	892	0	336	0	247	85
Pratt Institute	214	1,558	50	878	0	0	630	0
Willamette U.	215	1,542	490	0	961	0	91	0
U. Hartford	216	1,533	1,269	8	203	3	50	0
Hartford International U. for Religion and Peace	217	1,485	0	0	0	0	1,485	0
Fairfield U.	218	1,484	180	0	751	0	553	0
Saint John's U.	219	1,479 i	0 i	0 i	1,479 i	0 i	0 i	0 i
Biola U.	220	1,461	0	0	9	0	1,298	154
Northland C.	221	1,442 i	880 i	40 i	222 i	0 i	300 i	0 i
Connecticut C.	222	1,440	648	0	575	0	211	6
Robert Morris U.	223	1,419	664	79	632	22	22	0
Clafin U.	224	1,418	1,418	0	0	0	0	0
Oberlin C.	225	1,408	880	9	463	1	55	0
C. of Saint Benedict	226	1,400 i	58 i	0 i	1,342 i	0 i	0 i	0 i
Butler U.	227	1,396	1,077	0	199	20	100	0
United Tribes Technical C.	228	1,387	1,337	19	0	0	31	0
Kenyon C.	229	1,371	1,092	0	147	0	132	0
National U. of Natural Medicine	230	1,336	862	0	305	169	0	0
St. Edward's U.	231	1,334	315	186	762	0	71	0
Arcadia U.	232	1,321	772	182	0	0	367	0
Andrews U.	233	1,255	445	0	721	0	89	0
Heidelberg U.	234	1,254	197	799	243	0	15	0
Manhattan C.	235	1,250	422	222	460	146	0	0
U. Scranton	236	1,169	866	2	212	20	69	0
Ursinus C.	237	1,150	942	112	0	0	96	0

TABLE 38

Higher education R&D expenditures at private institutions, ranked by all R&D expenditures, by source of funds: FY 2023

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Western New England U.	238	1,115	538	54	302	89	132	0
Gettysburg C.	239	1,099	517	0	146	0	204	232
Gustavus Adolphus C.	240	969	467	9	107	181	54	151
Canisius U.	241	905	411	0	0	0	494	0
Ithaca C.	242	861	453	130	178	0	42	58
Bryant U.	243	558	436	0	122	0	0	0
Albion C.	244	276	226	0	0	50	0	0

i = imputed. NA = not available; data were not provided by institution.

^a Johns Hopkins University includes the Applied Physics Laboratory, with \$2,333,049 thousand in total R&D expenditures in FY 2023.**Note(s):**Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
All institutions	-	2,925,074	2,953,984	3,201,715	3,617,348	2,000,234	1,995,236	2,160,601	2,417,938
Johns Hopkins U. ^a	1	226,696	270,040	270,237	309,828	216,738	258,141	258,511	299,497
Carnegie Mellon U.	2	192,119	196,380	211,839	220,946	119,057	131,071	131,579	136,813
Georgia Institute of Technology	3	185,400	146,318	161,111	198,783	162,577	121,473	127,768	159,436
U. Southern California	4	121,116	115,694	112,104	122,842	115,564	110,401	106,239	116,290
Massachusetts Institute of Technology	5	111,779	116,877	124,985	119,666	54,491	62,186	68,540	68,071
U. Texas, Austin	6	139,290	87,595	100,730	116,971	128,322	79,109	88,477	97,635
Pennsylvania State U., University Park and Hershey Medical Center	7	89,490	73,737	79,162	108,873	76,419	56,263	62,351	83,515
U. Illinois, Urbana-Champaign	8	95,988	99,600	104,436	99,934	64,385	63,076	59,157	56,104
U. Maryland ^b	9	50,541	50,483	63,281	80,519	34,576	33,768	38,622	48,215
U. Alabama, Huntsville	10	36,636	48,967	60,893	47,962	35,309	45,627	54,406	43,721
Indiana U., Bloomington	11	41,892	38,843	40,488	47,950	24,346	23,657	27,634	35,137
U. North Carolina, Chapel Hill	12	26,765	32,344	39,486	41,385	20,870	27,834	32,390	35,159
U. Wisconsin-Madison	13	28,241	23,678	30,295	38,571	15,975	14,687	19,278	21,627
U. California, San Diego	14	30,370	46,962	28,879	37,484	16,179	18,932	24,372	34,673
U. Chicago	15	24,422	26,205	31,302	34,390	23,454	25,470	30,256	32,781
Arizona State U.	16	22,231	22,498	21,414	33,267	15,176	14,325	14,710	21,665
Cornell U.	17	31,173	28,125	29,874	32,821	18,829	19,456	20,092	18,513
Ohio State U.	18	22,869	16,691	27,225	31,323	8,892	6,904	9,761	14,679
Purdue U., West Lafayette	19	27,886	22,324	38,868	31,316	20,261	15,679	30,059	18,513
Columbia U. in the City of New York	20	25,101	27,763	31,786	30,853	22,817	24,889	26,721	24,749
Virginia Polytechnic Institute and State U.	21	30,405	25,466	28,642	30,263	11,637	8,484	9,291	14,280
U. Washington, Seattle	22	27,986	26,869	25,836	30,158	18,140	17,605	17,137	18,717
U. Central Florida	23	29,421	32,242	26,882	30,129	18,093	21,437	17,352	19,488
U. Massachusetts, Amherst	24	31,199	27,336	30,721	30,057	16,804	15,410	17,579	16,516
Princeton U.	25	24,160	23,518	28,066	29,801	14,612	14,768	16,783	16,491
Harvard U.	26	15,250	20,858	21,712	28,969	11,955	11,767	13,098	11,410
U. Virginia, Charlottesville	27	26,286	24,669	27,291	28,652	20,924	20,384	21,875	19,009
Texas A&M U., College Station and Health Science Center	28	18,504	19,178	25,705	28,414	9,988	12,013	17,584	17,436
Northeastern U.	29	21,118	21,505	27,623	28,375	17,176	16,182	17,903	17,333
U. Louisiana, Lafayette	30	11,111	16,823	25,361	27,922	1,050	3,227	12,682	13,962
Stanford U.	31	26,512	23,232	25,448	27,907	15,368	14,181	15,804	15,889
North Carolina State U.	32	16,119	17,016	20,889	26,585	11,737	12,833	12,459	15,455
U. California, Irvine	33	21,573	23,444	24,680	26,089	10,957	11,215	12,523	13,381
Vanderbilt U. and Vanderbilt U. Medical Center	34	0	18,226	14,617	24,592	0	12,495	13,064	15,997

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Minnesota, Twin Cities	35	22,996	22,629	28,809	24,219	9,283	9,509	8,091	9,091
U. Dayton	36	7,200	7,528	10,551	23,693	5,964	6,724	10,116	23,181
U. Notre Dame	37	14,904	13,961	15,067	23,170	8,265	8,037	6,781	9,564
U. California, Santa Barbara	38	9,231	11,503	13,354	23,101	5,973	6,064	7,620	14,281
U. Hawaii, Manoa	39	11,963	11,590	17,690	22,818	11,055	11,062	17,342	22,073
Florida International U.	40	16,175	16,708	18,348	22,726	9,863	8,929	9,924	13,542
U. Texas, San Antonio	41	12,064	19,203	21,484	22,722	5,470	11,594	13,737	13,407
Boston U.	42	14,251	14,542	17,480	22,142	5,902	6,725	7,577	8,749
George Mason U.	43	23,969	24,420	25,373	22,076	21,728	19,379	19,743	15,847
U. Colorado Boulder	44	15,627	16,468	19,612	21,212	14,941	15,321	18,032	19,774
U. Pennsylvania	45	26,318	27,396	29,513	21,066	15,361	16,523	16,990	14,071
SUNY, U. Buffalo	46	18,747	17,679	20,493	20,464	10,894	8,770	8,443	12,966
U. Florida	47	13,006	15,238	15,896	20,449	9,016	8,849	10,685	12,409
Brown U.	48	15,695	14,984	16,895	19,235	10,937	10,480	11,643	12,185
U. California, Los Angeles	49	17,480	16,186	14,755	19,118	10,302	10,475	9,952	10,926
Michigan State U.	50	15,783	15,996	15,978	18,855	7,631	6,720	7,450	9,968
U. South Florida ^c	51	9,417	11,614	9,503	18,841	2,582	2,875	4,608	10,902
U. Alabama, Tuscaloosa	52	12,836	12,797	16,400	18,813	4,044	4,438	5,591	5,584
Georgetown U.	53	18,620	19,590	18,321	18,504	3,947	3,703	2,402	2,449
U. Arizona	54	15,084	16,503	18,270	18,319	7,670	8,999	10,037	7,738
Dartmouth C. and Dartmouth Hitchcock Medical Center	55	14,889	18,556	17,794	18,309	5,114	5,783	4,922	4,684
U. Maryland, Baltimore County	56	11,590	12,102	13,685	17,976	6,765	7,385	7,816	9,692
U. Michigan, Ann Arbor	57	15,180	13,922	16,789	17,076	6,046	5,841	9,398	7,577
New York U.	58	14,584	15,246	14,731	16,701	9,125	9,830	9,646	11,518
SUNY, Stony Brook U.	59	10,909	12,621	12,929	15,550	8,530	10,753	10,872	12,371
U. California, Berkeley	60	12,701	9,583	12,736	15,434	255	201	1,157	1,832
New Mexico Institute of Mining and Technology	61	2,780	6,732	14,645	14,923	2,748	6,668	13,911	14,051
Northwestern U.	62	8,441	8,957	10,117	13,831	5,024	5,873	6,580	7,891
California Institute of Technology	63	15,072	13,508	11,363	13,730	11,277	9,772	7,541	9,088
Rensselaer Polytechnic Institute	64	14,686	13,145	14,752	13,075	4,377	5,398	5,250	4,769
Rochester Institute of Technology	65	8,910	8,809	9,956	12,888	5,556	5,662	5,594	8,031
Duke U.	66	6,019	5,273	8,320	12,836	5,535	4,468	7,363	11,229
New Jersey Institute of Technology	67	10,325	11,575	10,764	12,638	3,428	3,448	3,214	4,296
U. Illinois, Chicago	68	12,999	12,103	12,880	12,543	7,580	6,425	6,989	5,756
U. Delaware	69	6,648	4,182	5,740	12,538	5,643	3,404	3,963	4,163

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Pittsburgh, Pittsburgh	70	9,312	10,455	11,763	12,535	6,612	6,917	8,113	8,450
Rice U.	71	10,760	11,623	11,172	12,530	7,698	8,006	7,325	7,788
U. North Texas, Denton	72	4,769	7,269	9,124	12,171	1,262	2,189	2,610	3,937
Mississippi State U.	73	5,189	5,546	7,546	11,570	1,749	2,269	4,566	7,165
Yale U.	74	5,969	7,379	8,675	11,131	3,666	5,107	6,245	7,023
U. North Carolina, Charlotte	75	10,163	18,214	8,681	11,068	8,343	8,282	7,560	7,266
Worcester Polytechnic Institute	76	10,150	10,707	10,044	10,974	7,300	7,405	7,543	8,476
Louisiana State U., Baton Rouge	77	8,284	15,399	18,477	10,527	5,502	10,944	14,250	5,835
Florida State U.	78	10,349	10,320	9,004	10,374	3,969	3,710	3,159	3,674
U. Nebraska, Lincoln and Medical Center ^d	79	na	na	na	10,348	na	na	na	4,526
U. Texas, Dallas	80	9,992	8,945	10,179	10,213	6,289	6,367	6,495	7,112
Naval Postgraduate School	81	7,345	6,058	11,304	9,987	4,608	3,953	4,953	7,783
George Washington U.	82	7,308	7,326	8,137	9,922	3,135	2,907	3,209	3,196
U. Oklahoma, Norman and Health Science Center	83	3,019	4,661	6,637	9,628	1,285	2,414	4,383	5,640
Clemson U.	84	4,852	7,040	8,664	9,428	2,355	3,143	4,950	5,586
U. Houston	85	5,599	4,352	6,539	9,325	2,546	2,337	3,307	5,957
U. Texas, Arlington	86	7,572	6,865	8,415	9,165	2,817	2,674	2,977	3,739
Air Force Institute of Technology	87	2,441	1,921	3,474	9,028	1,656	1,551	1,794	7,354
U. Memphis	88	8,486	7,957	6,795	8,935	4,277	4,492	5,111	4,575
U. California, Santa Cruz	89	5,009	5,128	5,441	8,695	2,199	2,407	2,943	3,928
Washington State U.	90	8,251	8,393	8,523	8,664	4,027	4,772	5,753	7,409
Michigan Technological U.	91	2,994	4,582	7,889	8,624	1,054	2,074	4,749	4,975
U. Massachusetts, Lowell	92	7,153	7,420	9,858	8,478	4,051	4,440	6,127	5,635
U. Texas, El Paso	93	7,597	6,234	7,833	8,443	5,639	4,670	5,880	6,258
Rutgers, State U. New Jersey, New Brunswick	94	6,402	6,316	9,306	8,406	4,851	3,942	5,254	5,557
Rockefeller U.	95	9,058	8,886	8,486	8,060	0	0	0	0
Virginia Commonwealth U.	96	2,138	6,270	7,054	8,058	1,584	1,335	1,398	1,799
U. Tennessee, Knoxville	97	13,906	11,725	10,765	8,009	11,049	8,756	7,689	5,586
SUNY, Binghamton U.	98	7,873	8,490	7,724	7,948	2,734	1,910	1,737	1,583
U. Arkansas, Fayetteville	99	4,591	5,882	6,819	7,865	1,753	2,541	4,113	4,104
U. California, Riverside	100	8,974	8,295	7,468	7,414	5,999	5,841	5,927	6,123
U. West Florida	101	1,995	2,510	4,832	7,321	460	1,625	3,654	5,663
Syracuse U.	102	5,081	5,582	4,858	7,300	1,266	1,557	1,367	1,060
Brigham Young U., Provo	103	1,350	929	1,533	7,241	1,199	841	1,097	2,199
Howard U.	104	1,523	1,747	1,576	7,235	655	740	570	6,235

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. California, Davis	105	7,256	5,934	5,764	6,959	5,005	4,367	4,762	5,918
U. Connecticut	106	5,575	5,294	4,766	6,946	3,194	3,271	2,672	3,562
U. Oregon	107	5,652	6,362	6,598	6,807	4,228	4,811	5,083	5,587
U. Missouri, Columbia	108	4,187	6,866	6,157	6,644	3,674	5,692	3,774	5,340
Drexel U.	109	4,105	5,655	6,589	6,621	2,885	4,413	5,308	5,264
Georgia State U.	110	3,435	4,896	5,346	6,583	1,531	1,643	1,962	2,675
Auburn U., Auburn	111	5,006	5,127	5,174	6,337	1,740	2,151	1,506	2,567
Iowa State U.	112	7,666	5,844	5,782	6,326	4,815	3,093	2,838	3,346
Indiana U.-Purdue U., Indianapolis	113	5,006	4,643	5,049	6,191	3,307	2,798	2,759	3,503
U. Kansas	114	4,416	3,652	4,418	6,179	2,887	2,269	2,910	4,542
SUNY, U. Albany	115	6,591	5,230	6,141	6,022	2,739	1,596	1,517	1,484
Case Western Reserve U.	116	34	2,407	3,165	5,998	34	1,888	2,580	4,784
U. Georgia	117	3,760	4,121	5,509	5,970	1,105	1,258	2,085	2,597
U. Nebraska, Omaha	118	3,185	2,588	4,810	5,913	1,827	1,591	3,575	4,351
Washington U., Saint Louis	119	5,467	4,575	4,634	5,859	4,675	4,167	4,059	4,773
Texas State U.	120	2,197	1,200	1,598	5,633	768	818	1,064	1,150
Temple U.	121	5,901	6,327	6,734	5,498	2,496	2,571	3,381	4,626
Emory U.	122	2,345	2,841	4,730	5,494	323	964	1,817	3,164
Texas Tech U.	123	5,111	4,274	5,410	5,472	1,160	916	933	1,410
Wright State U.	124	2,034	3,531	5,329	5,443	871	2,740	4,576	5,015
Oregon State U.	125	8,213	7,241	5,820	5,346	6,218	6,182	4,593	4,122
U. Idaho	126	1,595	2,184	3,673	5,340	985	1,476	2,750	3,376
Dakota State U.	127	4,337	3,080	4,589	5,172	3,909	2,443	3,976	2,356
New Mexico State U.	128	4,539	4,043	4,103	5,075	3,869	3,464	3,334	4,253
U. Kentucky	129	4,054	4,011	5,913	5,019	1,554	2,223	3,569	2,202
Florida Atlantic U.	130	2,586	2,479	2,776	4,999	1,309	1,562	1,715	3,666
Stevens Institute of Technology	131	3,606	4,984	4,815	4,997	3,454	4,104	3,994	4,145
U. Cincinnati	132	2,031	3,614	3,655	4,958	123	205	507	895
Kennesaw State U.	133	3,727	3,745	3,538	4,916	105	125	268	511
U. Tulsa	134	3,139	3,521	3,849	4,897	2,531	2,365	2,909	4,400
U. New Mexico	135	3,964	3,657	4,264	4,816	2,876	2,760	3,287	3,652
Northern Arizona U.	136	2,671	4,037	2,492	4,797	698	811	1,247	2,894
Toyota Technological Institute, Chicago	137	5,887	4,967	4,470	4,636	3,038	3,090	2,199	2,127
U. Nevada, Reno	138	7,550	6,843	6,103	4,617	3,390	3,896	5,808	4,270
Tufts U.	139	4,273	1,045	2,568	4,526	4,128	942	1,132	2,296

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Colorado State U., Fort Collins	140	4,278	3,621	4,052	4,521	3,645	3,125	3,517	3,617
U. South Carolina, Columbia	141	4,129	3,311	4,628	4,491	1,989	2,248	2,838	2,871
Utah State U.	142	2,538	3,039	3,545	4,436	1,543	1,812	1,910	1,929
Oakland U.	143	1,073	1,150	3,608	4,406	482	613	949	843
U. North Dakota	144	3,199	1,856	2,266	4,136	336	693	1,014	2,318
U.S. Military Academy	145	469	2,305	6,651	4,064	469	1,878	6,609	3,770
U. Iowa	146	3,547	4,180	4,187	4,037	2,673	2,842	3,020	2,227
Kansas State U.	147	3,511	3,898	3,900	3,858	1,844	2,377	2,185	1,994
William & Mary	148	2,917	2,575	2,873	3,779	1,881	1,670	1,887	2,535
Colorado School of Mines	149	3,748	3,894	3,443	3,677	3,461	3,746	3,135	3,468
Oklahoma State U., Stillwater	150	5,361	3,636	3,099	3,598	371	460	423	540
Wayne State U.	151	2,133	2,158	2,214	3,578	1,066	1,353	1,568	2,776
Rutgers, State U. New Jersey, Camden	152	1,848	2,353	2,722	3,577	1,789	2,111	2,279	2,682
Tennessee Technological U.	153	2,221	2,581	3,541	3,548	1,364	1,543	2,256	2,063
U. Rochester	154	4,021	3,608	3,099	3,544	3,383	3,190	2,345	2,464
Illinois Institute of Technology	155	2,988	2,647	3,307	3,514	2,708	2,355	2,983	3,298
Boise State U.	156	1,761	1,686	3,448	3,449	1,216	1,197	1,733	1,623
North Dakota State U.	157	3,433	2,929	2,957	3,422	463	346	694	1,227
Florida Institute of Technology	158	4,287	5,643	5,289	3,416	3,223	3,698	4,101	2,930
U. Vermont	159	3,036	2,978	3,614	3,361	911	951	1,073	869
Montana State U., Bozeman	160	1,459	2,625	3,026	3,175	1,149	1,141	1,386	1,981
U. Miami	161	283	835	1,620	3,156	91	586	1,542	2,185
Old Dominion U.	162	2,196	2,693	2,672	3,127	874	1,196	1,430	1,538
U. Massachusetts, Dartmouth	163	1,572	1,718	2,552	3,116	448	60	735	1,102
Brandeis U.	164	2,999	3,208	3,218	2,955	1,561	1,006	1,082	1,110
Missouri U. of Science and Technology	165	2,648	2,545	2,899	2,948	1,337	1,228	1,335	764
San Diego State U.	166	1,519	1,439	2,592	2,902	636	657	996	964
Gallaudet U.	167	486	2,141	1,954	2,868	319	1,364	1,587	1,746
U. Arkansas, Little Rock	168	3,246	3,312	3,204	2,804	2,691	3,089	2,898	2,586
Teachers C., Columbia U.	169	2,459	2,913	3,235	2,791	1,284	1,570	1,938	1,788
Lehigh U.	170	2,333	2,514	2,373	2,725	1,521	1,734	1,653	1,823
U. Colorado Colorado Springs	171	1,035	1,965	2,607	2,705	1,023	1,921	2,394	2,367
Louisiana Tech U.	172	2,475	1,952	1,938	2,582	726	396	314	433
U. New Orleans	173	1,591	1,370	1,492	2,579	637	451	449	1,614
U. Texas Rio Grande Valley	174	1,520	1,581	3,543	2,540	252	188	1,447	257

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Maine	175	1,967	2,585	2,084	2,517	629	824	605	705
Towson U.	176	603	530	1,204	2,485	488	416	909	1,168
U. Rhode Island	177	523	439	743	2,484	465	416	701	2,431
Citadel Military C. South Carolina	178	380	1,033	3,234	2,419	378	1,023	3,227	2,407
Kent State U.	179	1,766	1,509	1,619	2,228	605	456	445	1,108
San Francisco State U.	180	1,482	1,579	1,878	2,172	558	564	582	1,061
West Virginia U.	181	1,894	2,179	1,562	2,155	1,646	1,742	1,239	1,639
U. Nevada, Las Vegas	182	1,077	1,015	1,556	2,120	314	443	758	1,300
Baylor U.	183	1,011	1,148	2,382	2,063	97	101	625	642
Embry-Riddle Aeronautical U.	184	526	2,136	2,417	2,014	406	1,697	1,888	1,663
Portland State U.	185	1,164	1,644	1,521	1,971	996	1,390	1,397	1,645
U. Montana, Missoula	185	1,746	2,207	2,206	1,971	1,371	1,619	1,314	597
U. Wyoming	187	581	1,580	2,220	1,958	541	971	1,123	1,006
U. Massachusetts, Boston	188	1,242	2,709	1,996	1,944	525	716	724	745
North Carolina A&T State U.	189	1,742	1,227	1,008	1,884	1,567	1,148	922	1,714
U. California, Merced	190	194	1,134	1,387	1,864	116	862	827	860
Marquette U.	191	834	1,439	1,681	1,831	324	675	1,058	874
CUNY, Hunter C.	192	1,726	1,395	1,556	1,805	1,474	1,165	1,343	1,608
Virginia Military Institute	192	ne	ne	1,304	1,805	ne	ne	1,031	1,422
Kean U.	194	509	229	850	1,801	417	151	237	726
U. Southern Maine	195	1,190	1,422	1,553	1,792	0	0	0	31
Tulane U.	196	2,257	1,873	1,713	1,712	1,803	1,472	1,433	1,105
Idaho State U.	197	820	686	735	1,596	651	503	544	669
Saint Louis U.	198	1,164	1,345	1,221	1,566	578	734	429	729
U. New Hampshire	199	854	1,057	1,465	1,505	576	567	606	802
U. Mississippi	200	207	273	251	1,418	101	119	104	107
Tennessee State U.	201	430	371	384	1,412	421	0	0	340
Boston C.	202	599	663	1,399	1,408	411	402	883	669
DePaul U.	203	1,528	1,552	736	1,399	1,448	1,396	613	768
U. Missouri, Kansas City	204	1,625	1,698	1,075	1,344	399	509	31	416
Montclair State U.	205	535	314	1,888	1,332	117	107	445	316
California State U., Fullerton	206	83	200	1,047	1,299	33	143	156	320
Northern Illinois U.	207	661	944	983	1,297	332	669	608	812
California State U., Monterey Bay	208	1,023	1,298	1,517	1,294	734	721	949	609
U.S. Air Force Academy	209	490	150	210	1,285	490	150	150	1,260

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
California State U., San Bernardino	210	472	228	672	1,228	401	182	580	1,189
Creighton U.	211	730	928	1,153	1,196	396	493	690	728
U.S. Naval Academy	212	1,519	774	867	1,179	1,413	684	804	968
U. North Carolina, Wilmington	213	210	244	280	1,169	130	209	214	144
James Madison U.	214	325	845	961	1,156	18	26	72	39
Morgan State U.	215	520	660	605	1,109	519	624	539	744
Rutgers, State U. New Jersey, Newark	216	2,269	2,013	2,252	1,107	2,269	1,984	1,899	996
East Carolina U.	217	828	603	484	1,095	213	309	358	910
New Mexico Highlands U.	217	134	586	840	1,095	134	586	840	1,095
CUNY, Graduate Center	219	0	22	6	1,079	0	22	6	0
U. North Carolina, Greensboro	220	510	806	398	1,076	323	692	322	626
Delaware State U.	221	358	334	185	1,071	156	179	29	1,071
Pace U.	222	1,043	758	903	1,067	903	598	727	913
Georgia Southern U.	223	65	1,045	1,104	1,032	16	99	16	3
South Carolina State U.	224	547	706	865	1,025	432	476	520	565
Nova Southeastern U.	225	146	32	57	1,022	125	0	0	454
U. Alabama, Birmingham	226	1,502	1,356	898	1,013	1,356	1,250	897	815
U. New Haven	227	602	1,359	1,363	992	562	1,117	1,215	949
Texas A&M U.-Corpus Christi	228	222	313	355	982	204	258	301	381
Loyola U., Chicago	229	160	216	456	973	139	161	356	806
Fisk U.	230	93	415	431	949	0	415	425	942
Tuskegee U.	231	409	463	875	923	409	463	875	923
Augusta U.	232	61	141	291	896	28	84	228	854
Southern Illinois U., Carbondale	233	396	566	389	893	33	0	0	89
Bowie State U.	234	682	446	1,169	892	682	446	1,169	892
U. North Florida	235	178	418	575	861	51	304	416	453
Chapman U.	236	665	701	708	851	0	0	0	82
C. Wooster	237	112	14	16	789	0	0	0	0
Texas A&M U.-Kingsville	238	0	12	0	784	0	12	0	784
U. Puerto Rico, Rio Piedras	239	207	604	609	783	75	258	331	467
Clarkson U.	240	517	776	531	780	421	700	501	749
Miami U.	241	721	564	462	750	298	68	0	318
Winston-Salem State U.	242	443	590	419	746	443	251	339	372
Middle Tennessee State U.	243	245	1,000	1,050	737	204	283	181	313
Grinnell C.	244	357	201	278	735	76	77	123	129

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
American U.	245	672	649	753	733	264	146	184	92
U. Tennessee, Chattanooga	246	975	899	830	684	873	879	716	580
Prairie View A&M U.	247	292	188	134	671	292	188	103	538
Western Michigan U. and Homer Stryker M.D. School of Medicine	248	145	169	159	665	131	150	142	83
Smith C.	249	391	352	504	659	328	320	284	447
Morehouse C.	250	1,141	540	396	641	1,141	540	396	641
California State U., San Marcos	251	987	620	450	640	987	620	450	609
U. South Alabama	252	3,846	3,722	1,432	632	3,705	3,560	1,349	580
Wake Forest U.	253	226	266	401	629	59	145	308	490
Rowan U.	254	482	588	540	606	256	453	422	63
Harvey Mudd C.	255	791	645	711	585	640	512	573	476
U. Hawaii, system office	256	1,715	1,327	520	574	1,694	1,313	515	574
U. Colorado Denver ^e	257	na	475	687	573	na	411	619	554
San Jose State U.	258	10	297	151	570	0	0	0	0
U. South Carolina, Beaufort	259	ne	ne	ne	558	ne	ne	ne	431
Alabama A&M U.	260	301 i	333 i	372 i	557 i	234 i	293 i	363 i	479 i
California State U., Long Beach	261	102	271	390	542	42	90	178	165
Xavier U. Louisiana	262	100	652	696	540	87	652	673	539
Appalachian State U.	263	336	356	327	536	233	323	260	410
Fayetteville State U.	264	131	584	472	524 i	131	334	233	257 i
Southern Methodist U.	265	683	205	494	518	290	127	247	398
U. Denver	266	99	22	78	511	99	22	36	122
Purdue U., Northwest	267	524	863	394	510	491	836	369	458
Meharry Medical C.	268	0	0	65	508	0	0	65	508
California State U., Los Angeles	269	36	218	241	499	0	218	241	499
Florida Polytechnic U.	270	241	193	210	486	64	112	138	401
Western Washington U.	271	318	383	316	482	274	343	196	90
Northeastern Illinois U.	272	39	46	104	481	39	46	104	481
Bowling Green State U.	273	274	192	97	456	67	22	1	153
Yeshiva U.	274	0	0	749	453	0	0	0	0
Texas A&M U.-Commerce	275	94	61	141	449	24	53	93	176
Norfolk State U.	276	4,921	1,957	344	444	4,921	1,957	298	172
CUNY, Queens C.	277	182	294	508	442	135	253	313	223
California State U., Dominguez Hills	278	700	620	413	440	633	547	346	307
Sacred Heart U.	279	ne	12	ne	436	ne	7	ne	92

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
California State Polytechnic U., Pomona	280	653	360	304	432	607	335	276	397
Villanova U.	281	527	413	360	430	179	148	57	59
Marymount U.	282	ne	655	350	427	ne	174	161	247
Black Hills State U.	283	480	295	385	421	452	295	363	396
C. Charleston	283	162	322	300	421	90	242	190	356
Lamar U.	285	74	72	154	420	14	33	72	217
Southern U. and A&M C., Baton Rouge	286	202	473	611	417	189	473	611	401
Hampton U.	287	699	994	720	409	699	994	720	409
CUNY, Lehman C.	288	476	81	9	402	0	0	0	396
U. Wisconsin-Milwaukee	289	116	193	376	399	93	157	0	112
Fordham U.	290	390	287	511	393	164	101	121	54
Elizabeth City State U.	291	112	518	585	386	101	466	348	58
Central Washington U.	292	58	202	406	384	0	177	381	363
Jackson State U.	293	502	662	671	383	418	468	486	271
Liberty U.	294	0	0	ne	369	0	0	ne	369
U. Washington, Bothell	294	41	188	537	369	41	119	498	310
Bryn Mawr C.	296	691	356	335	368	226	134	120	80
U. Houston-Downtown	297	95	194	135	367	86	175	133	352
West Texas A&M U.	298	210	301	257	363	116	161	144	263
Saint Joseph's U.	299	136	192	126	361	118	155	85	266
CUNY, City C.	300	1,490	778	820	358	803	552	524	355
Salisbury U.	301	346	303	328	357	57	101	225	230
Occidental C.	302	236	280	313	354	236	280	313	354
Illinois State U.	303	65	168	165	353	23	76	141	259
U. Baltimore	303	22	46	336	353	10	46	310	335
U. of the District of Columbia	305	79	242	255	351	79	242	255	351
Seton Hall U.	306	0	0	0	350	0	0	0	0
U. South Dakota	307	799	174	450	334	665	86	138	226
U. Puerto Rico, Mayaguez	308	0	0	254	333	0	0	192	296
California State U., Northridge	309	201	380	173	329	201	358	105	269
Barnard C.	310	149	260	250	327	60	107	101	135
Clark U.	311	60	36	138	326	47	17	11	30
South Dakota School of Mines and Technology	312	49	48	0	325	49	33	0	257
SUNY, C. of Environmental Science and Forestry	313	119	190	296	314	23	22	212	236
Amherst C.	314	25	150	164	312	0	35	61	104

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Southern Mississippi	315	144	232	662	311	114	182	537	236
Clafin U.	316	500	173	387	306	500	173	387	306
Carleton C.	317	111	68	402	299 i	33	40	80	117 i
New York Institute of Technology	318	188	303	323	292	132	183	89	108
Ohio U.	319	703	271	89	290	103	243	21	123
Saginaw Valley State U.	320	7	7 i	268 i	289 i	1	1 i	254 i	272 i
U. Hawaii, Hilo	321	1	94	89	286	1	91	82	286
Marshall U.	322	287	79	201	284	254	54	163	269
Tarleton State U.	323	412	395	763	282	0	0	0	0
U. North Carolina, Asheville	324	310	284	289	278	310	284	289	278
U. of the Virgin Islands	325	148	90	267	267	148	90	267	267
Southeastern Louisiana U.	326	29	2	38	266	5	0	0	225
U. Central Oklahoma	327	132 i	139 i	238 i	265 i	132 i	139 i	127 i	141 i
U. Minnesota, Duluth	328	289	242	133	257	163	136	5	172
Alabama State U.	329	0	0	192	255	0	0	192	255
U. Utah	330	37,159 i	33,446 i	3,034	249	23,621	21,958	0	0
Indiana U. Pennsylvania	331	331	165	113	246	0	34	113	244
CUNY, New York City C. of Technology	332	177	172	195	241	177	156	164	211
Long Island U.	333	0	5	142	234	0	5	28	36
U. San Francisco	334	60	16	204	233	0	0	0	88
Bucknell U.	335	122 i	114	113	229	84 i	82	10	109
Middlebury C.	335	117	241	162	229	117	241	152	219
Oregon Institute of Technology	337	37 i	134 i	160 i	227 i	0	20 i	27 i	109 i
U. Missouri, Saint Louis	338	833	187	184	225	3	100	22	63
Pomona C.	339	95	272	120	224	95	118	50	68
U. Virginia's C. Wise	340	ne	1,174	455	223	ne	1,174	447	213
St. John's U., New York	341	9	75	160	222	0	59	131	163
U. Alaska, Fairbanks	341	1,148	1,116	907	222	820	947	724	166
Bates C.	343	113	19	40	221	113	19	33	0
Florida A&M U.	344	102	16	1,208	220	90	16	1,208	220
California State U., Fresno	345	117	141	234	219	75	141	202	193
C. New Jersey	346	194	178	221	214	194	175	212	211
California State U., Sacramento	347	178	340	221	212	105	219	166	145
Robert Morris U.	348	ne	ne	190 i	210	ne	ne	119 i	130
Coastal Carolina U.	349	56	91	133	208	56	91	133	207

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Wellesley C.	349	431	505	437	208	430	500	437	137
CUNY, Brooklyn C.	351	403	314	273	203	356	290	251	163
Southern Connecticut State U.	352	11	154	121	196	0	0	2	9
Benedict C.	353	98	ne	ne	189	98	ne	ne	167
California Polytechnic State U., San Luis Obispo	354	626	679	359	186	362	436	253	178
U. Hawaii, Maui C.	354	ne	450	ne	186	ne	446	ne	154
Colgate U.	356	188	214	101	177	165	180	79	75
Reed C.	357	68	72 i	151 i	172 i	61	65 i	84 i	95 i
Claremont McKenna C.	358	0	0	24	166	0	0	24	166
U. Alaska, Anchorage	359	165	166	48	165	150	63	31	62
Trinity C., Hartford	360	4	9	9	160	0	0	0	30
Colorado State U., Pueblo	361	0	190	326	158	0	190	326	123
North Carolina Central U.	362	28	157	138	157 i	12	0	0	0 i
U. Central Arkansas	363	426	470	610	154	381	358	509	128
California State U., Channel Islands	364	0	22	69	149	0	0	62	141
U. North Georgia	364	37	335	456	149	37	335	456	149
Mercer U.	366	136	140	149	147	15	16	3	6
Northwestern State U. Louisiana	366	272	224	132	147 i	0	0	0	0 i
Minnesota State U., Mankato	368	0	0	5	143	0	0	5	141
National Defense U.	368	0	0	0	143	0	0	0	143
Hawaii Pacific U.	370	86	72	0	140	72	72	0	140
Williams C.	371	110 i	113 i	120 i	137 i	58 i	62 i	47 i	53 i
California State U., East Bay	372	329	264	287	136	61	0	0	0
U. Akron	373	1	32	44	132	0	32	43	80
Southern Illinois U., Edwardsville	374	151	49	71	129	39	11	1	0
St. Olaf C.	374	167	114	ne	129	132	85	ne	109
Bowdoin C.	376	84	81	64	125	72	74	51	53
California State U., Stanislaus	376	331	186	215	125	331	186	208	122
CUNY, C. Staten Island	378	66	54	133	123	65	54	119	102
Oberlin C.	379	144	62	ne	122	80	30	ne	58
Arkansas State U., Jonesboro	380	290	239	299	120	158	95	138	31
Azusa Pacific U.	381	148	92	29	119	0	9	0	0
Catholic U. of America	382	0	50	0	118	0	0	0	0
Mount Holyoke C.	382	141	152	235	118	140	150	225	113
Lafayette C.	384	101	76	35	117	85	46	7	99

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Texas A&M U.-San Antonio	384	ne	ne	239	117	ne	ne	151	107
U. Washington, Tacoma	384	696	224	421	117	696	216	421	117
Utah Valley U.	387	ne	ne	123	115	ne	ne	123	115
Davidson C.	388	0	0	179	114	0	0	164	85
Haverford C.	388	101 i	39 i	47 i	114 i	39	16	18	85
Clark Atlanta U.	390	183	160	395	113	166	103	231	60
Grambling State U.	391	0	0	792 i	112	0	0	59 i	40
U. Nebraska, Kearney	392	6	43	105	111	0	0	0	0
Hamilton C.	393	89	4	3	110	0	0	0	33
Sam Houston State U.	394	18	26	8	109	0	0	0	64
Grand Valley State U.	395	9	31	111	108	0	6	8	64
U.S. Coast Guard Academy	395	ne	ne	ne	108	ne	ne	ne	50
Oklahoma State U., Center for Health Sciences	397	95	99	104	107	0	0	0	0
Tougaloo C.	398	0	0 i	92 i	106 i	0	0 i	92 i	104 i
Virginia State U.	399	0	0	0	102	0	0	0	0
Texas Southern U.	400	160	136	132	100	149	106	99	91
New C. Florida	401	ne	ne	ne	99	ne	ne	ne	45
Loyola Marymount U.	402	24	58	303	98	0	0	114	52
Rhode Island C.	402	63	24	85	98	60	24	85	98
Winthrop U.	404	0	36	64	97	0	36	58	97
Lincoln U.	405	ne	ne	ne	96	ne	ne	ne	96
Fairfield U.	406	6	12	ne	92	0	1	ne	57
U. Louisville	407	97	71	119	91	0	14	78	44
U. Northern Colorado	408	0	0	0	88	0	0	0	0
U. of the Pacific	409	0	0	70	87	0	0	0	0
Texas Christian U.	410	126	86	106	84	101	86	104	83
Trinity U.	410	50	64	72	84	15	26	27	4
Milwaukee School of Engineering	412	0	47	65	82	0	47	65	75
U. Wisconsin-Green Bay	412	57 i	56 i	77 i	82 i	35 i	33 i	39 i	46 i
Swarthmore C.	414	15	16	71	81	6	0	55	69
Colorado C.	415	0	0	0	77	0	0	0	62
Western New England U.	416	ne	ne	69	76	ne	ne	69	76
Youngstown State U.	416	6	28	167	76	0	28	156	70
Colby C.	418	14	94	97	73	14	78	63	13
Ithaca C.	419	39	73	57	72	39	73	57	70

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Radford U.	420	ne	ne	ne	71	ne	ne	ne	34
U. of Mary Washington	420	45	82	20	71	15	19	14	0
Spelman C.	422	34	13	26	69	34	13	26	69
Hofstra U.	423	6	97	166	68	3	45	33	1
Seattle U.	424	21	0	93	67	0	0	1	54
Connecticut C.	425	248	168	134	66	83	65	48	46
Eastern Connecticut State U.	426	86	248	9	65	0	0	0	4
United Tribes Technical C.	427	ne	ne	ne	61	ne	ne	ne	61
U. Wisconsin-La Crosse	428	68	42	76	60	36	31	62	35
Albany State U.	429	0	0	ne	57	0	0	ne	57
U. Houston-Clear Lake	429	111	34	21	57	96	23	2	52
Ball State U.	431	1,263	1,079	348	56	258	22	128	18
Claremont Graduate U.	431	207	55	76	56	98	0	0	0
SUNY, Buffalo State U.	433	0	0	3	53	0	0	3	53
Union C., Schenectady	433	7	59	69	53	3	57	49	4
Northern Kentucky U.	435	13	34	122	52	0	3	14	13
Central Michigan U.	436	105	87	100	50	0	0	0	0
Hope C.	437	28	63	74	49	0	0	0	0
Montana Technological U.	437	0	0	18	49	0	0	0	0
South Dakota State U.	437	13	32	44	49	0	0	0	11
Macalester C.	440	140	70	17	48	0	0	0	41
U. Wisconsin-Platteville	440	18 i	37 i	44 i	48 i	12 i	22 i	27 i	29 i
Vassar C.	440	400	227	133	48	273	142	113	26
Eastern Michigan U.	443	376	30	232	47	0	0	11	0
Johnson C. Smith U.	444	11	196 i	188	43	11	180 i	164	43
Texas Woman's U.	444	14	11	3	43	14	11	0	43
Elon U.	446	36	41	25	42	0	0	0	0
Franklin and Marshall C.	446	7	70	33	42	0	0	0	0
New School	448	6	19	3	41	0	0	0	0
California State Polytechnic U., Humboldt	449	64	85	76	39	8	27	10	8
West Chester U. Pennsylvania	449	7	21	39	39	0	0	0	0
Monmouth U.	451	0	0	0	38	0	0	0	0
U. Scranton	452	ne	ne	ne	35	ne	ne	ne	35
William Paterson U.	453	125	178	60	32	0	0	0	27
Northern Michigan U.	454	0	37	28	30	0	37	14	8

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Central Connecticut State U.	455	21	33	27	27	0	0	0	0
Stephen F. Austin State U.	455	0	14	3	27	0	0	0	0
C. of Saint Benedict	457	51 i	19 i	23 i	26 i	23 i	2 i	3 i	3 i
Saint John's U.	457	25 i	20 i	23 i	26 i	0 i	0 i	0 i	0 i
SUNY, Oswego	457	84	56	38	26	52	38	30	21
Calvin U.	460	59 i	66 i	73 i	25 i	44 i	44 i	44	9
St. Cloud State U.	460	75	233	16	25	0	182	9	8
U. Texas, Tyler	460	50	21	38	25	26	13	37	25
Fort Lewis C.	463	0	0	17	24	0	0	0	0
Lewis and Clark C.	463	32	0	13	24	27	0	0	0
St. Edward's U.	465	1,150	1,050	270	20	700	600	120	0
CUNY, system office	466	215	158	113	18	84	0	8	0
SUNY, Polytechnic Institute	466	0	0	0	18	0	0	0	18
Whitman C.	468	0	ne	22	17	0	ne	0	0
Hobart and William Smith Colleges	469	0	4	13	16	0	0	0	0
U. Hartford	470	5	1	3	15	5	1	0	4
Kentucky State U.	471	32	15	5	13	32	15	5	0
Pennsylvania State U., Harrisburg	471	130	2	8	13	2	1	5	13
Western Kentucky U.	471	13	0	7	13	0	0	0	0
Furman U.	474	45	53	28	12	0	0	0	0
SUNY, C. Brockport	474	3	0	8	12	0	0	0	0
Ursinus C.	474	ne	ne	ne	12	ne	ne	ne	12
U. of the Incarnate Word	477	0	0	0	10	0	0	0	10
U. Wisconsin-Oshkosh	477	0 i	0	1	10	0 i	0	0	0
East Stroudsburg U. Pennsylvania	479	ne	ne	15	9	ne	ne	0	0
Texas A&M International U.	479	80	0	1	9	0	0	0	0
Bentley U.	481	ne	ne	75	8	ne	ne	75	8
Chicago State U.	481	ne	ne	78	8	ne	ne	78	8
U. Michigan, Dearborn	481	11	61	24	8	0	0	0	0
Drake U.	484	ne	1	19	7	ne	0	1	1
CUNY, John Jay C. of Criminal Justice	485	195	16	0	6	193	10	0	0
U. Detroit Mercy	485	20	0	24	6	0	0	23	6
Indiana U., South Bend	487	ne	3	ne	5	ne	0	ne	0
Pepperdine U.	487	0	0	0	5	0	0	0	0
Roger Williams U.	487	0	0	25	5	0	0	0	0

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Gettysburg C.	490	3	ne	ne	4	0	ne	ne	0
U. Tennessee, Health Science Center	490	0	0	0	4	0	0	0	0
Willamette U.	490	0	0	5	4	0	0	0	0
Bryant U.	493	ne	ne	ne	3	ne	ne	ne	0
California State U., Chico	493	10	0	0	3	10	0	0	0
Florida Gulf Coast U.	493	41	13	5	3	41	13	0	0
U. Puget Sound	493	0	ne	0	3	0	ne	0	0
U. South Carolina, Aiken	493	0	0	0	3	0	0	0	0
U. of St. Thomas (MN)	498	17	328	11	2	17	323	7	0
U. Wisconsin-Stevens Point	498	0	0	0	2	0	0	0	0
Andrews U.	500	0	0	ne	1	0	0	ne	0
Pennsylvania State U., Behrend	500	119	112	47	1	37	77	29	0
All other surveyed institutions	-	14,803	12,573	13,307	0	7,536	5,342	4,830	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

^a Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$298,808 thousand imputed for total and \$289,699 thousand reported for federally financed R&D expenditures in computer and information sciences in FY 2023. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^c The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

^d The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

^e The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 40

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec	
All institutions	-	3,281,649	3,295,235	3,652,936	4,032,534	723,727	1,488,300		1,365,092	455,415
U. California, San Diego	1	201,331	185,870	187,175	245,278	0	54,139		191,139	0
Woods Hole Oceanographic Institution	2	143,240	160,059	166,020	194,513	36,812	89,488		53,776	14,437
U. Washington, Seattle	3	135,307	128,033	152,187	162,612	63,322	12,991		75,026	11,273
U. Colorado Boulder	4	119,824	118,876	129,830	140,081	26,474	19,149		2,931	91,527
Texas A&M U., College Station and Health Science Center	5	107,894	106,932	122,622	125,114	7,010	11,463		101,588	5,053
U. Alaska, Fairbanks	6	72,609	95,711	121,905	111,890	13,684	64,913		32,857	436
U. New Hampshire	7	51,661	55,523	86,032	99,189	32,874	8,503		57,812	0
U. Hawaii, Manoa	8	71,468	73,176	78,404	88,512	3,031	19,070		61,690	4,721
Columbia U. in the City of New York	9	78,288	77,515	79,949	88,243	12,850	35,378		40,015	0
U. Maryland ^a	10	58,099	61,660	78,455	87,557	8,322	62,124		2,202	14,909
U. Oklahoma, Norman and Health Science Center	11	84,812	91,101	89,076	83,345	71,803	11,495		0	47
U. Wisconsin-Madison	12	65,000	65,814	68,178	77,933	46,930	18,251		0	12,752
U. Texas, Austin	13	61,145	54,009	55,612	76,120	45	58,701		12,897	4,477
Johns Hopkins U. ^b	14	65,556	79,257	96,789	72,538	11,587	29,977		23,174	7,800
U. Miami	15	50,684	50,826	59,693	61,748	37,213	0		23,451	1,084
U. Rhode Island	16	42,634	52,469	54,685	61,366	17	10,374		38,572	12,403
Arizona State U.	17	73,544	68,116	67,062	59,803	294	59,430		79	0
Colorado State U., Fort Collins	18	67,642	60,073	53,708	59,772	49,496	9,357		102	817
Oregon State U.	19	39,215	43,111	46,982	57,207	1,964	14,826		26,728	13,689
U. California, Los Angeles	20	41,594	41,818	45,869	52,655	12,177	30,675		0	9,803
California Institute of Technology	21	43,338	43,295	57,033	47,263	0	43,235		0	4,028
U. Arizona	22	31,148	32,088	33,859	44,173	10,888	29,232		2,755	1,298
William & Mary	23	33,084	34,838	38,810	43,485	0	855		42,630	0
U. Maryland Center for Environmental Science	24	43,554	40,621	42,407	42,880	72	3,712		38,656	440
Louisiana State U., Baton Rouge	25	32,283	28,763	33,440	41,171	0	6,907		23,523	10,741
U. California, Santa Cruz	26	29,389	31,217	35,788	39,967	0	9,302		21,214	9,451
SUNY, Stony Brook U.	27	25,334	26,694	33,444	39,762	71	6,815		32,750	126
U. California, Santa Barbara	28	40,396	37,222	43,416	38,926	0	2,319		36,396	211
U. California, Davis	29	30,153	30,603	32,940	38,078	4,805	3,690		5,376	24,207
Rutgers, State U. New Jersey, New Brunswick	30	25,634	24,326	27,807	35,546	0	7,022		27,289	1,235
Stanford U.	31	20,216	21,216	30,947	35,299	0	21,971		4,292	9,036

TABLE 40

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec	
North Carolina State U.	32	27,010	25,579	30,854	34,922	11,464	140	7,457	15,861	
U. Maryland, Baltimore County	33	15,158	15,087	20,378	34,435	25,829	3,998	4,275	333	
U. North Carolina, Chapel Hill	34	19,242	16,879	23,339	34,095	0	6,770	20,908	6,417	
Princeton U.	35	23,819	29,203	29,942	33,668	16,488	8,817	0	8,363	
Pennsylvania State U., University Park and Hershey Medical Center	36	41,590	31,930	35,715	33,406	13,193	16,417	3,796	0	
Harvard U.	37	43,505	38,756	38,984	30,302	7,192	10,324	367	12,419	
Florida International U.	38	16,023	16,584	18,793	29,061	8,661	4,172	16,228	0	
Massachusetts Institute of Technology	39	32,718	30,961	29,992	28,790	11,107	9,244	4,540	3,899	
U. Southern Mississippi	40	29,843	26,110	27,927	28,664	0	7,896	5,443	15,325	
Desert Research Institute	41	22,889	22,791	24,804	27,742	7,405	20,052	0	285	
U. Maine	42	24,874	24,778	25,600	27,518	175	9,057	18,285	1	
U. Delaware	43	17,697	18,173	33,416	26,658	0	4,817	11,565	10,276	
U. Georgia	44	20,493	17,846	19,938	25,512	0	5,712	19,800	0	
U. Alabama, Huntsville	45	17,304	17,960	23,111	24,941	22,060	2,767	114	0	
U. South Florida ^c	46	24,670	19,373	22,129	24,544	406	6,979	17,159	0	
U. Illinois, Urbana-Champaign	47	6,281	5,521	6,575	23,906	7,695	16,211	0	0	
U. Wyoming	48	12,944	11,251	19,400	21,692	6,957	14,471	188	76	
U. Southern California	49	19,983	14,323	22,308	20,785	0	10,697	10,088	0	
Florida State U.	50	20,816	16,252	17,014	20,511	4,957	3,594	10,260	1,700	
U. Florida	51	17,740	16,189	18,734	19,578	0	11,811	7,767	0	
U. Michigan, Ann Arbor	52	14,928	15,080	15,865	19,164	0	19,164	0	0	
U. Nevada, Reno	53	15,077	19,030	20,831	19,059	514	17,197	769	579	
George Mason U.	54	10,679	12,577	14,205	17,068	7,549	8,533	680	306	
U. Minnesota, Twin Cities	55	14,715	13,634	13,095	16,935	0	16,935	0	0	
U. Alabama, Tuscaloosa	56	3,062	4,302	5,895	16,822	0	14,248	2,574	0	
Michigan Technological U.	57	13,896	16,272	19,663	16,557	4,329	134	9,053	3,041	
Mississippi State U.	58	17,335	15,520	16,607	16,521	1,566	7,435	7,352	168	
New Mexico Institute of Mining and Technology	58	6,729	7,309	15,847	16,521	0	16,521	0	0	
U. Massachusetts, Dartmouth	60	10,917	12,196	13,329	16,141	0	0	16,141	0	
San Jose State U.	61	13,747	14,857	16,303	16,140	2,300	769	12,385	686	
U. Kansas	62	10,485	11,923	13,717	15,975	950	15,025	0	0	
Texas A&M U.-Corpus Christi	63	11,900	12,296	14,478	15,556	684	1,761	9,784	3,327	

TABLE 40

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
SUNY, U. Albany	64	15,523	15,605	15,821	15,430	13,485	1,945	0	0
U. Hawaii, system office	65	11,853	11,591	12,125	13,598	13,401	0	0	197
U. Pittsburgh, Pittsburgh	66	10,875	9,952	11,232	13,409	0	3,517	0	9,892
Brown U.	67	5,954	7,954	9,945	13,244	577	2,468	126	10,073
Georgia Institute of Technology	68	12,904	13,998	14,771	13,138	458	12,226	454	0
Colorado School of Mines	69	8,916	5,713	9,411	13,053	50	12,253	273	477
U. California, Riverside	70	10,855	10,303	11,310	12,654	0	3,330	0	9,324
U. Houston	71	9,437	9,292	10,320	12,509	7,620	4,063	434	392
Nova Southeastern U.	72	11,436	10,973	11,526	12,274	0	26	12,248	0
U. Connecticut	73	9,186	10,483	11,254	11,951	0	1,775	10,176	0
Texas Tech U.	74	8,913	9,282	11,018	11,667	614	7,038	0	4,015
U. South Alabama	75	5,011	4,466	4,841	11,611	0	285	11,326	0
U. California, Berkeley	76	9,845	7,857	8,644	11,609	10	11,599	0	0
Montana Technological U.	77	7,825	8,222	8,666	11,289	0	11,289	0	0
U. California, Irvine	78	12,705	13,034	11,555	11,236	133	11,103	0	0
Naval Postgraduate School	79	6,566	6,591	5,148	11,189	6,620	273	4,013	283
U. Utah	80	20,011	47,024	9,233	11,126	5,647	5,479	0	0
Washington State U.	81	9,440	8,946	10,772	10,521	163	1,919	0	8,439
Boston U.	82	8,573	7,876	9,399	10,080	0	10,070	10	0
U. Chicago	83	9,090	8,854	10,117	10,053	0	10,053	0	0
Duke U.	84	9,675	7,310	8,178	9,796	0	1,742	8,054	0
Ohio State U.	85	9,158	7,979	9,228	9,777	0	9,777	0	0
Boston C.	86	5,836	7,414	9,912	9,394	7,055	2,339	0	0
U. South Carolina, Columbia	87	9,378	9,609	8,202	9,266	0	120	9,146	0
Dartmouth C. and Dartmouth Hitchcock Medical Center	88	5,241	4,607	8,933	9,202	0	9,202	0	0
Purdue U., West Lafayette	89	10,166	7,578	8,127	9,201	9,201	0	0	0
U. Wisconsin-Milwaukee	90	7,288	7,385	9,026	9,007	2,127	709	6,171	0
U. of the Virgin Islands	91	3,639	6,508	8,729	8,729	0	278	6,000	2,451
Morgan State U.	92	3,384	3,298	5,672	8,663	0	8,663	0	0
U. Oregon	93	6,704	6,060	5,895	8,392	0	6,556	1,836	0
U. North Carolina, Wilmington	94	5,206	4,311	6,351	7,843	0	92	7,043	708
U. Guam	95	2,696	5,047	6,937	7,715	0	514	6,960	241

TABLE 40

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
Tulane U.	96	4,825	4,217	4,967	7,662	0	7,662	0	0
Yale U.	97	5,916	7,021	6,411	7,593	0	7,593	0	0
Michigan State U.	98	5,435	5,695	6,532	7,557	0	7,339	0	218
U. New Mexico	99	6,924	6,727	7,336	7,551	337	7,120	94	0
Texas State U.	100	7,357	7,338	8,853	7,467	0	2,246	0	5,221
U. North Dakota	101	6,781	6,234	6,874	7,444	6,852	592	0	0
Saint Louis U.	102	1,174	2,264	3,879	7,307	476	6,831	0	0
U. Virginia, Charlottesville	103	6,040	5,356	6,392	7,041	0	0	0	7,041
Washington U., Saint Louis	104	5,509	6,083	6,678	6,986	0	6,986	0	0
U. Central Florida	105	4,008	3,951	5,319	6,932	6,932	0	0	0
Indiana U., Bloomington	106	8,053	7,960	9,084	6,894	3,689	1,542	293	1,370
East Carolina U.	107	4,586	4,564	4,751	6,772	0	2,172	4,600	0
SUNY, U. Buffalo	108	3,739	4,912	4,848	6,700	125	6,529	44	2
Rice U.	109	5,152	4,786	4,738	6,249	0	6,249	0	0
Montana State U., Bozeman	110	5,603	5,468	5,246	6,124	0	4,322	0	1,802
U. Toledo	111	5,748	5,309	5,367	6,117	0	6,024	0	93
Virginia Polytechnic Institute and State U.	112	3,068	3,534	4,652	6,047	140	5,696	36	175
U. Montana, Missoula	113	5,878	6,212	5,818	5,945	7	1,960	3,978	0
U. Nevada, Las Vegas	114	6,342	6,082	5,393	5,803	97	5,204	0	502
Cornell U.	115	8,145	6,589	6,463	5,762	29	5,446	287	0
Southern Methodist U.	116	6,100	5,367	4,956	5,716	0	5,716	0	0
Northern Arizona U.	117	7,408	6,790	5,396	5,518	198	3,889	0	1,431
Florida A&M U.	118	5,844	5,633	6,499	5,377	0	0	4,862	515
U. Idaho	119	4,933	4,803	5,991	5,351	231	5,060	0	60
Auburn U., Auburn	120	3,460	4,008	4,791	5,277	174	3,505	240	1,358
Northeastern U.	121	4,039	4,044	5,122	5,205	0	840	4,365	0
Iowa State U.	122	4,538	5,650	4,897	5,103	0	5,103	0	0
West Virginia U.	123	9,625	3,965	5,177	5,036	0	3,819	0	1,217
U. Louisiana, Lafayette	124	5,426	6,277	4,439	4,887	0	2,970	892	1,025
U. Massachusetts, Amherst	125	4,265	3,582	4,378	4,835	0	4,835	0	0
U. Texas, San Antonio	126	2,354	3,429	4,787	4,765	0	2,632	0	2,133
U. Texas, El Paso	127	3,426	3,757	4,565	4,729	0	4,719	0	10

TABLE 40

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec	
U. Vermont	128	2,716	3,237	4,278	4,650	3,052	940	0	658	
New Mexico State U.	129	5,381	5,067	4,830	4,514	338	2,270	0	1,906	
Old Dominion U.	130	4,166	3,775	3,787	4,434	0	0	4,259	175	
U. Memphis	131	5,493	4,089	4,298	4,386	8	4,322	0	56	
U. Massachusetts, Boston	132	3,848	2,960	3,666	4,352	0	2,184	2,150	18	
Boise State U.	133	3,660	3,129	2,927	4,255	71	3,391	0	793	
Oklahoma State U., Stillwater	134	2,870	3,119	3,663	4,254	0	4,250	4	0	
Baylor U.	135	2,185	2,731	3,569	4,243	2,501	1,518	148	76	
U. Washington, Tacoma	136	2,089	2,838	3,535	3,991	0	0	3,991	0	
U. Wisconsin-Superior	137	30	11	28	3,952	0	0	3,952	0	
U. Tennessee, Knoxville	138	5,322	5,062	2,609	3,939	0	3,119	0	820	
U. California, Merced	139	2,943	3,849	4,454	3,811	283	2,082	38	1,408	
Florida Gulf Coast U.	140	1,654	2,475	2,791	3,744	51	86	3,516	91	
Vanderbilt U. and Vanderbilt U. Medical Center	141	1,919	1,861	1,737	3,637	0	3,637	0	0	
Syracuse U.	142	3,060	3,005	2,463	3,549	0	3,449	0	100	
U. Kentucky	143	2,966	3,356	2,948	3,438	0	3,438	0	0	
U. Iowa	144	2,441	1,971	3,663	3,415	0	1,504	0	1,911	
U. Maryland, Eastern Shore	145	3,454	4,182	3,778	3,388	0	0	3,388	0	
U. Nebraska, Lincoln and Medical Center ^d	146	na	na	na	3,364	0	3,364	0	0	
California State U., Monterey Bay	147	1,281	1,953	2,702	3,299	54	275	2,628	342	
Emory U.	148	1,075	2,217	2,792	3,189	0	0	0	3,189	
Rutgers, State U. New Jersey, Newark	149	1,485	1,873	2,487	3,154	0	3,154	0	0	
U. Rochester	150	3,104	2,536	2,724	3,103	0	3,103	0	0	
Florida Institute of Technology	151	2,310	3,254	1,985	3,062	1,697	65	1,245	55	
San Francisco State U.	152	3,759	3,975	4,988	3,055	399	606	1,896	154	
Western Michigan U. and Homer Stryker M.D. School of Medicine	153	1,402	1,660	2,077	3,043	0	3,043	0	0	
Western Washington U.	154	3,897	3,379	3,298	3,008	0	1,804	1,204	0	
Grand Valley State U.	155	2,887	2,803	2,928	2,990	0	5	0	2,985	
U. Arkansas, Fayetteville	156	3,499	5,686	5,333	2,987	107	211	0	2,669	
San Diego State U.	157	2,234	2,158	2,900	2,911	0	1,445	1,015	451	
U. Alaska, Anchorage	158	7,339	5,735	5,286	2,790	280	680	1,830	0	
U. Texas Rio Grande Valley	159	1,769	1,649	1,981	2,766	0	360	2,277	129	

TABLE 40

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
Salisbury U.	160	891	988	882	2,719	0	877	0	1,842
U. Puerto Rico, Rio Piedras	161	3,754	3,409	2,586	2,644	0	2,344	300	0
U. North Carolina, Charlotte	162	1,009	1,054	1,077	2,523	631	1,892	0	0
Ohio U.	163	1,697	2,183	2,847	2,475	34	2,441	0	0
Utah State U.	164	511	2,146	2,173	2,460	1,148	1,312	0	0
Montclair State U.	165	1,262	1,815	2,393	2,352	0	1,844	391	117
U. Pennsylvania	166	1,760	1,929	1,856	2,293	0	2,293	0	0
U. Mississippi	167	1,151	1,306	1,614	2,219	9	1,847	335	28
Coastal Carolina U.	168	1,690	1,415	1,573	2,214	240	154	1,820	0
C. Charleston	169	1,048	1,156	2,470	2,157	142	1,441	451	123
Portland State U.	170	2,212	1,818	1,826	2,147	660	1,383	104	0
Southern Illinois U., Carbondale	171	848	1,643	1,522	2,121	0	1,137	0	984
Embry-Riddle Aeronautical U.	172	1,336	1,200	1,823	2,085	2,085	0	0	0
Bowling Green State U.	173	1,903	1,875	1,679	2,062	0	530	1,532	0
Central Washington U.	174	1,525	1,204	1,394	2,043	0	2,043	0	0
Tarleton State U.	175	3,188	3,745	2,594	2,037	0	994	0	1,043
Sonoma State U.	176	571	1,617	1,938	2,019	0	47	338	1,634
Tufts U.	177	472	377	982	2,008	0	1,963	7	38
U. Hawaii, Hilo	178	894	1,195	1,770	1,981	0	845	1,093	43
U. Puerto Rico, Mayaguez	179	5,487	2,014	4,127	1,976	0	790	1,186	0
California State U., Northridge	180	2,158	731	1,181	1,969	0	1,235	317	417
Rensselaer Polytechnic Institute	181	2,837	1,868	2,214	1,961	0	1,961	0	0
Idaho State U.	182	1,792	1,627	2,092	1,893	0	1,400	0	493
Georgia State U.	183	1,104	1,500	2,276	1,883	0	1,883	0	0
Hampton U.	184	3,454	2,881	2,576	1,880	952	0	925	3
Monmouth U.	185	1,621	1,492	1,572	1,838	0	0	1,838	0
Northwestern U.	186	1,351	1,342	1,443	1,795	0	1,795	0	0
Carleton C.	187	863	900	1,374	1,775	0	1,775	0	0
California Polytechnic State U., San Luis Obispo	188	1,105	1,106	2,006	1,768	0	0	1,768	0
SUNY, C. of Environmental Science and Forestry	189	1,211	995	1,896	1,743	58	1,224	165	296
Alaska Pacific U.	190	1,196	1,005	1,548	1,735	0	43	1,367	325
U. Missouri, Columbia	191	988	1,249	1,575	1,728	0	1,728	0	0

TABLE 40

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
CUNY, City C.	192	1,699	1,600	2,547	1,627	0	1,627	0	0
Occidental C.	193	1,086	1,201	1,416	1,621	0	189	1,432	0
Indiana U.-Purdue U., Indianapolis	194	1,272	938	1,393	1,598	0	1,598	0	0
Carnegie Mellon U.	195	448	364	736	1,549	597	918	25	9
Rowan U.	195	409	397	494	1,549	0	1,549	0	0
Northern Illinois U.	197	553	803	1,320	1,540	204	735	0	601
SUNY, Binghamton U.	197	1,916	1,636	1,789	1,540	0	1,540	0	0
U. Cincinnati	199	1,171	913	993	1,489	0	1,489	0	0
Kent State U.	200	958	1,038	1,088	1,472	131	1,031	139	171
Pennsylvania State U., Behrend	201	250	1,249	1,727	1,466	0	17	1,449	0
Delaware State U.	202	385	377	752	1,451	0	106	1,345	0
Lehigh U.	203	1,510	1,087	1,124	1,439	0	1,408	0	31
U. Massachusetts, Lowell	204	2,177	2,614	2,493	1,436	0	1,436	0	0
Clark U.	205	1,890	1,197	843	1,430	83	1,099	248	0
Brigham Young U., Provo	206	461	853	787	1,351	0	1,351	0	0
U. Illinois, Chicago	207	1,021	943	948	1,331	0	1,331	0	0
Temple U.	208	2,044	2,108	1,498	1,323	0	1,323	0	0
SUNY, Buffalo State U.	209	895	869	1,098	1,276	0	375	0	901
Air Force Institute of Technology	210	742	175	1,025	1,271	1,271	0	0	0
California State Polytechnic U., Humboldt	211	1,464	1,141	863	1,264	0	112	974	178
CUNY, Hunter C.	212	1,339	1,010	1,197	1,258	0	893	0	365
Heidelberg U.	213	1,125	1,725	1,184	1,254	0	0	1,254	0
U. Texas, Arlington	214	877	867	668	1,228	0	1,228	0	0
South Dakota State U.	215	904	801	953	1,193	0	1,193	0	0
George Washington U.	216	436	175	288	1,115	0	408	0	707
American U.	217	642	1,035	1,091	1,082	0	0	0	1,082
SUNY, C. Plattsburgh	218	824	813	905	1,078	0	167	911	0
James Madison U.	219	753	628	870	1,073	0	1,073	0	0
CUNY, Brooklyn C.	220	645	504	222	1,023	0	1,023	0	0
Lincoln U., Jefferson City	221	0	60	28	996	0	0	0	996
Appalachian State U.	222	499	357	987	986	539	447	0	0
Texas Christian U.	223	248	121	307	980	0	740	193	47

TABLE 40

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
U. Texas, Dallas	224	856	598	815	973	0	973	0	0
Stockton U.	225	2,789	885	798	964	45	0	919	0
Wesleyan U.	226	821	450	632	963	0	963	0	0
Western Kentucky U.	226	842	1,013	1,142	963	106	857	0	0
Colgate U.	228	453	677	728	960	0	765	0	195
Villanova U.	229	826	443	565	952	0	735	217	0
U. New Orleans	230	1,585	1,244	1,576	947	0	941	6	0
Central Michigan U.	231	677	557	683	933	463	259	201	10
California State U., Fullerton	232	329	229	414	902	0	518	378	6
U. Colorado Denver ^e	233	na	379	650	893	880	13	0	0
Florida Atlantic U.	234	1,186	2,013	1,332	890	377	0	0	513
Georgia Southern U.	235	719	890	642	884	0	357	458	69
Roger Williams U.	236	730	777	506	883	16	0	812	55
CUNY, Graduate Center	237	0	0	3	881	0	538	232	111
California State U., Sacramento	238	839	752	808	850	0	850	0	0
Amherst C.	239	439	567	1,265	845	0	845	0	0
Case Western Reserve U.	240	523	536	634	812	0	812	0	0
Miami U.	241	1,354	1,071	829	768	0	767	0	1
U. Dayton	242	359	465	851	743	534	209	0	0
New York U.	243	401	436	800	732	0	405	327	0
Austin Peay State U.	244	596	611	635	716	0	716	0	0
CUNY, Queens C.	245	817	402	561	680	0	680	0	0
California State U., East Bay	246	1,029	927	816	671	0	671	0	0
U. Minnesota, Duluth	247	2,480	451	528	621	0	621	0	0
Illinois State U.	248	788	591	491	620	0	620	0	0
Murray State U.	249	134	139	249	614	0	614	0	0
U. Northern Colorado	250	296	147	202	602	165	437	0	0
Middlebury C.	251	240	425	513	585	0	274	0	311
Hawaii Pacific U.	252	220	289	947	574	0	0	574	0
CUNY, Advanced Science Research Center	253	104	1,030	365	570	0	533	37	0
U. Scranton	254	ne	ne	ne	561	561	0	0	0
U. North Texas, Denton	255	2,064	1,879	687	538	0	538	0	0

TABLE 40

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
U. Wisconsin-Stevens Point	256	226	368	338	529	0	529	0	0
Savannah State U.	257	728	815	694	522	146	0	296	80
CUNY, York C.	258	527	543	953	518	0	518	0	0
California State U., Long Beach	259	514	226	399	514	0	514	0	0
Franklin and Marshall C.	259	232	119	305	514	0	428	28	58
Towson U.	261	709	481	654	508	0	508	0	0
Bowdoin C.	262	635	328	349	490	0	166	324	0
California State U., Chico	263	395	426	624	485	0	485	0	0
Western Carolina U.	264	297	314	313	484	0	98	386	0
Wright State U.	265	210	163	418	474	0	474	0	0
North Dakota State U.	266	553	680	804	472	0	471	0	1
DePaul U.	267	91	276	88	456	0	413	0	43
Marshall U.	267	258	404	239	456	0	2	0	454
Oregon Institute of Technology	269	312 i	328 i	387 i	444 i	0 i	0 i	0 i	444 i
U. New England	270	936	867	662	440	0	0	415	25
U.S. Naval Academy	271	775	649	550	439	0	0	439	0
Wellesley C.	272	161	86	169	420	0	240	180	0
Skidmore C.	273	632	320	547	394	0	394	0	0
U. Missouri, Kansas City	274	308	190	285	388	0	334	51	3
Williams C.	275	195 i	200 i	337 i	384 i	0 i	384 i	0 i	0 i
Southern Connecticut State U.	276	253	300	386	372	7	12	353	0
U. Alaska, Southeast	276	222	228	493	372	0	283	89	0
Chapman U.	278	212	304	324	364	22	50	0	292
Union C., Schenectady	279	154	252	181	344	26	316	0	2
Bryn Mawr C.	280	260	151	189	337	0	337	0	0
Spelman C.	281	0	0	0	336	336	0	0	0
SUNY, Oswego	282	73	71	64	332	64	268	0	0
Pomona C.	283	274	193	272	328	0	195	0	133
West Texas A&M U.	284	219	688	305	322	313	0	0	9
Southern Illinois U., Edwardsville	285	1,979	2,542	604	321	0	152	0	169
U. Hawaii, Maui C.	286	ne	144	ne	313	0	0	313	0
Johnson C. Smith U.	287	0	0 i	0	308	0	0	308	0

TABLE 40

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
St. Edward's U.	288	528	478	0	304	304	0	0	0
U. Wisconsin-Eau Claire	289	8	69	135	302	0	302	0	0
Hobart and William Smith Colleges	290	148	23	288	300	298	1	0	1
Kansas State U.	291	1,479	1,130	1,295	299	0	299	0	0
East Tennessee State U.	292	0 i	26 i	18 i	298	0	298	0	0
U. Washington, Bothell	293	371	405	351	293	159	48	31	55
U. South Carolina, Beaufort	294	ne	ne	ne	289	0	0	289	0
South Carolina State U.	295	213 i	234 i	256 i	278	0	278	0	0
U. San Francisco	296	106	204	374	272	150	83	0	39
Hamilton C.	297	15	1	52	270	0	270	0	0
CUNY, Baruch C.	298	198	44	102	269	0	0	269	0
North Carolina Central U.	299	321	294	234	261 i	0 i	221 i	0 i	40 i
U. Akron	299	285	467	659	261	0	261	0	0
Trinity U.	301	56	96	194	257	0	257	0	0
U. Puerto Rico, Medical Sciences Campus	302	136	265	264	250	0	250	0	0
Providence C.	303	160	144	ne	248	17	0	231	0
California State U., San Bernardino	304	87	51	75	239	0	232	7	0
Hofstra U.	304	4	53	410	239	1	7	52	179
New School	304	537	169	192	239	0	0	0	239
Macalester C.	307	390	221	223	238	0	238	0	0
Barnard C.	308	60	164	76	236	209	0	0	27
California State U., Los Angeles	308	0	23	202	236	0	236	0	0
Duquesne U.	308	584	510	886	236	0	236	0	0
California State U., San Marcos	311	47	13	123	229	0	66	163	0
Missouri State U.	312	95	177	337	228	62	166	0	0
U. Colorado Colorado Springs	313	173	141	187	227	133	65	0	29
Vassar C.	314	0	17	51	223	0	223	0	0
California State U., Fresno	315	147	379	7	221	0	221	0	0
U. of the Pacific	315	0	43	53	221	0	221	0	0
Whitman C.	315	23	ne	121	221	0	221	0	0
Wheaton C., Wheaton	318	130	81	ne	217	0	217	0	0
Texas A&M U.-Kingsville	319	849	0	242	215	0	0	0	215

TABLE 40

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
U. North Carolina, Asheville	320	84	260	96	212	90	10	0	112
U. Northern Iowa	321	142	151	129	210	0	0	0	210
Willamette U.	322	4	53	119	197	0	197	0	0
California State U., Bakersfield	323	176	134	69	194	0	194	0	0
U. San Diego	324	163	226	185	190	0	38	152	0
U. Colorado Anschutz Medical Campus ^e	325	na	212	71	183	183	0	0	0
Wayne State U.	326	296	288	193	182	0	182	0	0
Virginia Commonwealth U.	327	354	278	269	180	0	0	0	180
Indiana U. Pennsylvania	328	161	33	234	178	0	172	0	6
Middle Tennessee State U.	328	48	126	229	178	0	178	0	0
U. Nebraska, Omaha	330	18	34	56	177	0	177	0	0
C. Wooster	331	59	137	188	176	0	176	0	0
Furman U.	332	47	78	132	172	0	172	0	0
Lewis and Clark C.	333	212	280	222	171	0	167	0	4
Clarkson U.	334	59	172	112	170	0	100	70	0
U. Southern Maine	335	42	18	64	169	17	21	131	0
Minnesota State U., Mankato	336	1	13	8	168	0	168	0	0
Colorado C.	337	96	114	806	164	0	164	0	0
Central State U.	338	126	102	124	163	0	163	0	0
Wichita State U.	339	44	320	0	162	0	162	0	0
U. Texas of the Permian Basin	340	0	0	77	161	0	161	0	0
St. Mary's C. Maryland	341	ne	ne	ne	158	0	0	158	0
Eastern Michigan U.	342	172	108	139	157	0	107	50	0
Ithaca C.	343	6	114	80	154	135	19	0	0
New Mexico Highlands U.	344	189	81	116	151	0	151	0	0
Rockefeller U.	344	986	660	800	151	0	0	0	151
U. of the District of Columbia	346	41	177	183	146	0	146	0	0
U.S. Military Academy	347	98	2	26	144	0	0	0	144
Bentley U.	348	ne	ne	13	138	0	0	138	0
Indiana State U.	349	120	74	139	137	0	137	0	0
Northeast Ohio Medical U.	349	0	5	6	137	0	137	0	0
U. Tulsa	349	213	202	192	137	0	137	0	0

TABLE 40

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
U. Richmond	352	62	218	369	135	0	135	0	0
Troy U.	353	49	31	71	133	0	3	112	18
Stephen F. Austin State U.	354	177	121	62	132	0	132	0	0
U. New Haven	354	143	93	151	132	63	0	69	0
U. North Georgia	354	133	132	137	132	0	132	0	0
Kean U.	357	301	61	53	129	0	0	86	43
Smith C.	358	36	228	120	128	0	128	0	0
U. Louisiana, Monroe	359	46	64	103	127	127	0	0	0
Bucknell U.	360	12 i	10	40	126	0	126	0	0
Gustavus Adolphus C.	361	ne	ne	ne	124	0	124	0	0
U. South Carolina, Aiken	361	119	0	0	124	0	35	89	0
U. Wisconsin-Green Bay	363	90 i	82 i	114 i	121 i	0 i	121 i	0 i	0 i
Mount Holyoke C.	364	0	0	90	119	0	119	0	0
U. Texas, Tyler	364	2	0	0	119	0	24	75	20
Bates C.	366	119	37	65	118	0	118	0	0
William Paterson U.	367	579	487	328	114	6	95	0	13
St. Olaf C.	368	38	71	ne	111	30	2	79	0
U. Denver	369	168	52	96	110	29	62	0	19
Texas A&M International U.	370	84	39	53	106	0	106	0	0
U. Puerto Rico, Humacao	371	0	17	92	105	0	0	0	105
Youngstown State U.	372	2	0	2	104	0	104	0	0
Northland C.	373	ne	78 i	90 i	102 i	0 i	87 i	0 i	15 i
Colby C.	374	193	187	376	101	0	101	0	0
Northern Michigan U.	375	91	101	149	100	0	100	0	0
Utah Valley U.	376	ne	ne	140	96	0	96	0	0
California State U., Dominguez Hills	377	13	8	15	95	0	95	0	0
Illinois Institute of Technology	378	398	224	146	94	14	80	0	0
Haverford C.	379	229 i	145 i	115 i	92 i	0 i	82 i	0 i	10 i
Oberlin C.	380	93	27	ne	88	9	79	0	0
Sam Houston State U.	381	72	124	196	86	0	86	0	0
California State U., Channel Islands	382	0	0	0	82	0	0	0	82
Lafayette C.	383	8	5	13	80	0	80	0	0

TABLE 40

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
Norwich U.	384	ne	ne	ne	77	0	77	0	0
U. Central Arkansas	385	20	22	0	75	0	75	0	0
Albion C.	386	84	616 i	345 i	73	0	73	0	0
Suffolk U.	386	28	28	14	73	0	73	0	0
Fort Valley State U.	388	0	82	79	70	0	70	0	0
U. Louisville	389	180	185	166	65	36	29	0	0
U. Puget Sound	389	1	ne	42	65	10	2	0	53
West Chester U. Pennsylvania	389	65	55	31	65	0	48	17	0
Northwest Indian C.	392	43 i	52 i	60	64 i	0 i	0 i	64 i	0 i
Fordham U.	393	0	0	0	60	60	0	0	0
Long Island U.	394	345	261	372	59	0	59	0	0
Nevada State C.	394	ne	ne	82	59	0	0	0	59
SUNY, Geneseo	396	239	212	82	55	0	55	0	0
CUNY, C. Staten Island	397	0	0	25	54	0	54	0	0
Clafin U.	398	37	26	105	53	52	1	0	0
U.S. Air Force Academy	398	0	34	120	53	0	7	0	46
Tennessee Technological U.	400	60	24	14	51	0	51	0	0
Virginia State U.	401	0	8	37	45	45	0	0	0
Northeastern Illinois U.	402	50	68	54	44	44	0	0	0
CUNY, Lehman C.	403	37	20	44	43	0	43	0	0
Hope C.	403	20	59	47	43	0	43	0	0
Pennsylvania State U., Harrisburg	405	5	22	6	39	39	0	0	0
U. Wisconsin-La Crosse	405	35	18	35	39	0	39	0	0
Texas A&M U.-San Antonio	407	ne	ne	10	38	0	0	0	38
Eastern Washington U.	408	58	61	17	37	0	37	0	0
Gallaudet U.	409	10	2	0	36	0	36	0	0
Citadel Military C. South Carolina	410	0	0	0	35	8	15	12	0
Fort Lewis C.	410	56	46	3	35	0	2	0	33
Dillard U.	412	0	87	89	33	0	33	0	0
U. North Carolina, Greensboro	413	0	0	135	31	0	31	0	0
Calvin U.	414	21 i	30 i	39 i	30 i	0 i	30 i	0 i	0 i
Eastern Connecticut State U.	414	101	143	8	30	0	18	12	0

TABLE 40

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
U. Houston-Downtown	414	94	52	14	30	0	0	30	0
U. Missouri, Saint Louis	417	0	0	0	28	4	0	0	24
U. Wisconsin-Oshkosh	417	126 i	126	43	28	0	28	0	0
U. of Mary Washington	419	97	54	57	25	0	18	0	7
Andrews U.	420	45	32	ne	21	0	0	21	0
New C. Florida	420	ne	ne	ne	21	0	0	21	0
U.S. Coast Guard Academy	422	ne	ne	ne	20	7	0	13	0
Grambling State U.	423	0	0	24 i	16	16	0	0	0
Radford U.	424	ne	ne	ne	14	0	12	0	2
Loyola Marymount U.	425	489	527	13	13	0	8	0	5
Des Moines U.	426	197	459 i	600	12	0	12	0	0
Central Connecticut State U.	427	91	79	5	10	0	10	0	0
Seattle U.	427	42	54	0	10	0	10	0	0
U. North Florida	429	10	21	213	9	0	0	0	9
U. West Florida	429	875	18	92	9	0	9	0	0
St. Cloud State U.	431	217	128	12	8	0	2	0	6
Bryant U.	432	ne	ne	ne	7	7	0	0	0
Fairfield U.	433	1	0	ne	6	6	0	0	0
Lamar U.	433	0	24	0	6	0	6	0	0
U. of the Incarnate Word	433	0	0	0	6	0	6	0	0
U. Virginia's C. Wise	433	ne	0	0	6	0	6	0	0
U. of St. Thomas (MN)	437	18	222	7	5	0	5	0	0
California State Polytechnic U., Pomona	438	68	151	13	4	0	4	0	0
Claremont McKenna C.	438	29	17	4	4	0	0	0	4
U. Tennessee, Chattanooga	438	0	0	0	4	0	4	0	0
California State U., Stanislaus	441	1	13	2	2	0	2	0	0
Prairie View A&M U.	441	62	0	0	2	0	2	0	0
Tougaloo C.	441	0	0 i	0 i	2 i	1 i	0 i	1 i	0 i
Alfred U.	444	1	1	1	1	0	0	0	1
All other surveyed institutions	-	11,586	4,469	3,678	0	0	0	0	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified.

^a The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^b Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$59,300 thousand imputed for total R&D expenditures in geosciences, atmospheric sciences, and ocean sciences in FY 2023. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

^c The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

^d The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

^e The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 41

Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
All institutions	-	2,108,912	2,144,414	2,440,465	2,693,891	583,161	921,482	891,194	298,054
U. California, San Diego	1	128,962	107,137	122,993	169,439	0	23,281	146,158	0
Woods Hole Oceanographic Institution	2	115,744	129,085	129,264	154,295	32,606	64,517	47,738	9,434
U. Washington, Seattle	3	114,555	105,493	131,461	135,638	58,249	11,003	61,819	4,567
U. Colorado Boulder	4	116,177	116,175	126,188	134,584	25,653	17,360	2,617	88,954
Texas A&M U., College Station and Health Science Center	5	82,072	81,667	97,109	99,602	5,372	6,156	84,815	3,259
U. Alaska, Fairbanks	6	54,408	76,984	102,308	95,819	10,191	58,030	27,264	334
U. New Hampshire	7	41,304	44,691	74,212	92,244	31,674	6,921	53,649	0
U. Maryland ^a	8	51,008	55,924	68,050	74,204	7,474	51,376	978	14,376
Johns Hopkins U. ^b	9	59,766	73,509	90,660	67,703	10,976	28,152	21,952	6,623
U. Oklahoma, Norman and Health Science Center	10	64,742	69,382	71,650	64,382	61,619	2,739	0	24
Columbia U. in the City of New York	11	54,388	53,955	59,425	63,561	6,981	20,187	36,393	0
U. Hawaii, Manoa	12	47,728	45,399	48,908	56,127	1,658	13,958	36,240	4,271
U. Miami	13	39,430	44,559	50,038	52,297	35,033	0	16,534	730
Oregon State U.	14	33,730	37,629	41,103	50,415	1,888	13,952	22,465	12,110
Colorado State U., Fort Collins	15	55,722	46,601	44,116	48,659	43,350	4,434	101	774
U. Rhode Island	16	25,349	33,815	42,342	45,185	0	2,507	33,565	9,113
U. Wisconsin-Madison	17	35,879	35,050	38,120	44,661	31,905	7,341	0	5,415
Arizona State U.	18	54,650	49,889	47,652	41,166	125	41,006	35	0
U. California, Los Angeles	19	27,134	31,060	37,619	38,858	10,025	26,680	0	2,153
U. Maryland, Baltimore County	20	12,497	12,883	16,989	30,538	24,765	3,101	2,448	224
California Institute of Technology	21	27,071	25,067	34,882	30,338	0	26,621	0	3,717
U. Texas, Austin	22	20,523	20,837	19,312	28,880	0	21,685	3,720	3,475
Pennsylvania State U., University Park and Hershey Medical Center	23	24,605	20,062	24,690	26,986	11,231	12,225	3,530	0
U. Southern Mississippi	24	21,092	20,411	21,980	22,242	0	7,471	3,542	11,229
U. California, Santa Cruz	25	15,234	15,976	20,767	21,751	0	5,416	11,075	5,260
Princeton U.	26	16,105	21,115	20,940	21,598	14,146	2,911	0	4,541
U. Alabama, Huntsville	27	14,123	14,376	18,414	21,468	18,599	2,755	114	0
North Carolina State U.	28	13,202	12,866	14,124	20,341	10,620	113	1,791	7,817
Massachusetts Institute of Technology	29	20,477	20,764	18,567	20,269	8,839	6,230	2,878	2,322
Desert Research Institute	30	15,748	16,608	17,341	20,061	5,084	14,977	0	0

TABLE 41

Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
U. Delaware	31	10,785	11,596	19,133	19,081	0	3,216	7,708	8,157
Harvard U.	32	28,723	24,827	25,109	19,045	4,259	3,879	313	10,594
U. Arizona	33	13,625	13,788	14,396	18,827	4,298	12,967	1,098	464
William & Mary	34	12,158	12,138	15,166	16,880	0	440	16,440	0
SUNY, Stony Brook U.	35	10,824	12,214	14,178	16,828	0	4,810	12,015	3
U. North Carolina, Chapel Hill	36	12,873	11,575	14,864	16,172	0	4,159	6,507	5,506
U. Illinois, Urbana-Champaign	37	5,419	4,965	5,897	15,466	6,436	9,030	0	0
Florida International U.	38	9,463	9,569	10,615	15,441	4,039	576	10,826	0
Rutgers, State U. New Jersey, New Brunswick	39	16,060	12,836	12,612	14,997	0	2,738	11,574	685
George Mason U.	40	9,390	11,636	12,644	14,490	6,946	6,911	342	291
U. Southern California	41	9,079	8,192	13,278	13,949	0	7,892	6,057	0
U. South Florida ^c	42	10,327	9,935	12,202	13,777	406	2,002	11,369	0
U. Hawaii, system office	43	11,673	11,375	11,996	13,576	13,379	0	0	197
U. Wyoming	44	10,107	8,601	10,884	13,191	5,738	7,263	188	2
U. Alabama, Tuscaloosa	45	1,168	822	1,239	12,947	0	12,945	2	0
Mississippi State U.	46	13,635	11,429	13,476	12,719	1,087	6,179	5,340	113
Louisiana State U., Baton Rouge	47	8,178	7,740	10,240	12,616	0	1,527	9,507	1,582
Michigan Technological U.	48	8,015	9,646	12,460	12,604	4,081	39	6,386	2,098
U. California, Santa Barbara	49	16,190	16,253	17,150	12,410	0	513	11,897	0
Stanford U.	50	8,906	8,901	13,060	12,175	0	9,342	2,213	620
U. Maine	51	9,064	8,996	10,119	11,688	0	3,251	8,437	0
U. Minnesota, Twin Cities	52	7,624	8,548	8,067	11,431	0	11,431	0	0
U. Florida	53	8,484	8,334	9,729	11,348	0	8,929	2,419	0
U. California, Davis	54	7,014	5,881	9,146	10,879	1,848	2,745	2,353	3,933
Naval Postgraduate School	55	6,300	6,195	4,481	10,695	6,429	273	3,710	283
U. Michigan, Ann Arbor	56	8,059	7,910	8,308	10,505	0	10,505	0	0
Florida State U.	57	8,871	7,904	8,711	10,234	1,311	1,798	5,739	1,386
U. Pittsburgh, Pittsburgh	58	7,374	7,431	8,410	9,854	0	1,966	0	7,888
U. Chicago	59	8,514	8,384	9,530	9,341	0	9,341	0	0
U. Utah	60	11,112	30,710	1,435	9,127	4,461	4,666	0	0
U. of the Virgin Islands	61	2,990	5,241	8,544	8,544	0	157	6,000	2,387

TABLE 41

Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
U. Nevada, Reno	62	6,910	6,038	9,087	8,364	409	7,262	155	538
Morgan State U.	63	3,351	3,298	5,512	8,288	0	8,288	0	0
New Mexico Institute of Mining and Technology	64	6,328	6,427	7,855	8,266	0	8,266	0	0
U. Georgia	65	6,304	7,051	7,577	8,259	0	471	7,788	0
U. Connecticut	66	7,020	7,650	7,812	8,186	0	1,060	7,126	0
U. Maryland Center for Environmental Science	67	8,462	7,217	7,586	7,975	0	261	7,672	42
U. California, Irvine	68	9,301	9,271	8,168	7,903	0	7,903	0	0
U. South Alabama	69	2,048	1,883	2,641	7,899	0	226	7,673	0
SUNY, U. Albany	70	6,953	6,809	5,828	7,730	7,076	654	0	0
Texas A&M U.-Corpus Christi	71	3,609	3,075	4,463	7,728	427	1,431	4,678	1,192
U. Guam	72	2,585	5,001	6,841	7,610	0	436	6,933	241
Brown U.	73	3,436	5,321	6,164	7,463	443	1,134	114	5,772
Boston C.	74	3,871	5,459	7,552	7,462	5,601	1,861	0	0
U. California, Berkeley	75	5,816	5,198	6,156	7,459	0	7,459	0	0
Georgia Institute of Technology	76	7,862	7,744	8,730	7,393	0	6,969	424	0
U. Kansas	77	4,622	4,531	6,530	7,241	649	6,592	0	0
San Jose State U.	78	7,847	6,871	7,076	7,151	1,411	345	5,368	27
U. New Mexico	79	6,249	6,164	6,868	6,936	334	6,508	94	0
U. California, Riverside	80	4,821	4,764	6,008	6,910	0	2,708	0	4,202
Boston U.	81	6,447	6,053	7,310	6,716	0	6,716	0	0
U. Massachusetts, Dartmouth	82	2,680	4,040	6,132	6,699	0	0	6,699	0
Washington State U.	83	5,323	5,103	6,455	6,514	0	770	0	5,744
Colorado School of Mines	84	4,424	3,708	4,590	6,428	0	6,188	149	91
U. Oregon	85	5,073	5,371	5,204	6,186	0	5,628	558	0
Washington U., Saint Louis	86	5,000	5,585	5,869	6,169	0	6,169	0	0
Ohio State U.	87	6,489	5,685	5,813	6,142	0	6,142	0	0
Duke U.	88	6,194	5,406	5,542	6,097	0	1,150	4,947	0
Purdue U., West Lafayette	89	4,079	3,938	5,251	5,949	5,949	0	0	0
Texas Tech U.	90	3,340	4,463	6,462	5,564	333	4,128	0	1,103
Tulane U.	91	1,796	2,074	2,954	5,364	0	5,364	0	0
Florida A&M U.	92	5,329	5,255	6,246	5,183	0	0	4,686	497

TABLE 41

Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
U. Houston	93	2,948	3,418	3,403	5,045	949	3,270	434	392
Nova Southeastern U.	94	5,381	5,135	4,514	4,795	0	0	4,795	0
Rice U.	95	2,747	2,546	3,342	4,759	0	4,759	0	0
U. Virginia, Charlottesville	96	4,059	3,582	4,842	4,724	0	0	0	4,724
Cornell U.	97	6,428	4,852	5,066	4,631	3	4,380	248	0
SUNY, U. Buffalo	98	2,537	2,325	3,066	4,556	74	4,436	44	2
Northern Arizona U.	99	5,975	4,968	4,468	4,316	198	3,073	0	1,045
Southern Methodist U.	100	4,026	3,893	3,697	4,268	0	4,268	0	0
Montana State U., Bozeman	101	3,123	3,609	3,353	4,029	0	2,567	0	1,462
U. South Carolina, Columbia	102	3,889	3,288	3,255	4,012	0	0	4,012	0
Montana Technological U.	103	725	1,056	1,177	4,011	0	4,011	0	0
Virginia Polytechnic Institute and State U.	104	1,619	1,732	2,538	3,961	123	3,704	6	128
East Carolina U.	105	1,051	1,198	2,494	3,778	0	1,807	1,971	0
U. North Dakota	106	3,730	2,794	3,816	3,762	3,612	150	0	0
U. Vermont	107	1,471	1,824	2,946	3,691	2,306	840	0	545
U. Wisconsin-Superior	108	30	11	28	3,532	0	0	3,532	0
U. Nevada, Las Vegas	109	3,541	3,096	2,540	3,419	97	3,318	0	4
Michigan State U.	110	2,792	3,071	3,028	3,391	0	3,391	0	0
Northeastern U.	111	2,235	2,358	3,160	3,357	0	833	2,524	0
U. Central Florida	112	1,768	1,498	2,753	3,273	3,273	0	0	0
Indiana U., Bloomington	113	1,602	2,420	3,155	3,250	2,230	727	293	0
U. Toledo	114	3,227	3,371	2,642	3,228	0	3,228	0	0
Iowa State U.	115	2,890	2,725	3,061	3,218	0	3,218	0	0
U. Maryland, Eastern Shore	116	3,454	4,182	3,743	3,188	0	0	3,188	0
Yale U.	117	2,704	2,553	2,789	3,134	0	3,134	0	0
U. Massachusetts, Amherst	118	2,803	2,117	2,553	3,057	0	3,057	0	0
Dartmouth C. and Dartmouth Hitchcock Medical Center	119	1,203	1,085	2,054	3,046	0	3,046	0	0
U. Texas, San Antonio	120	991	2,037	2,814	2,904	0	846	0	2,058
U. Montana, Missoula	121	3,195	3,391	3,072	2,846	0	1,326	1,520	0
U. Wisconsin-Milwaukee	122	1,862	2,323	2,767	2,777	818	81	1,878	0
Boise State U.	123	2,730	2,250	2,061	2,766	34	2,079	0	653

TABLE 41

Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
U. Texas, El Paso	124	1,251	1,512	1,927	2,652	0	2,652	0	0
Old Dominion U.	125	2,793	2,096	2,057	2,642	0	0	2,559	83
New Mexico State U.	126	3,870	3,286	3,216	2,452	9	795	0	1,648
West Virginia U.	127	6,352	1,749	2,844	2,448	0	1,958	0	490
U. Idaho	128	1,662	1,924	3,065	2,410	130	2,239	0	41
U. Tennessee, Knoxville	129	2,644	2,558	1,799	2,380	0	1,959	0	421
U. Rochester	130	2,392	2,207	2,157	2,366	0	2,366	0	0
U. Arkansas, Fayetteville	131	2,460	3,326	3,266	2,351	107	211	0	2,033
U. Puerto Rico, Rio Piedras	132	3,108	2,639	1,978	2,289	0	2,026	263	0
Emory U.	133	684	1,856	1,947	2,266	0	0	0	2,266
U. Memphis	134	1,887	1,590	1,724	2,220	8	2,156	0	56
U. Washington, Tacoma	135	1,861	2,290	3,103	2,207	0	0	2,207	0
Auburn U., Auburn	136	1,003	1,675	1,743	2,077	148	904	186	839
U. Louisiana, Lafayette	137	1,050	3,772	1,843	2,029	0	1,137	892	0
Florida Institute of Technology	138	780	1,326	1,051	2,014	1,404	65	529	16
Texas State U.	139	2,870	2,168	2,759	1,984	0	893	0	1,091
Rutgers, State U. New Jersey, Newark	140	1,372	1,587	1,450	1,983	0	1,983	0	0
C. Charleston	141	857	918	2,328	1,978	142	1,360	435	41
Portland State U.	142	1,784	1,510	1,660	1,972	590	1,303	79	0
U. Alaska, Anchorage	143	6,432	4,761	4,424	1,966	267	161	1,538	0
U. California, Merced	144	1,783	1,948	2,364	1,956	160	676	38	1,082
U. Puerto Rico, Mayaguez	145	3,896	2,014	3,870	1,913	0	790	1,123	0
Hampton U.	146	3,454	2,881	2,576	1,880	952	0	925	3
Tufts U.	147	230	215	702	1,875	0	1,868	7	0
U. Kentucky	148	1,466	1,652	1,429	1,868	0	1,868	0	0
U. Mississippi	149	617	1,220	1,524	1,849	9	1,519	301	20
U. Hawaii, Hilo	150	871	1,157	1,597	1,796	0	845	916	35
Bowling Green State U.	151	1,330	1,495	1,443	1,781	0	371	1,410	0
Sonoma State U.	152	529	1,412	1,675	1,719	0	28	138	1,553
Ohio U.	153	677	1,120	1,925	1,704	7	1,697	0	0
California State U., Northridge	154	1,514	663	1,015	1,670	0	1,220	317	133

TABLE 41

Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
Carleton C.	155	670	759	1,112	1,627 i	0 i	1,627 i	0 i	0 i
San Diego State U.	156	1,093	1,091	1,792	1,615	0	349	926	340
Central Washington U.	157	1,161	1,066	1,289	1,597	0	1,597	0	0
U. Nebraska, Lincoln and Medical Center ^d	158	na	na	na	1,588	0	1,588	0	0
CUNY, City C.	159	1,578	1,460	2,024	1,578	0	1,578	0	0
Idaho State U.	160	1,248	1,136	1,460	1,467	0	1,104	0	363
Western Washington U.	161	760	1,041	1,971	1,396	0	753	643	0
U. North Carolina, Wilmington	162	1,369	1,318	1,541	1,389	0	80	1,309	0
U. Missouri, Columbia	163	924	729	930	1,388	0	1,388	0	0
Vanderbilt U. and Vanderbilt U. Medical Center	164	966	852	746	1,374	0	1,374	0	0
Syracuse U.	165	1,334	1,073	846	1,360	0	1,260	0	100
Rensselaer Polytechnic Institute	166	1,673	1,299	1,521	1,339	0	1,339	0	0
Embry-Riddle Aeronautical U.	167	807	575	1,338	1,308	1,308	0	0	0
Southern Illinois U., Carbondale	168	593	772	672	1,264	0	503	0	761
Florida Gulf Coast U.	169	1,344	1,329	1,896	1,245	51	57	1,046	91
SUNY, Buffalo State U.	170	821	834	1,061	1,220	0	373	0	847
U. Massachusetts, Boston	171	1,478	984	924	1,208	0	413	795	0
Lehigh U.	172	1,258	939	989	1,205	0	1,205	0	0
U. Texas Rio Grande Valley	173	745	605	879	1,196	0	307	783	106
California State U., Monterey Bay	174	867	837	1,021	1,166	0	105	1,061	0
U. Iowa	175	673	348	1,168	1,130	0	920	0	210
Air Force Institute of Technology	176	490	175	778	1,123	1,123	0	0	0
Carnegie Mellon U.	177	440	360	665	1,122	516	572	25	9
San Francisco State U.	178	1,755 i	1,773	1,988	1,102	0	160	789	153
Northern Illinois U.	179	375	676	805	1,058	162	591	0	305
California Polytechnic State U., San Luis Obispo	180	963	973	1,249	1,038	0	0	1,038	0
Indiana U.-Purdue U., Indianapolis	181	679	583	972	1,019	0	1,019	0	0
Utah State U.	182	67	690	867	1,018	300	718	0	0
Baylor U.	183	496	408	873	985	503	279	140	63
Oklahoma State U., Stillwater	184	763	801	949	973	0	969	4	0
South Dakota State U.	185	602	604	721	936	0	936	0	0

TABLE 41

Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
Northwestern U.	186	730	782	835	929	0	929	0	0
U. Cincinnati	187	304	303	506	896	0	896	0	0
U. Colorado Denver ^e	188	na	330	642	887	876	11	0	0
Coastal Carolina U.	189	998	509	478	880	235	147	498	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	190	346	453	582	800	0	800	0	0
U. Massachusetts, Lowell	191	1,399	1,789	1,672	792	0	792	0	0
Georgia State U.	192	575	682	912	782	0	782	0	0
California State U., Sacramento	193	716	700	672	747	0	747	0	0
U. Illinois, Chicago	194	567	553	582	731	0	731	0	0
U. Dayton	195	352	461	798	728	534	194	0	0
Grand Valley State U.	196	287	331	484	697	0	0	0	697
Roger Williams U.	197	369	466	314	687	8	0	679	0
U. North Carolina, Charlotte	198	666	573	673	675	0	675	0	0
Case Western Reserve U.	199	478	493	572	667	0	667	0	0
Colgate U.	200	295	580	501	658	0	606	0	52
Central Michigan U.	201	177	316	582	647	323	118	196	10
Occidental C.	202	630	510	570	645	0	87	558	0
SUNY, C. Plattsburgh	203	391	400	446	634	0	167	467	0
U. Pennsylvania	204	872	749	542	625	0	625	0	0
Delaware State U.	205	215	247	615	590	0	106	484	0
U. New Orleans	206	897	680	1,005	582	0	577	5	0
Middlebury C.	207	239	413	509	581	0	270	0	311
Saint Louis U.	207	774	278	224	581	392	189	0	0
Miami U.	209	872	496	616	568	0	567	0	1
U. Scranton	210	ne	ne	ne	555	555	0	0	0
Wesleyan U.	211	531	322	470	547	0	547	0	0
Alaska Pacific U.	212	83	158	522	539	0	43	171	325
American U.	212	216	493	604	539	0	0	0	539
Montclair State U.	214	499	508	723	537	0	348	119	70
Villanova U.	215	460	162	165	528	0	311	217	0
Monmouth U.	216	109	86	294	527	0	0	527	0

TABLE 41

Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
Savannah State U.	217	728	815	694	522	146	0	296	80
Kent State U.	218	439	296	357	520	124	389	0	7
SUNY, C. of Environmental Science and Forestry	219	493	551	583	518	57	147	117	197
Towson U.	220	667	481	554	506	0	506	0	0
Illinois State U.	221	394	381	394	504	0	504	0	0
Murray State U.	222	19	35	131	486	0	486	0	0
Florida Atlantic U.	223	307	638	348	482	317	0	0	165
CUNY, York C.	224	462	472	888	479	0	479	0	0
Clark U.	225	306	271	534	470	66	157	247	0
DePaul U.	226	76	246	88	456	0	413	0	43
Pennsylvania State U., Behrend	227	104	706	573	443	0	17	426	0
U.S. Naval Academy	228	771	613	516	438	0	0	438	0
Temple U.	229	410	449	458	431	0	431	0	0
Appalachian State U.	230	242	144	132	429	0	429	0	0
U. Minnesota, Duluth	231	1,609	199	277	427	0	427	0	0
California State U., Chico	232	395	414	590	424	0	424	0	0
Brigham Young U., Provo	233	122	287	537	420	0	420	0	0
California State U., Long Beach	234	492	220	370	406	0	406	0	0
Hawaii Pacific U.	234	183	252	793	406	0	0	406	0
California State U., Fullerton	236	145	94	136	402	0	250	152	0
Bowdoin C.	237	493	310	230	397	0	155	242	0
George Washington U.	238	243	59	190	392	0	29	0	363
Georgia Southern U.	239	115	253	199	388	0	94	294	0
CUNY, Hunter C.	240	219	162	251	365	0	0	0	365
Amherst C.	241	0	41	251	353	0	353	0	0
U. Northern Colorado	242	247	120	151	347	8	339	0	0
Texas Christian U.	243	197	121	258	346	0	126	173	47
CUNY, Queens C.	244	322	251	295	342	0	342	0	0
Western Carolina U.	244	255	233	226	342	0	27	315	0
Spelman C.	246	0	0	0	336	336	0	0	0
West Texas A&M U.	247	62	676	305	322	313	0	0	9

TABLE 41

Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
Marshall U.	248	201	233	170	320	0	0	0	320
Southern Illinois U., Edwardsville	249	461	546	587	316	0	147	0	169
Union C., Schenectady	249	130	198	158	316	0	316	0	0
Johnson C. Smith U.	251	0	0	0	308	0	0	308	0
SUNY, Oswego	251	43	58	55	308	55	253	0	0
U. Alaska, Southeast	253	145	176	393	298	0	272	26	0
U. Missouri, Kansas City	254	151	96	208	281	0	281	0	0
Lincoln U., Jefferson City	255	0	60	28	278	0	0	0	278
South Carolina State U.	255	213	234	256	278	0	278	0	0
U. Texas, Dallas	257	163	128	316	277	0	277	0	0
Hobart and William Smith Colleges	258	127	19	237	270	270	0	0	0
CUNY, Advanced Science Research Center	259	56	877	172	267	0	232	35	0
U. Washington, Bothell	259	371	331	351	267	145	48	24	50
Rowan U.	261	227	158	136	253	0	253	0	0
U. Puerto Rico, Medical Sciences Campus	262	136	265	264	250	0	250	0	0
Providence C.	263	124	144	ne	243	17	0	226	0
New School	264	414	143	131	239	0	0	0	239
California State U., Los Angeles	265	0	23	202	236	0	236	0	0
U. San Francisco	266	67	113	179	227	115	73	0	39
Western Kentucky U.	267	254	284	470	226	36	190	0	0
U. of the Pacific	268	0	43	53	221	0	221	0	0
U. New England	269	681	411	278	217	0	0	215	2
U. Hawaii, Maui C.	270	ne	144	ne	214	0	0	214	0
Wellesley C.	271	154	77	157	212	0	212	0	0
California State U., San Bernardino	272	86	51	61	210	0	210	0	0
Barnard C.	273	45	156	70	209	209	0	0	0
Macalester C.	274	268	172	142	206	0	206	0	0
SUNY, Binghamton U.	274	196	207	215	206	0	206	0	0
North Carolina Central U.	276	264	171	185	205	0	205	0	0
California State U., East Bay	277	63	70	249	202	0	202	0	0
Heidelberg U.	278	188	308	262	197	0	0	197	0

TABLE 41

Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
California State U., Fresno	279	116	371	0	193	0	193	0	0
U. Colorado Colorado Springs	280	150	127	150	190	113	65	0	12
Hofstra U.	281	3	50	222	188	0	0	50	138
New York U.	281	133	71	148	188	0	188	0	0
Chapman U.	283	206	242	258	186	0	50	0	136
Vassar C.	284	0	0	2	183	0	183	0	0
Missouri State U.	285	72	146	280	179	55	124	0	0
James Madison U.	286	508	125	79	168	0	168	0	0
Lewis and Clark C.	287	164	278	208	167	0	167	0	0
Trinity U.	288	3	14	90	164	0	164	0	0
Central State U.	289	125	102	124	163	0	163	0	0
U. Akron	290	202	194	554	162	0	162	0	0
C. Wooster	291	21	107	i 155	154	0	154	0	0
North Dakota State U.	292	139	164	355	153	0	152	0	1
U. Wisconsin-Stevens Point	292	3	57	37	153	0	153	0	0
New Mexico Highlands U.	294	189	81	i 116	i 151	0	151	0	0
U. Southern Maine	295	0	7	39	148	17	0	131	0
U. of the District of Columbia	296	41	82	95	146	0	146	0	0
U. Wisconsin-Eau Claire	297	4	5	35	143	0	143	0	0
Bentley U.	298	ne	ne	13	138	0	0	138	0
Minnesota State U., Mankato	298	0	6	5	138	0	138	0	0
U.S. Military Academy	298	98	2	25	138	0	0	0	138
Wright State U.	298	127	104	132	138	0	138	0	0
Colorado C.	302	52	96	440	132	0	132	0	0
Indiana State U.	302	103	73	125	132	0	132	0	0
Salisbury U.	304	91	57	89	131	0	0	0	131
Oregon Institute of Technology	305	56	24	i 32	i 129	i 0	i 0	i 0	i 129
Kansas State U.	306	627	444	501	128	0	128	0	0
Middle Tennessee State U.	307	0	0	0	127	0	127	0	0
St. Mary's C. Maryland	307	ne	ne	ne	127	0	0	127	0
U. Louisiana, Monroe	307	39	61	103	127	127	0	0	0

TABLE 41

Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
Hamilton C.	310	6	0	49	126	0	126	0	0
Wheaton C., Wheaton	310	116	76	ne	126	0	126	0	0
Indiana U. Pennsylvania	312	107	32	229	123	0	117	0	6
Willamette U.	312	0	0	85	123	0	123	0	0
Whitman C.	314	0	ne	107	121	0	121	0	0
U. North Georgia	315	55	59	62	119	0	119	0	0
California State U., Bakersfield	316	118	40	47	117	0	117	0	0
Austin Peay State U.	317	52	136	206	115	0	115	0	0
Northeast Ohio Medical U.	317	0	0	0	115	0	115	0	0
Williams C.	319	99 i	105 i	97 i	110 i	0 i	110 i	0 i	0 i
U. South Carolina, Aiken	320	119	0	0	107	0	21	86	0
U. Puerto Rico, Humacao	321	0	17	92	105	0	0	0	105
U. North Carolina, Asheville	322	36	93	96	100	90	10	0	0
Utah Valley U.	323	ne	ne	140	96	0	96	0	0
Illinois Institute of Technology	324	356	217	142	94	14	80	0	0
U. South Carolina, Beaufort	324	ne	ne	ne	94	0	0	94	0
Eastern Michigan U.	326	18	64	47	92	0	59	33	0
Tarleton State U.	326	428	431	219	92	0	92	0	0
Colby C.	328	175	144	349	85	0	85	0	0
U. Denver	328	145	31	47	85	23	62	0	0
U. Richmond	328	43	217	365	85	0	85	0	0
Bates C.	331	91	26	41	83	0	83	0	0
California State U., San Marcos	331	0	0	0	83	0	66	17	0
Stockton U.	333	578	239	420	82	45	0	37	0
U. Texas, Arlington	333	322	254	251	82	0	82	0	0
William Paterson U.	333	414	309	144	82	6	63	0	13
CUNY, Brooklyn C.	336	18	13	102	79	0	79	0	0
California State Polytechnic U., Humboldt	337	450	334	139	78	0	54	24	0
Furman U.	338	7	33	99	77	0	77	0	0
Northern Michigan U.	338	81	100	141	77	0	77	0	0
Sam Houston State U.	340	0	85	118	75	0	75	0	0

TABLE 41

Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
U. Colorado Anschutz Medical Campus ^e	340	na	212	19	75	75	0	0	0
U. Texas, Tyler	340	0	0	0	75	0	0	75	0
St. Olaf C.	343	0	13	ne	73	30	0	43	0
Suffolk U.	343	28	28	14	73	0	73	0	0
U. Central Arkansas	343	0	0	0	73	0	73	0	0
Northland C.	346	ne	56 i	63 i	71 i	0 i	61 i	0 i	10 i
Clarkson U.	347	21	77	9	70	0	0	70	0
Fort Valley State U.	347	0	18	79	70	0	70	0	0
U. Texas of the Permian Basin	349	0	0	0	69	0	69	0	0
St. Edward's U.	350	409	359	0	68	68	0	0	0
U. Wisconsin-Green Bay	351	53 i	48 i	57 i	67 i	0 i	67 i	0 i	0 i
Pomona C.	352	103	42	108	66	0	66	0	0
Gustavus Adolphus C.	353	ne	ne	ne	65	0	65	0	0
Northwest Indian C.	354	43 i	52 i	60	64 i	0 i	0 i	64 i	0 i
U. Puget Sound	355	0	ne	41	63	10	0	0	53
U. New Haven	356	104	80	128	62	62	0	0	0
Virginia Commonwealth U.	357	280	200	164	59	0	0	0	59
Lafayette C.	358	0	0	0	57	0	57	0	0
Duquesne U.	359	290	241	470	54	0	54	0	0
Southern Connecticut State U.	359	1	63	23	54	7	0	47	0
U. Tulsa	359	76	151	92	54	0	54	0	0
Clafin U.	362	37	26	105	53	52	1	0	0
Mount Holyoke C.	362	0	0	0	53	0	53	0	0
Wayne State U.	362	129	63	132	53	0	53	0	0
U. Nebraska, Omaha	365	0	16	15	52	0	52	0	0
Norwich U.	366	ne	ne	ne	51	0	51	0	0
Texas A&M International U.	367	19	0	0	50	0	50	0	0
Smith C.	368	0	5	5	47	0	47	0	0
SUNY, Geneseo	368	104	115	68	47	0	47	0	0
U. Louisville	370	169	171	138	46	36	10	0	0
U.S. Air Force Academy	370	0	34	97	46	0	0	0	46

TABLE 41

Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
Virginia State U.	372	0	8	37	45	45	0	0	0
Northeastern Illinois U.	373	50	68	54	44	44	0	0	0
U. San Diego	374	152	101	134	43	0	0	43	0
Bryn Mawr C.	375	0	0	0	40	0	40	0	0
Pennsylvania State U., Harrisburg	376	3	22	3	39	39	0	0	0
Texas A&M U.-San Antonio	377	ne	ne	7	38	0	0	0	38
Eastern Washington U.	378	58	46	16	37	0	37	0	0
Citadel Military C. South Carolina	379	0	0	0	35	8	15	12	0
Dillard U.	380	0	87	89	33	0	33	0	0
Tennessee Technological U.	381	22	21	13	31	0	31	0	0
U. North Carolina, Greensboro	381	0	0	121	31	0	31	0	0
Nevada State C.	383	ne	ne	82	26	0	0	0	26
Rockefeller U.	383	466	334	524	26	0	0	0	26
CUNY, Baruch C.	385	137	8	0	24	0	0	24	0
Albion C.	386	0	26	25	23	0	23	0	0
CUNY, Lehman C.	387	35	0	44	19	0	19	0	0
Oberlin C.	387	51	25	ne	19	9	10	0	0
Troy U.	389	47	31	67	18	0	0	0	18
U. of Mary Washington	389	38	29	28	18	0	18	0	0
Grambling State U.	391	0	0	24	16	16	0	0	0
Skidmore C.	391	577	202	157	16	0	16	0	0
CUNY, Graduate Center	393	0	0	3	15	0	15	0	0
Eastern Connecticut State U.	394	0	0	6	12	0	0	12	0
Seattle U.	395	42	54	0	10	0	10	0	0
Stephen F. Austin State U.	395	1	0	23	10	0	10	0	0
Haverford C.	397	103	79	31	9	0	9	0	0
U. North Florida	397	0	11	25	9	0	0	0	9
Loyola Marymount U.	399	32	24	5	8	0	8	0	0
Bryant U.	400	ne	ne	ne	7	7	0	0	0
U. of the Incarnate Word	401	0	0	0	6	0	6	0	0
U. Virginia's C. Wise	401	ne	0	0	6	0	6	0	0

TABLE 41

Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
Hope C.	403	0	18	0	5	0	5	0	0
U. of St. Thomas (MN)	403	0	222	7	5	0	5	0	0
Claremont McKenna C.	405	29	17	4	4	0	0	0	4
St. Cloud State U.	405	0	0	0	4	0	0	0	4
U.S. Coast Guard Academy	407	ne	ne	ne	3	0	0	3	0
Des Moines U.	408	1	285	444	2	0	2	0	0
Fort Lewis C.	408	34	24	3	2	0	2	0	0
Prairie View A&M U.	408	5	0	0	2	0	2	0	0
U. Wisconsin-Oshkosh	408	115	114	24	2	0	2	0	0
Alfred U.	412	1	1	1	1	0	0	0	1
Franklin and Marshall C.	412	37	0	2	1	0	0	0	1
West Chester U. Pennsylvania	412	0	0	0	1	0	1	0	0
All other surveyed institutions	-	9,907	3,514	2,635	0	0	0	0	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified.

^a The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^b Johns Hopkins University includes the Applied Physics Laboratory, with \$56,171 thousand in federally financed R&D expenditures in geosciences, atmospheric sciences, and ocean sciences in FY 2023.

^c The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

^d The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

^e The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 42

Higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
All institutions	-	49,615,561	52,350,164	56,475,813	62,204,360	4,285,689	19,526,385	35,724,571	1,079,516	1,588,199
U. California, San Francisco	1	1,581,411	1,639,862	1,734,339	1,978,891	0	3,559	1,975,332	0	0
U. Pennsylvania	2	1,185,719	1,243,966	1,364,745	1,497,834	1,109	1,053,560	412,203	0	30,962
Duke U.	3	990,897	1,040,786	1,174,640	1,266,314	0	317,434	922,346	9,756	16,778
Johns Hopkins U. ^a	4	1,047,668 i	1,069,865 i	1,179,546 i	1,264,589 i	0 i	379,802 i	884,787 i	0 i	0 i
U. California, Los Angeles	5	989,602	1,053,540	1,110,788	1,222,724	0	39,697	1,183,024	0	3
U. Pittsburgh, Pittsburgh	6	954,315	983,251	1,082,521	1,205,739	531	364,789	840,307	0	112
U. Washington, Seattle	7	963,264	1,013,261	1,045,014	1,175,596	150	358,634	772,288	26,473	18,051
U. Texas M. D. Anderson Cancer Center	8	981,164	1,056,727	1,104,846	1,166,465	28,775	353,135	784,555	0	0
Yale U.	9	944,439	1,012,626	1,044,120	1,154,182	0	245,250	899,612	9,041	279
U. North Carolina, Chapel Hill	10	868,276	925,380	1,020,666	1,141,727	0	231,074	910,610	43	0
Stanford U.	11	836,401	905,150	999,214	1,119,445	0	280,092	795,985	1,985	41,383
U. Michigan, Ann Arbor	12	967,660	931,174	1,018,062	1,116,866	2,872	298,094	739,926	24,573	51,401
New York U.	13	643,638	771,663	909,144	1,065,030	0	338,972	723,188	0	2,870
U. Wisconsin-Madison	14	839,302	861,558	952,068	1,058,529	144,969	347,583	560,021	1,009	4,947
U. California, San Diego	15	828,401	827,370	915,619	1,043,913	0	68,124	975,237	552	0
Washington U., Saint Louis	16	824,978	887,653	938,655	1,043,446	0	424,528	618,911	7	0
Cornell U.	17	822,419	833,824	929,175	1,020,982	124,227	347,213	509,376	25,621	14,545
Emory U.	18	732,893	789,831	874,729	998,674	4	252,403	721,234	0	25,033
Columbia U. in the City of New York	19	744,239	797,089	893,199	980,046	0	272,728	702,609	3,842	867
Ohio State U.	20	590,076	876,239	897,954	977,520	82,811	132,029	744,235	13,189	5,256
Icahn School of Medicine at Mount Sinai	21	747,014	820,260	893,968	972,476	0	458,822	513,654	0	0
Vanderbilt U. and Vanderbilt U. Medical Center	22	625,549	806,323	846,605	958,220	0	221,265	729,531	0	7,424
U. Minnesota, Twin Cities	23	722,074	760,975	864,018	948,410	88,091	138,086	657,293	57,494	7,446
U. Florida	24	688,091	706,987	797,710	922,704	238,803	230,400	430,438	23,063	0
Baylor C. of Medicine	25	685,641	716,976	827,005	847,305	0	399,742	447,563	0	0
Northwestern U.	26	619,270	659,195	721,230	816,739	0	205,479	596,679	0	14,581
U. Texas Southwestern Medical Center	27	595,939	632,134	719,002	800,391	0	221,855	540,934	0	37,602
Harvard U.	28	684,127	714,069	741,297	793,236	0	647,908	140,426	4,068	834
U. Southern California	29	580,982	598,925	680,873	744,073	0	382,074	342,531	0	19,468
U. Alabama, Birmingham	30	542,308	571,525	653,373	721,450	0	198,509	522,941	0	0
U. Maryland ^b	31	594,114	633,517	655,867	719,375	68,319	202,787	442,549	2,515	3,205
U. California, Davis	32	597,962	590,027	626,320	682,290	170,896	228,212	283,182	0	0

TABLE 42

Higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023						
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec	
U. Colorado Anschutz Medical Campus ^c	33	na	559,348	606,860	676,151	827	7,738		667,024	0	562
Indiana U., Bloomington	34	502,210	501,125	550,148	623,240	0	148,161		472,182	0	2,897
Rutgers, State U. New Jersey, New Brunswick	35	518,906	483,265	521,311	619,096	65,222	246,404		293,805	2,392	11,273
U. Cincinnati	36	440,721	456,847	508,639	567,982	0	66,301		481,243	0	20,438
U. Arizona	37	437,147	447,584	471,046	522,916	66,914	241,895		199,768	14,324	15
Oregon Health and Science U.	38	433,917	439,212	463,631	502,768	0	28,310		312,876	214	161,368
Scripps Research Institute	39	444,964	485,435	492,639	494,946	0	494,946		0	0	0
Boston U.	40	373,079	445,535	485,379	486,968	0	211,743		275,110	0	115
U. Iowa	41	414,459	415,734	431,761	478,820	0	148,336		327,000	0	3,484
Texas A&M U., College Station and Health Science Center	42	502,372	487,219	435,563	464,675	234,915	111,681		94,371	18,959	4,749
Case Western Reserve U.	43	384,857	360,294	406,880	462,781	0	105,990		333,191	0	23,600
U. Utah	44	402,001	i 420,965	i 379,462	453,037	0	28,019		409,503	0	15,515
Uniformed Services U. of the Health Sciences	45	316,838	366,610	257,828	448,540	0	4,784		443,756	0	0
U. Virginia, Charlottesville	46	420,679	402,376	432,700	418,932	4	151,637		267,291	0	0
U. Nebraska, Lincoln and Medical Center ^d	47	na	na	na	413,555	106,723	145,976		137,215	20,777	2,864
U. Miami	48	302,160	297,764	342,103	398,810	0	93,560		298,538	1,824	4,888
U. Chicago	49	302,820	336,114	384,527	395,289	0	91,330		303,959	0	0
U. Kentucky	50	322,077	323,030	352,400	381,193	66,265	216,881		98,047	0	0
Michigan State U.	51	319,883	317,235	347,119	377,253	142,085	126,462		76,888	15,616	16,202
U. Texas Health Science Center, Houston	52	273,862	308,823	342,633	374,105	0	66,009		172,565	0	135,531
U. California, Irvine	53	289,422	315,900	318,016	369,735	0	152,147		217,588	0	0
Rockefeller U.	54	337,377	339,729	344,493	369,447	0	354,022		15,425	0	0
U. Illinois, Chicago	55	314,296	324,053	325,514	347,162	0	89,704		256,515	943	0
Pennsylvania State U., University Park and Hershey Medical Center	56	291,299	291,733	319,598	346,482	76,450	110,439		144,332	15,261	0
U. Georgia	57	302,667	309,153	334,447	343,271	132,030	169,728		36,426	1,022	4,065
Medical C. Wisconsin	58	255,783	269,290	301,817	338,863	0	104,865		233,998	0	0
Albert Einstein C. of Medicine	59	288,654	301,715	318,314	336,238	0	0		336,238	0	0
Medical U. South Carolina	60	272,590	277,761	284,553	333,826	i 0	i 73,477	i	108,793	i 0	i 151,556
U. Massachusetts, Medical School	61	279,096	347,337	358,204	326,731	0	157,353		118,862	0	50,516
Virginia Commonwealth U.	62	206,550	233,486	272,134	320,557	0	81,364		214,270	0	24,923
Colorado State U., Fort Collins	63	231,734	288,731	289,050	313,226	68,745	74,873		29,427	136,031	4,150
U. Missouri, Columbia	64	220,890	237,728	283,404	309,601	122,054	51,453		114,187	20,041	1,866
U. Rochester	65	259,224	271,630	291,673	304,786	0	71,596		233,190	0	0

TABLE 42

Higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Wake Forest U.	66	236,154	253,797	253,966	291,310	0	5,132	286,149	29	0
U. California, Berkeley	67	258,228	264,394	275,739	290,429	6,615	140,918	64,238	78,657	1
North Carolina State U.	68	240,399	237,289	262,669	284,651	141,251	131,103	0	0	12,297
Purdue U., West Lafayette	69	243,953	237,182	254,784	282,174	147,520	30,264	103,811	0	579
U. Texas Health Science Center, San Antonio	70	202,572	219,734	238,510	281,078	0	95,103	158,518	0	27,457
SUNY, U. Buffalo	71	241,467	254,314	257,060	263,888	563	105,597	156,207	0	1,521
U. Kansas	72	226,786	230,059	237,780	258,443	0	46,438	195,349	3,261	13,395
Thomas Jefferson U.	73	171,207	200,309	246,129	258,291	0	101,200	157,091	0	0
U. Illinois, Urbana-Champaign	74	241,661	258,253	270,361	245,437	81,241	107,346	7,433	49,417	0
U. South Florida ^e	75	164,666	184,291	203,592	232,123	0	111,401	119,355	53	1,314
Temple U.	76	216,388	223,136	223,126	227,767	0	34,273	104,767	0	88,727
U. Texas Medical Branch	77	179,403	184,500	202,875	225,795	0	177,578	48,217	0	0
U. Connecticut	78	157,618	175,232	220,304	222,563	15,498	93,727	97,728	7,435	8,175
Virginia Polytechnic Institute and State U.	79	199,798	207,204	223,775	221,029	84,682	45,172	51,779	28,412	10,984
Washington State U.	80	196,649	211,107	211,742	220,515	105,370	43,833	63,075	4,426	3,811
Tulane U.	81	161,642	164,874	179,205	209,699	0	53,913	54,390	761	100,635
U. Arkansas for Medical Sciences	82	174,549	194,709	205,493	209,409	0	62,081	146,264	0	1,064
U. New Mexico	83	148,158	243,730	230,657	204,109	17	32,536	168,318	3,049	189
Georgetown U.	84	155,197	183,629	190,912	198,724	0	13,318	182,374	0	3,032
U. Texas, Austin	85	130,377	148,471	156,202	188,258	167	83,405	94,347	5,220	5,119
George Washington U.	86	179,803	180,965	184,091	186,518	0	75,627	109,594	0	1,297
Wayne State U.	87	182,757	175,847	183,074	182,874	0	28,196	151,640	0	3,038
Louisiana State U., Baton Rouge	88	155,187	158,608	173,539	181,370	94,162	75,146	1,532	10,530	0
Arizona State U.	89	103,558	111,790	141,306	179,408	130	108,327	50,218	6,252	14,481
Dartmouth C. and Dartmouth Hitchcock Medical Center	90	170,704	163,702	171,185	179,246	0	93,530	84,151	1,523	42
Brown U.	91	134,751	139,126	149,795	176,938	0	70,926	61,080	0	44,932
Oregon State U.	92	143,505	151,779	162,192	175,883	90,915	43,176	10,346	31,156	290
U. Oklahoma, Norman and Health Science Center	93	164,967	165,745	176,123	174,395	0	42,895	130,968	0	532
Iowa State U.	94	123,853	142,283	160,235	172,991	85,524	46,701	0	0	40,766
U. Louisville	95	158,677	157,735	185,107	171,778	119	62,107	98,442	44	11,066
U. Vermont	96	142,081	142,622	158,896	167,760	30,263	59,063	69,915	8,519	0
West Virginia U.	97	108,264	124,894	135,260	153,092	16,080	40,246	83,852	11,010	1,904
Auburn U., Auburn	98	110,768	111,491	128,578	147,192	81,428	24,327	27,593	2,238	11,606

TABLE 42

Higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Mississippi State U.	99	119,753	127,096	140,283	145,647	108,551	11,824	2,029	20,906	2,337
Tufts U.	100	136,826	149,664	134,584	138,203	4,674	104,627	16,148	10,100	2,654
SUNY, Stony Brook U.	101	121,070	127,257	139,641	136,089	0	63,418	72,671	0	0
Augusta U.	102	103,554	115,862	123,587	134,668	0	41,090	89,163	0	4,415
U. Hawaii, Manoa	103	123,649	123,962	122,760	133,335	18,600	66,938	39,684	1,689	6,424
Kansas State U.	104	127,024	119,328	124,308	129,457	103,613	23,719	2,125	0	0
U. Tennessee, Health Science Center	105	98,345	107,620	113,398	128,251	0	40,611	84,104	0	3,536
Rush U.	106	92,494	104,999	111,165	128,200	0	16,566	111,634	0	0
Princeton U.	107	91,903	95,938	112,932	128,054	0	112,622	0	15,432	0
Massachusetts Institute of Technology	108	126,648	118,283	128,090	127,959	801	49,814	34,612	836	41,896
North Dakota State U.	109	101,693	106,163	115,027	122,001	96,881	5,733	9,502	9,795	90
Cold Spring Harbor Laboratory	110	115,051	114,885	118,034	117,483	2,938	114,545	0	0	0
U. Tennessee, Knoxville	111	84,619	86,080	100,488	110,556	54,420	36,768	9,423	9,914	31
U. South Carolina, Columbia	112	93,409	84,069	97,376	108,934	0	23,497	85,437	0	0
U. California, Riverside	113	95,431	98,539	107,118	108,803	25,563	63,568	19,672	0	0
U. Mississippi	114	86,130	82,916	93,555	106,290	426	26,272	78,100	0	1,492
California Institute of Technology	115	89,626	100,754	98,580	102,066	0	102,066	0	0	0
Touro U., New York ^f	116	ne	ne	ne	100,542	0	99,676	866	0	0
U. Louisiana, Lafayette	117	87,621	80,528	89,731	98,792	1,433	73,783	21,586	1,990	0
U. Arkansas, Fayetteville	118	77,569	79,509	92,217	96,316	72,798	8,563	174	12,228	2,553
Drexel U.	119	89,027	96,668	87,434	94,232	0	43,441	48,152	2,639	0
U. North Texas, Health Science Center	120	41,900	50,692	71,775	93,494	0	7,742	85,752	0	0
U. Idaho	121	73,933	73,435	78,351	93,469	52,219	25,376	438	15,422	14
Oklahoma State U., Stillwater	122	75,506	77,720	77,513	92,203	34,453	29,350	12,631	15,769	0
U. Delaware	123	66,097	60,823	81,458	89,502	34,194	17,302	38,006	0	0
Georgia State U.	124	66,831	65,536	73,616	84,391	0	71,207	11,730	0	1,454
Clemson U.	125	71,776	66,524	72,699	81,964	29,632	31,352	4,455	21	16,504
U. Montana, Missoula	126	66,817	72,501	76,032	81,610	421	25,568	35,268	20,353	0
Montana State U., Bozeman	127	71,440	74,897	82,986	81,492	54,025	15,576	11,100	156	635
Van Andel Research Institute	128	58,982	65,789	78,626	80,748	0	80,748	0	0	0
U. Massachusetts, Amherst	129	64,246	69,519	77,193	79,726	23,426	26,929	13,087	9,541	6,743
U. Nevada, Reno	130	71,378	78,218	78,928	77,346	8,697	35,893	20,603	10,188	1,965
Florida State U.	131	64,315	61,377	67,760	75,107	104	24,154	45,584	3,982	1,283

TABLE 42

Higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Texas Tech U.	132	49,230	55,930	65,627	74,439	44,566	16,883	6,749	6,241	0
Florida International U.	133	55,877	55,462	67,166	71,169	76	50,113	17,697	3,283	0
Louisiana State U., Health Sciences Center, New Orleans	134	43,419	44,370	53,995	68,707	0	1,737	56,216	0	10,754
Utah State U.	135	56,017	56,043	60,940	66,338	35,549	9,477	1,306	20,006	0
U. Oregon	136	35,936	56,791	67,072	63,107	0	40,483	345	392	21,887
U. Colorado Boulder	137	52,074	53,211	56,184	61,853	1,466	53,109	4,666	1,804	808
U. Puerto Rico, Medical Sciences Campus	138	37,081	43,846	47,314	60,985	0	0	60,985	0	0
U. Wyoming	139	47,073	43,538	52,377	57,427	18,589	21,047	7,519	8,336	1,936
Morehouse School of Medicine	140	29,813	32,637	42,489	57,125	0	0	57,125	0	0
Saint Louis U.	141	58,836	65,928	66,726	56,051	0	20,068	35,488	0	495
New Mexico State U.	142	43,340	48,808	53,389	55,765	37,545	16,067	1,106	103	944
SUNY, U. Albany	143	60,025	52,135	49,048	55,543	0	33,695	21,848	0	0
South Dakota State U.	144	49,659	38,411	44,606	55,010	44,565	2,901	3,741	3,748	55
U. California, Office of the President	145	46,725	42,520	45,843	54,407	1,004	0	53,397	6	0
U. New Hampshire	146	52,822	52,907	55,600	54,290	17,902	9,896	17,761	8,393	338
SUNY, Upstate Medical U.	147	41,557	44,870	50,586	53,219	0	20,237	32,982	0	0
Cleveland State U.	148	46,618	45,321	51,438	52,377	0	51,303	866	0	208
Howard U.	149	25,750	30,787	44,152	48,554	0	5,231	39,400	0	3,923
Northern Arizona U.	150	38,862	41,082	43,147	48,110	1,922	29,577	6,108	9,456	1,047
Texas Tech U., Health Sciences Center	151	43,102	40,567	44,961	47,072	0	21,535	25,537	0	0
U. Maine	152	39,357	38,598	41,542	46,999	21,727	12,393	1,721	11,158	0
San Diego State U.	153	27,880	31,479	38,307	46,665	0	18,866	27,205	594	0
Northeastern U.	154	32,626	32,513	37,639	46,459	0	20,438	13,240	0	12,781
U. Houston	155	34,394	34,322	40,187	46,297	307	14,160	31,615	180	35
Loyola U., Chicago	156	35,073	38,592	39,546	44,733	0	20,227	23,373	1,127	6
East Carolina U.	157	33,206	28,703	34,271	43,941	173	9,967	33,801	0	0
Georgia Institute of Technology	158	43,699	32,997	37,289	42,645	4,395	26,908	10,247	0	1,095
U. Texas, Dallas	159	35,986	27,495	31,502	39,684	0	15,328	24,356	0	0
U. Central Florida	160	29,255	30,876	33,455	39,523	0	22,276	17,247	0	0
Southern Illinois U., Carbondale	161	33,480	37,448	38,470	38,745	14,740	5,231	18,341	266	167
U. Alaska, Fairbanks	162	29,409	37,477	28,235	38,729	4,041	23,753	3,956	6,714	265
U. Texas Rio Grande Valley	163	28,351	28,556	26,835	37,668	1,952	5,279	26,827	88	3,522
George Mason U.	164	33,163	47,800	30,410	37,589	313	23,000	13,168	1,101	7

TABLE 42

Higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. North Dakota	165	31,526	31,330	35,064	36,939	0	18,742	18,197	0	0
U. Rhode Island	166	27,699	28,984	29,670	36,874	5,436	22,967	2	0	8,469
U. Nevada, Las Vegas	167	34,733	32,306	31,571	36,005	51	16,544	17,845	966	599
Florida Atlantic U.	168	28,725	27,748	31,522	35,633	0	21,354	12,783	0	1,496
Louisiana State U., Health Sciences Center, Shreveport	169	25,321	24,600	29,502	35,624	0	16,255	18,404	0	965
SUNY, Downstate Health Sciences U.	170	33,204	34,459	30,918	35,600	0	35,600	0	0	0
U. Texas, El Paso	171	28,552	23,452	30,381	35,325	0	24,121	10,288	62	854
U. Notre Dame	172	27,750	29,599	35,522	35,232	282	34,922	28	0	0
U. California, Santa Cruz	173	27,565	28,302	30,133	34,549	3,576	30,973	0	0	0
Brandeis U.	174	28,345	31,582	30,648	32,578	234	29,283	2,965	20	76
U. Toledo	175	27,748	25,012	30,176	32,455	0	7,625	24,273	60	497
U. Texas Health Science Center, Tyler	176	21,265	27,928	33,872	32,077	1,210	30,867	0	0	0
Florida A&M U.	177	21,450	23,507	26,175	31,768	14,011	1,396	13,209	752	2,400
U. Texas, San Antonio	178	25,911	26,419	27,073	31,428	0	26,481	2,193	0	2,754
Indiana U.-Purdue U., Indianapolis	179	21,874	22,890	21,631	27,536	0	8,927	17,881	0	728
U. Missouri, Kansas City	180	20,183	17,966	33,588	27,493	938	9,801	16,546	1	207
Brigham Young U., Provo	181	9,218	9,660	10,040	27,160	4,942	15,754	5,894	13	557
Nova Southeastern U.	182	13,298	12,827	14,336	26,746	53	1,651	25,042	0	0
U. South Alabama	183	36,664	31,362	25,738	26,117	0	221	21,011	0	4,885
CUNY, Graduate School of Public Health and Health Policy	184	10,899	14,025	14,429	25,876	0	1,439	24,437	0	0
New Jersey Institute of Technology	185	20,121	22,393	31,619	24,332	0	3,301	21,031	0	0
Eastern Virginia Medical School	186	20,870	19,415	22,165	23,991	0	9,447	14,544	0	0
U. Alabama, Tuscaloosa	187	8,985	14,565	22,348	23,853	11	10,055	13,736	0	51
U. Texas, Arlington	188	18,430	19,246	20,310	23,340	0	10,440	12,347	553	0
Albany Medical C.	189	23,510	22,443	22,297	23,259	0	17,693	5,566	0	0
North Carolina A&T State U.	190	16,663	20,086	19,160	22,995	16,641	2,855	175	3,324	0
SUNY, C. of Environmental Science and Forestry	191	26,083	23,850	22,969	22,461	1,198	2,693	0	18,307	263
Marshall U.	192	16,302	18,296	17,965	21,925	0	8,804	12,952	0	169
Creighton U.	193	14,845	17,512	20,856	21,496	0	8,703	12,793	0	0
Meharry Medical C.	194	13,870	15,840	17,895	21,494	0	21,494	0	0	0
Loma Linda U.	195	15,033	13,191	14,632	20,844	0	9,069	11,775	0	0
Delaware State U.	196	14,368	14,196	15,815	20,808	6,702	11,167	1,641	1,162	136
Ohio U.	197	15,375	16,838	17,612	20,740	0	9,779	9,920	0	1,041

TABLE 42

Higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. Minnesota, Duluth	198	19,580	19,119	19,244	20,530	0	1,341	3	19,186	0
Texas State U.	199	12,417	11,708	17,849	20,212	2,165	11,577	4,980	0	1,490
Rice U.	200	16,008	15,766	18,022	19,778	13	19,765	0	0	0
Charles R. Drew U. of Medicine and Science	201	13,682	13,228	14,581	19,551	0	0	19,551	0	0
East Tennessee State U.	202	10,103	13,835	21,542	19,166	0	4,011	15,155	0	0
Syracuse U.	203	10,724	10,916	11,393	18,677	0	7,849	9,169	1,659	0
Central Michigan U.	204	9,145	14,879	17,871	18,284	0	4,202	13,508	573	1
Texas A&M U.-Kingsville	205	16,722	16,283	17,132	18,205	14,713	1,833	116	1,306	237
Tuskegee U.	206	8,145	8,136	15,072	18,189	11,670	4,517	1,879	0	123
Chapman U.	207	7,307	9,497	13,148	17,909	473	6,646	9,403	646	741
Marquette U.	208	11,696	12,236	13,619	17,556	24	8,334	8,724	0	474
U. South Dakota	209	17,172	15,920	17,850	17,382	0	14,545	1,953	540	344
U. Massachusetts, Lowell	210	12,056	12,821	17,817	17,363	0	7,299	10,015	0	49
New York Medical C.	211	20,137	18,872	16,461	17,113	0	7,196	7,136	0	2,781
Tennessee State U.	212	20,557	19,491	16,043	16,921	16,690	218	13	0	0
Carnegie Mellon U.	213	14,696	14,273	15,109	16,878	60	15,116	1,102	45	555
CUNY, Queens C.	214	11,236	10,421	14,572	16,586	0	2,914	13,637	0	35
U. North Texas, Denton	215	12,745	13,582	17,731	16,228	175	11,793	3,765	0	495
SUNY, Binghamton U.	216	12,877	12,788	15,476	15,773	0	5,338	10,081	301	53
Fort Valley State U.	217	4,581	4,620	9,807	15,331	15,331	0	0	0	0
U. Maryland, Baltimore County	218	11,478	10,033	13,643	14,790	449	12,972	320	764	285
San Francisco State U.	219	12,603	13,143	13,356	14,372	0	12,529	297	1,253	293
Portland State U.	220	13,547	13,784	14,531	14,371	0	8,533	1,639	4,049	150
Baylor U.	221	7,456	11,299	13,144	13,879	250	7,235	5,797	391	206
U. Guam	222	9,824	11,783	12,397	13,548	4,937	528	3,036	5,047	0
Old Dominion U.	223	14,463	15,041	12,010	13,232	0	4,710	7,926	596	0
U. California, Santa Barbara	224	30,838	29,848	19,387	13,211	0	13,211	0	0	0
U. North Carolina, Greensboro	225	7,582	8,934	11,226	13,196	0	8,384	4,812	0	0
Wright State U.	226	13,515	11,213	11,782	13,117	0	8,985	4,132	0	0
Boise State U.	227	10,616	12,908	12,000	12,924	1,039	8,101	2,373	1,370	41
Midwestern U.	228	10,479	10,957	11,069	12,725	6	7,040	5,630	0	49
Northeast Ohio Medical U.	229	15,579	13,823	13,150	12,577	15	8,273	3,550	0	739
Illinois Institute of Technology	230	9,993	9,053	9,464	12,293	1,245	9,135	1,759	0	154

TABLE 42

Higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. Massachusetts, Boston	231	8,950	8,612	8,974	12,213	200	6,104	3,457	2,452	0
Southern Illinois U., Edwardsville	232	8,190	7,333	8,447	12,048	10,933	711	380	24	0
Texas Tech U., Health Sciences Center, El Paso	233	10,294	10,555	13,073	11,829	0	3,964	7,865	0	0
Rowan U.	234	11,115	10,849	10,188	11,750	0	6,937	4,376	0	437
Boston C.	235	9,824	9,313	8,226	11,638	0	8,994	2,644	0	0
Oakland U.	236	5,653	7,887	9,762	11,634	0	5,693	1,568	0	4,373
Kentucky State U.	237	7,806	8,546	9,156	11,578	11,460	0	0	118	0
Rutgers, State U. New Jersey, Newark	238	13,014	11,845	10,990	11,575	0	11,051	524	0	0
Kent State U.	239	8,335	9,034	10,845	11,557	91	7,579	3,773	96	18
U. North Carolina, Charlotte	240	4,512	4,701	5,643	11,443	0	8,217	3,226	0	0
Alcorn State U.	241	7,918	6,826	9,929	11,432	11,084	0	348	0	0
Michigan Technological U.	242	3,804	2,621	2,804	11,201	0	1,836	1,370	7,803	192
Rosalind Franklin U. of Medicine and Science	243	14,516	13,478	12,579	11,116	0	9,687	1,429	0	0
Texas Southern U.	244	6,206	5,033	8,033	11,092	0	10,156	0	0	936
California Polytechnic State U., San Luis Obispo	245	7,929	6,526	9,048	10,928	4,586	423	2,570	2,409	940
Tarleton State U.	246	6,429	7,521	9,239	10,879	7,186	789	1,399	1,505	0
Morgan State U.	247	5,061	5,810	7,898	10,795	1,772	3,835	5,188	0	0
U. Wisconsin-Milwaukee	248	10,279	9,109	10,207	10,761	0	3,938	6,823	0	0
U. Memphis	249	10,395	9,537	10,731	10,618	18	4,174	6,260	154	12
U. Southern Mississippi	250	11,248	11,218	12,031	10,616	0	8,112	2,504	0	0
Duquesne U.	251	9,914	6,085	8,351	10,506	0	2,010	8,496	0	0
Prairie View A&M U.	252	8,280	8,187	9,381	10,328	9,816	204	11	297	0
CUNY, Hunter C.	253	8,957	7,852	7,870	10,272	31	6,227	4,014	0	0
Central State U.	254	5,451	8,134	8,806	10,270	9,809	133	51	225	52
U. California, Merced	255	9,333	9,742	10,814	10,265	621	5,554	3,520	0	570
Langston U.	256	13,843	6,062	6,074	9,676	8,150	964	562	0	0
Long Island U.	257	6,526	7,162	10,025	9,621	4,002	1,779	3,840	0	0
U. Alaska, Anchorage	258	6,857	8,381	8,875	9,605	9	3,910	2,859	2,827	0
Oklahoma State U., Center for Health Sciences	259	7,616	6,928	7,092	9,376	340	962	8,074	0	0
Alabama A&M U.	260	5,142	5,412	5,654	9,197	760	2,780	5,419	238	0
U. Maryland Center for Environmental Science	261	9,194	8,729	8,403	9,006	1,054	1,390	0	5,511	1,051
Virginia State U.	262	6,123	7,191	7,493	8,961	8,871	52	38	0	0
Lehigh U.	263	4,121	5,271	9,078	8,884	0	6,525	23	0	2,336

TABLE 42

Higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
CUNY, City C.	264	7,167	9,192	7,942	8,800	0	5,377	1,792	1,631	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	265	6,999	5,982	6,080	8,797	0	6,290	2,506	1	0
Mercer U.	266	8,624	8,627	8,473	8,788	0	255	8,533	0	0
U. of the Virgin Islands	267	7,103	6,045	8,130	8,130	3,126	2,708	0	0	2,296
Rensselaer Polytechnic Institute	268	6,102	6,913	8,885	8,077	0	8,077	0	0	0
Miami U.	269	12,044	9,733	9,782	7,968	0	5,120	2,729	0	119
Southern U. and A&M C., Agricultural Research and Extension Center	270	4,475	6,164	7,048	7,764	6,298	178	858	430	0
U. Denver	271	4,889	5,347	5,422	7,747	47	7,068	576	56	0
Georgia Southern U.	272	1,664	7,662	6,734	7,695	47	3,125	3,848	388	287
Edward Via C. of Osteopathic Medicine	273	7,475	6,629	7,121	7,597	0	0	7,597	0	0
U. North Carolina, Wilmington	273	7,090	7,179	7,428	7,597	372	5,072	149	1,765	239
Philadelphia C. of Osteopathic Medicine	275	3,360	6,131	6,667	7,459	0	4,611	2,848	0	0
West Texas A&M U.	276	3,570	6,240	6,054	7,434	6,974	15	0	8	437
Wichita State U.	277	2,980	14,196	15,666	7,402	0	2,030	5,372	0	0
California State U., Long Beach	278	4,816	3,700	4,858	7,345	0	2,504	4,697	144	0
U. Maryland, Eastern Shore	279	2,572	4,310	5,437	7,264	5,675	1,148	427	14	0
U. Nebraska, Omaha	280	5,892	7,208	7,982	7,248	273	1,737	5,212	26	0
California State U., Northridge	281	6,822	4,020	5,528	7,147	0	5,295	375	0	1,477
North Carolina Central U.	282	7,233	6,109	6,414	7,115	i	6,885	230	i	0
Kennesaw State U.	283	5,740	3,073	5,744	7,045	0	6,567	29	0	449
Xavier U. Louisiana	284	3,929	3,511	5,786	7,030	0	400	6,630	0	0
Lincoln U., Jefferson City	285	5,404	7,345	11,109	6,626	i	6,626	0	i	0
Teachers C., Columbia U.	286	4,455	5,040	6,007	6,595	0	0	0	0	6,595
California State Polytechnic U., Humboldt	287	7,291	5,303	4,020	6,526	731	316	45	5,205	229
San Jose State U.	288	1,542	3,655	5,838	6,431	0	2,474	3,957	0	0
Pacific U.	289	3,852	3,186	3,813	6,401	0	292	5,409	127	573
U. New England	290	5,904	5,340	5,953	6,282	0	5,008	1,180	94	0
MGH Institute of Health Professions	291	3,014	2,500	4,628	6,200	0	3,900	2,300	0	0
Jackson State U.	292	2,129	3,183	5,257	6,183	0	733	5,450	0	0
California State U., Fresno	293	4,306	4,197	4,894	6,128	3,848	1,028	1,252	0	0
U. Arkansas, Pine Bluff	294	7,415	6,852	6,299	6,081	5,468	47	0	566	0
Roseman U. of Health Sciences	295	4,380	5,893	6,285	6,065	0	0	6,065	0	0
Idaho State U.	296	3,936	4,167	6,213	5,984	0	4,971	1,013	0	0

TABLE 42

Higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Ball State U.	297	2,738	2,674	4,876	5,898	0	2,251	3,476	171	0
Clark Atlanta U.	298	6,017	6,614	5,400	5,873	0	5,873	0	0	0
Arkansas State U., Jonesboro	299	6,636	6,436	5,942	5,853	421	5,379	48	5	0
U. Missouri, Saint Louis	300	7,254	6,118	5,842	5,767	0	1,691	3,980	96	0
CUNY, Advanced Science Research Center	301	4,679	5,261	4,493	5,548	0	5,063	0	485	0
California State U., Fullerton	302	2,440	2,507	4,038	5,538	55	2,999	2,469	15	0
Montclair State U.	303	3,277	3,231	3,830	5,509	54	1,638	2,991	317	509
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	304	3,737	3,776	4,954	5,324	0	5,324	0	0	0
U. Colorado Denver ^c	305	na	4,284	2,804	5,291	0	799	4,468	24	0
California State U., Monterey Bay	306	3,225	3,452	3,977	5,232	2,195	2,957	24	56	0
West Virginia State U.	307	5,199	6,436	6,701	5,203	5,203	0	0	0	0
Saint Joseph's U.	308	761	547	5,199	5,186	0	1,435	3,751	0	0
Illinois State U.	309	3,183	4,364	4,488	5,174	202	4,449	523	0	0
Western U. of Health Sciences	310	4,866	5,598	7,043	4,946	589	4,119	234	0	4
U. Hawaii, Hilo	311	4,149	4,525	4,995	4,929	2,481	461	1,039	729	219
U. Central del Caribe	312	3,931	3,831	5,053	4,878	0	0	4,878	0	0
Texas A&M U.-Corpus Christi	313	6,975	5,422	5,184	4,745	435	3,397	304	489	120
Tennessee Technological U.	314	2,306	2,510	3,456	4,713	866	2,525	312	943	67
Villanova U.	315	3,438	3,610	3,993	4,709	0	2,029	2,680	0	0
William & Mary	316	2,694	2,669	3,112	4,618	0	2,035	0	2,583	0
New York Institute of Technology	317	2,757	3,277	3,871	4,431	0	939	3,492	0	0
SUNY, C. of Optometry	318	3,477	3,460	4,497	4,423	0	0	4,423	0	0
James Madison U.	319	1,844	3,372	4,434	4,300	0	2,432	1,834	34	0
U. of Health Sciences and Pharmacy in St. Louis	320	4,835	5,313	4,271	4,284	0	0	4,284	0	0
Texas Woman's U.	321	2,259	3,053	3,015	4,253	0	1,105	2,611	0	537
California State Polytechnic U., Pomona	322	2,656	3,557	3,501	4,204	1,745	2,459	0	0	0
Appalachian State U.	323	1,879	1,745	3,066	4,134	400	2,101	468	398	767
U.S. Air Force Academy	324	0	369	244	4,130	0	4,130	0	0	0
Bowling Green State U.	325	1,766	3,158	4,077	4,114	541	995	1,720	858	0
Yeshiva U.	326	2,477	3,830	3,741	4,003	129	0	3,874	0	0
Keck Graduate Institute	327	1,412	1,350	1,282	3,930	0	3,868	62	0	0
U. Detroit Mercy	328	4,337	4,096	4,455	3,885	0	3,484	401	0	0
U. Wisconsin-Stevens Point	329	4,317	3,716	3,144	3,851	689	30	6	3,126	0

TABLE 42

Higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. Central Oklahoma	330	366	382	3,393	3,778	0	2,511	1,267	0	0
Clark U.	331	1,953	2,197	3,706	3,733	148	1,359	1,143	0	1,083
Louisiana Tech U.	332	2,510	2,242	3,703	3,732	962	1,045	1,725	0	0
CUNY, Graduate Center	333	116	110	6	3,725	173	1,359	240	558	1,395
Texas Christian U.	334	822	570	558	3,632	133	1,126	2,364	9	0
Western Kentucky U.	335	2,888	2,315	2,547	3,615	785	1,166	1,505	0	159
DePaul U.	336	465	573	2,088	3,609	0	1,313	1,928	55	313
Des Moines U.	337	3,637	4,192	4,128	3,560	0	3,041	303	0	216
Oregon Institute of Technology	338	1,741	2,894	3,404	3,543	0	1,988	995	560	0
U. Puerto Rico, Rio Piedras	339	3,617	4,283	3,500	3,451	0	3,448	3	0	0
South Carolina State U.	340	2,402	2,720	3,041	3,360	577	1,284	490	828	181
Gallaudet U.	341	1,239	1,159	1,682	3,261	0	939	2,289	0	33
U. Massachusetts, Dartmouth	342	1,467	1,834	2,620	3,229	0	1,935	1,294	0	0
Southern Methodist U.	343	2,144	2,221	2,765	3,187	0	3,002	0	0	185
U. West Florida	343	2,081	2,192	3,311	3,187	0	2,634	275	0	278
Worcester Polytechnic Institute	345	2,104	2,188	3,538	3,170	0	3,170	0	0	0
Towson U.	346	836	914	1,816	3,100	0	1,709	1,167	152	72
U. Alabama, Huntsville	346	3,170	2,620	2,695	3,100	23	1,982	1,091	0	4
Eastern Michigan U.	348	3,498	2,811	2,225	3,091	0	1,122	1,413	415	141
Reed C.	349	1,573	1,629	2,626	2,991	0	1,500	1,491	0	0
Desert Research Institute	350	3,539	3,574	3,674	2,974	0	2,974	0	0	0
Pepperdine U.	351	623	564	2,022	2,953	0	2,603	256	61	33
Winston-Salem State U.	352	2,400	3,530	2,711	2,928	0	399	2,529	0	0
Touro U., California	353	3,539	3,475	2,290	2,877	0	1,908	0	0	969
Seton Hall U.	354	138	607	463	2,862	0	1,059	1,778	25	0
Northern Illinois U.	355	2,319	3,011	2,620	2,809	0	638	1,922	249	0
Azusa Pacific U.	356	2,002	1,022	691	2,795	0	1,616	1,179	0	0
Florida Gulf Coast U.	357	760	2,209	2,606	2,748	4	386	975	1,383	0
California State U., Chico	358	1,466	1,522	1,445	2,734	1,985	661	88	0	0
U. North Florida	359	1,388	1,647	2,409	2,718	0	1,666	905	147	0
Pennsylvania State U., Behrend	360	21	593	1,484	2,704	221	545	283	1,655	0
Albany C. of Pharmacy and Health Sciences	361	3,765	3,687	2,276	2,594	0	2,281	313	0	0
Williams C.	362	686	703	2,275	2,592	0	2,592	0	0	0

TABLE 42

Higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Alabama State U.	363	1,989	2,265	2,471	2,579	0	2,579	0	0	0
St. John's U., New York	364	2,324	2,197	2,213	2,577	0	659	1,918	0	0
Dine C.	365	347	ne	2,091	2,551	221	453	1,367	510	0
California State U., East Bay	366	1,103	1,093	2,587	2,537	504	754	1,126	0	153
Western Illinois U.	367	1,914	2,346	1,917	2,533	2,523	10	0	0	0
Colby C.	368	443	382	831	2,502	0	707	0	0	1,795
New England C. of Optometry	369	1,150	1,978	1,868	2,491	0	0	2,491	0	0
Lake Superior State U.	370	ne	ne	1,988	2,477	0	1,015	0	1,034	428
Sul Ross State U.	371	1,595	1,563	2,009	2,458	484	1,974	0	0	0
SUNY, Polytechnic Institute	372	1,977	2,587	1,673	2,369	0	2,209	160	0	0
Texas A&M U.-Commerce	373	924	587	2,119	2,368	831	82	318	0	1,137
Hope C.	374	636	1,152	2,230	2,289	0	2,212	77	0	0
Middle Tennessee State U.	375	2,029	4,048	4,950	2,229	1,011	1,049	169	0	0
Austin Peay State U.	376	1,333	1,404	1,657	2,220	0	530	28	1,662	0
Hawaii Pacific U.	377	1,248	1,211	1,431	2,196	1,278	883	35	0	0
Hofstra U.	378	575	1,062	1,232	2,155	34	1,288	586	247	0
U. North Carolina, Asheville	379	1,559	2,045	1,605	2,138	0	143	818	30	1,147
U. Wisconsin-River Falls	380	224	645	ne	2,125	1,972	153	0	0	0
California State U., San Marcos	381	1,888	1,120	1,456	2,102	0	1,791	89	0	222
East Stroudsburg U. Pennsylvania	382	ne	ne	828	2,082	0	89	1,896	97	0
Stephen F. Austin State U.	383	1,848	2,042	1,773	2,028	1,753	232	39	0	4
Saginaw Valley State U.	384	1,229	1,282	1,845	2,025	0	0	2,025	0	0
Smith C.	385	1,783	1,462	2,701	2,023	0	1,883	139	1	0
Rochester Institute of Technology	386	1,238	1,551	1,657	2,005	0	1,731	274	0	0
Wesleyan U.	387	909	1,469	1,833	1,998	0	1,998	0	0	0
Chicago State U.	388	ne	ne	2,223	1,984	0	1,984	0	0	0
Salisbury U.	389	2,366	2,598	2,182	1,962	0	484	1,439	38	1
Colorado School of Mines	390	2,073	3,081	2,918	1,960	0	1,925	35	0	0
U. Texas, Tyler	391	1,302	1,260	2,233	1,957	0	397	1,519	0	41
U. Northern Colorado	392	1,239	1,263	1,368	1,925	0	1,026	688	0	211
Indiana U. Pennsylvania	393	1,251	1,890	1,747	1,909	0	1,799	110	0	0
Murray State U.	394	2,475	3,108	2,449	1,908	40	1,868	0	0	0
Northern Kentucky U.	395	1,007	1,939	2,148	1,864	0	773	1,091	0	0

TABLE 42

Higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. Nebraska, Kearney	396	1,953	2,021	2,409	1,862	37	698	683	444	0
California State U., Channel Islands	397	901	1,001	1,401	1,854	0	1,469	58	258	69
Sam Houston State U.	398	1,730	2,688	3,358	1,829	108	1,721	0	0	0
U. Arkansas, Little Rock	399	2,878	1,997	1,519	1,821	6	1,771	21	23	0
New Mexico Highlands U.	400	226	983 i	1,393 i	1,803	0	467	0	1,336	0
U. San Francisco	401	308	398	970	1,782	0	552	959	271	0
Marshall B. Ketchum U.	402	1,357 i	1,351 i	1,559 i	1,777 i	0 i	0 i	1,777 i	0 i	0 i
Marian U., Indianapolis	403	ne	ne	ne	1,774	0	1,296	431	47	0
Pennsylvania State U., Harrisburg	403	411	1,536	1,433	1,774	8	450	1,316	0	0
Hampton U.	405	1,745	1,685	1,659	1,745	0	1,252	493	0	0
Clarkson U.	406	999	1,014	1,339	1,725	0	1,192	201	0	332
Palmer C. of Chiropractic, Davenport	406	1,900	2,233	2,050	1,725	0	0	0	0	1,725
U. Dayton	408	632	544	823	1,695	0	206	1,273	216	0
Catholic U. of America	409	2,000	1,649	637	1,689	0	1,689	0	0	0
Florida Institute of Technology	410	667	2,175	1,313	1,682	208	887	114	473	0
U. Louisiana, Monroe	410	2,104	1,885	2,583	1,682	30	166	1,486	0	0
C. Charleston	412	1,128	1,370	1,536	1,677	2	1,500	88	81	6
Hobart and William Smith Colleges	413	1,563	1,664	2,357	1,653	16	158	0	1,479	0
U. Oklahoma, Tulsa	414	2,633	2,096	2,351	1,638	0	0	1,638	0	0
Lincoln Memorial U.	415	ne	ne	ne	1,622	1,319	235	68	0	0
Loyola Marymount U.	416	591	819	2,308	1,620	0	1,296	139	141	44
U. Wisconsin-Green Bay	417	1,114 i	1,065 i	1,543 i	1,590 i	0 i	498 i	1,092 i	0 i	0 i
American U.	418	1,886	1,148	1,117	1,584	0	979	0	0	605
Barnard C.	419	692	1,008	1,322	1,571	1	1,570	0	0	0
Fordham U.	420	1,435	1,207	1,213	1,566	0	1,566	0	0	0
California State U., San Bernardino	421	948	1,016	1,251	1,559	0	1,477	82	0	0
Haverford C.	422	926 i	647 i	1,153 i	1,556 i	0 i	997 i	559 i	0 i	0 i
Swarthmore C.	423	841	824	1,295	1,516	0	1,516	0	0	0
U. Tulsa	424	678	725	1,008	1,499	0	925	574	0	0
Dillard U.	425	1,323	1,356	1,199	1,498	0	484	818	0	196
Amherst C.	426	1,064	1,259 i	1,741	1,485	0	1,485	0	0	0
Kean U.	427	183	56	1,234	1,463	62	680	406	35	280
West Virginia School of Osteopathic Medicine	428	1,303	1,245	1,327	1,457 i	0 i	737 i	718 i	0 i	2 i

TABLE 42

Higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. of the Pacific	429	982	870	1,392	1,448	0	782	666	0	0
SUNY, C. Brockport	430	1,197	680	1,120	1,444	37	27	1	1,379	0
New School	431	324	197	675	1,440	0	0	5	775	660
Missouri State U.	432	1,812	2,109	1,673	1,438	265	382	4	784	3
Ferris State U.	433	ne	ne	ne	1,411	0	249	1,112	0	50
Grand Valley State U.	434	1,914	1,833	1,765	1,401	0	473	928	0	0
Black Hills State U.	435	824	806	1,421	1,400	0	1,399	0	1	0
Colorado State U., Pueblo	436	1,703	1,845	1,214	1,395	126	1,260	9	0	0
Bates C.	437	1,247	1,783	1,743	1,378	0	1,120	0	41	217
U. Houston-Clear Lake	438	347	942	1,322	1,369	0	135	411	823	0
Bucknell U.	439	743	674	1,255	1,368	0	1,360	0	0	8
Tougaloo C.	439	1,741	1,733	1,207	1,368	0	1,367	0	0	1
U. Washington, Bothell	441	558	668	784	1,365	0	234	1,131	0	0
Missouri U. of Science and Technology	442	971	555	797	1,359	189	1,168	0	2	0
Southeastern Louisiana U.	443	941	795	1,022	1,357	0	1,301	56	0	0
Merrimack C.	444	253	ne	ne	1,338	0	7	1,331	0	0
National U. of Natural Medicine	445	1,428	850	ne	1,336	0	0	1,336	0	0
U. of the Incarnate Word	446	962	1,369	972	1,324	0	577	92	0	655
Providence C.	447	422	442	ne	1,320	0	1,102	0	0	218
CUNY, C. Staten Island	448	1,277	1,109	1,070	1,300	0	509	744	47	0
Southern Connecticut State U.	449	1,308	689	1,001	1,275	124	418	706	27	0
California State U., Los Angeles	450	2,299	740	1,229	1,272	0	924	348	0	0
Northeastern Illinois U.	451	1,122	1,111	1,447	1,271	51	325	895	0	0
Bowdoin C.	452	1,196	1,262	1,275	1,258	0	1,258	0	0	0
Fisk U.	453	3,585	1,601	1,289	1,228	0	1,228	0	0	0
U. Central Arkansas	454	785	755	1,209	1,219	0	714	454	51	0
Southern U. and A&M C., Baton Rouge	455	338	492	837	1,211	12	882	148	169	0
U. Akron	456	1,882	1,390	1,587	1,185	0	1,022	151	0	12
California State U., Sacramento	457	1,328	1,446	1,154	1,182	0	444	409	329	0
U. New Orleans	458	974	1,114	1,016	1,181	0	1,181	0	0	0
Wellesley C.	459	1,455	1,554	1,033	1,171	0	1,104	41	26	0
U. Puget Sound	460	379	ne	778	1,166	0	1,086	14	0	66
Roger Williams U.	461	189	543	831	1,157	98	852	48	0	159

TABLE 42

Higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Bryn Mawr C.	462	705	709	1,259	1,141	0	1,141	0	0	0
C. New Jersey	463	657	856	1,502	1,107	0	996	44	67	0
Grinnell C.	464	487	423	272	1,082	0	1,082	0	0	0
Northern Michigan U.	465	727	855	1,248	1,080	0	734	278	68	0
CUNY, Brooklyn C.	466	2,519	1,570	802	1,067	0	893	174	0	0
U. Tennessee, Chattanooga	467	1,036	878	994	1,055	0	880	174	1	0
Fort Lewis C.	468	297	416	806	1,054	275	574	45	123	37
West Chester U. Pennsylvania	469	1,072	815	1,055	1,053	0	415	638	0	0
U. Richmond	470	765	766	835	1,051	0	1,051	0	0	0
Purdue U., Northwest	471	988	974	1,120	1,035	0	162	873	0	0
Bowie State U.	472	414	96	1,462	1,002	0	485	181	0	336
Nevada State C.	473	ne	ne	1,109	995	0	890	0	105	0
Bentley U.	474	ne	ne	652	947	0	0	928	19	0
SUNY, Buffalo State U.	475	929	780	767	945	0	945	0	0	0
Trinity U.	476	505	461	756	934	0	927	7	0	0
Sacred Heart U.	477	ne	26	ne	931	0	136	593	82	120
St. Olaf C.	478	249	321	ne	908	0	496	69	0	343
Fayetteville State U.	479	1,483	960	784	872	i	62	810	i	0
Spelman C.	480	624	633	685	869	0	783	86	0	0
Western Washington U.	481	958	719	600	864	0	724	140	0	0
California State U., Dominguez Hills	482	144	140	335	845	0	763	78	0	4
Middlebury C.	483	615	1,017	692	827	0	827	0	0	0
Skidmore C.	484	937	1,042	329	825	0	341	484	0	0
Western Carolina U.	485	1,128	1,484	1,326	822	116	345	324	37	0
Butler U.	486	ne	ne	1,276	821	0	321	370	0	130
Northland C.	487	ne	628	i	719	i	818	i	0	i
California State U., Stanislaus	488	1,169	1,232	1,094	813	0	808	5	0	0
U. Wisconsin-Oshkosh	489	736	i	740	640	810	0	748	21	41
CUNY, Baruch C.	490	250	785	933	807	0	612	0	153	42
Montana Technological U.	491	708	661	656	803	0	803	0	0	0
Vassar C.	492	197	307	918	798	0	778	0	20	0
Marymount U.	493	ne	624	394	790	0	92	698	0	0
U. South Carolina, Aiken	494	962	657	1,165	784	0	783	1	0	0

TABLE 42

Higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
CUNY, Lehman C.	495	256	249	371	757	0	654	92	7	4
Trinity C., Hartford	496	975	1,077	965	749	0	706	0	0	43
Sonoma State U.	497	456	585	748	744	0	352	5	387	0
Texas A&M International U.	498	333	216	531	743	0	575	145	23	0
U. Wisconsin-La Crosse	499	851	681	897	729	0	631	10	0	88
Liberty U.	500	307	497	ne	728	0	495	233	0	0
New C. Florida	501	ne	ne	ne	720	0	656	0	64	0
Framingham State U.	502	2,060	763 i	736 i	710	0	10	0	0	700
Davidson C.	503	322	595	787	709	0	709	0	0	0
Minnesota State U., Mankato	504	548	448	813	702	4	434	0	0	264
Kenyon C.	505	534	ne	788	694	0	652	0	42	0
Colgate U.	506	478	507	676	692	0	692	0	0	0
St. Edward's U.	507	1,620	1,445	734	680	79	220	135	185	61
Seattle U.	508	156	33	281	676	40	286	348	0	2
Franklin and Marshall C.	509	578	840	1,001	672	0	533	136	0	3
Pace U.	510	1,166	644	607	667	0	217	399	0	51
United Tribes Technical C.	511	ne	ne	ne	666	0	0	76	31	559
U. Wisconsin-Platteville	512	396 i	514 i	605 i	665 i	224 i	246 i	127 i	68 i	0 i
Ursinus C.	512	ne	ne	ne	665	0	665	0	0	0
California State U., Bakersfield	514	245	197	75	661	99	553	9	0	0
Occidental C.	515	368	503	577 i	657 i	111 i	353 i	123 i	70 i	0 i
Lewis and Clark C.	516	651	288	545	647	0	647	0	0	0
U. Southern Maine	516	880	830	801	647	206	177	6	258	0
U. Wisconsin-Superior	518	2,026	2,338	4,213	646	0	0	0	626	20
Embry-Riddle Aeronautical U.	519	17	0	1,064	636	0	0	437	0	199
Christopher Newport U.	520	644	536	625	628	0	628	0	0	0
Mount Holyoke C.	521	359	456	520	618	0	618	0	0	0
Saint John's U.	521	133 i	470 i	542 i	618 i	1 i	237 i	361 i	19 i	0 i
Santa Clara U.	523	879	545	543	613	0	457	40	116	0
Pennsylvania State U., Altoona	524	ne	ne	ne	609	0	29	443	137	0
U. Texas of the Permian Basin	525	335	983	887	593	0	585	8	0	0
C. of Saint Benedict	526	149 i	450 i	519 i	592 i	0 i	234 i	341 i	17 i	0 i
Furman U.	527	873	348	968	574	0	468	99	0	7

TABLE 42

Higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023						
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec	
Coastal Carolina U.	528	157	386	497	572	0	321		71	180	0
U. Alaska, Southeast	529	574	788	479	566	0	264		0	302	0
U. Colorado Colorado Springs	529	845	755	379	566	0	443		107	0	16
Clafin U.	531	857	515	458	562	0	337		225	0	0
New Mexico Institute of Mining and Technology	532	260	290	691	558	0	558		0	0	0
U. San Diego	533	217	111	233	541	24	432		75	0	10
U. Washington, Tacoma	533	164	281	463	541	0	442		78	21	0
Northwest Indian C.	535	365	i 435	i 504	539	i 0	i 0	i 539	i 0	i 0	i 0
Southern U., New Orleans	536	ne	ne	ne	536	0	0		0	0	536
Naval Postgraduate School	537	1,655	1,537	872	529	0	0		233	100	196
Harvey Mudd C.	538	520	364	605	524	0	524		0	0	0
Calvin U.	539	381	i 430	i 479	523	i 0	i 490	i 33	i 0	i 0	i 0
U. Hawaii, Maui C.	540	ne	253	ne	521	0	96		0	425	0
Connecticut C.	541	275	232	477	518	0	518		0	0	0
Pomona C.	542	338	288	338	500	0	500		0	0	0
Elizabeth City State U.	543	435	752	802	495	0	415		0	80	0
Lamar U.	544	285	423	248	488	0	255		233	0	0
Drake U.	545	ne	503	536	486	0	65		315	106	0
Central Washington U.	546	449	380	437	464	0	324		84	56	0
Indiana State U.	547	745	465	548	461	0	129		332	0	0
Eastern Kentucky U.	548	701	509	ne	458	46	212		5	195	0
Elon U.	549	344	288	287	457	0	102		196	0	159
Eastern Washington U.	550	422	436	410	454	0	244		0	210	0
U. Northern Iowa	551	306	387	337	446	227	219		0	0	0
Purdue U., Fort Wayne	552	488	255	343	438	0	431		7	0	0
Milwaukee School of Engineering	553	0	0	0	431	0	0		0	0	431
CUNY, York C.	554	494	142	429	430	0	282		139	0	9
Pittsburg State U.	554	360	293	526	430	0	100		0	330	0
Wheaton C., Wheaton	554	184	57	ne	430	0	209		160	61	0
CUNY, John Jay C. of Criminal Justice	557	92	48	666	419	0	0		3	0	416
Texas A&M U.-San Antonio	558	ne	ne	348	409	0	241		10	158	0
U. New Haven	559	40	190	350	404	0	151		212	41	0
U. Puerto Rico, Ponce	560	ne	ne	ne	401	0	401		0	0	0

TABLE 42

Higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Morehouse C.	561	120	90	451	400	0	247	0	0	153
National Defense U.	561	200	400	400	400	0	400	0	0	0
Morehead State U.	563	299	802	517	389	0	242	1	146	0
St. Cloud State U.	564	441	379	417	387	63	183	26	105	10
Troy U.	565	290	250	180	373	270	27	0	76	0
U. Puerto Rico, Mayaguez	566	1,881	1,729	654	368	83	275	0	10	0
Rutgers, State U. New Jersey, Camden	567	225	13	275	363	0	363	0	0	0
Lipscomb U.	568	0	0	ne	360	0	17	343	0	0
Rhode Island C.	569	808	1,157	634	358	0	358	0	0	0
Benedict C.	570	45	ne	ne	354	354	0	0	0	0
Bryant U.	571	ne	ne	ne	353	0	353	0	0	0
Macalester C.	572	297	108	158	352	0	305	47	0	0
Oberlin C.	573	295	239	ne	351	0	351	0	0	0
Monmouth U.	574	88	74	185	337	15	233	0	89	0
Norfolk State U.	575	114	88	148	326	0	317	9	0	0
Savannah State U.	576	234	268	255	318	0	15	147	0	156
Western New England U.	576	ne	ne	467	318	0	0	318	0	0
Stockton U.	578	195	247	291	313	0	74	0	239	0
Whitman C.	579	427	ne	325	311	0	263	0	48	0
Winthrop U.	580	501	253	352	308	0	308	0	0	0
Norwich U.	581	ne	ne	ne	301	0	104	197	0	0
SUNY, C. Plattsburgh	582	465	279	112	292	0	0	292	0	0
U. South Carolina, Beaufort	582	ne	ne	ne	292	109	67	64	52	0
SUNY, Geneseo	584	131	108	152	286	0	286	0	0	0
Gettysburg C.	585	260	ne	ne	274	0	233	4	0	37
U. Michigan, Dearborn	586	382	226	217	270	0	78	192	0	0
Carleton C.	587	334	501	330	265	0	217	0	48	0
Colorado C.	588	156	260	128	263	0	107	0	156	0
Utah Valley U.	589	ne	ne	380	256	0	256	0	0	0
Radford U.	590	ne	ne	ne	255	0	186	69	0	0
U. Scranton	591	ne	ne	ne	251	0	238	13	0	0
U. Houston-Downtown	592	46	25	135	245	0	97	45	103	0
Willamette U.	593	181	474	833	243	0	235	8	0	0

TABLE 42

Higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Claremont McKenna C.	594	400	274	272	239	0	239	0	0	0
Lincoln U.	595	ne	ne	ne	232	5	153	74	0	0
C. Wooster	596	257	363 i	429	224	29	195	0	0	0
U. of Mary Washington	597	132	155	190	213	0	104	4	105	0
Northwestern State U. Louisiana	598	307	89	183	204 i	0 i	21 i	183 i	0 i	0 i
Lafayette C.	599	94	94	649	197	0	197	0	0	0
Hamilton C.	600	81	122	116	190	0	190	0	0	0
SUNY, Oswego	601	286	135	194	188	3	80	6	99	0
U. Virginia's C. Wise	602	ne	125	116	180	41	139	0	0	0
Abilene Christian U.	603	ne	101	185	179	0	179	0	0	0
CUNY, system office	603	84	37	180	179	0	174	5	0	0
U.S. Military Academy	605	421	2,642	132	167	0	120	0	0	47
Biola U.	606	150 i	157 i	170	163	0	149	14	0	0
CUNY, New York City C. of Technology	607	496	362	304	162	0	162	0	0	0
Albany State U.	608	654	272	ne	158	0	158	0	0	0
Stevens Institute of Technology	609	203	94	1,245	157	0	157	0	0	0
Youngstown State U.	610	101	42	292	155	0	134	21	0	0
U. of St. Thomas (MN)	611	514	182	286	143	0	143	0	0	0
Indiana U., South Bend	612	ne	62	ne	141	0	57	84	0	0
SUNY, Cobleskill	613	ne	ne	0	140	0	0	0	140	0
U. Wisconsin-Eau Claire	614	126	232	138	139	0	98	41	0	0
Fairfield U.	615	279	36	ne	131	0	43	88	0	0
William Paterson U.	616	1,210	1,051	1,379	121	0	50	71	0	0
Grambling State U.	617	0	0	173 i	118	0	74	44	0	0
U. Puerto Rico, Humacao	618	255	111	1	117	0	55	0	62	0
U. Hartford	619	101	77	82	115	0	24	91	0	0
Manhattan C.	620	66	49	37	114	0	114	0	0	0
Union C., Schenectady	621	60	74	143	108	0	108	0	0	0
U. of the District of Columbia	622	2,157	3,054	2,810	107	27	24	0	15	41
Johnson C. Smith U.	623	412	160 i	146	98	0	0	98	0	0
Central Connecticut State U.	624	131	142	121	95	0	95	0	0	0
Virginia Military Institute	625	ne	ne	83	88	0	88	0	0	0
Eastern Connecticut State U.	626	381	210	281	83	4	78	0	1	0

TABLE 42

Higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Dakota State U.	627	48	80	65	81	0	81	0	0	0
U. Puerto Rico, Cayey	627	1,092	563	30	81	0	63	18	0	0
U. North Georgia	629	91	122	169	77	0	68	9	0	0
Ithaca C.	630	459	230	303	76	0	55	21	0	0
Andrews U.	631	15	7	ne	65	1	41	19	4	0
Citadel Military C. South Carolina	631	109	108	225	65	5	47	10	3	0
Gustavus Adolphus C.	633	ne	ne	ne	64	0	64	0	0	0
Robert Morris U.	634	ne	ne	43 i	48	0	17	31	0	0
Arcadia U.	635	ne	201	ne	43	0	0	43	0	0
Suffolk U.	636	29	33	19	31	0	30	1	0	0
Claremont Graduate U.	637	0	0	0	25	0	25	0	0	0
La Sierra U.	638	101	5	7	8 i	0 i	8 i	0 i	0 i	0 i
Alaska Pacific U.	639	38	29	20	7	7	0	0	0	0
U. Illinois, Springfield	640	5	6	33	3	0	3	0	0	0
Babson C.	641	0 i	0 i	0 i	2 i	0 i	0 i	0 i	2 i	0 i
All other surveyed institutions	-	939,188	401,675	391,813	0	0	0	0	0	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified.

^a Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$37,072 thousand in total R&D expenditures in life sciences in FY 2023. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^c The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

^d The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

^e The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

^f Touro University, New York includes the Lovelace Biomedical Research Institute. In FY 2023, the Lovelace Biomedical Research Institute joined the Touro University System.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
All institutions	-	26,230,572	28,448,591	30,958,946	33,896,235	1,458,868	11,753,581	19,390,822	512,675	780,289
Johns Hopkins U. ^a	1	714,341	765,565	844,281	897,607	0	279,015	618,592	0	0
U. California, San Francisco	2	634,918	645,510	737,748	816,481	0	1,682	814,799	0	0
Duke U.	3	568,232	638,716	752,563	807,184	0	272,094	520,614	5,414	9,062
U. Pittsburgh, Pittsburgh	4	590,430	628,092	706,791	792,983	361	255,129	537,455	0	38
U. Pennsylvania	5	577,785	644,430	707,840	765,293	126	538,801	216,864	0	9,502
U. Washington, Seattle	6	667,996	683,132	678,979	763,571	0	192,842	543,005	13,908	13,816
Columbia U. in the City of New York	7	562,474	611,343	662,559	739,861	0	217,140	521,080	1,584	57
Stanford U.	8	529,667	578,172	619,699	689,915	0	207,841	449,167	964	31,943
New York U.	9	353,092	446,533	559,581	670,216	0	218,335	450,355	0	1,526
U. North Carolina, Chapel Hill	10	521,691	569,385	610,132	668,464	0	172,657	495,807	0	0
Icahn School of Medicine at Mount Sinai	11	480,452	554,582	610,646	658,916	0	281,656	377,260	0	0
Washington U., Saint Louis	12	489,071	528,261	597,001	658,608	0	285,482	373,126	0	0
Yale U.	13	512,821	570,441	608,877	650,783	0	167,992	478,074	4,717	0
U. California, San Diego	14	413,628	465,019	577,453	642,446	0	49,008	593,438	0	0
U. California, Los Angeles	15	459,909	523,747	617,601	639,872	0	24,945	614,927	0	0
U. Michigan, Ann Arbor	16	547,904	549,127	602,777	631,452	5	203,273	390,777	10,314	27,083
Vanderbilt U. and Vanderbilt U. Medical Center	17	413,212	484,119	551,132	623,875	0	142,026	481,107	0	742
Emory U.	18	419,593	478,989	529,963	617,601	0	200,429	401,347	0	15,825
Northwestern U.	19	393,156	426,804	470,576	526,737	0	139,214	380,372	0	7,151
U. Minnesota, Twin Cities	20	334,529	388,235	460,220	493,390	34,200	88,199	350,374	16,292	4,325
U. Wisconsin-Madison	21	373,989	385,530	451,388	484,792	55,114	206,133	223,386	86	73
U. Colorado Anschutz Medical Campus ^b	22	na	361,493	427,999	471,749	827	3,402	467,520	0	0
Cornell U.	23	352,059	385,534	426,964	470,625	39,031	184,382	240,972	3,504	2,736
Ohio State U.	24	321,704	350,221	405,677	458,697	33,382	85,462	330,184	6,117	3,552
Baylor C. of Medicine	25	315,101	365,472	420,054	440,345	0	230,234	210,111	0	0
Harvard U.	26	401,466	411,239	410,122	425,411	0	346,008	77,144	2,259	0
U. Alabama, Birmingham	27	341,725	366,366	385,457	421,115	0	112,166	308,949	0	0
U. Maryland ^c	28	360,827	362,219	368,394	390,312	35,211	122,259	228,444	1,284	3,114
U. Southern California	29	321,802	328,186	335,673	381,729	0	200,990	171,335	0	9,404
Case Western Reserve U.	30	316,948	294,556	334,605	368,182	0	83,222	267,490	0	17,470
Uniformed Services U. of the Health Sciences	31	229,498	262,204	180,078	364,294	0	3,420	360,874	0	0
U. California, Davis	32	293,608	279,849	344,180	363,804	47,884	145,722	170,198	0	0

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Oregon Health and Science U.	33	312,023	318,175	336,077	361,933	0	22,693	210,171	195	128,874
U. Florida	34	265,894	281,503	306,946	352,391	59,450	105,491	179,454	7,996	0
U. Cincinnati	35	263,035	282,277	313,607	347,406	0	37,987	299,440	0	9,979
U. Texas Southwestern Medical Center	36	242,679	257,611	298,154	336,126	0	112,594	223,532	0	0
Indiana U., Bloomington	37	243,023	251,142	275,712	325,897	0	96,490	228,551	0	856
U. Chicago	38	231,277	260,911	294,797	304,483	0	76,637	227,846	0	0
Rutgers, State U. New Jersey, New Brunswick	39	218,451	254,944	262,424	298,495	21,851	150,612	120,934	1,850	3,248
Scripps Research Institute	40	243,502	272,181	242,135	278,099	0	278,099	0	0	0
Boston U.	41	228,882	293,731	291,846	274,668	0	132,253	142,415	0	0
U. Utah	42	202,404	218,204	216,826	260,698	0	24,267	223,879	0	12,552
U. Arizona	43	179,457	206,315	212,681	244,172	22,126	128,309	86,387	7,350	0
Albert Einstein C. of Medicine	44	204,635	214,619	220,780	230,151	0	0	230,151	0	0
U. Iowa	45	202,824	212,393	219,128	228,930	0	91,907	136,737	0	286
U. Texas M. D. Anderson Cancer Center	46	163,540	194,972	197,412	225,450	9,626	78,004	137,820	0	0
U. Massachusetts, Medical School	47	192,938	248,873	258,147	223,490	0	107,760	76,478	0	39,252
Colorado State U., Fort Collins	48	160,153	187,839	194,216	215,670	23,990	51,583	17,710	119,827	2,560
U. Miami	49	167,153	167,201	189,491	210,172	0	77,988	126,966	1,215	4,003
U. Rochester	50	173,198	185,919	194,048	210,132	0	59,741	150,391	0	0
U. California, Irvine	51	142,756	154,668	174,170	208,512	0	103,161	105,351	0	0
U. Illinois, Chicago	52	173,236	182,440	189,578	202,299	0	50,162	152,005	132	0
U. Kentucky	53	154,842	166,751	187,315	201,680	16,117	116,212	69,351	0	0
Wake Forest U.	54	164,482	186,487	177,957	200,949	0	3,597	197,338	14	0
U. Texas Health Science Center, Houston	55	133,624	165,139	184,205	197,759	0	45,197	90,275	0	62,287
U. Virginia, Charlottesville	56	186,706	190,160	204,298	194,206	0	88,123	106,083	0	0
U. Nebraska, Lincoln and Medical Center ^d	57	na	na	na	188,452	28,261	96,565	54,879	8,623	124
Pennsylvania State U., University Park and Hershey Medical Center	58	146,249	142,063	163,120	178,800	27,765	80,726	67,315	2,994	0
Michigan State U.	59	136,029	141,436	157,980	176,867	52,018	69,665	43,065	3,780	8,339
Texas A&M U., College Station and Health Science Center	60	275,643	250,689	179,326	172,838	55,376	70,479	33,989	11,172	1,822
Medical U. South Carolina	61	153,802	162,394	163,395	168,957	0	55,135	49,156	0	64,666
U. Georgia	62	124,753	135,261	155,393	151,231	39,657	99,203	11,262	0	1,109
U. Texas Medical Branch	63	113,827	117,490	122,912	149,765	0	117,577	32,188	0	0
Medical C. Wisconsin	64	122,394	131,164	147,255	149,668	0	58,524	91,144	0	0
U. Missouri, Columbia	65	99,475	109,626	125,007	148,119	57,022	29,006	53,565	8,526	0

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. Texas Health Science Center, San Antonio	66	102,959	106,824	119,071	143,730	0	62,364	81,366	0	0
U. California, Berkeley	67	119,018	119,251	139,051	141,785	678	77,537	33,409	30,161	0
U. Connecticut	68	93,227	105,940	144,287	139,444	7,028	66,369	63,473	2,574	0
Virginia Commonwealth U.	69	108,867	117,761	123,575	139,106	0	45,485	81,161	0	12,460
SUNY, U. Buffalo	70	108,496	115,162	121,956	136,241	563	64,626	70,487	0	565
U. South Florida ^e	71	89,644	98,950	119,772	132,859	0	77,152	55,214	53	440
Tulane U.	72	92,019	98,650	110,696	131,852	0	39,398	22,352	368	69,734
Brown U.	73	99,779	108,063	115,907	128,698	0	51,567	44,711	0	32,420
U. New Mexico	74	94,977	180,991	162,667	127,253	13	27,081	98,966	1,025	168
U. Illinois, Urbana-Champaign	75	110,331	121,883	133,116	123,278	33,560	68,102	2,304	19,312	0
U. Kansas	76	113,305	115,370	118,264	121,051	0	30,775	88,016	2,260	0
Washington State U.	77	84,222	101,065	107,093	120,447	43,232	26,810	45,863	1,527	3,015
George Washington U.	78	117,325	122,600	121,121	114,971	0	63,920	51,051	0	0
Temple U.	79	118,429	117,907	108,014	114,411	0	27,243	59,669	0	27,499
Thomas Jefferson U.	80	74,594	109,364	114,369	110,312	0	56,560	53,752	0	0
Purdue U., West Lafayette	81	76,677	84,604	95,465	109,823	51,892	14,838	43,093	0	0
Georgetown U.	82	77,133	109,131	107,661	109,818	0	8,583	100,439	0	796
Dartmouth C. and Dartmouth Hitchcock Medical Center	83	94,419	98,639	96,688	105,853	0	56,400	48,425	1,028	0
U. Vermont	84	81,752	87,438	98,902	105,516	21,073	39,614	42,798	2,031	0
Rockefeller U.	85	82,626	92,292	91,825	98,597	0	93,816	4,781	0	0
U. Texas, Austin	86	70,386	84,849	89,915	97,447	3	47,192	44,339	1,927	3,986
North Carolina State U.	87	68,962	75,648	85,984	96,838	42,459	50,486	0	0	3,893
Wayne State U.	88	89,306	88,791	97,488	96,256	0	19,925	76,321	0	10
U. Arkansas for Medical Sciences	89	70,508	83,387	95,080	94,483	0	37,966	55,768	0	749
Tufts U.	90	102,746	115,629	91,344	92,307	2,540	73,998	8,952	5,010	1,807
Oregon State U.	91	70,516	78,583	83,704	90,340	37,523	29,013	6,902	16,884	18
Virginia Polytechnic Institute and State U.	92	64,084	72,611	76,478	89,893	25,457	25,110	25,649	12,255	1,422
Rush U.	93	63,438	70,912	75,962	88,996	0	12,751	76,245	0	0
Massachusetts Institute of Technology	94	76,829	75,204	78,923	86,466	0	29,243	27,519	202	29,502
U. Oklahoma, Norman and Health Science Center	95	72,245	79,517	83,142	85,141	0	25,405	59,736	0	0
SUNY, Stony Brook U.	96	66,263	72,683	81,202	80,051	0	40,388	39,663	0	0
U. Louisville	97	71,342	77,090	96,682	79,218	119	43,985	33,557	35	1,522
U. North Texas, Health Science Center	98	25,461	32,464	54,410	76,741	0	2,808	73,933	0	0

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Arizona State U.	99	51,775	56,184	69,108	76,676	93	56,270	19,340	665	308
Iowa State U.	100	60,272	56,344	66,732	73,394	31,715	21,655	0	0	20,024
U. Tennessee, Health Science Center	101	48,264	56,021	60,221	70,356	0	30,367	39,905	0	84
U. Hawaii, Manoa	102	62,548	62,074	67,072	70,252	10,772	33,467	21,980	1,205	2,828
U. South Carolina, Columbia	103	52,350	51,029	61,828	69,522	0	13,896	55,626	0	0
West Virginia U.	104	41,367	51,717	56,203	69,272	6,409	21,154	34,303	6,159	1,247
U. Mississippi	105	59,546	60,201	67,593	66,052	401	15,898	48,999	0	754
California Institute of Technology	106	65,063	67,899	71,848	64,984	0	64,984	0	0	0
Augusta U.	107	55,685	61,727	64,015	63,267	0	28,154	33,719	0	1,394
Louisiana State U., Baton Rouge	108	45,823	51,067	56,162	62,288	20,707	37,324	577	3,680	0
Drexel U.	109	49,999	58,129	55,083	58,903	0	29,508	29,140	255	0
U. Montana, Missoula	110	45,895	51,926	55,741	58,193	0	18,046	30,289	9,858	0
U. California, Riverside	111	41,696	45,420	56,290	57,145	10,875	30,925	15,345	0	0
Auburn U., Auburn	112	29,821	35,103	40,300	54,282	29,320	14,191	1,883	974	7,914
Cold Spring Harbor Laboratory	113	62,068	56,889	59,163	54,123	2,934	51,189	0	0	0
Princeton U.	114	53,867	54,327	54,350	53,629	0	50,130	0	3,499	0
U. Colorado Boulder	115	42,667	43,726	45,590	51,966	635	45,839	4,109	895	488
Mississippi State U.	116	37,520	42,435	49,785	51,611	34,361	5,345	830	9,022	2,053
U. Puerto Rico, Medical Sciences Campus	117	26,897	32,997	34,786	46,539	0	0	46,539	0	0
U. Idaho	118	33,427	35,296	36,580	44,964	21,761	17,049	12	6,137	5
Kansas State U.	119	43,367	40,991	43,414	44,020	33,141	9,866	1,013	0	0
Georgia State U.	120	35,718	34,512	34,497	43,706	0	38,417	4,893	0	396
U. Massachusetts, Amherst	121	36,163	37,266	40,676	43,382	13,073	17,311	7,982	4,953	63
SUNY, U. Albany	122	45,162	38,544	35,709	43,062	0	23,294	19,768	0	0
Cleveland State U.	123	40,809	38,233	41,743	42,985	0	42,985	0	0	0
U. Tennessee, Knoxville	124	30,983	32,204	39,901	42,883	12,857	21,396	3,024	5,606	0
U. Nevada, Reno	125	33,564	43,804	44,587	42,300	3,499	20,508	12,366	4,067	1,860
Morehouse School of Medicine	126	22,500	25,181	31,339	41,069	0	0	41,069	0	0
Touro U., New York ^f	127	ne	ne	ne	40,008	0	39,862	146	0	0
U. Wyoming	128	31,367	28,786	36,464	39,798	10,653	18,293	3,543	6,227	1,082
Montana State U., Bozeman	129	33,155	36,541	40,618	39,505	21,612	10,671	7,158	64	0
Florida State U.	130	34,311	30,746	34,254	37,541	77	12,449	23,544	1,096	375
U. Delaware	131	34,456	32,572	33,921	37,111	9,917	8,578	18,616	0	0

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Louisiana State U., Health Sciences Center, New Orleans	132	31,381	34,272	33,087	35,933	0	521	32,158	0	3,254
Saint Louis U.	133	29,211	36,701	37,400	35,488	0	15,264	20,224	0	0
Florida International U.	134	23,279	20,713	27,280	33,432	58	28,259	2,586	2,529	0
Northern Arizona U.	135	24,039	25,641	28,895	33,000	849	21,416	4,069	5,707	959
U. Oregon	136	29,342	29,640	36,637	31,772	0	31,687	0	85	0
U. Louisiana, Lafayette	137	19,960	26,466	28,295	31,151	11	18,058	12,982	100	0
Clemson U.	138	21,908	20,765	24,824	30,942	10,578	12,549	2,269	0	5,546
Van Andel Research Institute	139	18,538	22,231	29,424	30,934	0	30,934	0	0	0
SUNY, Upstate Medical U.	140	23,940	24,974	27,737	30,069	0	13,327	16,742	0	0
Utah State U.	141	24,904	24,945	29,461	28,675	14,421	2,804	785	10,665	0
SUNY, Downstate Health Sciences U.	142	26,454	27,620	25,081	28,543	0	28,543	0	0	0
U. New Hampshire	143	30,725	29,183	27,850	27,945	6,709	5,923	9,132	6,076	105
U. Rhode Island	144	21,040	21,298	23,613	27,275	3,730	18,301	0	0	5,244
Loyola U., Chicago	145	21,189	23,288	23,194	25,750	0	13,472	11,644	634	0
San Diego State U.	146	15,009	17,106	21,544	25,723	0	7,598	17,587	538	0
U. Alaska, Fairbanks	147	14,391	23,554	18,419	25,680	1,544	19,350	679	4,027	80
Oklahoma State U., Stillwater	148	17,865	21,210	22,673	25,550	7,084	12,115	1,386	4,965	0
Florida A&M U.	149	18,174	19,995	21,483	25,160	10,490	73	11,549	752	2,296
New Mexico State U.	150	17,602	21,918	24,375	25,116	10,146	13,729	444	90	707
North Dakota State U.	151	17,605	22,286	21,251	24,760	13,334	3,863	6,276	1,197	90
Northeastern U.	152	20,238	18,436	20,043	24,681	0	15,214	7,072	0	2,395
U. Arkansas, Fayetteville	153	16,887	15,881	21,204	23,708	14,590	5,277	143	3,526	172
U. Maine	154	19,256	19,690	20,521	23,687	10,585	6,085	469	6,548	0
Brandeis U.	155	21,616	21,506	22,663	23,270	0	20,906	2,344	20	0
U. Houston	156	18,438	19,471	20,895	23,235	47	8,773	14,202	178	35
U. North Dakota	157	15,954	17,046	20,205	21,527	0	10,838	10,689	0	0
Howard U.	158	15,752	19,875	20,671	21,080	0	793	20,287	0	0
U. California, Santa Cruz	159	16,914	17,564	18,720	20,473	128	20,345	0	0	0
South Dakota State U.	160	16,767	11,133	14,272	19,940	14,006	1,766	1,966	2,202	0
East Carolina U.	161	12,296	13,680	18,567	19,510	8	5,592	13,910	0	0
Louisiana State U., Health Sciences Center, Shreveport	162	11,452	12,359	15,503	18,742	0	14,125	4,617	0	0
U. Texas, El Paso	163	10,414	12,399	14,628	18,554	0	14,150	4,404	0	0
George Mason U.	164	8,803	10,609	11,781	18,356	258	8,634	8,874	590	0
Eastern Virginia Medical School	165	15,748	14,774	17,616	17,947	0	7,181	10,766	0	0

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Meharry Medical C.	166	12,573	13,784	14,983	17,890	0	17,890	0	0	0
Georgia Institute of Technology	167	22,969	11,713	14,410	17,718	5	14,713	3,000	0	0
U. Texas, Dallas	168	16,603	13,432	15,344	17,587	0	9,395	8,192	0	0
U. Texas, San Antonio	169	10,733	11,786	14,215	17,421	0	15,575	691	0	1,155
U. Nevada, Las Vegas	170	14,582	13,583	13,038	16,628	48	10,284	5,381	764	151
U. Central Florida	171	12,485	15,068	14,789	16,303	0	11,421	4,882	0	0
U. Toledo	172	12,830	13,665	13,301	15,144	0	2,574	12,378	0	192
Texas Tech U.	173	4,978	5,784	10,240	14,981	6,687	5,099	1,618	1,577	0
Indiana U.-Purdue U., Indianapolis	174	11,548	11,825	11,144	14,902	0	6,868	7,890	0	144
Delaware State U.	175	8,311	9,554	13,648	14,808	4,151	8,659	855	1,007	136
Texas Tech U., Health Sciences Center	176	12,977	12,114	14,602	14,679	0	7,898	6,781	0	0
Albany Medical C.	177	12,940	13,166	13,384	14,193	0	13,516	677	0	0
U. Notre Dame	178	11,155	12,920	15,704	13,981	0	13,981	0	0	0
Marshall U.	179	10,082	10,409	12,099	13,321	0	5,533	7,788	0	0
Charles R. Drew U. of Medicine and Science	180	9,863	9,945	10,656	13,297	0	0	13,297	0	0
Florida Atlantic U.	181	11,087	11,315	12,398	13,181	0	5,954	6,411	0	816
CUNY, Queens C.	182	9,378	8,529	10,830	12,748	0	2,311	10,437	0	0
Southern Illinois U., Carbondale	183	9,899	9,451	10,576	12,717	5,172	2,071	5,474	0	0
CUNY, Graduate School of Public Health and Health Policy	184	7,444	11,244	9,886	12,638	0	1,439	11,199	0	0
U. Missouri, Kansas City	185	13,054	11,443	19,654	12,599	0	4,257	8,174	0	168
U. Texas Health Science Center, Tyler	186	7,732	12,007	14,362	12,555	1,210	11,345	0	0	0
U. California, Santa Barbara	187	12,927	12,283	11,268	12,411	0	12,411	0	0	0
North Carolina A&T State U.	188	6,945	9,455	10,753	12,291	7,313	2,477	175	2,326	0
U. Alabama, Tuscaloosa	189	4,483	6,041	11,663	11,858	7	4,436	7,366	0	49
U. Texas Rio Grande Valley	190	7,403	7,186	8,582	11,747	1,801	3,153	6,608	46	139
Tennessee State U.	191	14,785	13,145	9,474	11,384	11,163	218	3	0	0
Loma Linda U.	192	10,619	9,436	8,497	11,245	0	5,924	5,321	0	0
Portland State U.	193	11,523	11,566	12,525	11,180	0	7,247	845	2,938	150
Rice U.	194	8,540	7,628	9,357	10,966	12	10,954	0	0	0
U. South Alabama	195	12,175	13,027	12,537	10,461	0	80	9,800	0	581
Illinois Institute of Technology	196	8,605	7,769	8,418	10,433	1,032	7,983	1,355	0	63
U. Guam	197	6,625	8,519	9,112	10,272	3,725	457	2,692	3,398	0
U. Massachusetts, Lowell	198	4,573	5,842	10,577	10,241	0	4,440	5,801	0	0
East Tennessee State U.	199	6,785	8,010	9,397	10,118	0	3,794	6,324	0	0

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Creighton U.	200	5,651 i	6,649 i	9,311 i	9,821 i	0 i	4,099 i	5,722 i	0 i	0 i
Carnegie Mellon U.	201	9,523	9,072	8,708	9,772	0	8,816	589	0	367
U. South Dakota	202	9,733	8,496	10,126	9,622	0	8,692	622	184	124
U. Texas, Arlington	203	7,558	7,783	8,854	9,619	0	4,247	5,372	0	0
San Francisco State U.	204	7,959 i	8,039	7,503	9,597	0	8,776	0	528	293
Syracuse U.	205	5,108	5,223	5,050	9,572	0	3,291	5,048	1,233	0
Tuskegee U.	206	6,837	6,933	9,000	9,529	5,324	4,188	0	0	17
U. North Carolina, Greensboro	207	5,045	5,785	7,347	9,380	0	5,936	3,444	0	0
Marquette U.	208	5,298	5,446	5,929	9,372	20	5,947	3,405	0	0
U. Maryland, Baltimore County	209	8,644	7,736	8,873	9,131	185	8,703	31	133	79
Northeast Ohio Medical U.	210	10,649	9,982	9,121	8,412	0	6,133	1,755	0	524
Wright State U.	211	8,029	7,544	7,639	8,346	0	6,789	1,557	0	0
New York Medical C.	212	12,106	10,739	9,070	8,226	0	3,644	2,680	0	1,902
Boise State U.	213	7,021	8,959	7,885	8,196	753	4,961	1,588	853	41
Ohio U.	214	5,296	6,837	6,781	8,024	0	3,067	4,835	0	122
Rutgers, State U. New Jersey, Newark	215	7,681	8,709	7,627	7,908	0	7,908	0	0	0
CUNY, City C.	216	4,054	6,672	5,466	7,834	0	5,029	1,487	1,318	0
Brigham Young U., Provo	217	4,659	5,937	5,963	7,708	1,839	4,919	898	0	52
Kentucky State U.	218	4,299	3,506	4,615	7,605	7,487	0	0	118	0
Boston C.	219	7,119	7,427	6,009	7,509	0	6,161	1,348	0	0
U. Massachusetts, Boston	220	4,525	5,050	5,321	7,370	174	4,004	2,084	1,108	0
Texas Southern U.	221	3,925	3,112	4,949	7,314	0	6,467	0	0	847
Fort Valley State U.	222	4,492	4,313	7,103	7,300	7,300	0	0	0	0
U. of the Virgin Islands	223	5,976	5,203	7,183	7,183	2,227	2,708	0	0	2,248
Alabama A&M U.	224	3,305 i	4,368 i	5,421 i	7,171 i	456 i	2,310 i	4,228 i	177 i	0 i
U. Southern Mississippi	225	7,241	7,633	8,267	7,120	0	6,633	487	0	0
Texas State U.	226	2,260	4,329	5,297	6,976	1,364	3,866	1,489	0	257
Alcorn State U.	227	4,090	3,883	5,889 i	6,967	6,675	0	292	0	0
U. Maryland, Eastern Shore	228	2,567	4,039	5,260	6,935	5,377	1,117	427	14	0
CUNY, Hunter C.	229	5,303	4,388	4,334	6,882	0	4,291	2,591	0	0
Lehigh U.	230	3,834	4,707	7,323	6,852	0	5,400	23	0	1,429
U. Alaska, Anchorage	231	4,779	6,170	7,222	6,850	9	3,312	1,238	2,291	0
U. California, Merced	232	3,874	4,426	5,102	6,785	609	3,809	2,051	0	316
North Carolina Central U.	233	6,664	5,699	6,112	6,771 i	0 i	6,771 i	0 i	0 i	0 i

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Morgan State U.	234	4,679	5,281	6,754	6,697	415	2,891	3,391	0	0
Rosalind Franklin U. of Medicine and Science	235	8,421	9,041	6,905	6,687	0	5,917	770	0	0
U. Denver	236	2,721	3,327	4,031	6,681	43	6,265	323	50	0
SUNY, C. of Environmental Science and Forestry	237	6,831	5,510	5,839	6,481	551	1,264	0	4,549	117
Chapman U.	238	4,431	5,563	7,450	6,276	471	3,084	2,131	590	0
MGH Institute of Health Professions	239	3,014	2,500	4,628	6,200	0	3,900	2,300	0	0
U. Wisconsin-Milwaukee	240	5,581	5,486	6,205	6,168	0	2,173	3,995	0	0
Central Michigan U.	241	4,396	4,171	6,652	6,079	0	3,323	2,490	266	0
U. Maryland Center for Environmental Science	242	5,850	5,603	5,997	6,056	507	809	0	4,550	190
Nova Southeastern U.	243	4,572	5,098	4,574	6,019	0	0	6,019	0	0
Prairie View A&M U.	244	5,164	5,337	5,393	5,935	5,463	204	9	259	0
California State U., Northridge	245	5,678	3,292	3,898	5,783	0	3,981	375	0	1,427
California State U., Long Beach	246	3,635	2,651	3,212	5,512	0	1,852	3,535	125	0
Jackson State U.	246	1,848	2,686	4,783	5,512	0	625	4,887	0	0
U. Minnesota, Duluth	248	4,023	3,952	4,714	5,495	0	625	2	4,868	0
U. North Carolina, Charlotte	249	2,239	2,589	3,320	5,427	0	3,734	1,693	0	0
U. Nebraska, Omaha	250	4,927	6,315	6,620	5,350	0	1,052	4,298	0	0
Duquesne U.	251	3,359	3,706	4,508	5,247	0	1,287	3,960	0	0
Kent State U.	252	3,056	4,224	5,117	5,229	0	2,997	2,146	68	18
Baylor U.	253	3,385	5,327	6,263	4,988	196	2,980	1,329	368	115
Oakland U.	254	2,266	3,422	3,956	4,949	0	2,626	516	0	1,807
Langston U.	255	8,473	2,873	3,361	4,823	3,932	891	0	0	0
Southern U. and A&M C., Agricultural Research and Extension Center	256	2,085	3,588	4,261	4,688	4,688	0	0	0	0
Central State U.	257	2,444	3,552	4,108	4,670	4,346	133	51	88	52
Rowan U.	258	6,151	6,086	5,977	4,575	0	3,734	686	0	155
U. New England	259	4,383	3,453	3,382	4,560	0	3,980	577	3	0
Ball State U.	260	1,315	1,336	3,735	4,559	0	1,377	3,171	11	0
Michigan Technological U.	260	1,300	859	841	4,559	0	561	554	3,444	0
Rensselaer Polytechnic Institute	262	4,483	3,934	4,807	4,524	0	4,524	0	0	0
Virginia State U.	263	3,775	3,350	3,945	4,480	4,390	52	38	0	0
Xavier U. Louisiana	264	2,371	2,040	3,460	4,457	0	378	4,079	0	0
Illinois State U.	265	2,405	3,685	3,898	4,438	107	4,154	177	0	0
Tarleton State U.	266	3,534	3,983	4,308	4,375	3,706	0	0	669	0
U.S. Air Force Academy	267	0	369	244	4,130	0	4,130	0	0	0

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Western U. of Health Sciences	268	4,055	5,020	6,202	4,076	472	3,592	12	0	0
U. Memphis	269	3,520	3,928	4,155	4,058	0	1,629	2,280	141	8
Lincoln U., Jefferson City	270	3,351	5,444	8,695	3,978	3,978	0	0	0	0
CUNY, Advanced Science Research Center	271	4,166	4,399	3,669	3,954	0	3,487	0	467	0
U. North Texas, Denton	272	2,446	2,767	4,277	3,941	0	3,379	197	0	365
Texas A&M U.-Kingsville	273	5,908	4,752	3,904	3,823	2,027	1,333	0	463	0
Old Dominion U.	274	4,053	3,286	3,163	3,802	0	2,635	1,167	0	0
U. Colorado Denver ^b	275	na	1,487	1,484	3,659	0	687	2,948	24	0
California Polytechnic State U., San Luis Obispo	276	2,989	3,178	3,113	3,644	1,018	214	1,695	500	217
Idaho State U.	277	1,949	2,035	3,644	3,549	0	3,370	179	0	0
Clark Atlanta U.	278	3,468	3,496	2,923	3,531	0	3,531	0	0	0
U. North Carolina, Wilmington	279	3,327	2,861	2,495	3,465	0	2,051	97	1,248	69
U. Detroit Mercy	280	4,002	3,709	4,069	3,454	0	3,454	0	0	0
SUNY, Binghamton U.	281	2,273	1,649	2,334	3,338	0	1,348	1,984	6	0
Pacific U.	282	1,597	1,288	1,522	3,274	0	139	3,008	127	0
California State U., Monterey Bay	283	2,140	2,186	2,496	3,223	697	2,526	0	0	0
U. Hawaii, Hilo	284	2,989	3,113	2,826	3,217	1,272	331	886	559	169
U. of Health Sciences and Pharmacy in St. Louis	285	3,767	4,063	2,514	3,107	0	0	3,107	0	0
U. Arkansas, Pine Bluff	286	3,975	3,065	2,883	3,069	2,483	20	0	566	0
DePaul U.	287	313	423	2,030	3,041	0	1,273	1,455	31	282
South Carolina State U.	288	2,321	2,559	2,797	3,036	424	1,284	429	718	181
U. Central del Caribe	289	2,743	2,492	2,807	2,929	0	0	2,929	0	0
California State U., Fullerton	290	1,896	1,943	2,317	2,906	55	2,168	683	0	0
U. Missouri, Saint Louis	291	3,833	3,443	3,129	2,901	0	1,125	1,680	96	0
Midwestern U.	292	936	1,502	1,609	2,862	0	1,173	1,658	0	31
Miami U.	293	4,845	3,131	3,941	2,817	0	2,535	270	0	12
Winston-Salem State U.	294	2,043	2,515	2,419	2,814	0	399	2,415	0	0
Tennessee Technological U.	295	1,282	1,621	2,304	2,784	74	1,883	197	630	0
West Virginia State U.	296	3,540	4,117	4,276	2,777	2,777	0	0	0	0
San Jose State U.	297	1,268	1,047	2,038	2,763	0	2,254	509	0	0
Texas A&M U.-Corpus Christi	298	4,521	2,899	2,912	2,755	169	2,527	0	54	5
Alabama State U.	299	1,989	2,265	2,471	2,579	0	2,579	0	0	0
California State Polytechnic U., Pomona	300	1,692	1,607	1,717	2,551	725	1,826	0	0	0

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Mercer U.	301	1,912	2,344	2,175	2,494	0	0	2,494	0	0
U. Puerto Rico, Rio Piedras	302	2,911	3,247	2,524	2,477	0	2,477	0	0	0
SUNY, C. of Optometry	303	1,688	2,105	2,080	2,469	0	0	2,469	0	0
Oklahoma State U., Center for Health Sciences	304	2,469	1,934	2,421	2,295	0	465	1,830	0	0
Western Illinois U.	305	1,636	2,152	1,811	2,284	2,284	0	0	0	0
Arkansas State U., Jonesboro	306	3,344	2,909	2,317	2,237	377	1,860	0	0	0
Colby C.	307	289	217	665	2,233	0	620	0	0	1,613
New York Institute of Technology	308	981	1,118	1,716	2,212	0	939	1,273	0	0
Keck Graduate Institute	309	727 i	685 i	643	2,211	0	2,162	49	0	0
Dine C.	310	347	ne	2,091	2,131	186	410	1,075	460	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	311	2,291	1,972	1,930	2,126	0	1,922	203	1	0
William & Mary	312	1,499	1,635	2,027	2,121	0	1,584	0	537	0
Hope C.	313	282	408	2,130	2,076	0	2,076	0	0	0
Villanova U.	314	358	960	1,599	2,002	0	842	1,160	0	0
Chicago State U.	315	ne	ne	2,223	1,984	0	1,984	0	0	0
New England C. of Optometry	316	785	1,623	1,609	1,946	0	0	1,946	0	0
SUNY, Polytechnic Institute	317	1,297	1,408	1,673	1,884	0	1,724	160	0	0
Pennsylvania State U., Behrend	318	15	176	951	1,853	62	279	279	1,233	0
St. John's U., New York	318	1,375	1,541	1,595	1,853	0	534	1,319	0	0
Teachers C., Columbia U.	320	1,856	1,660	1,589	1,843	0	0	0	0	1,843
Gallaudet U.	321	383	372	946	1,815	0	185	1,630	0	0
Texas Woman's U.	322	805	991	1,420	1,787	0	1,105	682	0	0
New Mexico Highlands U.	323	170	944 i	1,355 i	1,765	0	458	0	1,307	0
U. Wisconsin-Stevens Point	324	2,058	1,573	1,111	1,763	412	3	0	1,348	0
California State Polytechnic U., Humboldt	325	1,636	1,020	1,216	1,758	176	161	0	1,245	176
Texas Tech U., Health Sciences Center, El Paso	326	1,675	1,566	1,751	1,757	0	960	797	0	0
Seton Hall U.	327	138	607	463	1,750	0	508	1,242	0	0
Hampton U.	328	1,745	1,685	1,659	1,745	0	1,252	493	0	0
U. Arkansas, Little Rock	329	2,187	1,978	1,488	1,707	0	1,701	6	0	0
Kennesaw State U.	330	933	636	715	1,694	0	1,665	29	0	0
Western Kentucky U.	331	1,385	889	1,041	1,688	354	435	740	0	159
Long Island U.	332	1,161	2,207	2,084	1,678	422	220	1,036	0	0
U. Dayton	333	542	529	780	1,664	0	179	1,269	216	0
Appalachian State U.	334	465	473	1,137	1,641	334	738	20	32	517

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Eastern Michigan U.	335	2,234	1,677	1,293	1,632	0	390	1,002	240	0
Saginaw Valley State U.	336	1,083	1,137 i	1,515 i	1,620 i	0 i	0 i	1,620 i	0 i	0 i
Louisiana Tech U.	337	619	562	1,158	1,598	428	325	845	0	0
California State U., Fresno	338	823	698	1,185	1,581	712	732	137	0	0
Pennsylvania State U., Harrisburg	339	381	1,278	1,094	1,578	0	272	1,306	0	0
Florida Gulf Coast U.	340	636	954	1,734	1,573	3	79	962	529	0
U. North Carolina, Asheville	341	797	953	996	1,520	0	111	667	0	742
Worcester Polytechnic Institute	342	954	1,065	1,589	1,519	0	1,519	0	0	0
Palmer C. of Chiropractic, Davenport	343	1,400	1,733	1,550	1,500	0	0	0	0	1,500
James Madison U.	344	618	1,031	1,146	1,479	0	1,448	6	25	0
Northern Kentucky U.	345	552	1,374	1,606	1,445	0	430	1,015	0	0
Lake Superior State U.	346	ne	ne	1,178	1,443	0	1,015	0	0	428
Bowling Green State U.	347	652	1,140	1,712	1,432	335	595	399	103	0
Hawaii Pacific U.	348	1,224	1,211	990	1,393	510	883	0	0	0
Southern Methodist U.	349	1,061	1,365	1,161	1,378	0	1,378	0	0	0
New Jersey Institute of Technology	350	14,836	7,820	5,041	1,374	0	1,374	0	0	0
Middle Tennessee State U.	351	1,080	1,394	1,944	1,372	579	743	50	0	0
Tougaloo C.	352	1,741	1,733 i	1,207 i	1,366 i	0 i	1,366 i	0 i	0 i	0 i
Wesleyan U.	353	382	581	878	1,360	0	1,360	0	0	0
Florida Institute of Technology	354	423	1,574	745	1,320	208	525	114	473	0
Barnard C.	355	489	897	1,082	1,315	0	1,315	0	0	0
Saint Joseph's U.	356	460	362	1,405	1,307	0	772	535	0	0
C. Charleston	357	619	894	1,146	1,301	2	1,218	0	81	0
Touro U., California	358	1,546	1,375	964	1,279	0	310	0	0	969
Northeastern Illinois U.	359	1,122	1,111	1,447	1,271	51	325	895	0	0
California State U., San Marcos	360	896	311	613	1,265	0	985	61	0	219
Albany C. of Pharmacy and Health Sciences	361	1,938	1,900	1,110	1,256 i	0 i	1,084 i	172 i	0 i	0 i
Reed C.	362	1,180	1,252 i	1,105 i	1,250 i	0 i	812 i	438 i	0 i	0 i
Bates C.	363	1,128	1,610	1,491	1,241	0	1,021	0	13	207
U. Nebraska, Kearney	364	1,035	1,126	1,663	1,240	13	435	622	170	0
Colorado School of Mines	365	1,784	2,479	2,233	1,222	0	1,218	4	0	0
Southern Illinois U., Edwardsville	366	1,232	1,631	1,340	1,219	296	543	380	0	0
California State U., Los Angeles	367	1,747	554	980	1,200	0	852	348	0	0
U. Louisiana, Monroe	367	1,788	1,232	1,612	1,200	0	144	1,056	0	0

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Southern U. and A&M C., Baton Rouge	369	336	395	810	1,199	0	882	148	169	0
Wichita State U.	370	2,632	6,332	2,016	1,183	0	1,109	74	0	0
Swarthmore C.	371	439	428	820	1,180	0	1,180	0	0	0
Black Hills State U.	372	691	650	1,142	1,157	0	1,157	0	0	0
U. Puget Sound	373	223	ne	621	1,124	0	1,058	0	0	66
Austin Peay State U.	374	410	411	601	1,112	0	264	16	832	0
Rochester Institute of Technology	375	668	763	765	1,105	0	864	241	0	0
Indiana U. Pennsylvania	376	667	989	814	1,088	0	1,088	0	0	0
Providence C.	377	347	311	ne	1,071	0	853	0	0	218
CUNY, C. Staten Island	378	377	849	1,047	1,069	0	504	565	0	0
California State U., East Bay	379	212	349	1,224	1,066	504	87	475	0	0
Clarkson U.	380	496	565	667	1,048	0	655	69	0	324
Ferris State U.	381	ne	ne	ne	1,044	0	229	815	0	0
Smith C.	381	881	775	866	1,044	0	942	102	0	0
Bowie State U.	383	414	96	1,462	1,002	0	485	181	0	336
Murray State U.	384	1,539	2,159	1,439	998	11	987	0	0	0
Nevada State C.	385	ne	ne	1,085	995	0	890	0	105	0
Fort Lewis C.	386	240	353	725	981	275	555	22	94	35
U. of the Pacific	387	654	606	981	970	0	782	188	0	0
Montclair State U.	388	1,323	1,115	1,058	962	5	337	431	189	0
Bucknell U.	389	361	354	777	948	0	948	0	0	0
Fisk U.	390	3,585	1,579	1,196	946	0	946	0	0	0
CUNY, Brooklyn C.	391	1,919	1,341	698	932	0	805	127	0	0
U. Texas, Tyler	392	677	781	1,258	913	0	246	667	0	0
California State U., Chico	393	380	267	314	910	256	654	0	0	0
Bowdoin C.	394	869	1,002	957	899	0	899	0	0	0
Missouri State U.	395	1,349	1,411	1,062	892	220	222	0	450	0
U. Alabama, Huntsville	395	622	330	398	892	23	823	46	0	0
U. North Florida	397	310	720	786	879	0	870	9	0	0
Spelman C.	398	624	633	685	869	0	783	86	0	0
Merrimack C.	399	168	ne	ne	865	0	0	865	0	0
Haverford C.	400	109	98	451	862	0	721	141	0	0
National U. of Natural Medicine	400	912	523	ne	862	0	0	862	0	0
U. West Florida	402	548	703	927	857	0	668	166	0	23

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Wellesley C.	403	1,326	1,418	859	848	0	781	41	26	0
Sam Houston State U.	404	637	1,212	1,532	844	84	760	0	0	0
Towson U.	405	374	323	618	841	0	680	33	128	0
U. Central Oklahoma	406	288 i	302 i	758 i	840 i	0 i	515 i	325 i	0 i	0 i
Amherst C.	407	608	527	1,269	826	0	826	0	0	0
Colorado State U., Pueblo	408	1,108	1,248	952	825	43	782	0	0	0
Yeshiva U.	409	486	1,256	1,013	810	129	0	681	0	0
Middlebury C.	410	483	999	643	801	0	801	0	0	0
U. Washington, Bothell	411	558	468	667	789	0	214	575	0	0
Georgia Southern U.	412	681	1,414	775	773	0	589	53	131	0
Grand Valley State U.	413	935	784	1,028	756	0	318	438	0	0
Butler U.	414	ne	ne	1,081	739	0	258	351	0	130
Southeastern Louisiana U.	415	473	429	805	736	0	685	51	0	0
U. Richmond	416	648	604	574	729	0	729	0	0	0
Clark U.	417	1,502	898	621	724	0	511	0	0	213
Stephen F. Austin State U.	418	619	680	602	722	652	69	1	0	0
U. Houston-Clear Lake	419	20	478	546	720	0	105	0	615	0
Fordham U.	420	883	717	575	718	0	718	0	0	0
Dillard U.	421	502	464	548	717	0	152	369	0	196
Framingham State U.	422	0	352 i	525 i	700	0	0	0	0	700
U. Akron	423	837	550	851	699	0	643	44	0	12
Williams C.	424	396 i	420 i	614 i	695 i	0 i	695 i	0 i	0 i	0 i
U. Central Arkansas	425	357	386	583	692	0	591	50	51	0
C. New Jersey	426	328	347	651	689	0	688	1	0	0
U. Tennessee, Chattanooga	427	552	594	662	685	0	633	52	0	0
U. Wisconsin-Green Bay	428	490 i	487 i	582 i	680 i	0 i	241 i	439 i	0 i	0 i
Edward Via C. of Osteopathic Medicine	429	566	537	482	678	0	0	678	0	0
Oregon Institute of Technology	430	67	123 i	166 i	671 i	0 i	360 i	230 i	81 i	0 i
Northern Illinois U.	431	401	1,088	852	669	0	359	171	139	0
United Tribes Technical C.	432	ne	ne	ne	666	0	0	76	31	559
Hofstra U.	433	308	385	487	638	0	627	11	0	0
St. Olaf C.	434	40	147	ne	625	0	287	4	0	334
CUNY, Lehman C.	435	136	146	302	614	0	576	38	0	0
U. San Francisco	436	0	19	158	612	0	283	329	0	0

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
CUNY, Baruch C.	437	117	749	780	608	0	608	0	0	0
Kenyon C.	438	520	ne	724	605	0	563	0	42	0
SUNY, C. Brockport	438	444	213	529	605	0	7	0	598	0
Bryn Mawr C.	440	100	194	448	603	0	603	0	0	0
Mount Holyoke C.	441	333	434	493	601	0	601	0	0	0
Ursinus C.	442	ne	ne	ne	578	0	578	0	0	0
Franklin and Marshall C.	443	502	676	908	572	0	446	126	0	0
Northland C.	444	ne	450 i	502 i	568 i	0 i	551 i	0 i	17 i	0 i
Skidmore C.	444	799	873	188	568	0	241	327	0	0
Texas Christian U.	446	228	341	363	567	132	189	246	0	0
Catholic U. of America	447	1,660	1,255	521	565	0	565	0	0	0
Clafin U.	448	854	505	458	562	0	337	225	0	0
Hobart and William Smith Colleges	449	730	630	737	558	0	120	0	438	0
Roger Williams U.	450	166	378	535	557	48	444	40	0	25
U. South Carolina, Aiken	451	870	554	721	549	0	549	0	0	0
Northwest Indian C.	452	365 i	435 i	504	539 i	0 i	0 i	539 i	0 i	0 i
Southern U., New Orleans	453	ne	ne	ne	536	0	0	0	0	536
U. of the Incarnate Word	454	545	597	340	535	0	443	92	0	0
Western Carolina U.	455	750	998	970	534	92	202	240	0	0
U. Wisconsin-Oshkosh	456	635 i	630	511	531	0	490	0	41	0
U. Texas of the Permian Basin	457	328	962	797	522	0	522	0	0	0
West Texas A&M U.	458	409	236	268	517	509	0	0	8	0
U. Hawaii, Maui C.	459	ne	241	ne	510	0	85	0	425	0
Grinnell C.	460	29	17	20	509	0	509	0	0	0
California State U., Channel Islands	461	151	143	342	507	0	472	0	35	0
West Virginia School of Osteopathic Medicine	462	414	418	468	500 i	0 i	127 i	373 i	0 i	0 i
U. Northern Colorado	463	549	622	634	496	0	349	18	0	129
Elizabeth City State U.	464	428	751	802	495	0	415	0	80	0
Montana Technological U.	465	339	305	335	492	0	492	0	0	0
U. Alaska, Southeast	466	521	745	420	490	0	210	0	280	0
Fayetteville State U.	467	408	30	437	484 i	0 i	62 i	422 i	0 i	0 i
Southern Connecticut State U.	468	141	128	353	481	100	129	242	10	0
New Mexico Institute of Mining and Technology	469	255	244	593	480	0	480	0	0	0
Occidental C.	470	289	367	410 i	464 i	111 i	353 i	0 i	0 i	0 i

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. Washington, Tacoma	471	161	241	309	463	0	442	0	21	0
Marian U., Indianapolis	472	ne	ne	ne	462	0	326	89	47	0
Embry-Riddle Aeronautical U.	473	17	0	540	460	0	0	311	0	149
California State U., San Bernardino	474	435	199	305	453	0	441	12	0	0
California State U., Sacramento	475	434	379	400	451	0	320	31	100	0
Eastern Washington U.	475	391	414	394	451	0	241	0	210	0
Lewis and Clark C.	477	538	258	345	449	0	449	0	0	0
Philadelphia C. of Osteopathic Medicine	478	422	318	40	442	0	442	0	0	0
U. Tulsa	479	295	330	360	438	0	438	0	0	0
Marshall B. Ketchum U.	480	323 i	343 i	383 i	433 i	0 i	0 i	433 i	0 i	0 i
Santa Clara U.	481	503	410	482	432	0	379	0	53	0
Harvey Mudd C.	482	444	316	534	417	0	417	0	0	0
Pittsburg State U.	483	306	258	518	415	0	100	0	315	0
Sonoma State U.	484	178	298	452	410	0	339	0	71	0
Morehouse C.	485	120	90	451	400	0	247	0	0	153
National Defense U.	485	200	400	400	400	0	400	0	0	0
Trinity U.	487	296	184	230	398	0	398	0	0	0
Seattle U.	488	86	29	180	395	40	133	222	0	0
California State U., Stanislaus	489	752	702	481	388	0	388	0	0	0
West Chester U. Pennsylvania	489	410	310	385	388	0	236	152	0	0
Northern Michigan U.	491	127	163	303	386	0	320	0	66	0
Western Washington U.	491	243	175	328	386	0	386	0	0	0
U. Puerto Rico, Ponce	493	ne	ne	ne	382	0	382	0	0	0
California State U., Bakersfield	494	70	61	58	375	89	286	0	0	0
Sul Ross State U.	495	463	200 i	285 i	371	151	220	0	0	0
CUNY, York C.	496	450	71	355	366	0	245	121	0	0
Naval Postgraduate School	496	1,655	1,209	704	366	0	0	170	0	196
U. Puerto Rico, Mayaguez	496	1,426	1,729	583	366	83	273	0	10	0
Texas A&M U.-San Antonio	499	ne	ne	200	360	0	206	0	154	0
Rhode Island C.	500	504	1,043	629	358	0	358	0	0	0
Benedict C.	501	42	ne	ne	354	354	0	0	0	0
Pepperdine U.	502	121	282	238	351	0	231	95	25	0
Calvin U.	503	273 i	273 i	274	348	0	348	0	0	0
Bryant U.	504	ne	ne	ne	347	0	347	0	0	0

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
American U.	505	531	292	252	345	0	345	0	0	0
Vassar C.	506	16	87	544	344	0	344	0	0	0
U. Colorado Colorado Springs	507	705	741	313	343	0	343	0	0	0
Davidson C.	508	200	259	325	338	0	338	0	0	0
Texas A&M International U.	509	123	65	355	333	0	230	103	0	0
Morehead State U.	510	223	782	287	326	0	181	0	145	0
Oberlin C.	510	252	214	ne	326	0	326	0	0	0
Des Moines U.	512	265	554	865	324	0	158	166	0	0
Trinity C., Hartford	513	903	885	811	319	0	319	0	0	0
Loyola Marymount U.	514	261	243	665	317	0	317	0	0	0
U. Wisconsin-La Crosse	515	402	397	486	315	0	315	0	0	0
Stockton U.	516	85	247	291	313	0	74	0	239	0
Eastern Kentucky U.	517	378	349	ne	306	36	154	0	116	0
Savannah State U.	518	234	268	255	305	0	15	147	0	143
Minnesota State U., Mankato	519	205	300	458	298	4	294	0	0	0
Norwich U.	520	ne	ne	ne	291	0	95	196	0	0
U. Oklahoma, Tulsa	521	493	260	416	287	0	0	287	0	0
Troy U.	522	269	216	117	283	207	0	0	76	0
Indiana State U.	523	339	86	245	282	0	0	282	0	0
Colgate U.	524	84	331	170	273	0	273	0	0	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	524	342	376	858	273	0	273	0	0	0
California State U., Dominguez Hills	526	81	61	254	263	0	263	0	0	0
Connecticut C.	527	48	89	152	257	0	257	0	0	0
Milwaukee School of Engineering	528	0	0	0	255	0	0	0	0	255
Kean U.	529	0	18	142	251	48	203	0	0	0
U. New Haven	530	9	45	131	250	0	111	139	0	0
U. Northern Iowa	531	129	48	147	249	115	134	0	0	0
U. Michigan, Dearborn	532	283	215	215	248	0	70	178	0	0
St. Edward's U.	533	1,575	1,400	414	247	59	110	78	0	0
Claremont McKenna C.	534	396	274	272	239	0	239	0	0	0
Utah Valley U.	535	ne	ne	261	237	0	237	0	0	0
Coastal Carolina U.	536	157	216	195	233	0	137	30	66	0
Lamar U.	537	221	357	63	232	0	50	182	0	0
Lincoln U.	537	ne	ne	ne	232	5	153	74	0	0

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Texas A&M U.-Commerce	539	26	165	409	228	228	0	0	0	0
Furman U.	540	356	307	283	226	0	219	0	0	7
Wheaton C., Wheaton	541	142	18	ne	221	0	0	160	61	0
Missouri U. of Science and Technology	542	130	97	172	220	0	220	0	0	0
SUNY, C. Plattsburgh	543	429	279	112	217	0	0	217	0	0
U. Massachusetts, Dartmouth	544	253	211	191	213	0	213	0	0	0
U. Houston-Downtown	545	0	0	93	199	0	71	45	83	0
SUNY, Geneseo	546	58	61	85	196	0	196	0	0	0
Salisbury U.	547	32	88	112	195	0	157	0	38	0
U. Wisconsin-Platteville	548	117 i	145 i	179 i	191 i	60 i	69 i	45 i	17 i	0 i
CUNY, John Jay C. of Criminal Justice	549	48	48	479	180	0	0	0	0	180
Bentley U.	550	ne	ne	0	178	0	0	159	19	0
U. Virginia's C. Wise	550	ne	111	110	178	39	139	0	0	0
U. Wisconsin-River Falls	552	110	48	ne	176	126	50	0	0	0
Monmouth U.	553	0	16	81	174	15	122	0	37	0
Pomona C.	554	180	202	223	170	0	170	0	0	0
U. New Orleans	554	148	245	193	170	0	170	0	0	0
Macalester C.	556	121	10	77	163	0	116	47	0	0
CUNY, New York City C. of Technology	557	394	311	293	162	0	162	0	0	0
Elon U.	557	16	39	97	162	0	22	0	0	140
Albany State U.	559	445	232	ne	158	0	158	0	0	0
Purdue U., Northwest	560	176	155	153	155	0	28	127	0	0
Winthrop U.	561	465	103	204	150	0	150	0	0	0
Youngstown State U.	562	0	20	251	149	0	131	18	0	0
Liberty U.	563	44	45	ne	148	0	148	0	0	0
Willamette U.	564	35	367	411	143	0	143	0	0	0
Colorado C.	565	20	97	0	141	0	0	0	141	0
U. Scranton	566	ne	ne	ne	138	0	138	0	0	0
SUNY, Cobleskill	567	ne	ne	0	136	0	0	0	136	0
U. Southern Maine	568	94	143	107	129	14	38	0	77	0
Carleton C.	569	82	115	87	127 i	0 i	127 i	0 i	0 i	0 i
Christopher Newport U.	570	160	70	293	122	0	122	0	0	0
Sacred Heart U.	571	ne	0	ne	120	0	0	0	0	120
U.S. Military Academy	571	295	2,574	130	120	0	120	0	0	0

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Grambling State U.	573	0	0	173	118	0	74	44	0	0
U. Puerto Rico, Humacao	574	255	111	1	117	0	55	0	62	0
Pace U.	575	753	298	178	108	0	108	0	0	0
Drake U.	576	ne	123	205	104	0	63	26	15	0
Stevens Institute of Technology	576	3	83	833	104	0	104	0	0	0
U. San Diego	578	65	28	39	101	0	75	26	0	0
East Stroudsburg U. Pennsylvania	579	ne	ne	128	100	0	85	0	15	0
Marymount U.	580	ne	163	17	99	0	66	33	0	0
U. of St. Thomas (MN)	580	242	113	102	99	0	99	0	0	0
Johnson C. Smith U.	582	412	160	146	98	0	0	98	0	0
Lafayette C.	583	50	55	573	96	0	96	0	0	0
SUNY, Oswego	584	190	72	82	87	0	39	0	48	0
U. South Carolina, Beaufort	584	ne	ne	ne	87	87	0	0	0	0
Western New England U.	586	ne	ne	134	83	0	0	83	0	0
Whitman C.	586	302	ne	103	83	0	75	0	8	0
Dakota State U.	588	48	80	0	81	0	81	0	0	0
U. of Mary Washington	589	85	119	111	78	0	78	0	0	0
Radford U.	590	ne	ne	ne	70	0	53	17	0	0
New C. Florida	591	ne	ne	ne	68	0	21	0	47	0
U. of the District of Columbia	592	235	1,896	1,978	66	27	24	0	0	15
Lipscomb U.	593	0	0	ne	65	0	0	65	0	0
St. Cloud State U.	594	126	91	81	63	63	0	0	0	0
U. Puerto Rico, Cayey	594	604	316	30	63	0	45	18	0	0
Purdue U., Fort Wayne	596	117	44	20	55	0	55	0	0	0
Norfolk State U.	597	114	88	101	54	0	54	0	0	0
Ithaca C.	598	408	187	262	53	0	43	10	0	0
U. Hartford	598	101	77	70	53	0	0	53	0	0
William Paterson U.	600	103	210	468	49	0	23	26	0	0
CUNY, system office	601	84	37	38	45	0	45	0	0	0
C. Wooster	602	81	80	116	44	2	42	0	0	0
Eastern Connecticut State U.	603	177	108	36	39	0	38	0	1	0
Gettysburg C.	603	13	ne	ne	39	0	39	0	0	0
SUNY, Buffalo State U.	603	176	29	29	39	0	39	0	0	0
Roseman U. of Health Sciences	606	56	53	30	38	0	0	38	0	0

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2023 life sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Citadel Military C. South Carolina	607	49	77	124	32	5	24	0	3	0
C. of Saint Benedict	608	0 i	24 i	27 i	31 i	0 i	18 i	13 i	0 i	0 i
Suffolk U.	609	29	33	14	30	0	30	0	0	0
Central Washington U.	610	198	128	42	28	0	20	0	8	0
Hamilton C.	611	26	86	75	26	0	26	0	0	0
Claremont Graduate U.	612	0	0	0	25	0	25	0	0	0
U. California, Office of the President	612	217	342	158	25	25	0	0	0	0
U. North Georgia	614	91	39	54	24	0	24	0	0	0
U. Wisconsin-Eau Claire	615	30	42	0	23	0	23	0	0	0
Gustavus Adolphus C.	616	ne	ne	ne	20	0	20	0	0	0
Arcadia U.	617	ne	94	ne	18	0	0	18	0	0
Northwestern State U. Louisiana	618	1	0	13	14 i	0 i	0 i	14 i	0 i	0 i
Alaska Pacific U.	619	38	29	20	7	7	0	0	0	0
Azusa Pacific U.	619	116	42	7	7	0	0	7	0	0
Central Connecticut State U.	619	73	97	23	7	0	7	0	0	0
U. Wisconsin-Superior	622	1,343	1,800	3,536	4	0	0	0	4	0
U. Illinois, Springfield	623	0	1	28	3	0	3	0	0	0
Babson C.	624	0	0	0	2	0	0	0	2	0
Lincoln Memorial U.	624	ne	ne	ne	2	2	0	0	0	0
All other surveyed institutions	-	519,114	193,126	179,908	0	0	0	0	0	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified.

^a Johns Hopkins University includes the Applied Physics Laboratory, with \$35,396 thousand in federally financed R&D expenditures in life sciences in FY 2023.^b The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.^c The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.^d The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.^e The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.^f Touro University, New York includes the Lovelace Biomedical Research Institute. In FY 2023, the Lovelace Biomedical Research Institute joined the Touro University System.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 44

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2023 agricultural sciences and natural resources conservation total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
		2020	2021	2022	2023	2023	2023	2020	2021	2022	2023	2023	2023
All institutions	-	4,527,521	4,488,384	4,952,648	5,365,205	4,285,689	1,079,516	1,485,208	1,531,314	1,749,401	1,971,543	1,458,868	512,675
U. Florida	1	233,690	228,232	248,663	261,866	238,803	23,063	61,814	57,900	64,426	67,446	59,450	7,996
Texas A&M U., College Station and Health Science Center	2	200,508	195,660	227,880	253,874	234,915	18,959	52,021	52,146	59,822	66,548	55,376	11,172
Colorado State U., Fort Collins	3	163,384	187,752	182,374	204,776	68,745	136,031	114,462	129,050	132,281	143,817	23,990	119,827
U. California, Davis	4	150,069	143,311	152,571	170,896	170,896	0	34,067	32,317	45,346	47,884	47,884	0
Michigan State U.	5	126,904	127,515	142,331	157,701	142,085	15,616	38,894	41,449	45,777	55,798	52,018	3,780
Cornell U.	6	139,521	123,927	135,439	149,848	124,227	25,621	37,466	35,393	36,595	42,535	39,031	3,504
Purdue U., West Lafayette	7	123,324	122,841	135,315	147,520	147,520	0	33,464	37,063	43,025	51,892	51,892	0
U. Wisconsin-Madison	8	105,235	115,937	129,292	145,978	144,969	1,009	33,870	40,457	47,380	55,200	55,114	86
U. Minnesota, Twin Cities	9	129,207	122,668	129,454	145,585	88,091	57,494	34,793	35,744	41,367	50,492	34,200	16,292
U. Missouri, Columbia	10	84,797	99,983	117,308	142,095	122,054	20,041	24,267	29,409	40,303	65,548	57,022	8,526
North Carolina State U.	11	108,002	108,416	122,332	141,251	141,251	0	19,714	23,589	32,645	42,459	42,459	0
U. Georgia	12	122,712	114,117	127,016	133,052	132,030	1,022	32,666	30,083	38,838	39,657	39,657	0
U. Illinois, Urbana-Champaign	13	161,358	162,189	171,622	130,658	81,241	49,417	65,375	65,980	73,839	52,872	33,560	19,312
Mississippi State U.	14	106,989	114,811	122,973	129,457	108,551	20,906	32,121	36,694	40,206	43,383	34,361	9,022
U. Nebraska, Lincoln and Medical Center ^a	15	na	na	na	127,500	106,723	20,777	na	na	na	36,884	28,261	8,623
Oregon State U.	16	96,878	98,213	111,314	122,071	90,915	31,156	36,754	38,784	47,783	54,407	37,523	16,884
Virginia Polytechnic Institute and State U.	17	110,301	106,619	120,664	113,094	84,682	28,412	28,411	31,754	35,918	37,712	25,457	12,255
Washington State U.	18	109,269	114,256	111,879	109,796	105,370	4,426	29,226	39,440	41,557	44,759	43,232	1,527
North Dakota State U.	19	87,874	92,492	102,515	106,676	96,881	9,795	10,228	13,243	12,789	14,531	13,334	1,197
Louisiana State U., Baton Rouge	20	97,776	97,527	101,431	104,692	94,162	10,530	18,499	21,161	22,463	24,387	20,707	3,680
Kansas State U.	21	95,332	92,231	98,598	103,613	103,613	0	28,326	29,741	32,226	33,141	33,141	0
Ohio State U.	22	78,240	78,004	96,471	96,000	82,811	13,189	34,209	35,592	38,769	39,499	33,382	6,117
Pennsylvania State U., University Park and Hershey Medical Center	23	101,950	88,295	95,970	91,711	76,450	15,261	39,389	26,615	31,745	30,759	27,765	2,994
Iowa State U.	24	51,947	51,837	85,319	85,524	85,524	0	24,024	21,142	32,767	31,715	31,715	0
U. California, Berkeley	25	72,606	76,411	76,716	85,272	6,615	78,657	26,274	27,098	29,119	30,839	678	30,161
U. Arkansas, Fayetteville	26	67,999	69,390	79,353	85,026	72,798	12,228	13,186	11,376	14,728	18,116	14,590	3,526
Auburn U., Auburn	27	73,703	71,120	85,625	83,666	81,428	2,238	14,290	19,288	22,023	30,294	29,320	974
U. Arizona	28	63,861	63,062	69,152	81,238	66,914	14,324	20,111	19,584	20,723	29,476	22,126	7,350
U. Maryland ^b	29	54,930	54,140	58,272	70,834	68,319	2,515	24,881	24,472	30,832	36,495	35,211	1,284
U. Idaho	30	50,957	48,205	53,416	67,641	52,219	15,422	16,228	15,947	18,218	27,898	21,761	6,137

TABLE 44

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2023 agricultural sciences and natural resources conservation total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total						Federally financed							
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation		
		2020	2021	2022	2023	2023	2023	2020	2021	2022	2023	2023	2023		
Rutgers, State U. New Jersey, New Brunswick	31	77,439	64,908	69,637	67,614	65,222	2,392	24,468	31,252	26,439	23,701	21,851	1,850		
U. Kentucky	32	69,756	63,522	61,281	66,265	66,265	0	13,703	13,036	12,948	16,117	16,117	0		
U. Tennessee, Knoxville	33	51,999	49,803	56,586	64,334	54,420	9,914	15,842	14,186	15,115	18,463	12,857	5,606		
Utah State U.	34	48,834	46,361	51,009	55,555	35,549	20,006	21,159	20,644	24,826	25,086	14,421	10,665		
Montana State U., Bozeman	35	40,881	44,174	51,295	54,181	54,025	156	12,020	14,586	18,441	21,676	21,612	64		
Texas Tech U.	36	31,317	36,386	39,791	50,807	44,566	6,241	2,685	3,403	5,453	8,264	6,687	1,577		
Oklahoma State U., Stillwater	37	46,936	45,875	45,257	50,222	34,453	15,769	9,060	10,370	11,444	12,049	7,084	4,965		
South Dakota State U.	38	41,442	32,467	38,410	48,313	44,565	3,748	11,921	7,918	10,400	16,208	14,006	2,202		
U. Vermont	39	23,292	27,833	32,296	38,782	30,263	8,519	10,687	14,122	17,156	23,104	21,073	2,031		
New Mexico State U.	40	31,700	32,291	32,886	37,648	37,545	103	7,867	7,532	6,986	10,236	10,146	90		
U. Delaware	41	32,048	30,290	30,550	34,194	34,194	0	8,759	9,280	9,031	9,917	9,917	0		
U. Massachusetts, Amherst	42	23,951	24,423	29,498	32,967	23,426	9,541	13,918	14,403	15,683	18,026	13,073	4,953		
U. Maine	43	28,023	28,286	30,035	32,885	21,727	11,158	14,264	14,578	15,187	17,133	10,585	6,548		
Clemson U.	44	23,702	21,945	25,933	29,653	29,632	21	6,920	6,629	9,076	10,578	10,578	0		
U. Texas M. D. Anderson Cancer Center	45	22,868	21,748	22,773	28,775	28,775	0	8,112	7,306	4,050	9,626	9,626	0		
U. Michigan, Ann Arbor	46	24,512	20,106	23,636	27,445	2,872	24,573	10,218	6,254	8,303	10,319	5	10,314		
West Virginia U.	47	23,438	22,267	25,295	27,090	16,080	11,010	9,298	9,364	11,360	12,568	6,409	6,159		
U. Wyoming	48	23,104	16,213	22,535	26,925	18,589	8,336	16,085	11,557	13,276	16,880	10,653	6,227		
U. Washington, Seattle	49	25,393	26,338	25,673	26,623	150	26,473	13,552	14,570	13,475	13,908	0	13,908		
U. New Hampshire	50	25,849	23,015	29,552	26,295	17,902	8,393	13,460	12,790	12,985	12,785	6,709	6,076		
U. California, Riverside	51	21,969	22,645	28,479	25,563	25,563	0	6,876	8,249	12,449	10,875	10,875	0		
U. Connecticut	52	11,816	14,299	18,240	22,933	15,498	7,435	5,443	5,293	7,548	9,602	7,028	2,574		
U. Montana, Missoula	53	18,646	20,918	20,744	20,774	421	20,353	8,806	10,599	10,353	9,858	0	9,858		
U. Hawaii, Manoa	54	15,802	15,585	18,553	20,289	18,600	1,689	8,710	7,780	10,882	11,977	10,772	1,205		
North Carolina A&T State U.	55	15,051	17,606	16,684	19,965	16,641	3,324	5,490	7,280	8,401	9,639	7,313	2,326		
SUNY, C. of Environmental Science and Forestry	56	16,412	16,516	19,287	19,505	1,198	18,307	3,767	3,119	3,846	5,100	551	4,549		
U. Minnesota, Duluth	57	18,489	17,840	17,911	19,186	0	19,186	3,431	3,178	3,838	4,868	0	4,868		
U. Nevada, Reno	58	14,600	13,288	17,477	18,885	8,697	10,188	6,336	6,121	7,742	7,566	3,499	4,067		
Tennessee State U.	59	14,375	16,514	13,897	16,690	16,690	0	8,783	10,168	7,328	11,163	11,163	0		
Texas A&M U.-Kingsville	60	15,336	14,955	15,118	16,019	14,713	1,306	4,788	3,595	2,345	2,490	2,027	463		
Princeton U.	61	10,766	8,592	10,751	15,432	0	15,432	3,286	2,012	2,242	3,499	0	3,499		
Fort Valley State U.	62	4,452	4,456	9,623	15,331	15,331	0	4,371	4,192	6,919	7,300	7,300	0		

TABLE 44

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2023 agricultural sciences and natural resources conservation total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
		2020	2021	2022	2023	2023	2023	2020	2021	2022	2023	2023	2023
Southern Illinois U., Carbondale	63	11,793	13,088	13,997	15,006	14,740	266	3,684	3,720	4,093	5,172	5,172	0
Tufts U.	64	5,539	1,450	3,836	14,774	4,674	10,100	2,693	1,073	1,993	7,550	2,540	5,010
Florida A&M U.	65	10,409	9,905	12,973	14,763	14,011	752	8,321	7,891	9,869	11,242	10,490	752
Tuskegee U.	66	5,871	5,873	10,137	11,670	11,670	0	5,084	5,083	4,508	5,324	5,324	0
Kentucky State U.	67	7,806	8,546	9,156	11,578	11,460	118	4,299	3,506	4,615	7,605	7,487	118
Northern Arizona U.	68	8,781	8,626	6,936	11,378	1,922	9,456	4,431	4,387	4,868	6,556	849	5,707
Alcorn State U.	69	7,810	6,532	9,631	11,084	11,084	0	3,983	3,626	5,642	6,675	6,675	0
Southern Illinois U., Edwardsville	70	3,324	416	7,055	10,957	10,933	24	0	49	117	296	296	0
U. Alaska, Fairbanks	71	16,163	13,087	9,315	10,755	4,041	6,714	3,534	4,183	4,558	5,571	1,544	4,027
Prairie View A&M U.	72	7,853	7,806	9,096	10,113	9,816	297	4,747	4,989	5,112	5,722	5,463	259
Central State U.	73	5,313	7,851	8,479	10,034	9,809	225	2,306	3,269	3,892	4,434	4,346	88
U. Guam	74	7,112	8,631	8,685	9,984	4,937	5,047	4,386	5,833	5,851	7,123	3,725	3,398
Duke U.	75	10,726	10,570	10,004	9,756	0	9,756	5,691	5,392	5,463	5,414	0	5,414
Yale U.	76	11,175	11,340	7,514	9,041	0	9,041	5,185	4,948	4,888	4,717	0	4,717
Virginia State U.	77	5,920	6,918	7,305	8,871	8,871	0	3,572	3,122	3,774	4,390	4,390	0
Tarleton State U.	78	5,716	6,607	7,801	8,691	7,186	1,505	3,519	3,983	4,308	4,375	3,706	669
Langston U.	79	10,615	4,333	4,294	8,150	8,150	0	5,245	1,929	2,341	3,932	3,932	0
Delaware State U.	80	3,090	3,147	5,219	7,864	6,702	1,162	2,032	2,336	4,525	5,158	4,151	1,007
Michigan Technological U.	81	0	0	18	7,803	0	7,803	0	0	0	3,444	0	3,444
California Polytechnic State U., San Luis Obispo	82	4,021	3,273	5,507	6,995	4,586	2,409	544	700	1,081	1,518	1,018	500
West Texas A&M U.	83	3,549	6,229	5,963	6,982	6,974	8	409	236	268	517	509	8
Southern U. and A&M C., Agricultural Research and Extension Center	84	3,515	5,104	5,939	6,728	6,298	430	2,085	3,448	4,121	4,688	4,688	0
Lincoln U., Jefferson City	85	5,170	6,834	11,109	6,626	6,626	0	3,117	4,933	8,695	3,978	3,978	0
U. Maryland Center for Environmental Science	86	7,161	7,518	7,105	6,565	1,054	5,511	4,534	4,842	5,028	5,057	507	4,550
Arizona State U.	87	457	550	2,543	6,382	130	6,252	57	164	293	758	93	665
U. Arkansas, Pine Bluff	88	7,218	6,740	6,291	6,034	5,468	566	3,820	2,978	2,877	3,049	2,483	566
California State Polytechnic U., Humboldt	89	5,673	4,142	3,167	5,936	731	5,205	1,028	866	894	1,421	176	1,245
U. Maryland, Eastern Shore	90	2,044	3,555	4,474	5,689	5,675	14	2,039	3,284	4,297	5,391	5,377	14
U. Rhode Island	91	3,400	4,211	4,240	5,436	5,436	0	1,970	2,105	2,339	3,730	3,730	0
U. Texas, Austin	92	2,584	3,261	4,242	5,387	167	5,220	1,016	1,252	1,495	1,930	3	1,927
West Virginia State U.	93	4,327	6,412	6,693	5,203	5,203	0	2,792	4,093	4,268	2,777	2,777	0
Brigham Young U., Provo	94	2,559	3,186	2,955	4,955	4,942	13	1,090	1,746	1,597	1,839	1,839	0

TABLE 44

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2023 agricultural sciences and natural resources conservation total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
		2020	2021	2022	2023	2023	2023	2020	2021	2022	2023	2023	2023
Georgia Institute of Technology	95	3,820	4,051	4,307	4,395	4,395	0	0	0	0	5	5	0
Florida State U.	96	2,973	3,485	4,047	4,086	104	3,982	1,077	1,064	1,583	1,173	77	1,096
Harvard U.	97	3,028	8,049	7,218	4,068	0	4,068	1,884	5,613	4,176	2,259	0	2,259
Portland State U.	98	3,657	3,409	4,274	4,049	0	4,049	2,260	2,002	3,146	2,938	0	2,938
Long Island U.	99	0	0	37	4,002	4,002	0	0	0	0	422	422	0
California State U., Fresno	100	3,277	2,994	2,925	3,848	3,848	0	451	255	620	712	712	0
Columbia U. in the City of New York	101	4,151	4,370	5,324	3,842	0	3,842	1,434	1,448	2,148	1,584	0	1,584
U. Wisconsin-Stevens Point	102	4,080	3,509	3,023	3,815	689	3,126	2,037	1,571	1,105	1,760	412	1,348
U. California, Santa Cruz	103	3,247	3,252	3,304	3,576	3,576	0	159	144	163	128	128	0
U. Louisiana, Lafayette	104	262	944	3,109	3,423	1,433	1,990	122	211	101	111	11	100
Florida International U.	105	2,156	1,771	4,428	3,359	76	3,283	1,495	1,126	2,472	2,587	58	2,529
U. Colorado Boulder	106	2,585	3,523	3,286	3,270	1,466	1,804	1,183	1,557	1,941	1,530	635	895
U. Kansas	107	9,641	1,779	3,357	3,261	0	3,261	4,658	1,042	2,506	2,260	0	2,260
U. Hawaii, Hilo	108	1,245	1,886	3,059	3,210	2,481	729	711	1,186	1,483	1,831	1,272	559
U. of the Virgin Islands	109	4,392	3,490	3,126	3,126	3,126	0	3,265	2,706	2,227	2,227	2,227	0
U. New Mexico	110	3,768	2,636	2,221	3,066	17	3,049	2,230	1,168	688	1,038	13	1,025
Cold Spring Harbor Laboratory	111	1,657	2,272	2,112	2,938	2,938	0	1,581	2,207	2,105	2,934	2,934	0
U. Alaska, Anchorage	112	1,246	878	1,538	2,836	9	2,827	761	799	1,453	2,300	9	2,291
U. Massachusetts, Boston	113	1,020	1,113	885	2,652	200	2,452	107	119	150	1,282	174	1,108
Drexel U.	114	3,361	3,579	2,983	2,639	0	2,639	365	492	671	255	0	255
William & Mary	115	453	827	626	2,583	0	2,583	294	403	542	537	0	537
Western Illinois U.	116	1,062	2,012	1,887	2,523	2,523	0	983	1,878	1,803	2,284	2,284	0
Boise State U.	117	1,184	1,608	1,653	2,409	1,039	1,370	783	1,042	1,179	1,606	753	853
California State U., Monterey Bay	118	1,164	1,409	1,637	2,251	2,195	56	281	231	352	697	697	0
Texas State U.	119	376	544	957	2,165	2,165	0	291	414	644	1,364	1,364	0
U. North Carolina, Wilmington	120	1,818	1,934	2,178	2,137	372	1,765	846	928	1,003	1,248	0	1,248
U. Texas Rio Grande Valley	121	1,324	1,434	1,610	2,040	1,952	88	1,145	1,360	1,460	1,847	1,801	46
California State U., Chico	122	1,224	1,233	1,348	1,985	1,985	0	210	156	251	256	256	0
Stanford U.	122	1,983	1,074	1,699	1,985	0	1,985	1,161	861	834	964	0	964
U. Wisconsin-River Falls	124	125	551	ne	1,972	1,972	0	64	32	ne	126	126	0
Pennsylvania State U., Behrend	125	0	509	699	1,876	221	1,655	0	176	475	1,295	62	1,233
U. Miami	126	791	911	1,166	1,824	0	1,824	603	632	976	1,215	0	1,215

TABLE 44

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2023 agricultural sciences and natural resources conservation total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total						Federally financed							
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation		
		2020	2021	2022	2023	2023	2023	2020	2021	2022	2023	2023	2023		
Tennessee Technological U.	127	1,042	1,019	1,434	1,809	866	943	412	533	771	704	74	630		
Morgan State U.	128	224	416	462	1,772	1,772	0	25	75	162	415	415	0		
Stephen F. Austin State U.	129	1,695	1,882	1,620	1,753	1,753	0	619	680	602	652	652	0		
California State Polytechnic U., Pomona	130	838	2,002	1,748	1,745	1,745	0	327	391	467	725	725	0		
Austin Peay State U.	131	947	1,063	1,347	1,662	0	1,662	361	361	572	832	0	832		
Syracuse U.	132	859	790	1,171	1,659	0	1,659	727	613	857	1,233	0	1,233		
Massachusetts Institute of Technology	133	1,370	457	811	1,637	801	836	0	0	169	202	0	202		
CUNY, City C.	134	0	30	0	1,631	0	1,631	0	0	0	1,318	0	1,318		
Dartmouth C. and Dartmouth Hitchcock Medical Center	135	813	691	1,252	1,523	0	1,523	605	543	905	1,028	0	1,028		
Hobart and William Smith Colleges	136	1,484	1,619	2,059	1,495	16	1,479	691	593	520	438	0	438		
SUNY, C. Brockport	137	886	537	1,055	1,416	37	1,379	153	152	509	598	0	598		
George Mason U.	138	800	1,437	1,325	1,414	313	1,101	269	691	807	848	258	590		
South Carolina State U.	139	940	i 1,092	i 1,250	i 1,405	577	828	874	i 962	i 1,052	i 1,142	424	718		
Bowling Green State U.	140	553	498	1,194	1,399	541	858	154	215	466	438	335	103		
Florida Gulf Coast U.	141	128	1,218	482	1,387	4	1,383	42	0	0	532	3	529		
New Mexico Highlands U.	142	55	729	i 1,032	i 1,336	0	1,336	55	699	i 1,003	i 1,307	0	1,307		
Lincoln Memorial U.	143	ne	ne	ne	1,319	1,319	0	ne	ne	ne	2	2	0		
Hawaii Pacific U.	144	654	654	833	1,278	1,278	0	654	654	458	510	510	0		
San Francisco State U.	145	942	i 1,017	931	1,253	0	1,253	202	i 204	174	528	0	528		
Illinois Institute of Technology	146	863	604	933	1,245	1,245	0	682	366	778	1,032	1,032	0		
U. Maryland, Baltimore County	147	896	867	883	1,213	449	764	473	370	358	318	185	133		
U. Texas Health Science Center, Tyler	148	0	0	0	1,210	1,210	0	0	0	0	1,210	1,210	0		
Loyola U., Chicago	149	483	579	1,061	1,127	0	1,127	249	328	619	634	0	634		
Chapman U.	150	102	414	818	1,119	473	646	102	390	754	1,061	471	590		
U. Pennsylvania	151	1,140	1,003	1,000	1,109	1,109	0	25	6	41	126	126	0		
Missouri State U.	152	1,103	1,198	873	1,049	265	784	874	894	640	670	220	450		
Lake Superior State U.	153	ne	ne	1,001	1,034	0	1,034	ne	ne	286	0	0	0		
U. Nevada, Las Vegas	154	273	446	356	1,017	51	966	185	309	328	812	48	764		
Middle Tennessee State U.	155	558	1,094	1,761	1,011	1,011	0	481	616	1,005	579	579	0		
U. California, Office of the President	156	2,503	2,171	2,347	1,010	1,004	6	94	138	149	25	25	0		
Alabama A&M U.	157	630	i 574	i 521	i 998	i 760	i 238	i 285	i 386	i 479	i 633	i 456	i 177		
Louisiana Tech U.	158	841	824	1,089	962	962	0	350	362	412	428	428	0		

TABLE 44

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2023 agricultural sciences and natural resources conservation total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total							Federally financed						
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation		
		2020	2021	2022	2023	2023	2023	2020	2021	2022	2023	2023	2023		
U. Illinois, Chicago	159	10,840	9,173	7,315	943	0	943	1,364	1,074	1,483	132	0	132		
U. Missouri, Kansas City	160	0	0	739	939	938	1	0	0	0	0	0	0		
Texas A&M U.-Corpus Christi	161	464	441	811	924	435	489	309	229	361	223	169	54		
Texas A&M U.-Commerce	162	723	463	646	831	831	0	18	165	409	228	228	0		
U. Colorado Anschutz Medical Campus ^c	163	na	299	800	827	827	0	na	299	800	827	827	0		
U. Houston-Clear Lake	164	0	808	837	823	0	823	0	440	463	615	0	615		
Appalachian State U.	165	630	387	530	798	400	398	56	49	316	366	334	32		
Western Kentucky U.	166	581	525	462	785	785	0	430	217	169	354	354	0		
New School	167	54	137	673	775	0	775	0	0	0	0	0	0		
Tulane U.	168	133	159	188	761	0	761	94	110	143	368	0	368		
CUNY, Graduate Center	169	0	0	0	731	173	558	0	0	0	0	0	0		
Dine C.	169	19	ne	329	731	221	510	19	ne	329	646	186	460		
Florida Institute of Technology	171	0	297	258	681	208	473	0	213	204	681	208	473		
Baylor U.	172	666	744	1,346	641	250	391	200	368	729	564	196	368		
U. Wisconsin-Superior	173	2,025	2,338	4,213	626	0	626	1,342	1,800	3,536	4	0	4		
U. California, Merced	174	0	201	697	621	621	0	0	1	683	609	609	0		
Old Dominion U.	175	267	271	106	596	0	596	0	0	0	0	0	0		
San Diego State U.	176	921	10	964	594	0	594	212	8	677	538	0	538		
Western U. of Health Sciences	177	533	597	577	589	589	0	456	493	453	472	472	0		
Central Michigan U.	178	881	873	625	573	0	573	481	527	305	266	0	266		
SUNY, U. Buffalo	179	0	0	0	563	563	0	0	0	0	563	563	0		
Oregon Institute of Technology	180	67	i 477	i 560	i 560	i 0	i 560	67	15	i 20	i 81	i 0	i 81		
U. Texas, Arlington	181	441	446	592	553	0	553	1	0	0	0	0	0		
U. California, San Diego	182	0	593	977	552	0	552	0	0	234	0	0	0		
U. South Dakota	183	191	221	626	540	0	540	0	0	198	184	0	184		
U. Pittsburgh, Pittsburgh	184	373	501	456	531	531	0	248	377	336	361	361	0		
California State U., East Bay	185	0	0	878	504	504	0	0	0	712	504	504	0		
U. Houston	186	295	453	232	487	307	180	284	343	68	225	47	178		
CUNY, Advanced Science Research Center	187	869	312	741	485	0	485	785	284	727	467	0	467		
Sul Ross State U.	188	1,595	298	i 391	i 484	484	0	463	81	i 116	i 151	151	0		
U. Nebraska, Kearney	189	546	632	947	481	37	444	303	363	527	183	13	170		
U. Southern Maine	190	611	591	597	464	206	258	12	66	52	91	14	77		

TABLE 44

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2023 agricultural sciences and natural resources conservation total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total						Federally financed							
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation		
		2020	2021	2022	2023	2023	2023	2020	2021	2022	2023	2023	2023		
Georgia Southern U.	191	323	467	369	435	47	388	59	167	87	131	0	131		
Arkansas State U., Jonesboro	192	1,897	1,343	950	426	421	5	1,159	838	552	377	377	0		
U. Mississippi	192	96	191	239	426	426	0	96	177	213	401	401	0		
U. Hawaii, Maui C.	194	ne	0	ne	425	0	425	ne	0	ne	425	0	425		
Eastern Michigan U.	195	274	269	212	415	0	415	58	137	165	240	0	240		
Fort Lewis C.	196	23	19	275	398	275	123	21	1	200	369	275	94		
U. Oregon	197	483	531	225	392	0	392	406	363	137	85	0	85		
Sonoma State U.	198	214	399	389	387	0	387	0	117	104	71	0	71		
Montclair State U.	199	649	371	427	371	54	317	75	38	109	194	5	189		
Benedict C.	200	21	ne	ne	354	354	0	21	ne	ne	354	354	0		
Troy U.	201	112	186	115	346	270	76	112	179	115	283	207	76		
Oklahoma State U., Center for Health Sciences	202	0	0	0	340	340	0	0	0	0	0	0	0		
Pittsburg State U.	203	113	176	272	330	0	330	61	142	264	315	0	315		
California State U., Sacramento	204	321	371	378	329	0	329	309	253	251	100	0	100		
U. Alaska, Southeast	205	187	65	169	302	0	302	139	35	135	280	0	280		
SUNY, Binghamton U.	206	66	50	24	301	0	301	0	0	0	6	0	6		
U. Nebraska, Omaha	207	115	71	73	299	273	26	0	0	0	0	0	0		
U. Wisconsin-Platteville	208	285	225	265	292	224	68	76	58	72	77	60	17		
U. Notre Dame	209	424	222	252	282	282	0	0	0	0	0	0	0		
Hofstra U.	210	191	113	231	281	34	247	0	27	4	0	0	0		
U. San Francisco	211	37	32	19	271	0	271	0	0	0	0	0	0		
St. Edward's U.	212	795	620	344	264	79	185	775	600	144	59	59	0		
California State U., Channel Islands	213	194	41	236	258	0	258	151	2	31	35	0	35		
Brandeis U.	214	0	0	9	254	234	20	0	0	9	20	0	20		
Northern Illinois U.	215	29	119	153	249	0	249	25	106	131	139	0	139		
Eastern Kentucky U.	216	4	3	ne	241	46	195	0	0	ne	152	36	116		
Stockton U.	217	46	152	202	239	0	239	46	152	202	239	0	239		
U. Northern Iowa	218	201	219	223	227	227	0	94	48	103	115	115	0		
U. Dayton	219	199	171	135	216	0	216	165	171	135	216	0	216		
Oregon Health and Science U.	220	799	838	802	214	0	214	799	744	802	195	0	195		
Eastern Washington U.	221	176	237	217	210	0	210	176	220	217	210	0	210		
Illinois State U.	222	184	179	84	202	202	0	29	138	21	107	107	0		

TABLE 44

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2023 agricultural sciences and natural resources conservation total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total							Federally financed						
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation		
		2020	2021	2022	2023	2023	2023	2020	2021	2022	2023	2023	2023		
Missouri U. of Science and Technology	223	0	0	145	191	189	2	0	0	0	0	0	0		
Kent State U.	224	35	61	91	187	91	96	3	48	1	68	0	68		
Occidental C.	225	90	138	159	181	111	70	90	88	98	111	111	0		
Southern U. and A&M C., Baton Rouge	225	208	212	112	181	12	169	208	117	85	169	0	169		
Coastal Carolina U.	227	0	70	118	180	0	180	0	0	86	66	0	66		
U. North Texas, Denton	228	479	2,137	1,547	175	175	0	136	592	242	0	0	0		
East Carolina U.	229	79	164	156	173	173	0	9	0	0	8	8	0		
U. Memphis	230	232	183	174	172	18	154	0	0	152	141	0	141		
Ball State U.	231	155	96	146	171	0	171	28	1	45	11	0	11		
St. Cloud State U.	232	4	85	44	168	63	105	0	85	24	63	63	0		
U. Louisville	233	109	87	74	163	119	44	0	18	51	154	119	35		
U. South Carolina, Beaufort	234	ne	ne	ne	161	109	52	ne	ne	ne	87	87	0		
Texas A&M U.-San Antonio	235	ne	ne	152	158	0	158	ne	ne	152	154	0	154		
Colorado C.	236	35	96	0	156	0	156	0	96	0	141	0	141		
CUNY, Baruch C.	237	0	8	0	153	0	153	0	0	0	0	0	0		
Western Carolina U.	237	75	136	198	153	116	37	63	106	153	92	92	0		
Towson U.	239	10	32	151	152	0	152	0	0	128	128	0	128		
Southern Connecticut State U.	240	44	105	111	151	124	27	22	58	49	110	100	10		
Clark U.	241	808	306	100	148	148	0	797	215	52	0	0	0		
U. North Florida	242	0	0	21	147	0	147	0	0	0	0	0	0		
Morehead State U.	243	88	74	202	146	0	146	12	61	197	145	0	145		
California State U., Long Beach	244	0	0	1	144	0	144	0	0	1	125	0	125		
Texas Christian U.	245	47	43	26	142	133	9	47	25	26	132	132	0		
Loyola Marymount U.	246	28	40	3	141	0	141	28	0	0	0	0	0		
SUNY, Cobleskill	247	ne	ne	0	140	0	140	ne	ne	0	136	0	136		
Pennsylvania State U., Altoona	248	ne	ne	ne	137	0	137	ne	ne	ne	0	0	0		
Yeshiva U.	249	0	0	63	129	129	0	0	0	63	129	129	0		
Pacific U.	250	48	24	36	127	0	127	0	0	11	127	0	127		
Colorado State U., Pueblo	251	0	0	99	126	126	0	0	0	99	43	43	0		
Santa Clara U.	252	300	155	235	116	0	116	37	50	200	53	0	53		
Sam Houston State U.	253	330	526	186	108	108	0	258	343	130	84	84	0		
Drake U.	254	ne	124	172	106	0	106	ne	70	107	15	0	15		

TABLE 44

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2023 agricultural sciences and natural resources conservation total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total						Federally financed							
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation		
		2020	2021	2022	2023	2023	2023	2020	2021	2022	2023	2023	2023		
Carnegie Mellon U.	255	476	256	234	105	60	45	427	256	211	0	0	0		
Nevada State C.	255	ne	ne	93	105	0	105	ne	ne	91	105	0	105		
U. of Mary Washington	255	0	0	0	105	0	105	0	0	0	0	0	0		
Monmouth U.	258	3	39	87	104	15	89	0	16	30	52	15	37		
U. Denver	259	298	70	90	103	47	56	280	54	90	93	43	50		
U. Houston-Downtown	259	0	0	0	103	0	103	0	0	0	83	0	83		
SUNY, Oswego	261	0	0	42	102	3	99	0	0	0	48	0	48		
Naval Postgraduate School	262	0	0	86	100	0	100	0	0	0	0	0	0		
California State U., Bakersfield	263	0	8	29	99	99	0	0	8	29	89	89	0		
Roger Williams U.	264	6	20	128	98	98	0	0	11	46	48	48	0		
East Stroudsburg U. Pennsylvania	265	ne	ne	86	97	0	97	ne	ne	66	15	0	15		
Kean U.	265	0	0	104	97	62	35	0	0	24	48	48	0		
U. Missouri, Saint Louis	267	229	108	48	96	0	96	217	108	48	96	0	96		
U. New England	268	82	58	98	94	0	94	28	20	18	3	0	3		
U. Puerto Rico, Mayaguez	269	814	864	180	93	83	10	508	864	166	93	83	10		
C. Charleston	270	100	147	388	83	2	81	58	51	387	83	2	81		
Sacred Heart U.	271	ne	0	ne	82	0	82	ne	0	ne	0	0	0		
Elizabeth City State U.	272	0	0	174	80	0	80	0	0	174	80	0	80		
California State U., Fullerton	273	338	200	95	70	55	15	299	174	81	55	55	0		
Northern Michigan U.	274	97	90	73	68	0	68	97	90	73	66	0	66		
C. New Jersey	275	0	24	187	67	0	67	0	0	0	0	0	0		
New C. Florida	276	ne	ne	ne	64	0	64	ne	ne	ne	47	0	47		
U. Puerto Rico, Humacao	277	26	25	0	62	0	62	26	25	0	62	0	62		
U. Texas, El Paso	277	921	116	65	62	0	62	392	61	9	0	0	0		
Pepperdine U.	279	0	0	0	61	0	61	0	0	0	25	0	25		
Wheaton C., Wheaton	279	0	0	ne	61	0	61	0	0	ne	61	0	61		
U. Toledo	281	26	35	5	60	0	60	19	0	0	0	0	0		
Central Washington U.	282	21	13	36	56	0	56	19	6	0	8	0	8		
DePaul U.	283	1	0	46	55	0	55	0	0	0	31	0	31		
Nova Southeastern U.	284	0	0	0	53	53	0	0	0	0	0	0	0		
U. South Florida ^d	284	0	303	146	53	0	53	0	272	142	53	0	53		
Northeastern Illinois U.	286	0	27	20	51	51	0	0	27	20	51	51	0		

TABLE 44

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2023 agricultural sciences and natural resources conservation total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total							Federally financed						
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation		
		2020	2021	2022	2023	2023	2023	2020	2021	2022	2023	2023	2023		
U. Central Arkansas	286	0	0	85	51	0	51	0	0	64	51	0	51		
Carleton C.	288	78	0	84	48 i	0 i	48 i	0	0	0	0 i	0 i	0 i		
Whitman C.	288	0	ne	41	48	0	48	0	ne	14	8	0	8		
CUNY, C. Staten Island	290	0	0	2	47	0	47	0	0	0	0	0	0		
Marian U., Indianapolis	290	ne	ne	ne	47	0	47	ne	ne	ne	47	0	47		
U. North Carolina, Chapel Hill	292	17	0	55	43	0	43	0	0	0	0	0	0		
Kenyon C.	293	0	ne	35	42	0	42	0	ne	35	42	0	42		
U. of the District of Columbia	293	2,157	2,726	2,618	42	27	15	235	1,568	1,786	27	27	0		
Bates C.	295	9	0	0	41	0	41	0	0	0	13	0	13		
U. New Haven	295	0	58	135	41	0	41	0	9	4	0	0	0		
U. Virginia's C. Wise	295	ne	0	4	41	41	0	ne	0	2	39	39	0		
U. Wisconsin-Oshkosh	295	0 i	0	0	41	0	41	0 i	0	0	41	0	41		
Murray State U.	299	76	146	98	40	40	0	43	42	20	11	11	0		
Seattle U.	299	0	4	8	40	40	0	0	4	8	40	40	0		
Salisbury U.	301	0	97	91	38	0	38	0	0	30	38	0	38		
Northland C.	302	ne	26 i	31 i	35 i	0 i	35 i	ne	13 i	15 i	17 i	0 i	17 i		
James Madison U.	303	105	77	68	34	0	34	85	60	44	25	0	25		
CUNY, Hunter C.	304	0	0	58	31	31	0	0	0	0	0	0	0		
United Tribes Technical C.	304	ne	ne	ne	31	0	31	ne	ne	ne	31	0	31		
U. Louisiana, Monroe	306	29	28	34	30	30	0	0	0	0	0	0	0		
U. North Carolina, Asheville	306	292	317	0	30	0	30	57	0	0	0	0	0		
C. Wooster	308	15	24 i	29	29	29	0	5	10 i	14	2	2	0		
U. Arkansas, Little Rock	308	10	19	17	29	6	23	9	2	17	0	0	0		
Wake Forest U.	308	126	19	0	29	0	29	0	0	0	14	0	14		
Wellesley C.	311	1	0	0	26	0	26	0	0	0	26	0	26		
Seton Hall U.	312	0	0	0	25	0	25	0	0	0	0	0	0		
Marquette U.	313	84	88	155	24	24	0	84	88	155	20	20	0		
U. Colorado Denver ^C	313	na	106	79	24	0	24	na	106	79	24	0	24		
U. San Diego	313	0	0	3	24	24	0	0	0	0	0	0	0		
Texas A&M International U.	316	104	23	53	23	0	23	0	0	0	0	0	0		
U. Alabama, Huntsville	316	2	9	24	23	23	0	0	9	24	23	23	0		
U. Washington, Tacoma	318	163	38	33	21	0	21	161	38	33	21	0	21		

TABLE 44

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2023 agricultural sciences and natural resources conservation total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total							Federally financed						
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation		
		2020	2021	2022	2023	2023	2023	2020	2021	2022	2023	2023	2023		
Saint John's U.	319	0 i	15 i	17 i	20 i	1 i	19 i	0 i	0 i	0 i	0 i	0 i	0 i		
Vassar C.	319	0	21	21	20	0	20	0	0	0	0	0	0		
Bentley U.	321	ne	ne	0	19	0	19	ne	ne	0	19	0	19		
C. of Saint Benedict	322	0 i	13 i	15 i	17 i	0 i	17 i	0 i	0 i	0 i	0 i	0 i	0 i		
Northeast Ohio Medical U.	323	0	0	0	15	15	0	0	0	0	0	0	0		
Rice U.	324	0	0	0	13	13	0	0	0	0	12	12	0		
U. Alabama, Tuscaloosa	325	0	0	0	11	11	0	0	0	0	7	7	0		
Citadel Military C. South Carolina	326	0	0	0	8	5	3	0	0	0	8	5	3		
Pennsylvania State U., Harrisburg	326	2	21	43	8	8	0	2	21	0	0	0	0		
Alaska Pacific U.	328	38	29	20	7	7	0	38	29	20	7	7	0		
CUNY, Lehman C.	328	0	0	0	7	0	7	0	0	0	0	0	0		
Washington U., Saint Louis	328	0	0	2	7	0	7	0	0	0	0	0	0		
Midwestern U.	331	33	22	20	6	6	0	33	22	0	0	0	0		
Andrews U.	332	0	0	ne	5	1	4	0	0	ne	0	0	0		
Eastern Connecticut State U.	332	0	5	1	5	4	1	0	1	1	1	0	1		
Lincoln U.	332	ne	ne	ne	5	5	0	ne	ne	ne	5	5	0		
Emory U.	335	0	0	0	4	4	0	0	0	0	0	0	0		
Minnesota State U., Mankato	335	205	0	145	4	4	0	205	0	145	4	4	0		
U. Virginia, Charlottesville	335	769	614	562	4	4	0	0	0	0	0	0	0		
Babson C.	338	0 i	0 i	0 i	2 i	0 i	2 i	0	0	0	2	0	2		
Barnard C.	339	67	135	25	1	1	0	57	135	0	0	0	0		
Black Hills State U.	339	38	6	30	1	0	1	31	2	28	0	0	0		
Smith C.	339	0	11	1	1	0	1	0	9	0	0	0	0		
U. Tennessee, Chattanooga	339	0	0	0	1	0	1	0	0	0	0	0	0		
Western Michigan U. and Homer Stryker M.D. School of Medicine	339	4	4	45	1	0	1	3	0	7	1	0	1		
All other surveyed institutions	-	129,365	122,123	128,089	0	0	0	35,320	30,698	34,439	0	0	0		

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

^a The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^c The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

^d The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 45

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
All institutions	-	15,766,687	16,568,079	18,130,240	19,526,385	9,337,535	10,006,560	10,934,362	11,753,581
U. Pennsylvania	1	780,497	835,864	936,939	1,053,560	390,309	434,661	475,926	538,801
Harvard U.	2	534,656	539,289	561,958	647,908	325,366	308,919	309,766	346,008
Scripps Research Institute	3	444,964	485,435	492,639	494,946	243,502	272,181	242,135	278,099
Icahn School of Medicine at Mount Sinai	4	359,900	391,642	411,941	458,822	208,188	235,660	261,518	281,656
Washington U., Saint Louis	5	359,856	389,457	389,199	424,528	216,565	237,968	260,132	285,482
Baylor C. of Medicine	6	311,546	345,012	400,058	399,742	166,676	196,635	222,712	230,234
U. Southern California	7	132,168	117,462	398,478	382,074	91,893	82,518	172,487	200,990
Johns Hopkins U. ^a	8	311,295 i	350,122 i	358,980 i	379,802 i	221,384	269,831	273,011	279,015
U. Pittsburgh, Pittsburgh	9	294,183	304,345	353,030	364,789	189,410	206,387	243,501	255,129
U. Washington, Seattle	10	260,831	286,353	322,882	358,634	153,375	168,960	180,761	192,842
Rockefeller U.	11	322,734	325,035	328,999	354,022	78,153	87,220	87,168	93,816
U. Texas M. D. Anderson Cancer Center	12	304,198	320,834	326,187	353,135	64,702	73,202	73,169	78,004
U. Wisconsin-Madison	13	277,654	273,356	318,077	347,583	162,347	159,456	199,721	206,133
Cornell U.	14	311,954	317,690	356,105	347,213	153,222	164,967	174,559	184,382
New York U.	15	250,446	297,690	321,462	338,972	147,771	177,500	202,644	218,335
Duke U.	16	245,327	291,851	289,829	317,434	195,787	236,697	242,664	272,094
U. Michigan, Ann Arbor	17	266,507	262,263	266,722	298,094	180,703	185,914	198,644	203,273
Stanford U.	18	228,842	242,245	265,253	280,092	179,023	185,954	196,494	207,841
Columbia U. in the City of New York	19	206,509	226,903	249,393	272,728	168,917	186,401	198,164	217,140
Emory U.	20	182,193	203,597	228,756	252,403	144,201	161,290	186,219	200,429
Rutgers, State U. New Jersey, New Brunswick	21	113,712	90,875	214,943	246,404	57,418	54,432	134,409	150,612
Yale U.	22	206,929	222,114	226,285	245,250	140,048	150,159	158,700	167,992
U. Arizona	23	212,741	221,774	218,490	241,895	101,105	115,658	110,999	128,309
U. North Carolina, Chapel Hill	24	167,907	191,773	222,099	231,074	123,492	143,283	156,412	172,657
U. Florida	25	125,655	134,050	148,797	230,400	61,336	66,696	73,499	105,491
U. California, Davis	26	218,316	199,310	211,134	228,212	136,739	120,744	136,955	145,722
U. Texas Southwestern Medical Center	27	214,795	219,742	223,987	221,855	88,551	100,990	112,127	112,594
Vanderbilt U. and Vanderbilt U. Medical Center	28	183,620	206,202	194,205	221,265	109,381	121,941	127,970	142,026
U. Kentucky	29	175,026	181,729	204,821	216,881	93,567	101,455	111,422	116,212
Boston U.	30	163,939	168,310	189,654	211,743	110,627	112,638	124,668	132,253
Northwestern U.	31	153,629	166,594	189,086	205,479	99,378	115,175	129,866	139,214
U. Maryland ^b	32	166,254	183,621	193,170	202,787	114,209	116,912	122,265	122,259
U. Alabama, Birmingham	33	132,963	132,380	167,234	198,509	98,997	100,726	101,964	112,166
U. Texas Medical Branch	34	137,316	139,580	154,731	177,578	86,048	85,905	92,808	117,577

TABLE 45

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Georgia	35	143,796	156,208	167,001	169,728	78,657	90,936	102,961	99,203
U. Massachusetts, Medical School	36	137,103	145,417	153,954	157,353	96,954	100,459	106,862	107,760
U. California, Irvine	37	114,449	125,642	130,710	152,147	64,157	75,077	86,211	103,161
U. Virginia, Charlottesville	38	230,231	229,238	249,817	151,637	128,995	130,255	143,465	88,123
U. Iowa	39	126,870	134,116	132,705	148,336	78,419	80,979	85,296	91,907
Indiana U., Bloomington	40	124,207	122,903	137,850	148,161	80,025	82,191	86,181	96,490
U. Nebraska, Lincoln and Medical Center ^c	41	na	na	na	145,976	na	na	na	96,565
U. California, Berkeley	42	130,392	129,502	138,783	140,918	67,501	65,808	76,387	77,537
U. Minnesota, Twin Cities	43	111,883	118,493	126,554	138,086	63,674	75,180	81,077	88,199
Ohio State U.	44	83,715	92,910	128,503	132,029	58,581	65,420	83,337	85,462
North Carolina State U.	45	120,671	119,614	123,482	131,103	42,625	47,017	48,244	50,486
Michigan State U.	46	117,715	117,739	117,176	126,462	61,131	62,624	65,574	69,665
Cold Spring Harbor Laboratory	47	113,394	112,613	115,922	114,545	60,487	54,682	57,058	51,189
Princeton U.	48	81,137	87,346	102,181	112,622	50,581	52,315	52,108	50,130
Texas A&M U., College Station and Health Science Center	49	77,408	97,519	99,831	111,681	50,356	55,631	62,196	70,479
U. South Florida ^d	50	90,898	93,020	103,543	111,401	64,867	64,801	73,304	77,152
Pennsylvania State U., University Park and Hershey Medical Center	51	98,382	112,135	105,362	110,439	56,971	63,659	71,191	80,726
Arizona State U.	52	63,293	73,598	95,701	108,327	35,741	40,918	50,639	56,270
U. Illinois, Urbana-Champaign	53	77,458	91,434	93,256	107,346	44,234	54,744	57,463	68,102
Case Western Reserve U.	54	82,470	86,328	91,552	105,990	69,339	71,246	75,637	83,222
SUNY, U. Buffalo	55	88,070	95,200	95,707	105,597	47,604	51,230	57,523	64,626
Medical C. Wisconsin	56	83,882	83,895	94,917	104,865	47,297	49,607	53,829	58,524
Tufts U.	57	92,119	91,403	102,498	104,627	69,674	71,168	76,869	73,998
California Institute of Technology	58	89,580	100,578	98,392	102,066	65,017	67,730	71,660	64,984
Thomas Jefferson U.	59	74,942	83,083	94,743	101,200	42,244	49,473	55,606	56,560
Touro U., New York ^e	60	ne	ne	ne	99,676	ne	ne	ne	39,862
U. Texas Health Science Center, San Antonio	61	67,851	74,729	80,739	95,103	49,214	48,445	53,942	62,364
U. Connecticut	62	75,806	79,715	105,565	93,727	49,480	52,731	79,695	66,369
U. Miami	63	78,338	75,792	89,556	93,560	64,201	62,744	75,332	77,988
Dartmouth C. and Dartmouth Hitchcock Medical Center	64	84,528	83,974	89,693	93,530	49,057	53,355	53,746	56,400
U. Chicago	65	83,295	82,092	91,684	91,330	67,334	66,653	77,479	76,637
U. Illinois, Chicago	66	81,071	77,533	77,134	89,704	42,919	41,820	42,064	50,162
U. Texas, Austin	67	62,802	72,413	71,830	83,405	38,317	44,438	45,637	47,192
Virginia Commonwealth U.	68	53,656	72,971	72,528	81,364	40,720	47,612	47,604	45,485
Van Andel Research Institute	69	58,982	65,789	78,626	80,748	18,538	22,231	29,424	30,934

TABLE 45

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
George Washington U.	70	52,902	58,491	69,589	75,627	33,137	39,381	47,496	63,920
Louisiana State U., Baton Rouge	71	56,483	60,515	71,438	75,146	26,797	29,672	33,532	37,324
Colorado State U., Fort Collins	72	39,769	67,310	74,575	74,873	23,865	37,530	41,838	51,583
U. Louisiana, Lafayette	73	68,528	60,760	67,016	73,783	11,539	16,125	16,403	18,058
Medical U. South Carolina	74	62,475	64,300	66,799	73,477	49,032	51,796	53,320	55,135
U. Rochester	75	54,066	56,944	61,720	71,596	44,908	48,117	50,613	59,741
Georgia State U.	76	50,131	52,370	59,500	71,207	24,615	26,909	29,839	38,417
Brown U.	77	57,280	57,160	60,922	70,926	41,143	43,126	44,492	51,567
U. California, San Diego	78	62,532	63,846	59,696	68,124	36,347	45,133	46,028	49,008
U. Hawaii, Manoa	79	53,100	52,760	60,677	66,938	16,953	19,052	30,300	33,467
U. Cincinnati	80	62,270	60,204	63,666	66,301	35,074	34,328	36,168	37,987
U. Texas Health Science Center, Houston	81	54,213	54,224	59,833	66,009	35,502	36,466	40,894	45,197
U. California, Riverside	82	60,674	60,318	60,605	63,568	25,037	24,845	29,798	30,925
SUNY, Stony Brook U.	83	61,121	64,217	60,840	63,418	39,569	40,518	40,425	40,388
U. Louisville	84	60,608	66,095	71,947	62,107	39,447	44,936	51,331	43,985
U. Arkansas for Medical Sciences	85	67,447	64,136	58,106	62,081	38,357	34,745	39,773	37,966
U. Vermont	86	54,565	51,579	61,287	59,063	37,701	35,980	41,145	39,614
Tulane U.	87	39,053	36,099	45,028	53,913	26,219	25,730	31,753	39,398
U. Colorado Boulder	88	41,081	42,368	46,086	53,109	34,958	36,680	38,408	45,839
U. Missouri, Columbia	89	50,323	51,630	56,404	51,453	39,472	35,810	40,162	29,006
Cleveland State U.	90	43,464	41,447	48,744	51,303	40,320	37,018	41,712	42,985
Florida International U.	91	39,760	37,940	46,249	50,113	19,181	17,524	22,144	28,259
Massachusetts Institute of Technology	92	67,446	60,795	56,438	49,814	42,112	37,649	33,137	29,243
Iowa State U.	93	39,072	42,898	42,147	46,701	18,255	17,834	18,729	21,655
U. Kansas	94	62,277	46,912	46,127	46,438	38,670	30,741	31,227	30,775
Virginia Polytechnic Institute and State U.	95	40,276	46,515	49,745	45,172	15,769	18,558	20,642	25,110
Washington State U.	96	35,845	34,771	32,110	43,833	21,674	23,178	21,086	26,810
Drexel U.	97	38,200	39,937	40,343	43,441	24,521	26,987	26,035	29,508
Oregon State U.	98	38,938	44,339	43,217	43,176	27,860	32,710	30,314	29,013
U. Oklahoma, Norman and Health Science Center	99	43,605	48,670	50,190	42,895	28,155	32,725	29,099	25,405
Augusta U.	100	40,513	41,967	45,192	41,090	29,605	29,845	31,479	28,154
U. Tennessee, Health Science Center	101	22,245	29,655	35,849	40,611	19,859	23,001	26,143	30,367
U. Oregon	102	33,631	37,907	44,968	40,483	28,932	28,980	36,500	31,687
West Virginia U.	103	25,158	30,824	31,046	40,246	12,150	16,135	15,616	21,154
U. California, Los Angeles	104	34,022	33,765	37,544	39,697	22,266	21,562	23,114	24,945

TABLE 45

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Tennessee, Knoxville	105	22,643	26,252	33,638	36,768	10,968	13,709	20,233	21,396
U. Nevada, Reno	106	36,791	43,521	39,371	35,893	18,123	25,242	23,391	20,508
SUNY, Downstate Health Sciences U.	107	32,389	33,935	30,468	35,600	26,171	27,284	25,081	28,543
U. Notre Dame	108	27,095	29,214	35,115	34,922	11,155	12,920	15,704	13,981
Temple U.	109	43,913	44,630	36,172	34,273	34,298	29,114	20,679	27,243
SUNY, U. Albany	110	27,543	29,137	31,346	33,695	17,227	18,406	21,007	23,294
U. New Mexico	111	28,740	27,380	27,705	32,536	23,802	22,646	22,603	27,081
Clemson U.	112	28,361	24,231	26,009	31,352	8,494	7,601	9,073	12,549
U. California, Santa Cruz	113	24,318	25,050	26,829	30,973	16,755	17,420	18,557	20,345
U. Texas Health Science Center, Tyler	114	21,265	27,928	33,872	30,867	7,732	12,007	14,362	11,345
Purdue U., West Lafayette	115	34,790	25,488	27,675	30,264	13,534	13,625	13,382	14,838
Northern Arizona U.	116	23,741	25,623	30,320	29,577	15,010	17,143	19,381	21,416
Oklahoma State U., Stillwater	117	19,956	25,945	26,166	29,350	7,699	10,218	10,421	12,115
Brandeis U.	118	26,272	28,082	25,632	29,283	20,298	20,128	19,143	20,906
Oregon Health and Science U.	119	26,551	21,651	24,166	28,310	20,651	17,330	19,214	22,693
Wayne State U.	120	24,007	26,291	28,121	28,196	14,506	16,595	19,785	19,925
U. Utah	121	40,013	44,662	27,988	28,019	24,860	28,068	26,785	24,267
U. Massachusetts, Amherst	122	25,906	25,498	27,376	26,929	15,754	16,284	17,268	17,311
Georgia Institute of Technology	123	18,410	21,357	25,448	26,908	9,186	11,572	14,130	14,713
U. Texas, San Antonio	124	23,733	23,479	22,618	26,481	9,925	10,784	12,418	15,575
U. Mississippi	125	15,866	22,359	26,692	26,272	11,028	19,215	21,528	15,898
U. Montana, Missoula	126	22,464	21,407	23,548	25,568	15,437	14,945	17,390	18,046
U. Idaho	127	22,764	25,070	24,647	25,376	17,044	19,286	18,297	17,049
Auburn U., Auburn	128	15,224	14,099	17,753	24,327	5,918	5,996	8,836	14,191
Florida State U.	129	22,836	21,063	22,715	24,154	12,479	10,937	11,397	12,449
U. Texas, El Paso	130	16,280	16,281	21,382	24,121	8,015	10,380	12,241	14,150
U. Alaska, Fairbanks	131	12,603	24,022	16,875	23,753	10,426	19,159	13,094	19,350
Kansas State U.	132	30,940	26,459	25,276	23,719	14,289	10,615	10,804	9,866
U. South Carolina, Columbia	133	21,174	14,237	19,230	23,497	10,663	9,864	11,314	13,896
George Mason U.	134	25,142	37,805	20,571	23,000	5,178	5,399	6,316	8,634
U. Rhode Island	135	18,161	17,614	15,848	22,967	15,256	15,150	14,387	18,301
U. Central Florida	136	15,378	15,562	18,380	22,276	10,063	10,666	10,111	11,421
Texas Tech U., Health Sciences Center	137	21,528	20,394	21,246	21,535	9,477	8,118	7,988	7,898
Meharry Medical C.	138	13,870	15,840	17,895	21,494	12,573	13,784	14,983	17,890
Florida Atlantic U.	139	16,997	18,879	18,712	21,354	6,357	6,611	6,104	5,954

TABLE 45

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Wyoming	140	14,659	15,284	22,214	21,047	13,246	14,012	19,594	18,293
Northeastern U.	141	14,718	13,919	17,086	20,438	12,023	11,399	13,886	15,214
SUNY, Upstate Medical U.	142	14,671	16,959	17,483	20,237	10,783	12,320	12,585	13,327
Loyola U., Chicago	143	15,804	16,741	16,600	20,227	11,042	12,636	12,644	13,472
Saint Louis U.	144	27,623	28,234	25,694	20,068	13,489	13,620	13,688	15,264
Rice U.	145	16,008	15,766	18,013	19,765	8,540	7,628	9,357	10,954
San Diego State U.	146	14,602	15,520	15,005	18,866	6,374	5,985	5,201	7,598
U. North Dakota	147	17,478	17,556	18,631	18,742	8,147	9,103	10,098	10,838
Albany Medical C.	148	17,150	16,121	15,847	17,693	12,263	12,700	12,816	13,516
U. Delaware	149	5,344	5,050	11,850	17,302	4,094	3,996	5,591	8,578
Texas Tech U.	150	12,709	14,152	18,732	16,883	1,723	1,621	3,833	5,099
Rush U.	151	13,822	12,283	11,598	16,566	12,252	10,059	9,688	12,751
U. Nevada, Las Vegas	152	12,763	12,969	14,714	16,544	8,177	7,772	7,450	10,284
Louisiana State U., Health Sciences Center, Shreveport	153	10,644	10,898	14,437	16,255	9,794	10,192	13,388	14,125
New Mexico State U.	154	9,867	15,045	18,584	16,067	8,253	13,212	16,255	13,729
Brigham Young U., Provo	155	5,643	5,012	5,141	15,754	3,131	3,353	3,282	4,919
Montana State U., Bozeman	156	19,994	18,017	16,954	15,576	14,059	12,653	12,075	10,671
U. Texas, Dallas	157	6,377	5,280	5,932	15,328	3,035	2,713	2,814	9,395
Carnegie Mellon U.	158	12,566	12,858	13,497	15,116	8,344	8,160	7,785	8,816
U. South Dakota	159	15,109	13,982	12,452	14,545	9,131	7,905	9,224	8,692
U. Houston	160	12,625	14,588	8,119	14,160	7,235	8,294	4,376	8,773
Georgetown U.	161	14,827	12,828	12,526	13,318	9,790	8,536	8,490	8,583
U. California, Santa Barbara	162	24,077	22,132	16,733	13,211	12,288	11,506	10,601	12,411
U. Maryland, Baltimore County	163	9,422	8,953	12,314	12,972	7,913	7,243	8,463	8,703
San Francisco State U.	164	11,246	11,694	11,857	12,529	7,490	7,566	7,048	8,776
U. Maine	165	10,949	9,846	10,501	12,393	4,992	5,112	5,219	6,085
Mississippi State U.	166	10,917	7,744	11,727	11,824	5,110	2,552	5,487	5,345
U. North Texas, Denton	167	10,805	7,908	10,612	11,793	2,197	1,789	3,469	3,379
Texas State U.	168	7,213	10,644	11,937	11,577	1,103	3,400	4,378	3,866
Delaware State U.	169	8,501	8,804	9,339	11,167	5,974	6,867	8,574	8,659
Rutgers, State U. New Jersey, Newark	170	12,676	9,197	10,822	11,051	7,681	7,225	7,627	7,908
U. Texas, Arlington	171	8,478	8,816	9,659	10,440	2,515	2,923	3,410	4,247
Texas Southern U.	172	4,513	4,073	6,427	10,156	3,247	2,518	4,253	6,467
U. Alabama, Tuscaloosa	173	3,602	5,585	7,565	10,055	2,119	2,864	3,941	4,436
East Carolina U.	174	2,842	10,397	11,180	9,967	1,150	5,749	7,170	5,592

TABLE 45

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. New Hampshire	175	11,697	10,279	9,521	9,896	7,420	4,781	4,717	5,923
U. Missouri, Kansas City	176	5,780	5,265	6,669	9,801	3,943	4,016	4,511	4,257
Ohio U.	177	7,691	8,765	9,040	9,779	2,603	3,462	3,118	3,067
Rosalind Franklin U. of Medicine and Science	178	12,825	11,434	11,566	9,687	7,651	7,942	6,320	5,917
Utah State U.	179	4,657	7,716	8,134	9,477	1,868	2,911	3,632	2,804
Eastern Virginia Medical School	180	9,968	9,234	12,924	9,447	6,821	6,620	8,868	7,181
Illinois Institute of Technology	181	8,046	6,978	7,268	9,135	7,375	6,735	6,956	7,983
Loma Linda U.	182	7,141 i	6,302	7,013	9,069	6,011 i	5,341	4,963	5,924
Boston C.	183	8,248	7,705	6,239	8,994	6,057	6,232	4,556	6,161
Wright State U.	184	7,780	6,556	7,364	8,985	4,918	4,572	5,195	6,789
Indiana U.-Purdue U., Indianapolis	185	7,136	7,420	6,436	8,927	5,851	6,086	5,192	6,868
Marshall U.	186	3,800	4,893	6,734	8,804	1,964	2,694	4,127	5,533
Creighton U.	187	5,976 i	7,059 i	8,439 i	8,703 i	2,430 i	2,775 i	3,886 i	4,099 i
U. Arkansas, Fayetteville	188	6,357	6,294	7,885	8,563	2,880	3,154	4,428	5,277
Portland State U.	189	7,666	9,159	8,790	8,533	7,166	8,523	8,269	7,247
U. North Carolina, Greensboro	190	4,352	5,376	6,836	8,384	3,013	3,761	4,791	5,936
Marquette U.	191	5,871	5,143	6,042	8,334	3,443	2,967	3,777	5,947
Northeast Ohio Medical U.	192	8,678	8,853	7,274	8,273	7,209	7,210	5,404	6,133
U. North Carolina, Charlotte	193	2,608	3,066	3,805	8,217	1,676	2,035	2,572	3,734
U. Southern Mississippi	194	8,948	8,983	9,825	8,112	6,633	7,130	7,840	6,633
Boise State U.	195	8,089	9,570	8,027	8,101	5,371	6,566	4,946	4,961
Rensselaer Polytechnic Institute	196	6,102	6,913	8,885	8,077	4,483	3,934	4,807	4,524
Syracuse U.	197	7,080	7,028	6,304	7,849	3,734	3,858	3,138	3,291
U. North Texas, Health Science Center	198	13,197	14,592	7,105 i	7,742	6,661	8,634	1,991 i	2,808
U. Colorado Anschutz Medical Campus ^f	199	na	8,948	14,636	7,738	na	4,008	3,917	3,402
U. Toledo	200	5,710	6,944	8,546	7,625	2,730	3,292	2,786	2,574
Kent State U.	201	6,330	6,047	7,478	7,579	2,624	2,715	3,063	2,997
U. Massachusetts, Lowell	202	5,523	5,652	8,776	7,299	3,156	2,921	4,877	4,440
Baylor U.	203	4,523	7,708	8,488	7,235	1,930	3,462	3,866	2,980
New York Medical C.	204	7,391	7,406	7,095	7,196	4,316	4,088	4,095	3,644
U. Denver	205	4,591	5,277	5,332	7,068	2,441	3,273	3,941	6,265
Midwestern U.	206	6,539	6,633	6,375	7,040	448	775	715	1,173
Rowan U.	207	3,264	3,796	3,758	6,937	2,705	3,249	3,209	3,734
North Carolina Central U.	208	6,873	6,036	6,212	6,885 i	6,362	5,698	6,112	6,771 i
Chapman U.	209	4,374	4,588	5,852	6,646	2,519	2,796	3,712	3,084

TABLE 45

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Kennesaw State U.	210	4,759	2,202	5,572	6,567	618	609	715	1,665
Lehigh U.	211	4,073	4,088	7,035	6,525	3,834	3,767	5,913	5,400
Western Michigan U. and Homer Stryker M.D. School of Medicine	212	5,859	5,315	5,019	6,290	2,015	1,855	1,766	1,922
CUNY, Hunter C.	213	8,550	7,167	6,539	6,227	5,050	4,080	3,719	4,291
U. Massachusetts, Boston	214	4,610	4,438	5,026	6,104	2,827	2,827	2,889	4,004
Clark Atlanta U.	215	6,017	6,614	5,400	5,873	3,468	3,496	2,923	3,531
North Dakota State U.	216	5,106	6,187	4,972	5,733	2,235	4,056	3,255	3,863
Oakland U.	217	3,323	3,703	4,389	5,693	1,664	1,710	1,822	2,626
U. California, Merced	218	7,563	5,096	5,113	5,554	3,335	2,895	2,722	3,809
Arkansas State U., Jonesboro	219	4,707	5,057	4,884	5,379	2,185	2,071	1,765	1,860
CUNY, City C.	220	2,752	6,634	5,257	5,377	2,012	5,275	4,534	5,029
SUNY, Binghamton U.	221	4,595	5,382	5,965	5,338	954	752	1,517	1,348
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	222	3,587	3,660	4,954	5,324	297	354	858	273
California State U., Northridge	223	3,875	3,633	4,439	5,295	2,980	2,938	3,026	3,981
U. Texas Rio Grande Valley	224	4,093	3,447	4,667	5,279	2,225	1,879	2,538	3,153
Howard U.	225	5,312	6,350	9,045	5,231	1,798	2,527	2,446	793
Southern Illinois U., Carbondale	225	4,876	6,268	5,789	5,231	2,290	1,824	2,251	2,071
Wake Forest U.	227	3,538	3,260	3,339	5,132	2,459	2,321	2,632	3,597
Miami U.	228	5,852	3,528	5,808	5,120	3,760	1,968	3,259	2,535
U. North Carolina, Wilmington	229	4,791	4,712	4,997	5,072	2,330	1,804	1,431	2,051
CUNY, Advanced Science Research Center	230	3,733	4,949	3,752	5,063	3,304	4,115	2,942	3,487
U. New England	231	3,742	3,916	4,749	5,008	2,927	2,715	2,969	3,980
Idaho State U.	232	2,459	2,965	5,056	4,971	1,666	1,847	3,441	3,370
Uniformed Services U. of the Health Sciences	233	1,525	7,192	5,696	4,784	902	5,079	3,651	3,420
Old Dominion U.	234	9,611	8,798	4,660	4,710	1,867	1,749	1,782	2,635
Philadelphia C. of Osteopathic Medicine	235	945	3,294	3,992	4,611	422	318	40	442
Tuskegee U.	236	2,274	2,263	4,912	4,517	1,753	1,850	4,469	4,188
Illinois State U.	237	2,008	2,936	3,513	4,449	1,692	2,649	3,027	4,154
Central Michigan U.	238	3,874	3,225	4,459	4,202	3,071	2,740	3,810	3,323
U. Memphis	239	4,754	3,805	3,665	4,174	2,339	2,036	1,888	1,629
U.S. Air Force Academy	240	0	317	194	4,130	0	317	194	4,130
Western U. of Health Sciences	241	4,010	4,966	6,309	4,119	3,585	4,511	5,747	3,592
East Tennessee State U.	242	5,949	8,912	7,172	4,011	4,219	6,103	4,149	3,794
Texas Tech U., Health Sciences Center, El Paso	243	2,280	3,288	4,440	3,964	486	549	905	960
U. Wisconsin-Milwaukee	244	4,150	3,765	3,770	3,938	2,489	2,132	2,203	2,173

TABLE 45

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Alaska, Anchorage	245	4,665	6,250	5,216	3,910	3,606	5,164	4,540	3,312
MGH Institute of Health Professions	246	1,427	1,300	2,428	3,900	1,427	1,300	2,428	3,900
Keck Graduate Institute	247	1,412	1,350	1,282	3,868	727	685	643	2,162
Morgan State U.	248	2,906	2,121	3,096	3,835	2,890	2,121	2,986	2,891
U. California, San Francisco	249	2,358	2,520	2,517	3,559	681	433	912	1,682
U. Detroit Mercy	250	4,019	3,743	3,838	3,484	3,984	3,709	3,802	3,454
U. Puerto Rico, Rio Piedras	251	3,590	4,234	3,349	3,448	2,884	3,234	2,373	2,477
Texas A&M U.-Corpus Christi	252	6,377	4,643	3,998	3,397	4,191	2,629	2,452	2,527
New Jersey Institute of Technology	253	2,459	4,038	10,240	3,301	1,109	966	1,055	1,374
Worcester Polytechnic Institute	254	2,104	2,188	3,538	3,170	954	1,065	1,589	1,519
Georgia Southern U.	255	5	2,442	2,483	3,125	5	338	363	589
Des Moines U.	256	2,809	3,670	3,573	3,041	4	423	661	158
Southern Methodist U.	257	2,144	1,978	2,648	3,002	1,061	1,365	1,161	1,378
California State U., Fullerton	258	1,395	1,770	2,598	2,999	1,262	1,577	1,887	2,168
Desert Research Institute	259	3,539	3,574	3,674	2,974	43	33	0	0
California State U., Monterey Bay	260	2,006	1,861	2,127	2,957	1,859	1,817	1,987	2,526
CUNY, Queens C.	261	1,250	1,599	2,738	2,914	1,054	1,155	1,535	2,311
South Dakota State U.	262	3,689	2,785	3,167	2,901	1,813	1,284	2,030	1,766
North Carolina A&T State U.	263	1,612	1,491	1,925	2,855	1,455	1,186	1,801	2,477
Alabama A&M U.	264	1,521	1,649	1,800	2,780	1,104	1,407	1,746	2,310
U. of the Virgin Islands	265	1,554	1,913	2,708	2,708	1,554	1,913	2,708	2,708
SUNY, C. of Environmental Science and Forestry	266	9,281	6,857	3,501	2,693	3,064	2,389	1,969	1,264
U. West Florida	267	1,690	2,018	2,741	2,634	409	679	702	668
Pepperdine U.	268	597	398	1,884	2,603	121	282	213	231
Williams C.	269	582	602	2,275	2,592	396	420	614	695
Alabama State U.	270	1,747	2,265	1,929	2,579	1,747	2,265	1,929	2,579
Tennessee Technological U.	271	1,167	1,325	1,709	2,525	870	1,010	1,300	1,883
U. Central Oklahoma	272	303	316	2,255	2,511	229	240	465	515
California State U., Long Beach	273	2,110	1,201	1,834	2,504	1,849	947	1,306	1,852
San Jose State U.	274	1,542	2,431	3,253	2,474	1,268	1,047	1,924	2,254
California State Polytechnic U., Pomona	275	1,818	1,555	1,753	2,459	1,365	1,216	1,250	1,826
James Madison U.	276	1,099	1,865	2,228	2,432	533	952	1,068	1,448
Albany C. of Pharmacy and Health Sciences	277	2,732	3,562	2,001	2,281	1,111	1,856	958	1,084
Ball State U.	278	1,412	1,536	1,644	2,251	689	727	1,036	1,377
Hope C.	279	629	1,130	2,209	2,212	282	408	2,130	2,076

TABLE 45

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
SUNY, Polytechnic Institute	280	1,977	2,412	1,529	2,209	1,297	1,233	1,529	1,724
Appalachian State U.	281	840	1,089	1,906	2,101	345	371	762	738
William & Mary	282	2,241	1,823	2,449	2,035	1,205	1,232	1,485	1,584
Wichita State U.	283	2,959	2,705	2,150	2,030	2,623	2,395	1,992	1,109
Villanova U.	284	2,133	2,053	1,743	2,029	333	562	690	842
Duquesne U.	285	3,648	1,239	1,627	2,010	1,178	849	1,080	1,287
Wesleyan U.	286	909	1,469	1,833	1,998	382	581	878	1,360
Oregon Institute of Technology	287	765 i	1,637 i	1,925 i	1,988 i	0	66 i	89 i	360 i
Chicago State U.	288	ne	ne	2,223	1,984	ne	ne	2,223	1,984
U. Alabama, Huntsville	289	2,046	1,411	1,508	1,982	583	300	366	823
Sul Ross State U.	290	0	1,265 i	1,618 i	1,974	0	119 i	169 i	220
U. Massachusetts, Dartmouth	291	1,390	1,725	2,225	1,935	253	211	191	213
Colorado School of Mines	292	1,549	2,458	2,627	1,925	1,513	1,927	1,985	1,218
Touro U., California	293	2,514	2,637	1,564	1,908	521	537	238	310
Smith C.	294	1,657	1,305	2,567	1,883	867	687	761	942
Murray State U.	295	2,399	2,962	2,351	1,868	1,496	2,117	1,419	987
Michigan Technological U.	296	2,392	1,772	1,963	1,836	901	672	567	561
Texas A&M U.-Kingsville	297	1,386	1,328	1,782	1,833	1,120	1,157	1,559	1,333
Indiana U. Pennsylvania	298	1,107	1,831	1,677	1,799	667	989	814	1,088
California State U., San Marcos	299	1,451	978	1,283	1,791	642	197	440	985
Long Island U.	300	621	734	2,155	1,779	58	30	61	220
U. Arkansas, Little Rock	301	2,833	1,957	1,502	1,771	2,143	1,955	1,471	1,701
Louisiana State U., Health Sciences Center, New Orleans	302	19,533	20,165	5,544	1,737	16,359	17,760	4,173	521
U. Nebraska, Omaha	302	2,254	1,034	1,778	1,737	2,192	952	1,492	1,052
Rochester Institute of Technology	304	1,238	1,551	1,657	1,731	668	763	765	864
Sam Houston State U.	305	1,382	2,145	2,162	1,721	379	869	837	760
Towson U.	306	531	450	824	1,709	361	305	490	680
U. Missouri, Saint Louis	307	1,567	1,869	1,782	1,691	1,025	1,238	1,354	1,125
Catholic U. of America	308	1,333	1,157	607	1,689	1,228	968	491	565
U. North Florida	309	907	1,243	1,451	1,666	310	720	786	870
Nova Southeastern U.	310	0	0	0	1,651	0	0	0	0
Montclair State U.	311	1,422	1,125	688	1,638	948	861	643	337
Azusa Pacific U.	312	126	174	240	1,616	0	0	0	0
Barnard C.	313	625	873	1,297	1,570	432	762	1,082	1,315
Fordham U.	314	1,435	1,207	1,213	1,566	883	717	575	718

TABLE 45

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Swarthmore C.	315	841	824	1,295	1,516	439	428	820	1,180
C. Charleston	316	882	1,147	904	1,500	561	843	740	1,218
Reed C.	316	1,573	1,629	1,319	1,500	1,180	1,252	718	812
Amherst C.	318	1,064	1,259	1,741	1,485	608	527	1,269	826
California State U., San Bernardino	319	539	882	1,187	1,477	89	93	304	441
California State U., Channel Islands	320	707	807	1,143	1,469	0	0	311	472
CUNY, Graduate School of Public Health and Health Policy	321	688	492	784	1,439	688	492	784	1,439
Saint Joseph's U.	322	726	517	1,608	1,435	460	362	1,035	772
Black Hills State U.	323	783	800	1,391	1,399	658	648	1,114	1,157
Florida A&M U.	324	67	29	113	1,396	61	29	113	73
U. Maryland Center for Environmental Science	325	1,978	1,035	1,088	1,390	1,261	682	781	809
Tougaloo C.	326	503	501	1,207	1,367	503	501	1,207	1,366
Bucknell U.	327	743	674	1,238	1,360	361	354	777	948
Clark U.	328	1,134	1,059	1,052	1,359	705	649	518	511
CUNY, Graduate Center	328	116	110	6	1,359	87	92	0	0
U. Minnesota, Duluth	330	1,090	1,279	1,333	1,341	592	774	876	625
DePaul U.	331	296	371	865	1,313	264	281	865	1,273
Southeastern Louisiana U.	332	793	637	918	1,301	337	290	712	685
Loyola Marymount U.	333	407	637	2,001	1,296	233	243	665	317
Marian U., Indianapolis	333	ne	ne	ne	1,296	ne	ne	ne	326
Hofstra U.	335	337	590	709	1,288	308	358	483	627
South Carolina State U.	336	981	1,082	1,183	1,284	981	1,082	1,183	1,284
Colorado State U., Pueblo	337	1,676	1,845	1,115	1,260	1,081	1,248	853	782
Bowdoin C.	338	1,196	1,262	1,275	1,258	869	1,002	957	899
Hampton U.	339	783	872	1,056	1,252	783	872	1,056	1,252
Fisk U.	340	3,427	1,601	1,289	1,228	3,427	1,579	1,196	946
Clarkson U.	341	902	920	1,235	1,192	442	565	667	655
U. New Orleans	342	974	1,074	1,014	1,181	148	215	191	170
Missouri U. of Science and Technology	343	970	553	652	1,168	130	97	172	220
Western Kentucky U.	344	1,307	924	815	1,166	706	354	310	435
U. Maryland, Eastern Shore	345	269	120	616	1,148	269	120	616	1,117
Bryn Mawr C.	346	640	709	1,132	1,141	100	194	448	603
Texas Christian U.	347	311	138	248	1,126	57	138	209	189
Eastern Michigan U.	348	1,350	1,037	791	1,122	763	467	317	390
Bates C.	349	1,166	1,660	1,521	1,120	1,095	1,511	1,292	1,021

TABLE 45

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Texas Woman's U.	350	562	251	977	1,105	430	123	977	1,105
Wellesley C.	351	1,454	1,554	1,033	1,104	1,326	1,418	859	781
Providence C.	352	422	414	ne	1,102	347	283	ne	853
U. Puget Sound	353	357	ne	707	1,086	223	ne	572	1,058
Grinnell C.	354	487	423	272	1,082	29	17	20	509
Seton Hall U.	355	138	607	463	1,059	138	607	463	508
U. Richmond	356	765	766	835	1,051	648	604	574	729
Middle Tennessee State U.	357	1,359	2,096	2,188	1,049	599	766	918	743
Louisiana Tech U.	358	753	749	1,249	1,045	232	194	210	325
California State U., Fresno	359	449	448	709	1,028	362	440	548	732
U. Northern Colorado	360	896	963	925	1,026	389	457	465	349
U. Akron	361	1,699	1,180	1,303	1,022	694	397	655	643
Lake Superior State U.	362	ne	ne	892	1,015	ne	ne	892	1,015
Haverford C.	363	926 i	313 i	604 i	997 i	109	95	325	721
C. New Jersey	364	649	819	1,116	996	328	347	631	688
Bowling Green State U.	365	909	1,125	1,515	995	376	631	842	595
American U.	366	1,235	719	661	979	476	282	252	345
Langston U.	367	1,650	510	1,402	964	1,650	510	1,020	891
Oklahoma State U., Center for Health Sciences	368	452	531	1,090	962	0	70	634	465
SUNY, Buffalo State U.	369	929	780	767	945	176	29	29	39
Gallaudet U.	370	853	525	577	939	0	0	63	185
New York Institute of Technology	370	283	227	372	939	283	227	372	939
Trinity U.	372	499	455	735	927	296	184	230	398
U. Tulsa	373	500	607	828	925	267	330	360	438
California State U., Los Angeles	374	1,949	476	773	924	1,512	319	597	852
CUNY, Brooklyn C.	375	1,792	1,505	630	893	1,363	1,341	547	805
Nevada State C.	376	ne	ne	1,016	890	ne	ne	994	890
Florida Institute of Technology	377	667	875	949	887	423	538	541	525
Hawaii Pacific U.	378	594	557	526	883	570	557	520	883
Southern U. and A&M C., Baton Rouge	379	128	261	605	882	128	261	605	882
U. Tennessee, Chattanooga	380	843	746	835	880	552	594	657	633
Roger Williams U.	381	177	521	695	852	166	367	482	444
Middlebury C.	382	506	1,017	692	827	374	999	643	801
California State U., Stanislaus	383	1,163	1,222	1,004	808	752	702	401	388
Montana Technological U.	384	708	661	656	803	339	305	335	492

TABLE 45

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Colorado Denver ^f	385	na	1,012	1,076	799	na	942	941	687
Tarleton State U.	386	249	415	675	789	15	0	0	0
Northland C.	387	ne	602 i	688 i	783 i	ne	437 i	487 i	551 i
Spelman C.	387	604	484	347	783	604	484	347	783
U. South Carolina, Aiken	387	962	657	1,008	783	870	554	721	549
U. of the Pacific	390	641	687	1,160	782	326	434	767	782
Vassar C.	391	197	172	897	778	16	87	544	344
Northern Kentucky U.	392	458	562	561	773	257	330	368	430
California State U., Dominguez Hills	393	110	0	286	763	81	0	254	263
California State U., East Bay	394	439	478	340	754	58	57	13	87
U. Wisconsin-Oshkosh	395	731 i	735	617	748	635 i	630	511	490
West Virginia School of Osteopathic Medicine	396	629	522	666	737 i	52	59	119	127 i
Northern Michigan U.	397	430	644	974	734	30	73	230	320
Jackson State U.	398	1,045	691	750	733	804	591	668	625
Western Washington U.	399	721	548	455	724	243	175	328	386
U. Central Arkansas	400	398	462	612	714	242	303	405	591
Southern Illinois U., Edwardsville	401	1,047	2,023	589	711	271	467	457	543
Davidson C.	402	322	595	769	709	200	259	325	338
Colby C.	403	304	270	528	707	243	186	490	620
Trinity C., Hartford	404	908	1,062	965	706	861	884	811	319
U. Nebraska, Kearney	405	775	995	910	698	405	545	645	435
Colgate U.	406	478	507	676	692	84	331	170	273
Kean U.	407	63	0	976	680	0	0	89	203
Ursinus C.	408	ne	ne	ne	665	ne	ne	ne	578
California State U., Chico	409	184	111	63	661	170	111	63	654
St. John's U., New York	410	998	1,045	856	659	819	898	769	534
New C. Florida	411	ne	ne	ne	656	ne	ne	ne	21
CUNY, Lehman C.	412	255	181	335	654	136	78	283	576
Kenyon C.	413	534	ne	753	652	520	ne	689	563
Lewis and Clark C.	414	651	288	541	647	538	258	345	449
Northern Illinois U.	415	436	1,232	839	638	176	646	415	359
U. Wisconsin-La Crosse	416	667	603	813	631	402	397	486	315
Christopher Newport U.	417	644	536	625	628	160	70	293	122
Mount Holyoke C.	418	359	398	425	618	333	376	418	601
CUNY, Baruch C.	419	250	777	904	612	117	749	760	608

TABLE 45

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Texas of the Permian Basin	420	328	962	844	585	328	962	797	522
U. of the Incarnate Word	421	327	268	303	577	14	81	194	443
Texas A&M International U.	422	9	185	173	575	0	65	66	230
Fort Lewis C.	423	231	352	499	574	187	352	493	555
New Mexico Institute of Mining and Technology	424	260	290	691	558	255	244	593	480
California State U., Bakersfield	425	223	189	46	553	70	53	29	286
U. San Francisco	426	65	81	640	552	0	19	102	283
Pennsylvania State U., Behrend	427	21	55	532	545	15	0	238	279
Franklin and Marshall C.	428	572	677	860	533	502	584	782	446
Austin Peay State U.	429	60	50	35	530	49	50	29	264
U. Guam	430	291	411	573	528	205	323	475	457
Harvey Mudd C.	431	520	364	605	524	444	316	534	417
Connecticut C.	432	275	232	477	518	48	89	152	257
CUNY, C. Staten Island	433	554	407	548	509	377	347	527	504
Pomona C.	434	338	288	318	500	180	202	223	170
U. Wisconsin-Green Bay	435	306 i	335 i	477 i	498 i	164 i	172 i	206 i	241 i
St. Olaf C.	436	90	182	ne	496	0	102	ne	287
Liberty U.	437	247	333	ne	495	44	45	ne	148
Calvin U.	438	329 i	355 i	381 i	490 i	273 i	273 i	274	348
Bowie State U.	439	414	96	319	485	414	96	319	485
Dillard U.	440	1,099	470	609	484	500	70	288	152
Salisbury U.	440	366	381	381	484	32	88	82	157
Grand Valley State U.	442	667	625	507	473	262	303	273	318
Furman U.	443	335	309	375	468	309	281	283	219
New Mexico Highlands U.	444	171	254 i	361 i	467	115	245 i	352 i	458
U. Hawaii, Hilo	445	1,548	996	560	461	1,145	657	293	331
Santa Clara U.	446	576	386	308	457	463	356	282	379
Dine C.	447	0	ne	0	453	0	ne	0	410
Pennsylvania State U., Harrisburg	448	82	248	607	450	76	18	311	272
California State U., Sacramento	449	682	735	452	444	125	126	132	320
U. Colorado Colorado Springs	450	716	728	332	443	651	718	313	343
U. Washington, Tacoma	451	1	203	276	442	0	203	276	442
Minnesota State U., Mankato	452	63	329	437	434	0	300	313	294
U. San Diego	453	92	37	169	432	31	19	39	75
Purdue U., Fort Wayne	454	483	252	343	431	117	44	20	55

TABLE 45

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
California Polytechnic State U., San Luis Obispo	455	1,009	707	844	423	609	464	632	214
Southern Connecticut State U.	456	357	132	323	418	17	16	126	129
Elizabeth City State U.	457	435	751	628	415	428	751	628	415
West Chester U. Pennsylvania	457	459	350	437	415	337	240	228	236
U. Puerto Rico, Ponce	459	ne	ne	ne	401	ne	ne	ne	382
National Defense U.	460	200	400	400	400	200	400	400	400
Xavier U. Louisiana	460	1,070	378	398	400	987	354	385	378
Winston-Salem State U.	462	684	189	542	399	677	189	467	399
U. Texas, Tyler	463	541	774	653	397	259	540	596	246
Florida Gulf Coast U.	464	0	94	179	386	0	62	45	79
Missouri State U.	465	651	850	634	382	475	517	422	222
Rutgers, State U. New Jersey, Camden	466	225	13	275	363	0	0	0	0
Rhode Island C.	467	540	1,041	611	358	504	1,021	607	358
Bryant U.	468	ne	ne	ne	353	ne	ne	ne	347
Occidental C.	468	278	279	312	353	199	279	312	353
Sonoma State U.	470	197	170	349	352	161	169	341	339
Oberlin C.	471	285	230	ne	351	252	214	ne	326
Western Carolina U.	472	279	421	332	345	66	205	229	202
Skidmore C.	473	85	351	111	341	69	330	108	241
Claffin U.	474	857	492	382	337	854	482	382	337
Northeastern Illinois U.	475	249	351	335	325	249	351	335	325
Central Washington U.	476	428	336	266	324	179	122	42	20
Butler U.	477	ne	ne	583	321	ne	ne	544	258
Coastal Carolina U.	477	98	173	368	321	98	75	109	137
Norfolk State U.	479	114	88	93	317	114	88	93	54
California State Polytechnic U., Humboldt	480	1,302	1,028	606	316	552	151	227	161
Winthrop U.	481	100	240	314	308	64	103	166	150
Macalester C.	482	297	108	142	305	121	10	61	116
Pacific U.	483	160	121	454	292	25	76	77	139
Seattle U.	484	156	29	200	286	86	25	103	133
SUNY, Geneseo	484	131	108	152	286	58	61	85	196
CUNY, York C.	486	485	129	288	282	450	71	221	245
U. Puerto Rico, Mayaguez	487	1,067	865	405	275	918	865	348	273
U. Alaska, Southeast	488	374	723	310	264	369	710	285	210
Whitman C.	489	427	ne	284	263	302	ne	89	75

TABLE 45

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Utah Valley U.	490	ne	ne	380	256	ne	ne	261	237
Lamar U.	491	55	23	131	255	27	0	28	50
Mercer U.	491	235	250	253	255	0	0	0	0
Ferris State U.	493	ne	ne	ne	249	ne	ne	ne	229
Morehouse C.	494	120	90	263	247	120	90	263	247
U. Wisconsin-Platteville	495	111 i	191 i	224 i	246 i	41 i	53 i	65 i	69 i
Eastern Washington U.	496	186	193	79	244	155	188	63	241
Morehead State U.	497	211	728	315	242	211	721	90	181
Texas A&M U.-San Antonio	498	ne	ne	137	241	ne	ne	48	206
Claremont McKenna C.	499	396	274	272	239	396	274	272	239
U. Scranton	500	ne	ne	ne	238	ne	ne	ne	138
Saint John's U.	501	104 i	180 i	208 i	237 i	0 i	0 i	0 i	0 i
Lincoln Memorial U.	502	ne	ne	ne	235	ne	ne	ne	0
Willamette U.	502	169	472	832	235	35	367	411	143
C. of Saint Benedict	504	116 i	178 i	205 i	234 i	0 i	14 i	16 i	18 i
U. Washington, Bothell	504	0	493	254	234	0	323	254	214
Gettysburg C.	506	257	ne	ne	233	13	ne	ne	39
Monmouth U.	506	85	35	98	233	0	0	51	122
Stephen F. Austin State U.	508	57	80	60	232	0	0	0	69
U. South Alabama	509	87	232	376	221	41	133	162	80
St. Edward's U.	510	825	825	390	220	800	800	270	110
U. Northern Iowa	511	104	164	104	219	35	0	44	134
Tennessee State U.	512	2,425	2,958 i	2,132	218	2,266	2,958 i	2,132	218
Carleton C.	513	256	501	246	217 i	82	115	87	127 i
Pace U.	513	431	296	225	217	386	288	178	108
Eastern Kentucky U.	515	609	488	ne	212	334	335	ne	154
Wheaton C., Wheaton	516	23	24	ne	209	0	0	ne	0
U. Dayton	517	217	163	225	206	205	163	211	179
Prairie View A&M U.	518	379	353	258	204	369	320	255	204
Lafayette C.	519	87	93	649	197	50	55	573	96
C. Wooster	520	242	339 i	400	195	76	70 i	102	42
Hamilton C.	521	81	122	116	190	26	86	75	26
Radford U.	522	ne	ne	ne	186	ne	ne	ne	53
St. Cloud State U.	523	349	270	348	183	126	6	56	0
Abilene Christian U.	524	ne	101	185	179	ne	0	0	0

TABLE 45

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Southern U. and A&M C., Agricultural Research and Extension Center	525	298	295	306	178	0	140	140	0
U. Southern Maine	526	195	180	180	177	60	63	55	38
CUNY, system office	527	84	37	38	174	84	37	38	45
U. Louisiana, Monroe	528	410	298	291	166	409	298	291	144
CUNY, New York City C. of Technology	529	496	362	298	162	394	311	293	162
Purdue U., Northwest	529	18	29	47	162	5	28	47	28
Albany State U.	531	143	94	ne	158	143	94	ne	158
Hobart and William Smith Colleges	531	79	45	298	158	39	37	217	120
Stevens Institute of Technology	533	0	94	1,245	157	0	83	833	104
Lincoln U.	534	ne	ne	ne	153	ne	ne	ne	153
U. Wisconsin-River Falls	534	99	94	ne	153	46	16	ne	50
U. New Haven	536	35	121	101	151	9	25	31	111
Biola U.	537	150 i	157 i	170	149	0 i	0 i	0	0
U. North Carolina, Asheville	538	493	322	53	143	73	14	35	111
U. of St. Thomas (MN)	538	514	182	286	143	242	113	102	99
U. Virginia's C. Wise	540	ne	125	0	139	ne	111	0	139
Sacred Heart U.	541	ne	0	ne	136	ne	0	ne	0
U. Houston-Clear Lake	542	44	42	134	135	20	38	83	105
Youngstown State U.	543	74	14	254	134	0	0	231	131
Central State U.	544	59	164	203	133	59	164	203	133
Indiana State U.	545	690	456	335	129	327	78	75	0
U.S. Military Academy	546	421	1,318	132	120	295	1,250	130	120
Manhattan C.	547	56	49	37	114	0	0	0	0
Union C., Schenectady	548	45	64	143	108	13	4	41	0
Colorado C.	549	121	144	128	107	20	1	0	0
Norwich U.	550	ne	ne	ne	104	ne	ne	ne	95
U. of Mary Washington	550	132	155	190	104	85	119	111	78
Elon U.	552	140	108	49	102	0	39	0	22
Pittsburg State U.	553	178	110	254	100	178	109	254	100
U. Wisconsin-Eau Claire	554	80	174	111	98	30	42	0	23
U. Houston-Downtown	555	46	25	135	97	0	0	93	71
U. Hawaii, Maui C.	556	ne	253	ne	96	ne	241	ne	85
Central Connecticut State U.	557	131	142	121	95	73	97	23	7
Marymount U.	558	ne	93	15	92	ne	0	0	66
East Stroudsburg U. Pennsylvania	559	ne	ne	0	89	ne	ne	0	85

TABLE 45

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed				
		2020	2021	2022	2023	2020	2021	2022	2023	
Virginia Military Institute	560	ne	ne	83	88	ne	ne	0	0	
Texas A&M U.-Commerce	561	144	31	18	82	8	0	0	0	
Dakota State U.	562	48	0	0	81	48	0	0	81	
SUNY, Oswego	563	281	129	151	80	190	72	82	39	
Eastern Connecticut State U.	564	376	205	157	78	177	107	35	38	
U. Michigan, Dearborn	564	121	75	99	78	112	75	99	70	
Grambling State U.	566	0	0	108	i 74	0	0	108	i 74	
Stockton U.	566	105	0	62	74	39	0	62	74	
U. North Georgia	568	16	31	26	68	16	31	26	24	
U. South Carolina, Beaufort	569	ne	ne	ne	67	ne	ne	ne	0	
Drake U.	570	ne	17	62	65	ne	8	58	63	
Gustavus Adolphus C.	571	ne	ne	ne	64	ne	ne	ne	20	
U. Puerto Rico, Cayey	572	601	392	30	63	237	145	30	45	
Fayetteville State U.	573	408	30	56	62	i 408	30	56	62	i
Indiana U., South Bend	574	ne	49	ne	57	ne	0	ne	0	
Ithaca C.	575	138	128	190	55	132	109	170	43	
U. Puerto Rico, Humacao	575	229	86	1	55	229	86	1	55	
Virginia State U.	577	24	83	61	52	24	38	44	52	
William Paterson U.	578	512	571	821	50	81	201	461	23	
Citadel Military C. South Carolina	579	75	103	196	47	49	77	124	24	
U. Arkansas, Pine Bluff	579	74	0	8	47	58	0	6	20	
Fairfield U.	581	230	14	ne	43	191	0	ne	0	
Andrews U.	582	3	0	ne	41	0	0	ne	0	
Suffolk U.	583	29	33	19	30	29	33	14	30	
U. Wisconsin-Stevens Point	583	214	205	119	30	2	2	6	3	
Pennsylvania State U., Altoona	585	ne	ne	ne	29	ne	ne	ne	0	
SUNY, C. Brockport	586	299	67	39	27	291	61	20	7	
Troy U.	586	176	62	41	27	157	37	2	0	
Claremont Graduate U.	588	0	0	0	25	0	0	0	25	
U. Hartford	589	0	0	10	24	0	0	3	0	
U. of the District of Columbia	589	0	63	0	24	0	63	0	24	
Northwestern State U. Louisiana	591	131	7	19	21	i 0	0	0	0	i
Lipscomb U.	592	0	i 0	ne	17	0	i 0	ne	0	
Robert Morris U.	592	ne	ne	15	i 17	ne	ne	0	i 0	
Savannah State U.	594	22	3	6	15	22	3	6	15	

TABLE 45

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
West Texas A&M U.	594	21	10	0	15	0	0	0	0
Framingham State U.	596	0	411 i	211 i	10	0	0 i	0 i	0
Western Illinois U.	596	852	334	30	10	653	274	8	0
La Sierra U.	598	101	5	7	8 i	4	0	0	0 i
Merrimack C.	599	0	ne	ne	7	0	ne	ne	0
U. Illinois, Springfield	600	1	2	1	3	0	0	0	3
All other surveyed institutions	-	164,546	145,490	144,225	0	102,096	98,484	96,265	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

^a Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$26,624 thousand imputed for total and \$25,807 thousand reported for federally financed R&D expenditures in biological and biomedical sciences in FY 2023. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^c The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

^d The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

^e Touro University, New York includes the Lovelace Biomedical Research Institute. In FY 2023, the Lovelace Biomedical Research Institute joined the Touro University System.

^f The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
All institutions	-	27,991,953	29,857,379	31,874,515	35,724,571	14,705,970	16,130,296	17,505,745	19,390,822
U. California, San Francisco	1	1,579,053	1,637,342	1,731,822	1,975,332	634,237	645,077	736,836	814,799
U. California, Los Angeles	2	955,580	1,019,775	1,073,244	1,183,024	437,643	502,185	594,487	614,927
U. California, San Diego	3	765,869	762,778	854,614	975,237	377,281	419,886	531,157	593,438
Duke U.	4	717,323	721,730	857,681	922,346	353,311	383,958	493,708	520,614
U. North Carolina, Chapel Hill	5	700,352	733,607	798,512	910,610	398,199	426,102	453,720	495,807
Yale U.	6	726,089	779,001	809,589	899,612	367,588	415,334	445,289	478,074
Johns Hopkins U. ^a	7	736,373 i	719,743 i	820,566 i	884,787 i	492,957	495,734	571,270	618,592
U. Pittsburgh, Pittsburgh	8	659,733	678,383	728,994	840,307	400,747	421,306	462,914	537,455
Stanford U.	9	572,268	622,630	695,772	795,985	323,047	359,980	392,879	449,167
U. Texas M. D. Anderson Cancer Center	10	654,098	714,145	755,886	784,555	90,726	114,464	120,193	137,820
U. Washington, Seattle	11	660,692	685,723	679,546	772,288	489,241	488,597	472,149	543,005
Ohio State U.	12	422,365	700,303	666,812	744,235	225,112	245,788	280,228	330,184
U. Michigan, Ann Arbor	13	622,140	604,587	680,357	739,926	333,024	333,812	369,878	390,777
Vanderbilt U. and Vanderbilt U. Medical Center	14	441,313	599,247	651,870	729,531	303,327	361,743	422,950	481,107
New York U.	15	389,211	469,714	584,887	723,188	203,772	267,032	355,486	450,355
Emory U.	16	535,117	571,627	628,633	721,234	264,862	307,719	333,946	401,347
Columbia U. in the City of New York	17	531,123	563,787	637,456	702,609	391,314	422,968	462,070	521,080
U. Colorado Anschutz Medical Campus ^b	18	na	550,101	591,424	667,024	na	357,186	423,282	467,520
U. Minnesota, Twin Cities	19	474,705	514,691	602,141	657,293	231,480	274,027	333,708	350,374
Washington U., Saint Louis	20	465,122	498,196	549,454	618,911	272,506	290,293	336,869	373,126
Northwestern U.	21	451,059	474,272	514,642	596,679	287,948	302,805	332,325	380,372
U. Wisconsin-Madison	22	451,868	467,332	500,026	560,021	177,594	185,553	204,259	223,386
U. Texas Southwestern Medical Center	23	377,001	408,377	479,181	540,934	154,128	156,620	185,558	223,532
U. Alabama, Birmingham	24	409,345	439,145	486,139	522,941	242,728	265,640	283,493	308,949
Icahn School of Medicine at Mount Sinai	25	387,114	428,618	482,027	513,654	272,264	318,922	349,128	377,260
Cornell U.	26	370,944	384,742	429,280	509,376	161,371	185,010	214,450	240,972
U. Cincinnati	27	363,772	380,364	428,068	481,243	223,432	239,842	268,101	299,440
Indiana U., Bloomington	28	367,228	369,296	402,704	472,182	162,496	168,420	188,523	228,551
Baylor C. of Medicine	29	374,095	371,964	426,947	447,563	148,425	168,837	197,342	210,111
Uniformed Services U. of the Health Sciences	30	315,313	359,418	252,132	443,756	228,596	257,125	176,427	360,874
U. Maryland ^c	31	366,476	390,634	400,555	442,549	215,647	215,882	211,533	228,444
U. Florida	32	327,963	344,705	400,250	430,438	142,251	156,907	169,021	179,454
U. Pennsylvania	33	326,566	329,713	352,904	412,203	153,364	171,402	189,554	216,864
U. Utah	34	361,988 i	369,765 i	351,390	409,503	177,544	186,207	190,041	223,879

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Southern California	35	427,949	468,905	262,080	342,531	215,128	235,884	152,381	171,335
Albert Einstein C. of Medicine	36	288,654	301,715	318,314	336,238	204,635	214,619	220,780	230,151
Case Western Reserve U.	37	283,260	252,185	292,264	333,191	231,431	206,937	245,047	267,490
U. Iowa	38	284,636	278,735	295,198	327,000	123,855	130,852	133,298	136,737
Oregon Health and Science U.	39	265,157	278,801	300,193	312,876	184,045	195,006	208,921	210,171
U. Chicago	40	219,525	254,022	292,843	303,959	163,943	194,258	217,318	227,846
U. Miami	41	218,739	215,596	247,302	298,538	98,788	98,956	109,639	126,966
Rutgers, State U. New Jersey, New Brunswick	42	319,113	319,883	228,112	293,805	131,115	165,473	98,452	120,934
Wake Forest U.	43	232,490	250,518	250,627	286,149	162,023	184,166	175,325	197,338
U. California, Davis	44	229,577	247,406	262,615	283,182	122,802	126,788	161,879	170,198
Boston U.	45	208,709	276,870	295,414	275,110	118,255	181,093	167,178	142,415
U. Virginia, Charlottesville	46	189,679	172,524	182,321	267,291	57,711	59,905	60,833	106,083
U. Illinois, Chicago	47	222,385	237,347	241,065	256,515	128,953	139,546	146,031	152,005
Medical C. Wisconsin	48	171,901	185,395	206,900	233,998	75,097	81,557	93,426	91,144
U. Rochester	49	205,158	214,686	229,953	233,190	128,290	137,802	143,435	150,391
U. California, Irvine	50	174,686	190,252	187,306	217,588	78,599	79,591	87,959	105,351
Virginia Commonwealth U.	51	137,007	140,319	177,716	214,270	57,194	60,154	66,094	81,161
U. Arizona	52	160,542	162,748	183,399	199,768	58,241	71,073	80,959	86,387
U. Kansas	53	154,245	168,897	172,748	195,349	69,398	83,587	84,531	88,016
Georgetown U.	54	138,679	167,962	176,598	182,374	66,199	99,766	98,393	100,439
U. Texas Health Science Center, Houston	55	118,123	138,943	152,507	172,565	53,123	72,125	76,851	90,275
U. New Mexico	56	115,028	213,149	200,164	168,318	68,385	156,667	138,833	98,966
U. Texas Health Science Center, San Antonio	57	112,594	126,181	132,856	158,518	53,745	58,379	65,129	81,366
Thomas Jefferson U.	58	96,265	117,226	151,386	157,091	32,350	59,891	58,763	53,752
SUNY, U. Buffalo	59	150,541	154,302	159,310	156,207	59,728	62,571	63,398	70,487
Wayne State U.	60	154,653	146,425	152,350	151,640	74,025	72,186	77,680	76,321
U. Arkansas for Medical Sciences	61	105,955	122,965	145,560	146,264	31,804	47,652	54,269	55,768
Pennsylvania State U., University Park and Hershey Medical Center	62	90,967	91,303	118,266	144,332	49,889	51,789	60,184	67,315
Harvard U.	63	122,619	133,571	131,479	140,426	54,439	74,024	74,495	77,144
U. Nebraska, Lincoln and Medical Center ^d	64	na	na	na	137,215	na	na	na	54,879
U. Oklahoma, Norman and Health Science Center	65	119,319	116,506	125,256	130,968	43,535	46,790	54,008	59,736
U. South Florida ^e	66	72,093	90,274	99,029	119,355	24,754	33,784	45,993	55,214
U. Massachusetts, Medical School	67	94,555	100,911	132,752	118,862	61,778	62,856	96,374	76,478
U. Missouri, Columbia	68	78,021	79,594	98,322	114,187	35,673	44,407	44,542	53,565
Rush U.	69	78,672	92,716	99,567	111,634	51,186	60,853	66,274	76,245

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
George Washington U.	70	126,901	122,447	114,499	109,594	84,188	83,219	73,625	51,051
Medical U. South Carolina	71	86,364	93,409	91,364	108,793	44,041	48,670	47,538	49,156
Temple U.	72	93,790	94,116	101,776	104,767	58,687	62,141	67,747	59,669
Purdue U., West Lafayette	73	85,839	88,853	91,794	103,811	29,679	33,916	39,058	43,093
U. Louisville	74	91,134	87,611	99,867	98,442	28,362	29,156	43,345	33,557
U. Kentucky	75	77,295	77,779	86,296	98,047	47,572	52,260	62,945	69,351
U. Connecticut	76	64,335	74,770	89,129	97,728	38,304	47,916	57,044	63,473
Texas A&M U., College Station and Health Science Center	77	220,948	188,730	103,670	94,371	171,384	139,429	55,668	33,989
U. Texas, Austin	78	62,010	69,548	77,108	94,347	28,826	36,365	40,012	44,339
Augusta U.	79	60,177	69,850	73,958	89,163	25,747	30,933	31,030	33,719
U. North Texas, Health Science Center	80	28,703	36,100	64,670	85,752	18,800	23,830	52,419	73,933
U. South Carolina, Columbia	81	72,233	69,832	78,146	85,437	41,687	41,165	50,514	55,626
Dartmouth C. and Dartmouth Hitchcock Medical Center	82	83,046	78,745	80,239	84,151	43,926	44,449	42,037	48,425
U. Tennessee, Health Science Center	83	72,349	74,246	74,096	84,104	28,260	33,007	33,996	39,905
West Virginia U.	84	58,047	69,644	76,948	83,852	18,908	24,940	28,335	34,303
U. Mississippi	85	67,047	56,848	65,860	78,100	46,807	39,086	45,534	48,999
Michigan State U.	86	60,154	57,339	71,382	76,888	27,534	28,328	37,431	43,065
SUNY, Stony Brook U.	87	59,949	63,040	78,801	72,671	26,694	32,165	40,777	39,663
U. Vermont	88	64,224	63,210	65,313	69,915	33,364	37,336	40,601	42,798
U. California, Berkeley	89	55,230	58,481	60,240	64,238	25,243	26,345	33,545	33,409
Washington State U.	90	49,070	59,282	64,128	63,075	32,030	36,732	41,980	45,863
Brown U.	91	41,744	46,024	49,964	61,080	31,743	37,100	42,112	44,711
U. Puerto Rico, Medical Sciences Campus	92	37,081	43,846	47,314	60,985	26,897	32,997	34,786	46,539
Morehouse School of Medicine	93	29,813	32,637	42,489	57,125	22,500	25,181	31,339	41,069
Louisiana State U., Health Sciences Center, New Orleans	94	23,192	23,148	43,024	56,216	14,392	15,847	25,397	32,158
Tulane U.	95	41,445	46,935	50,018	54,390	16,346	21,498	21,174	22,352
U. California, Office of the President	96	40,585	40,336	43,487	53,397	123	191	0	0
Virginia Polytechnic Institute and State U.	97	47,236	51,942	48,844	51,779	19,730	21,979	19,230	25,649
Arizona State U.	98	39,268	37,201	42,576	50,218	15,960	15,101	18,176	19,340
U. Texas Medical Branch	99	42,087	44,920	48,144	48,217	27,779	31,585	30,104	32,188
Drexel U.	100	47,466	53,152	44,108	48,152	25,113	30,650	28,377	29,140
Florida State U.	101	37,353	35,745	39,431	45,584	19,862	17,927	20,449	23,544
U. Hawaii, Manoa	102	47,531	45,709	37,830	39,684	32,477	28,587	22,632	21,980
Howard U.	103	18,156	21,927	28,888	39,400	12,922	16,300	17,127	20,287
U. Delaware	104	28,705	25,483	39,058	38,006	21,603	19,296	19,299	18,616

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Georgia	105	32,872	35,774	36,409	36,426	12,548	13,291	12,287	11,262
Saint Louis U.	106	31,213	37,487	40,671	35,488	15,722	23,081	23,675	20,224
U. Montana, Missoula	107	25,707	30,176	31,740	35,268	21,652	26,382	27,998	30,289
Massachusetts Institute of Technology	108	20,529	21,012	27,534	34,612	14,516	16,015	20,022	27,519
East Carolina U.	109	30,285	18,142	22,935	33,801	11,137	7,931	11,397	13,910
SUNY, Upstate Medical U.	110	26,810	27,911	33,103	32,982	13,081	12,654	15,152	16,742
U. Houston	111	21,435	19,265	31,836	31,615	10,906	10,820	16,451	14,202
Colorado State U., Fort Collins	112	24,849	28,615	26,764	29,427	19,151	17,382	16,529	17,710
Auburn U., Auburn	113	10,995	15,343	14,411	27,593	1,657	1,261	982	1,883
San Diego State U.	114	12,357	15,949	22,338	27,205	8,423	11,113	15,666	17,587
U. Texas Rio Grande Valley	115	19,143	19,785	16,939	26,827	3,852	3,884	4,545	6,608
Texas Tech U., Health Sciences Center	116	21,574	20,173	23,715	25,537	3,500	3,996	6,614	6,781
Nova Southeastern U.	117	13,298	12,827	14,319	25,042	4,572	5,098	4,574	6,019
CUNY, Graduate School of Public Health and Health Policy	118	10,057	13,481	13,645	24,437	6,602	10,700	9,102	11,199
U. Texas, Dallas	119	29,609	22,215	25,570	24,356	13,568	10,719	12,530	8,192
U. Toledo	120	20,743	17,417	21,521	24,273	9,989	10,253	10,411	12,378
Loyola U., Chicago	121	18,529	21,272	21,885	23,373	9,898	10,324	9,931	11,644
SUNY, U. Albany	122	32,478	22,998	17,702	21,848	27,935	20,138	14,702	19,768
U. Louisiana, Lafayette	123	18,497	18,818	19,606	21,586	8,299	10,130	11,791	12,982
New Jersey Institute of Technology	124	17,662	18,355	21,379	21,031	13,727	6,854	3,986	0
U. South Alabama	125	18,893	23,884	19,345	21,011	11,871	12,509	11,821	9,800
U. Nevada, Reno	126	19,029	20,341	20,416	20,603	8,277	11,439	11,806	12,366
U. California, Riverside	127	12,788	15,576	18,034	19,672	9,783	12,326	14,043	15,345
Charles R. Drew U. of Medicine and Science	128	13,682	13,228	14,581	19,551	9,863	9,945	10,656	13,297
Louisiana State U., Health Sciences Center, Shreveport	129	13,911	12,906	14,239	18,404	1,658	2,167	2,115	4,617
Southern Illinois U., Carbondale	130	16,628	17,958	18,528	18,341	3,925	3,907	4,232	5,474
U. North Dakota	131	14,048	13,774	16,433	18,197	7,807	7,943	10,107	10,689
Indiana U.-Purdue U., Indianapolis	132	14,127	14,909	14,064	17,881	5,576	5,645	5,515	7,890
U. Nevada, Las Vegas	133	21,019	18,321	15,740	17,845	5,767	4,992	4,878	5,381
U. New Hampshire	134	15,276	18,883	16,527	17,761	9,845	11,612	10,148	9,132
Florida International U.	135	13,961	15,751	16,489	17,697	2,603	2,063	2,664	2,586
U. Central Florida	136	13,876	15,294	15,074	17,247	2,422	4,402	4,678	4,882
U. Missouri, Kansas City	137	14,403	12,701	25,516	16,546	9,111	7,427	14,595	8,174
Tufts U.	138	31,949	48,230	19,825	16,148	25,561	38,262	8,512	8,952
Rockefeller U.	139	14,643	14,694	15,494	15,425	4,473	5,072	4,657	4,781

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
East Tennessee State U.	140	4,145	4,923	14,370	15,155	2,564	1,907	5,248	6,324
Eastern Virginia Medical School	141	10,902	10,181	9,241	14,544	8,927	8,154	8,748	10,766
U. Alabama, Tuscaloosa	142	5,383	8,980	14,749	13,736	2,364	3,177	7,688	7,366
CUNY, Queens C.	143	9,978	8,822	11,834	13,637	8,321	7,374	9,295	10,437
Central Michigan U.	144	4,390	10,781	12,783	13,508	844	904	2,537	2,490
Northeastern U.	145	10,384	10,371	11,477	13,240	4,591	4,148	3,828	7,072
Florida A&M U.	146	8,427	10,567	10,961	13,209	7,301	9,150	9,517	11,549
George Mason U.	147	7,187	8,558	8,513	13,168	3,326	4,519	4,658	8,874
U. Massachusetts, Amherst	148	10,047	9,953	10,918	13,087	6,464	6,288	7,131	7,982
Marshall U.	149	12,186	13,300	11,141	12,952	8,118	7,715	7,972	7,788
Creighton U.	150	8,797	10,453	12,417	12,793	3,209	3,874	5,425	5,722
Florida Atlantic U.	151	7,865	8,431	9,696	12,783	3,380	4,374	5,628	6,411
Oklahoma State U., Stillwater	152	8,614	5,881	6,090	12,631	1,106	603	808	1,386
U. Texas, Arlington	153	9,511	9,984	10,059	12,347	5,042	4,860	5,444	5,372
Loma Linda U.	154	7,892	6,889	7,619	11,775	4,608	4,095	3,534	5,321
Georgia State U.	155	13,803	10,926	8,380	11,730	10,882	7,260	4,184	4,893
Montana State U., Bozeman	156	10,030	12,186	13,878	11,100	7,076	9,302	10,102	7,158
Oregon State U.	157	7,447	8,767	7,475	10,346	5,837	7,005	5,573	6,902
U. Texas, El Paso	158	6,503	5,638	7,386	10,288	2,007	1,958	2,378	4,404
Georgia Institute of Technology	159	20,316	6,213	6,060	10,247	13,779	141	280	3,000
SUNY, Binghamton U.	160	8,035	7,345	9,414	10,081	1,319	897	817	1,984
U. Massachusetts, Lowell	161	5,198	6,255	8,896	10,015	1,417	2,921	5,700	5,801
Ohio U.	162	7,158	7,371	7,780	9,920	2,501	3,302	3,568	4,835
North Dakota State U.	163	8,713	7,484	7,540	9,502	5,142	4,987	5,207	6,276
U. Tennessee, Knoxville	164	9,977	10,025	10,264	9,423	4,173	4,309	4,553	3,024
Chapman U.	165	2,761	4,337	6,376	9,403	1,810	2,377	2,984	2,131
Syracuse U.	166	2,785	3,098	3,918	9,169	647	752	1,055	5,048
Marquette U.	167	4,570	5,545	5,317	8,724	1,771	2,391	1,997	3,405
Mercer U.	168	5,307	5,592	5,466	8,533	1,457	1,892	1,537	2,494
Duquesne U.	169	6,266	4,846	6,724	8,496	2,181	2,857	3,428	3,960
Oklahoma State U., Center for Health Sciences	170	7,164	6,397	6,002	8,074	2,469	1,864	1,787	1,830
Old Dominion U.	171	4,585	5,972	7,244	7,926	2,186	1,537	1,381	1,167
Texas Tech U., Health Sciences Center, El Paso	172	8,014	7,267	8,633	7,865	1,189	1,017	846	797
Edward Via C. of Osteopathic Medicine	173	7,474	6,629	7,121	7,597	565	537	482	678
U. Wyoming	174	2,320	3,903	6,761	7,519	2,026	3,205	3,038	3,543

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Illinois, Urbana-Champaign	175	2,845	4,630	5,483	7,433	722	1,159	1,814	2,304
New York Medical C.	176	7,585	7,563	6,552	7,136	3,010	3,308	2,824	2,680
U. Wisconsin-Milwaukee	177	6,129	5,344	6,437	6,823	3,092	3,354	4,002	3,995
Texas Tech U.	178	5,204	5,392	7,104	6,749	570	760	954	1,618
Xavier U. Louisiana	179	2,859	3,133	5,388	6,630	1,384	1,686	3,075	4,079
U. Memphis	180	5,192	5,201	5,848	6,260	1,139	1,812	2,106	2,280
Northern Arizona U.	181	5,180	5,522	4,639	6,108	3,702	3,033	3,573	4,069
Roseman U. of Health Sciences	182	4,380	5,893	6,285	6,065	56	53	30	38
Brigham Young U., Provo	183	946	1,349	1,639	5,894	392	768	988	898
Baylor U.	184	2,267	2,782	3,041	5,797	1,255	1,446	1,479	1,329
Midwestern U.	185	3,907	4,302	4,612	5,630	455	705	846	1,658
Albany Medical C.	186	6,360	6,322	6,450	5,566	677	466	568	677
Jackson State U.	187	1,084	2,492	4,507	5,450	1,044	2,095	4,115	4,887
Alabama A&M U.	188	2,991 i	3,189 i	3,333 i	5,419 i	1,916 i	2,575 i	3,196 i	4,228 i
Pacific U.	189	3,202	2,745	3,019	5,409	1,572	1,212	1,434	3,008
Wichita State U.	190	21	11,491	13,516	5,372	9	3,937	24	74
U. Nebraska, Omaha	191	3,445	6,071	6,129	5,212	2,658	5,331	5,128	4,298
Morgan State U.	192	1,931	3,273	4,340	5,188	1,764	3,085	3,606	3,391
Texas State U.	193	2,257	0	1,716	4,980	354	0	0	1,489
U. Central del Caribe	194	3,931	3,831	5,053	4,878	2,743	2,492	2,807	2,929
U. North Carolina, Greensboro	195	3,230	3,206	4,390	4,812	2,032	1,672	2,556	3,444
California State U., Long Beach	196	2,704	2,499	3,023	4,697	1,784	1,704	1,905	3,535
U. Colorado Boulder	197	5,377	4,708	5,076	4,666	3,939	3,515	4,142	4,109
U. Colorado Denver ^b	198	na	3,149	1,635	4,468	na	422	450	2,948
Clemson U.	199	7,465	7,534	7,953	4,455	1,847	2,070	1,995	2,269
SUNY, C. of Optometry	200	3,477	3,460	4,497	4,423	1,688	2,105	2,080	2,469
Rowan U.	201	7,836	6,962	6,119	4,376	3,446	2,798	2,622	686
U. of Health Sciences and Pharmacy in St. Louis	202	4,835	5,313	4,271	4,284	3,767	4,063	2,514	3,107
Wright State U.	203	5,732	4,651	4,418	4,132	3,109	2,968	2,444	1,557
CUNY, Hunter C.	204	407	685	1,204	4,014	253	308	615	2,591
U. Missouri, Saint Louis	205	5,458	4,141	4,012	3,980	2,591	2,097	1,727	1,680
San Jose State U.	206	0	1,224	2,585	3,957	0	0	114	509
U. Alaska, Fairbanks	207	431	362	2,018	3,956	431	212	759	679
Yeshiva U.	208	2,477	3,830	3,678	3,874	486	1,256	950	681
Georgia Southern U.	209	1,173	4,105	3,584	3,848	570	493	239	53

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Long Island U.	210	5,905	6,428	7,833	3,840	1,103	2,177	2,023	1,036
Kent State U.	211	1,965	2,924	3,242	3,773	424	1,459	2,020	2,146
U. North Texas, Denton	212	1,354	3,360	4,943	3,765	48	209	566	197
Saint Joseph's U.	213	35	30	3,591	3,751	0	0	370	535
South Dakota State U.	214	2,684	2,361	2,977	3,741	1,596	1,482	1,842	1,966
Northeast Ohio Medical U.	215	6,717	4,451	5,248	3,550	3,274	2,274	3,111	1,755
U. California, Merced	216	1,770	3,956	4,176	3,520	539	1,109	1,215	2,051
New York Institute of Technology	217	2,474	3,050	3,499	3,492	698	891	1,344	1,273
Ball State U.	218	1,171	1,042	3,086	3,476	598	608	2,654	3,171
U. Massachusetts, Boston	219	3,320	3,061	3,063	3,457	1,591	2,104	2,282	2,084
U. North Carolina, Charlotte	220	1,904	1,635	1,838	3,226	563	554	748	1,693
U. Guam	221	2,408	2,741	3,139	3,036	2,034	2,363	2,786	2,692
Montclair State U.	222	1,206	1,735	2,715	2,991	300	216	306	431
Brandeis U.	223	2,047	3,490	5,007	2,965	1,318	1,378	3,511	2,344
U. Alaska, Anchorage	224	129	830	2,121	2,859	0	157	1,229	1,238
Philadelphia C. of Osteopathic Medicine	225	2,415	2,837	2,675	2,848	0	0	0	0
Miami U.	226	5,586	5,813	3,856	2,729	1,085	1,133	617	270
Villanova U.	227	1,305	1,557	2,250	2,680	25	398	909	1,160
Boston C.	228	1,576	1,608	1,987	2,644	1,062	1,195	1,453	1,348
Texas Woman's U.	229	1,669	2,802	2,038	2,611	347	868	443	682
California Polytechnic State U., San Luis Obispo	230	2,899	2,546	2,181	2,570	1,836	2,014	1,340	1,695
Winston-Salem State U.	231	1,716	3,341	2,169	2,529	1,366	2,326	1,952	2,415
Western Michigan U. and Homer Stryker M.D. School of Medicine	232	1,136	663	1,016	2,506	276	117	157	203
U. Southern Mississippi	233	2,300	2,235	2,111	2,504	608	503	427	487
New England C. of Optometry	234	1,150	1,978	1,868	2,491	785	1,623	1,609	1,946
California State U., Fullerton	235	707	537	1,345	2,469	335	192	349	683
Boise State U.	236	1,343	1,723	2,279	2,373	867	1,345	1,719	1,588
Texas Christian U.	237	464	389	284	2,364	124	178	128	246
MGH Institute of Health Professions	238	1,587	1,200	2,200	2,300	1,587	1,200	2,200	2,300
Gallaudet U.	239	384	630	1,105	2,289	383	368	883	1,630
U. Texas, San Antonio	240	2,014	1,961	2,527	2,193	808	928	994	691
Kansas State U.	241	752	638	434	2,125	752	635	384	1,013
Mississippi State U.	242	1,738	1,887	2,544	2,029	206	734	1,328	830
Saginaw Valley State U.	243	1,145	1,199	1,845	2,025	1,083	1,137	1,515	1,620
U. South Dakota	244	1,743	1,576	4,478	1,953	504	546	600	622

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
DePaul U.	245	79	60	785	1,928	0	0	773	1,455
Northern Illinois U.	246	1,854	1,660	1,628	1,922	200	336	306	171
St. John's U., New York	247	1,326	1,152	1,357	1,918	556	643	826	1,319
East Stroudsburg U. Pennsylvania	248	ne	ne	54	1,896	ne	ne	0	0
Tuskegee U.	249	0	0	23	1,879	0	0	23	0
James Madison U.	250	631	1,429	2,138	1,834	0	19	34	6
CUNY, City C.	251	4,387	2,112	2,663	1,792	2,024	1,236	932	1,487
Seton Hall U.	252	0	0	0	1,778	0	0	0	1,242
Marshall B. Ketchum U.	253	1,357 i	1,351 i	1,559 i	1,777 i	323 i	343 i	383 i	433 i
Illinois Institute of Technology	254	1,023	1,465	1,198	1,759	487	662	619	1,355
Louisiana Tech U.	255	449	370	1,365	1,725	37	6	536	845
U. Maine	256	385	466	1,006	1,721	0	0	115	469
Bowling Green State U.	257	304	1,535	1,368	1,720	122	294	404	399
Delaware State U.	258	2,777 i	2,245	984	1,641	305 i	351	276	855
Portland State U.	259	2,224	1,184	1,368	1,639	2,097	1,009	1,011	845
U. Oklahoma, Tulsa	260	2,633	2,096	2,351	1,638	493	260	416	287
Oakland U.	261	1,603	1,402	2,215	1,568	69	232	524	516
Louisiana State U., Baton Rouge	262	928	566	670	1,532	527	234	167	577
U. Texas, Tyler	263	440	332	1,233	1,519	272	222	344	667
Western Kentucky U.	264	686	665	1,005	1,505	0	180	304	740
Reed C.	265	0	0 i	1,307 i	1,491 i	0	0 i	387 i	438 i
U. Louisiana, Monroe	266	1,665	1,559	2,258	1,486	1,379	934	1,321	1,056
Salisbury U.	267	1,995	2,120	1,710	1,439	0	0	0	0
Rosalind Franklin U. of Medicine and Science	268	1,691	1,893	1,013	1,429	770	948	585	770
Eastern Michigan U.	269	1,872	1,406	1,219	1,413	1,413	1,073	811	1,002
Tarleton State U.	270	350	482	763	1,399	0	0	0	0
Michigan Technological U.	271	1,390	849	823	1,370	399	187	274	554
Dine C.	272	328	ne	1,762	1,367	328	ne	1,762	1,075
National U. of Natural Medicine	273	1,428	850	ne	1,336	912	523	ne	862
Merrimack C.	274	253	ne	ne	1,331	168	ne	ne	865
Pennsylvania State U., Harrisburg	275	327	1,267	783	1,316	303	1,239	783	1,306
Utah State U.	276	2,526	1,966	1,797	1,306	1,877	1,390	1,003	785
U. Massachusetts, Dartmouth	277	77	109	395	1,294	0	0	0	0
U. Dayton	278	216	210	446	1,273	172	195	434	1,269
U. Central Oklahoma	279	63 i	66 i	1,138 i	1,267 i	59 i	62 i	293 i	325 i

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
California State U., Fresno	280	572	752	1,117	1,252	10	0	17	137
U. New England	281	2,080	1,366	1,106	1,180	1,428	718	395	577
Azusa Pacific U.	282	1,876	848	451	1,179	116	42	7	7
Towson U.	283	295	432	839	1,167	13	18	0	33
Clark U.	284	0	0	1,021	1,143	0	0	0	0
U. Washington, Bothell	285	297	175	530	1,131	297	145	413	575
California State U., East Bay	286	629	615	1,349	1,126	154	292	499	475
Ferris State U.	287	ne	ne	ne	1,112	ne	ne	ne	815
New Mexico State U.	288	449	492	903	1,106	397	434	385	444
Carnegie Mellon U.	289	824	895	1,006	1,102	493	407	471	589
U. Wisconsin-Green Bay	290	649 i	730 i	1,066 i	1,092 i	284 i	315 i	376 i	439 i
Northern Kentucky U.	291	532	1,377	1,576	1,091	295	1,044	1,238	1,015
U. Alabama, Huntsville	291	1,122	1,179	1,159	1,091	39	0	8	46
U. Hawaii, Hilo	293	851	1,263	1,018	1,039	631	918	826	886
Idaho State U.	294	1,477	1,202	1,157	1,013	283	188	203	179
Oregon Institute of Technology	295	777 i	780 i	919 i	995 i	0	42 i	57 i	230 i
Florida Gulf Coast U.	296	632	897	1,945	975	594	892	1,689	962
U. San Francisco	297	195	284	307	959	0	0	56	329
Bentley U.	298	ne	ne	652	928	ne	ne	0	159
Grand Valley State U.	298	1,216	1,205	1,253	928	673	481	755	438
U. North Florida	300	481	404	937	905	0	0	0	9
Northeastern Illinois U.	301	873	724	1,092	895	873	724	1,092	895
Purdue U., Northwest	302	920	945	1,073	873	131	127	106	127
Cleveland State U.	303	2,797	3,312	1,976	866	433	1,215	31	0
Touro U., New York ^f	303	ne	ne	ne	866	ne	ne	ne	146
Southern U. and A&M C., Agricultural Research and Extension Center	305	662	765	803	858	0	0	0	0
Dillard U.	306	224	534	424	818	2	181	94	369
U. North Carolina, Asheville	306	718	1,014	606	818	667	939	481	667
Fayetteville State U.	308	1,075	930	728	810 i	0	0	381	422 i
CUNY, C. Staten Island	309	723	690	520	744	0	502	520	565
West Virginia School of Osteopathic Medicine	310	669	721	659	718 i	362	359	349	373 i
Southern Connecticut State U.	311	907	452	567	706	102	54	178	242
Marymount U.	312	ne	531	379	698	ne	163	17	33
U. Northern Colorado	313	311	156	297	688	128	35	32	18
U. Nebraska, Kearney	314	632	394	552	683	327	218	491	622

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. of the Pacific	315	341	183	232	666	328	172	214	188
West Chester U. Pennsylvania	316	613	465	618	638	73	70	157	152
Sacred Heart U.	317	ne	24	ne	593	ne	0	ne	0
Hofstra U.	318	47	359	292	586	0	0	0	11
U. Denver	319	0	0	0	576	0	0	0	323
U. Tulsa	320	178	118	180	574	28	0	0	0
Langston U.	321	1,578	1,219	378	562	1,578	434	0	0
Haverford C.	322	0	i 334	i 549	i 559	0	3	126	141
Northwest Indian C.	323	365	i 435	i 504	i 539	i 365	i 435	i 504	i 539
Rutgers, State U. New Jersey, Newark	324	338	2,648	168	524	0	1,484	0	0
Illinois State U.	325	991	1,249	758	523	684	898	730	177
Hampton U.	326	962	813	603	493	962	813	603	493
South Carolina State U.	327	343	i 393	i 441	i 490	i 328	i 362	i 395	i 429
Skidmore C.	328	852	691	218	484	730	543	80	327
Appalachian State U.	329	409	269	404	468	64	53	59	20
U. Central Arkansas	330	386	293	512	454	115	83	114	50
Pennsylvania State U., Altoona	331	ne	ne	ne	443	ne	ne	ne	0
U. Idaho	332	121	97	280	438	93	29	65	12
Embry-Riddle Aeronautical U.	333	0	0	1,020	437	0	0	514	311
Marian U., Indianapolis	334	ne	ne	ne	431	ne	ne	ne	89
U. Maryland, Eastern Shore	335	259	635	347	427	259	635	347	427
U. Houston-Clear Lake	336	0	92	351	411	0	0	0	0
California State U., Sacramento	337	325	340	324	409	0	0	17	31
Kean U.	338	120	16	138	406	0	0	29	0
U. Detroit Mercy	339	318	353	617	401	18	0	267	0
Pace U.	340	378	342	364	399	19	10	0	0
Southern Illinois U., Edwardsville	341	3,799	4,878	803	380	961	1,115	766	380
California State U., Northridge	342	0	0	0	375	0	0	0	375
Butler U.	343	ne	ne	638	370	ne	ne	487	351
Saint John's U.	344	12	i 275	i 317	i 361	i 0	i 0	i 0	i 0
Alcorn State U.	345	108	294	298	i 348	107	257	247	i 292
California State U., Los Angeles	345	257	264	439	348	235	235	383	348
Seattle U.	345	0	0	73	348	0	0	69	222
U. Oregon	348	1,004	817	118	345	4	297	0	0
Lipscomb U.	349	0	i 0	ne	343	0	i 0	ne	65

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
C. of Saint Benedict	350	14 i	259 i	299 i	341 i	0 i	10 i	11 i	13 i
Indiana State U.	351	55	9	213	332	12	8	170	282
Western Carolina U.	352	774	927	796	324	621	687	588	240
U. Maryland, Baltimore County	353	934	22	259	320	142	4	35	31
Texas A&M U.-Commerce	354	47	86	70	318	0	0	0	0
Western New England U.	354	ne	ne	134	318	ne	ne	134	83
Drake U.	356	ne	362	302	315	ne	45	40	26
Albany C. of Pharmacy and Health Sciences	357	1,033	125	275	313 i	827	44	152	172 i
Tennessee Technological U.	358	96	143	304	312	0	78	233	197
Texas A&M U.-Corpus Christi	359	22	162	92	304	0	0	0	0
Des Moines U.	360	567	316 i	363	303	0	120 i	187	166
San Francisco State U.	361	190 i	205	267	297	42 i	42	48	0
SUNY, C. Plattsburgh	362	465	279	112	292	429	279	112	217
Pennsylvania State U., Behrend	363	0	29	253	283	0	0	238	279
Northern Michigan U.	364	200	121	201	278	0	0	0	0
U. West Florida	365	109	45	310	275	28	11	183	166
Rochester Institute of Technology	366	0	0	0	274	0	0	0	241
Pepperdine U.	367	18	161	96	256	0	0	25	95
CUNY, Graduate Center	368	0	0	0	240	0	0	0	0
Western U. of Health Sciences	369	323	35	144	234	14	16	2	12
Lamar U.	370	36	32	117	233	0	0	35	182
Liberty U.	370	26	21	ne	233	0	0	ne	0
Naval Postgraduate School	370	200	270	456	233	200	270	456	170
North Carolina Central U.	373	360	73	202	230 i	302	1	0	0 i
Clafin U.	374	0	23	76	225	0	23	76	225
U. New Haven	375	5	11	114	212	0	11	96	139
Clarkson U.	376	97	93	101	201	54	0	0	69
Norwich U.	377	ne	ne	ne	197	ne	ne	ne	196
Elon U.	378	45	180	238	196	16	0	97	0
U. Michigan, Dearborn	379	261	151	118	192	171	140	116	178
Northwestern State U. Louisiana	380	176	82	164	183 i	1	0	13	14 i
Bowie State U.	381	0	0	1,143	181	0	0	1,143	181
North Carolina A&T State U.	382	0	989	551	175	0	989	551	175
CUNY, Brooklyn C.	383	660	65	172	174	556	0	151	127
U. Arkansas, Fayetteville	383	3,213	3,825	4,979	174	821	1,351	2,048	143

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Tennessee, Chattanooga	383	193	132	159	174	0	0	5	52
Middle Tennessee State U.	386	112	667	734	169	0	12	21	50
SUNY, Polytechnic Institute	387	0	175	144	160	0	175	144	160
Wheaton C., Wheaton	387	161	33	ne	160	142	18	ne	160
U. Akron	389	183	210	284	151	143	153	196	44
U. North Carolina, Wilmington	390	481	533	169	149	151	129	30	97
Southern U. and A&M C., Baton Rouge	391	2	19	120	148	0	17	120	148
Savannah State U.	392	152	178	155	147	152	178	155	147
Texas A&M International U.	393	220	8	305	145	123	0	289	103
Western Washington U.	394	0	171	145	140	0	0	0	0
CUNY, York C.	395	9	5	139	139	0	0	134	121
Loyola Marymount U.	395	6	127	171	139	0	0	0	0
Smith C.	395	126	146	133	139	14	79	105	102
Franklin and Marshall C.	398	6	163	138	136	0	92	126	126
St. Edward's U.	399	0	0	0	135	0	0	0	78
U. Wisconsin-Platteville	400	0 i	98 i	116 i	127 i	0 i	34 i	42 i	45 i
Occidental C.	401	0	86	106 i	123 i	0	0	0 i	0 i
Texas A&M U.-Kingsville	402	0	0	0	116	0	0	0	0
Florida Institute of Technology	403	0	588	42	114	0	460	0	114
Indiana U. Pennsylvania	404	144	59	70	110	0	0	0	0
U. Colorado Colorado Springs	405	62	0	43	107	0	0	0	0
Furman U.	406	72	39	75	99	39	26	0	0
Johnson C. Smith U.	407	246	0 i	0	98	246	0 i	0	98
CUNY, Lehman C.	408	1	68	32	92	0	68	19	38
U. of the Incarnate Word	408	531	546	146	92	531	516	146	92
U. Hartford	410	101	77	72	91	101	77	67	53
California State U., San Marcos	411	324	128	30	89	254	100	30	61
C. Charleston	412	146	76	121	88	0	0	19	0
California State U., Chico	412	0	35	10	88	0	0	0	0
Fairfield U.	412	49	22	ne	88	0	0	ne	0
Spelman C.	415	20	149	96	86	20	149	96	86
Central Washington U.	416	0	31	135	84	0	0	0	0
Indiana U., South Bend	416	ne	13	ne	84	ne	0	ne	0
California State U., San Bernardino	418	9	11	63	82	0	0	0	12
California State U., Dominguez Hills	419	21	64	41	78	0	0	0	0

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Washington, Tacoma	419	0	40	0	78	0	0	0	0
Hope C.	421	7	22	3	77	0	0	0	0
United Tribes Technical C.	422	ne	ne	ne	76	ne	ne	ne	76
U. San Diego	423	121	74	59	75	34	9	0	26
Lincoln U.	424	ne	ne	ne	74	ne	ne	ne	74
Coastal Carolina U.	425	0	2	11	71	0	0	0	30
William Paterson U.	425	650	414	507	71	0	9	7	26
Radford U.	427	ne	ne	ne	69	ne	ne	ne	17
St. Olaf C.	427	81	69	ne	69	0	0	ne	4
Lincoln Memorial U.	429	ne	ne	ne	68	ne	ne	ne	0
U. South Carolina, Beaufort	430	ne	ne	ne	64	ne	ne	ne	0
Keck Graduate Institute	431	0 i	0 i	0	62	0 i	0 i	0	49
California State U., Channel Islands	432	0	153	22	58	0	141	0	0
Southeastern Louisiana U.	433	148	158	104	56	136	139	93	51
Central State U.	434	0	0	0	51	0	0	0	51
Arkansas State U., Jonesboro	435	32	36	77	48	0	0	0	0
Roger Williams U.	435	0	0	7	48	0	0	7	40
Macalester C.	437	0	0	16	47	0	0	16	47
California State Polytechnic U., Humboldt	438	246	129	99	45	0	0	0	0
Fort Lewis C.	438	11	25	32	45	0	0	32	22
U. Houston-Downtown	438	0	0	0	45	0	0	0	45
C. New Jersey	441	8	13	199	44	0	0	20	1
Grambling State U.	441	0	0	65 i	44	0	0	65 i	44
Arcadia U.	443	ne	201	ne	43	ne	94	ne	18
U. Wisconsin-Eau Claire	444	46	58	27	41	0	0	0	0
Wellesley C.	444	0	0	0	41	0	0	0	41
Santa Clara U.	446	3	4	0	40	3	4	0	0
Stephen F. Austin State U.	447	92	79	81	39	0	0	0	1
Virginia State U.	448	179	190	127	38	179	190	127	38
Colorado School of Mines	449	132	257	67	35	125	242	60	4
Hawaii Pacific U.	449	0	0	72	35	0	0	12	0
Calvin U.	451	47 i	68 i	89 i	33 i	0 i	0 i	0	0
Robert Morris U.	452	ne	ne	28 i	31	ne	ne	0 i	0
Kennesaw State U.	453	965	725	0	29	315	27	0	29
Austin Peay State U.	454	3	1	6	28	0	0	0	16

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Notre Dame	454	231	163	155	28	0	0	0	0
St. Cloud State U.	456	78	16	18	26	0	0	1	0
California State U., Monterey Bay	457	49	182	192	24	0	138	157	0
Lehigh U.	458	0	0	14	23	0	0	14	23
Ithaca C.	459	303	95	111	21	276	78	92	10
U. Arkansas, Little Rock	459	35	21	0	21	35	21	0	6
U. Wisconsin-Oshkosh	459	5 i	5	23	21	0 i	0	0	0
Youngstown State U.	459	27	28	32	21	0	20	20	18
Andrews U.	463	0	0	ne	19	0	0	ne	0
U. Puerto Rico, Cayey	464	426	169	0	18	327	169	0	18
Biola U.	465	0 i	0 i	0	14	0 i	0 i	0	0
U. Puget Sound	465	20	ne	22	14	0	ne	0	0
Tennessee State U.	467	630	19 i	14	13	609	19 i	14	3
U. Scranton	467	ne	ne	ne	13	ne	ne	ne	0
Prairie View A&M U.	469	48	28	27	11	48	28	26	9
Citadel Military C. South Carolina	470	34	5	29	10	0	0	0	0
Texas A&M U.-San Antonio	470	ne	ne	59	10	ne	ne	0	0
U. Wisconsin-La Crosse	470	22	12	18	10	0	0	0	0
California State U., Bakersfield	473	22	0	0	9	0	0	0	0
Colorado State U., Pueblo	473	0	0	0	9	0	0	0	0
Norfolk State U.	473	0	0	55	9	0	0	8	0
U. North Georgia	473	67	2	13	9	67	0	0	0
U. Texas of the Permian Basin	477	0	8	43	8	0	0	0	0
Willamette U.	477	12	2	1	8	0	0	0	0
Purdue U., Fort Wayne	479	5	3	0	7	0	0	0	0
Trinity U.	479	6	6	21	7	0	0	0	0
SUNY, Oswego	481	5	6	1	6	0	0	0	0
U. Southern Maine	481	74	59	24	6	22	14	0	0
U. Wisconsin-Stevens Point	481	23	2	2	6	19	0	0	0
California State U., Stanislaus	484	6	10	90	5	0	0	80	0
CUNY, system office	484	0	0	5	5	0	0	0	0
Eastern Kentucky U.	484	80	18	ne	5	44	14	ne	0
New School	484	12	18	0	5	12	8	0	0
Sonoma State U.	484	45	16	10	5	17	12	7	0
Gettysburg C.	489	3	ne	ne	4	0	ne	ne	0

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Missouri State U.	489	0	0	3	4	0	0	0	0
U. of Mary Washington	489	0	0	0	4	0	0	0	0
CUNY, John Jay C. of Criminal Justice	492	28	5	8	3	2	5	0	0
U. Minnesota, Duluth	492	1	0	0	3	0	0	0	2
U. Puerto Rico, Rio Piedras	492	27	49	151	3	27	13	151	0
U. Rhode Island	495	2,397	3,849	5,359	2	2,339	2,771	3,547	0
Morehead State U.	496	0	0	0	1	0	0	0	0
Suffolk U.	496	0	0	0	1	0	0	0	0
SUNY, C. Brockport	496	12	76	26	1	0	0	0	0
U. South Carolina, Aiken	496	0	0	157	1	0	0	0	0
All other surveyed institutions	-	681,004	170,129	127,074	0	395,981	77,012	52,865	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

^a Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$10,448 thousand imputed for total and \$9,589 thousand reported for federally financed R&D expenditures in health sciences in FY 2023. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

^b The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

^c The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^d The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

^e The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

^f Touro University, New York includes the Lovelace Biomedical Research Institute. In FY 2023, the Lovelace Biomedical Research Institute joined the Touro University System.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 47

Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
All institutions	-	800,583	772,989	879,490	1,060,700	485,550	475,732	537,338	661,446
Johns Hopkins U. ^a	1	105,774 i	117,429 i	141,477 i	230,354 i	102,890	113,772	137,115	224,276
Pennsylvania State U., University Park and Hershey Medical Center	2	17,706	14,090	17,140	24,625	13,702	12,668	15,402	21,148
U. Texas M. D. Anderson Cancer Center	3	21,622	18,914	20,403	23,423	8,853	7,789	9,497	11,294
U. Michigan, Ann Arbor	4	18,648	17,937	20,129	21,033	5,771	5,490	6,956	7,505
Iowa State U.	5	17,062	16,101	19,927	19,968	10,785	9,537	12,540	11,643
Harvard U.	6	20,038	19,503	22,230	19,878	17,747	16,848	18,155	16,858
New York U.	7	13,465	16,998	20,916	19,747	8,861	10,981	12,236	10,870
U. Texas, Austin	8	20,290	17,349	18,319	18,889	8,882	5,691	6,055	7,001
North Carolina State U.	9	20,164	20,392	17,531	18,035	11,947	11,908	11,484	11,113
Brown U.	10	12,204	10,903	14,835	16,873	9,117	8,558	10,971	12,161
Princeton U.	11	13,550	11,672	15,763	16,810	5,657	4,877	4,759	6,148
Carnegie Mellon U.	12	12,000	12,464	14,435	16,604	3,183	3,452	5,305	6,431
Michigan State U.	13	12,494	11,152	11,990	13,271	5,790	5,596	6,732	8,247
Virginia Polytechnic Institute and State U.	14	6,776	8,107	12,917	12,051	3,308	4,368	6,692	6,803
U. California, Los Angeles	15	13,161	12,110	9,537	11,947	10,440	9,562	7,496	8,404
Rutgers, State U. New Jersey, New Brunswick	16	9,493	9,673	10,013	11,898	6,214	6,239	5,645	6,424
U. California, Berkeley	17	8,263	8,067	9,474	11,060	6,251	6,122	6,868	6,502
Dartmouth C. and Dartmouth Hitchcock Medical Center	18	5,848	6,932	8,959	10,328	1,030	1,326	2,954	3,795
Massachusetts Institute of Technology	19	10,434	9,015	9,676	10,270	5,091	5,009	4,873	5,971
Georgia Institute of Technology	20	8,826	8,614	8,634	9,953	4,104	3,808	3,886	4,607
U. Washington, Seattle	21	7,120	5,778	7,095	9,783	6,115	5,223	5,777	8,377
U. Wisconsin-Madison	22	6,675	6,394	7,005	8,838	4,286	4,406	4,515	5,225
U. California, Irvine	23	7,106	6,314	7,424	8,818	4,069	3,305	3,837	4,445
Texas A&M U., College Station and Health Science Center	24	8,768	6,729	6,898	8,774	5,223	4,925	4,485	5,979
U. Pennsylvania	25	6,817	8,637	8,921	8,603	2,744	3,206	3,991	4,584
U. Minnesota, Twin Cities	26	8,994	8,555	7,615	8,376	5,141	5,674	5,060	5,394
Duke U.	27	9,842	8,922	9,125	8,374	6,554	6,364	6,171	5,166
Louisiana State U., Baton Rouge	28	2,701	2,077	6,720	8,112	2,241	1,656	1,691	1,883
Florida State U.	29	7,128	6,567	7,277	8,048	2,096	1,894	2,385	2,220
U. Houston	30	3,596	3,497	5,858	7,605	3,015	2,743	3,377	4,265
U. Arizona	31	3,098	3,347	4,105	7,530	2,295	2,783	3,065	3,304
SUNY, Stony Brook U.	32	7,629	7,407	6,847	7,442	5,006	4,824	4,239	4,535
Rice U.	33	9,363	7,349	6,937	7,338	3,742	3,934	4,359	4,143
U. Georgia	34	6,690	5,845	5,701	6,927	1,545	1,096	837	1,335

TABLE 47

Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Stanford U.	35	7,036	6,070	6,408	6,455	6,338	5,209	5,353	5,291
U. Delaware	36	1,887	1,384	5,684	6,401	1,565	1,204	1,541	1,685
U. Maryland ^b	37	5,356	3,760	4,538	6,039	3,660	3,035	3,340	4,143
U. Chicago	38	4,726	4,653	5,395	5,931	4,078	3,972	4,573	4,564
U. Illinois, Chicago	39	4,109	4,021	4,213	5,823	2,407	1,989	2,206	3,130
U. Notre Dame	40	5,257	4,751	5,031	5,775	3,063	2,661	2,814	3,482
U. Nebraska, Lincoln and Medical Center ^c	41	na	na	na	5,687	na	na	na	1,572
Brigham Young U., Provo	42	348	483	769	5,651	331	466	654	796
New Jersey Institute of Technology	43	5,591	4,949	4,727	5,475	1,726	1,549	1,368	1,093
U. California, San Diego	44	4,857	5,639	6,383	5,471	2,456	2,995	3,774	3,043
U. Pittsburgh, Pittsburgh	45	4,169	2,891	4,042	5,160	2,777	1,861	2,971	3,886
Ohio State U.	46	5,881	4,793	5,660	5,135	3,945	3,309	2,944	3,275
U. Illinois, Urbana-Champaign	47	5,346	3,612	3,729	5,040	2,719	2,092	2,586	3,184
Boston U.	48	5,199	5,039	4,935	5,008	2,947	3,218	2,891	2,753
U. North Carolina, Chapel Hill	49	6,729	5,489	5,464	4,894	5,390	4,735	4,421	2,975
U. California, Davis	50	4,455	4,698	4,392	4,722	3,471	3,678	4,058	4,285
Oklahoma State U., Stillwater	51	4,213	4,276	4,176	4,680	569	472	512	751
Tufts U.	52	3,409	7,181	6,353	4,607	2,852	6,640	6,031	4,331
Texas Tech U.	53	3,402	3,678	3,793	4,501	239	210	506	996
U. South Carolina, Columbia	54	2,113	1,558	4,101	4,385	1,185	1,267	1,430	1,418
Columbia U. in the City of New York	55	4,118	2,951	4,427	4,294	3,054	2,190	2,190	2,650
Auburn U., Auburn	56	3,736	3,471	3,875	4,229	332	395	516	729
San Diego State U.	57	3,899	3,883	3,993	4,198	907	1,157	1,709	1,527
Cornell U.	58	3,323	2,467	3,287	4,173	2,519	2,047	2,663	2,852
U. Colorado Boulder	59	2,659	2,857	3,616	4,116	2,555	2,601	3,145	3,900
Yale U.	60	4,703	3,589	3,632	3,906	2,556	1,871	2,242	1,990
U. Texas Rio Grande Valley	61	2,174	2,194	2,731	3,845	196	345	714	1,279
Rensselaer Polytechnic Institute	62	2,808	2,944	3,658	3,783	1,480	991	812	1,244
U. Utah	63	4,065	3,708	6,083	3,727	2,452	2,200	5,830	3,127
Florida International U.	64	1,470	1,915	2,201	3,628	138	520	461	633
Texas State U.	65	1,038	1,057	1,343	3,465	799	875	1,148	1,514
U. Tennessee, Knoxville	66	3,181	2,938	3,044	3,447	642	599	856	1,021
Worcester Polytechnic Institute	67	1,404	1,880	3,090	3,402	799	1,375	1,987	1,947
U. Massachusetts, Amherst	68	3,361	3,218	3,351	3,383	2,093	2,290	2,326	2,171
Kansas State U.	69	3,246	2,708	2,956	3,353	230	158	241	527

TABLE 47

Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Texas, Arlington	70	2,053	2,350	2,443	3,317	748	863	847	1,357
Colorado State U., Fort Collins	71	4,190	2,980	3,006	3,310	3,768	2,573	2,505	2,749
U. Louisiana, Lafayette	72	2,117	3,119	2,939	3,236	91	235	158	174
SUNY, Binghamton U.	73	2,830	3,133	3,211	3,122	85	85	77	191
Purdue U., West Lafayette	74	2,671	2,742	2,727	3,115	1,609	1,513	1,407	1,524
Indiana U., Bloomington	75	1,780	1,678	2,329	3,010	1,299	1,260	1,761	2,014
California Polytechnic State U., San Luis Obispo	76	2,841	2,668	2,826	2,996	2,430	2,147	2,275	2,359
U. Central Florida	77	3,197	3,269	3,609	2,971	780	603	673	868
U. Connecticut	78	2,344	2,119	2,616	2,934	1,361	1,268	1,710	1,823
U. Florida	79	1,726	1,757	2,303	2,928	985	1,013	1,435	1,925
U. Alabama, Tuscaloosa	80	262	1,174	2,367	2,918	226	243	402	453
U. South Florida ^d	81	3,165	3,055	3,192	2,902	948	709	814	849
SUNY, U. Buffalo	82	1,067	1,730	1,926	2,886	597	653	780	885
Syracuse U.	83	2,528	2,572	2,279	2,855	300	457	208	353
Georgetown U.	84	1,765	2,606	2,463	2,853	0	180	0	99
Montana State U., Bozeman	85	2,536	2,527	2,852	2,828	1,281	1,403	1,493	1,477
Arizona State U.	86	5,942	4,121	3,418	2,786	2,728	2,396	1,525	1,607
U. North Carolina, Charlotte	87	1,029	782	803	2,704	820	673	676	1,221
U. California, Riverside	88	1,682	1,994	2,207	2,694	1,120	1,520	1,727	1,795
George Mason U.	89	1,941	2,493	3,606	2,657	1,008	1,529	2,458	1,523
U. Oklahoma, Norman and Health Science Center	90	2,018	2,274	2,495	2,621	361	402	429	546
U. Nevada, Las Vegas	91	2,347	2,624	2,224	2,558	15	48	37	261
U. Texas, El Paso	92	2,927	2,412	2,413	2,552	1,270	827	943	1,117
Rochester Institute of Technology	93	2,040	2,178	2,356	2,542	1,503	1,605	1,886	1,850
SUNY, U. Albany	94	1,774	1,400	2,264	2,531	196	344	212	328
Georgia State U.	95	1,973	2,091	2,033	2,428	1,148	1,009	745	932
Naval Postgraduate School	96	2,824	2,435	2,859	2,375	1,867	1,941	2,069	1,981
U. Maryland, Baltimore County	97	729	428	1,893	2,353	368	228	266	325
Vanderbilt U. and Vanderbilt U. Medical Center	98	1,689	1,317	1,421	2,323	902	621	793	693
U. Vermont	99	2,154	3,153	3,132	2,319	247	322	473	214
Northwestern U.	100	2,275	1,490	2,215	2,311	1,580	1,005	1,290	1,310
U. Virginia, Charlottesville	101	1,593	1,710	2,552	2,301	1,125	1,320	1,871	1,576
U. Massachusetts, Dartmouth	102	717	1,497	1,417	2,210	239	380	480	975
Brandeis U.	103	2,042	1,885	2,092	2,203	401	513	282	540
Southern Methodist U.	104	1,291	1,736	2,009	2,199	961	1,199	1,351	1,339

TABLE 47

Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Clemson U.	105	2,607	1,870	1,919	2,131	1,548	1,384	1,314	1,457
U. San Diego	106	225	643	1,524	2,125	141	481	1,294	1,886
Michigan Technological U.	107	2,260	1,942	1,720	2,076	359	226	146	192
U.S. Military Academy	108	0	1,259	1,074	2,073	0	456	1,016	2,059
U. Southern California	109	1,617	1,472	1,392	2,031	1,264	1,227	1,208	1,748
Mississippi State U.	110	1,959	1,880	1,721	1,979	172	238	131	117
U. North Texas, Denton	111	1,676	237	0	1,879	202	205	0	533
Emory U.	112	2,357	1,693	1,385	1,840	1,926	1,540	1,237	1,542
U. Oregon	113	906	694	1,249	1,828	853	641	1,185	1,441
U. Wyoming	114	1,276	1,306	1,661	1,816	1,155	1,258	536	767
U. Texas, San Antonio	115	1,529	1,554	2,075	1,782	115	116	392	316
U. California, Santa Barbara	116	1,416	1,416	1,335	1,759	944	852	1,140	1,376
U. New Hampshire	117	404	1,239	1,481	1,738	339	352	423	581
George Washington U.	118	926	725	781	1,737	631	555	499	315
U. Cincinnati	119	1,422	1,320	1,549	1,732	665	620	623	849
U. Miami	120	1,420	843	1,257	1,693	301	356	463	368
Montclair State U.	121	726	785	1,388	1,684	327	317	330	456
U. California, Merced	122	3,047	2,139	1,863	1,650	2,472	1,466	1,313	793
U. Texas, Dallas	123	1,155	1,363	1,429	1,616	668	930	819	962
U. Colorado Denver ^e	124	na	1,122	989	1,613	na	1,119	988	1,533
Baylor U.	125	933	877	1,451	1,604	284	408	622	643
Kent State U.	126	1,309	1,385	1,824	1,591	300	212	215	135
U. Missouri, Columbia	127	1,279	1,377	1,666	1,583	1,017	952	1,098	1,100
CUNY, Graduate Center	128	23	332	88	1,564	23	332	88	6
Georgia Southern U.	129	67	1,405	1,344	1,542	30	67	48	86
Yeshiva U.	129	0	0	1,016	1,542	0	0	0	0
San Jose State U.	131	0	751	1,157	1,522	0	276	313	279
Portland State U.	132	1,115	947	1,192	1,505	794	942	1,191	1,477
American U.	133	1,559	1,538	1,615	1,501	370	563	663	514
U. Kentucky	134	1,336	1,512	1,582	1,448	1,088	1,180	1,139	1,181
Northeastern U.	135	878	1,210	1,107	1,443	685	721	587	921
U. Massachusetts, Lowell	136	663	754	767	1,434	0	60	78	281
U. Nevada, Reno	137	2,341	1,777	1,640	1,408	805	468	264	109
Rockefeller U.	138	1,612	1,433	1,405	1,396	306	111	159	86
Boston C.	139	1,289	1,079	951	1,377	1,064	908	911	1,121

TABLE 47

Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Oregon State U.	140	1,595	1,247	1,601	1,358	1,108	712	1,015	813
California State U., Bakersfield	141	3,173	2,321	1,457	1,353	2,451	1,827	1,140	969
Washington U., Saint Louis	142	959	840	1,584	1,309	902	821	1,484	1,118
Western Michigan U. and Homer Stryker M.D. School of Medicine	143	40	21	75	1,191	9	9	9	10
San Francisco State U.	144	1,227	i 1,326	1,288	1,155	253	i 256	205	259
North Carolina A&T State U.	145	818	797	863	1,149	748	763	836	1,061
Florida Atlantic U.	146	1,268	1,026	1,403	1,112	519	643	704	558
Spelman C.	146	48	96	668	1,112	48	96	668	1,112
U. Iowa	148	624	406	690	1,074	340	273	483	706
U.S. Naval Academy	149	1,013	993	1,216	1,044	799	847	1,115	1,016
Old Dominion U.	150	1,239	1,097	857	1,043	952	865	643	759
U. Mississippi	151	216	358	500	1,042	47	201	268	169
U. New Mexico	152	1,422	1,229	801	1,012	1,337	1,197	759	884
Utah State U.	153	846	720	943	1,009	268	174	232	340
Temple U.	154	3,213	2,547	3,063	1,004	923	667	894	739
U. Montana, Missoula	155	1,187	878	983	1,003	734	405	524	473
Amherst C.	156	340	316	i 422	994	225	187	305	815
Tulane U.	157	581	518	1,083	977	441	381	522	456
North Dakota State U.	158	1,120	1,501	1,357	970	150	84	3	14
Colorado School of Mines	159	583	682	1,012	969	571	645	905	748
Louisiana Tech U.	159	771	999	914	969	238	314	326	301
Marquette U.	161	1,734	1,110	892	921	1,217	684	421	411
California State U., Fresno	162	412	490	1,626	909	287	444	1,158	514
Cleveland State U.	163	784	642	521	901	232	183	48	139
Towson U.	164	179	191	269	899	50	94	84	231
U. Arkansas, Fayetteville	165	97	60	59	896	71	34	29	80
California State U., Fullerton	166	11	212	1,234	887	0	127	775	157
Kennesaw State U.	167	107	287	1,114	876	4	57	624	675
Clark Atlanta U.	168	194	286	323	845	157	265	321	827
Virginia Commonwealth U.	169	793	698	930	839	609	529	717	574
Clarkson U.	170	780	868	784	830	571	524	230	261
U. Massachusetts, Boston	171	449	486	541	820	14	70	40	284
U. Idaho	172	205	194	128	812	120	142	65	46
Delaware State U.	173	3	i 3	652	803	3	i 3	241	803
Rowan U.	174	0	225	397	795	0	202	286	464

TABLE 47

Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
California Institute of Technology	175	1,387	1,039	1,063	794	755	605	683	489
U. Alabama, Huntsville	176	726	709	655	775	2	15	28	42
Wichita State U.	177	105	419	127	758	72	139	87	133
U. Kansas	178	672	543	682	751	649	508	621	575
Sonoma State U.	179	141	235	511	724	91	226	506	719
U. Maine	180	845	657	660	718	65	18	26	52
Wayne State U.	181	1,716	1,093	208	717	1,184	499	208	490
Wake Forest U.	182	529	161	381	716	134	70	85	292
Case Western Reserve U.	183	355	697	520	709	325	458	505	632
South Dakota State U.	184	401	433	657	691	262	302	593	582
CUNY, Baruch C.	185	325	211	533	682	321	203	486	582
Embry-Riddle Aeronautical U.	186	84	110	111	681	23	62	106	609
U. of the Virgin Islands	187	694	439	679	679	694	439	679	679
Wesleyan U.	188	533	402	506	659	390	327	281	411
U. Nebraska, Omaha	189	200	468	459	652	162	366	375	513
Boise State U.	190	1,137	1,475	1,550	646	904	1,203	1,271	513
Wellesley C.	191	255	263	179	644	240	262	169	292
U. New Orleans	192	389	482	603	642	0	131	195	290
Miami U.	193	310	427	346	636	139	269	186	70
Drexel U.	194	546	620	729	617	452	550	630	467
Tuskegee U.	195	1,240	1,146	888	616	1,240	1,146	888	616
U. Tennessee, Chattanooga	196	189	206	365	608	81	147	295	360
U. California, Santa Cruz	197	236	156	348	605	161	139	294	203
Indiana U.-Purdue U., Indianapolis	198	601	404	177	601	460	365	142	459
U. Hawaii, Manoa	199	515	439	409	593	457	410	366	483
U. South Alabama	200	80	163	267	584	79	162	231	494
Bryn Mawr C.	201	561	599	545	541	114	121	53	72
California State U., Channel Islands	202	181	348	568	536	171	268	460	377
Western Washington U.	202	347	375	332	536	217	227	217	342
California State U., Long Beach	204	691	446	369	534	673	446	349	265
U. Louisville	205	494	697	661	519	84	311	268	111
U. Memphis	206	1,241	1,250	1,138	510	493	240	243	375
Hampton U.	207	226	344	163	490	226	344	163	490
Lehigh U.	208	228	140	289	489	194	127	247	443
Texas Christian U.	209	2	0	189	483	2	0	0	42

TABLE 47

Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
California State U., Northridge	210	980	685	435	480	901	628	320	371
U. North Carolina, Greensboro	211	215	308	609	470	167	213	392	417
Stevens Institute of Technology	212	37	56	355	464	0	42	333	410
California State U., San Bernardino	213	633	466	311	462	427	184	283	188
Purdue U., Fort Wayne	214	69	8	229	458	19	5	0	29
Sam Houston State U.	215	338	444	413	455	319	417	356	455
Smith C.	215	182	120	296	455	121	111	244	342
West Virginia U.	217	482	579	432	448	369	374	227	208
U. North Dakota	218	434	372	348	444	0	0	0	0
Pomona C.	219	129	162	301	433	82	135	287	362
U. Michigan, Dearborn	220	155	190	163	416	110	149	130	304
Illinois Institute of Technology	221	405	381	429	412	389	312	379	391
Harvey Mudd C.	222	174	111	378	405	113	33	168	251
Fordham U.	223	173	140	212	396	66	70	34	10
U. Rochester	223	201	214	175	396	185	210	174	292
Washington State U.	225	447	535	509	383	289	356	328	164
Stephen F. Austin State U.	226	129	109	241	382	128	93	208	337
William & Mary	226	438	371	395	382	242	329	302	275
CUNY, Queens C.	228	228	251	278	380	160	221	172	189
Air Force Institute of Technology	229	658	828	164	375	497	197	149	352
U. Northern Colorado	230	181	135	83	371	117	91	31	66
Howard U.	231	230	198	215	369	0	0	0	253
Hofstra U.	232	4	85	286	368	0	0	188	216
CUNY, City C.	233	389	158	220	358	313	125	115	236
CUNY, York C.	234	0	12	109	356	0	0	103	351
Morgan State U.	234	134	146	192	356	105	129	185	344
CUNY, John Jay C. of Criminal Justice	236	5	12	106	342	5	12	98	335
U. Alaska, Fairbanks	237	346	191	181	338	321	165	168	336
Middle Tennessee State U.	238	39	1,187	1,243	314	0	316	357	221
Creighton U.	239	204	239	298	309	108	129	181	191
James Madison U.	240	159	345	335	301	104	15	71	81
Grinnell C.	241	407	108	86	299	72	63	21	0
Davidson C.	242	142	79	86	298	61	6	0	0
California State U., Stanislaus	243	194	253	218	281	194	253	218	271
Swarthmore C.	244	103	136	174	273	63	79	132	206

TABLE 47

Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Eastern Michigan U.	245	216	174	55	272	37	78	33	131
Nova Southeastern U.	246	0	0	20	268	0	0	0	0
CUNY, Hunter C.	247	174	217	200	262	114	183	166	198
Carleton C.	248	196	173	372	260	41	17	54	79
Manhattan C.	248	147	239	242	260	147	217	242	260
Illinois State U.	250	229	215	198	255	119	119	145	197
Claremont Graduate U.	251	70	111	74	253	70	111	74	253
Ferris State U.	252	ne	ne	ne	252	ne	ne	ne	252
U. Minnesota, Duluth	253	152	274	184	248	108	210	104	92
CUNY, Brooklyn C.	254	221	68	107	242	220	65	0	71
New Mexico Highlands U.	254	0	130	186	242	0	130	186	242
Mercer U.	256	224	219	221	238	0	0	0	0
U. South Dakota	257	160	189	117	236	0	0	0	0
Missouri U. of Science and Technology	258	222	252	221	230	218	250	173	193
U. of the District of Columbia	259	277	447	502	227	277	447	502	227
Long Island U.	260	457	372	414	226	0	0	0	0
Trinity C., Hartford	260	68	64	31	226	52	54	18	0
Saint Louis U.	262	280	190	192	222	266	170	165	199
CUNY, New York City C. of Technology	263	409	50	239	220	0	0	183	151
Pepperdine U.	264	32	26	29	217	0	0	0	0
Texas A&M U.-Commerce	265	26	34	9	213	0	0	0	108
Tarleton State U.	266	450	342	376	211	2	0	0	0
Florida Institute of Technology	267	188	286	298	210	71	132	208	120
Central Washington U.	268	104	169	196	209	52	149	157	178
California State U., Monterey Bay	269	234	12	175	204	148	12	154	190
Catholic U. of America	270	0	53	0	202	0	53	0	202
U. Wisconsin-Milwaukee	271	4,792	707	25	198	3,820	0	0	132
SUNY, Buffalo State U.	272	91	112	139	192	91	112	139	192
Mount Holyoke C.	273	147	62	159	191	147	57	146	173
Benedict C.	274	44	ne	ne	187	44	ne	ne	187
Kean U.	274	0	0	80	187	0	0	0	0
Vassar C.	276	357	307	95	185	350	301	80	157
U. Washington, Tacoma	277	47	25	137	182	47	25	137	182
CUNY, Lehman C.	278	271	343	214	181	259	328	213	167
California State U., East Bay	279	896	364	377	180	0	58	10	0

TABLE 47

Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed										
		2020	2021	2022	2023	2020	2021	2022	2023							
Claremont McKenna C.	280	85	103	163	178	78	103	79	138							
Norwich U.	280	ne	ne	ne	178	ne	ne	ne	170							
New Mexico State U.	282	188	116	164	170	151	77	138	111							
U. Alabama, Birmingham	283	916	383	263	169	875	362	257	169							
DePaul U.	284	0	2	154	168	0	0	92	136							
Murray State U.	285	198	309	354	166	198	306	351	164							
Sacred Heart U.	285	ne	0	ne	166	ne	0	ne	70							
Texas Woman's U.	285	23	1	125	166	0	0	0	0							
Bucknell U.	288	113	i	110	169	164	106	i	104	148	135					
Bowling Green State U.	289	532		160	348	163	140	82	52	39						
Villanova U.	289	60		116	119	163	2	28	64	107						
U. Guam	291	0		87	63	160	0	81	57	155						
Christopher Newport U.	292	7		180	225	159	0	172	222	154						
Utah Valley U.	292	ne	ne	ne	82	159	ne	ne	82	159						
New Mexico Institute of Mining and Technology	294	53		3	77	157	50	0	54	151						
U. Puerto Rico, Rio Piedras	294	145		178	234	157	102	120	124	124						
Northern Kentucky U.	296	81		65	73	155	71	59	72	97						
Reed C.	296	223		229	i	136	i	155	i	151	160	i	83	i	94	i
Texas A&M International U.	298	1		91	101	152	0	64	74	150						
U. San Francisco	299	25		16	13	145	16	15	12	0						
Colorado C.	300	23		18	44	142	0	0	44	128						
Alabama State U.	301	0		0	0	141	0	0	0	0						
Augusta U.	302	13		44	110	136	13	44	81	94						
U. Missouri, Saint Louis	303	265		407	174	135	235	371	161	120						
Salisbury U.	304	113		123	123	133	0	0	0	0						
Southern Illinois U., Carbondale	304	278		14	9	133	0	5	4	24						
Youngstown State U.	304	6		3	74	133	1	0	66	98						
West Chester U. Pennsylvania	307	196		103	82	132	60	0	0	0						
Jackson State U.	308	97		44	26	128	84	39	21	91						
Colby C.	309	30		3	36	127	10	0	28	88						
Lawrence Technological U.	309	0		9	21	127	0	9	21	127						
Oregon Institute of Technology	311	77	i	84	i	100	i	126	i	0	9	i	12	i	49	i
Texas A&M U.-Corpus Christi	311	21		6	19	126	0	0	0	78						
Texas Southern U.	313	187		167	96	125	187	167	94	120						
C. Wooster	314	104		70	i	93	123	55	47	i	68	56				

TABLE 47

Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Norfolk State U.	314	48	29	35	123	48	29	35	123
Occidental C.	316	58	97	108	i 122	58	97	108	i 122
Ursinus C.	317	ne	ne	ne	120	ne	ne	ne	120
Williams C.	318	401	i 411	i 105	i 119	i 227	i 241	i 47	i 53
Alabama A&M U.	319	83	i 70	i 78	i 118	i 56	i 61	i 76	i 101
Fairfield U.	319	75	78	ne	118	74	70	ne	80
Lafayette C.	319	69	24	41	118	56	13	36	105
U. Central Oklahoma	319	126	i 132	i 106	i 118	i 93	i 98	i 54	i 60
Eastern Connecticut State U.	323	79	87	0	117	0	0	0	2
CUNY, C. Staten Island	324	691	391	173	116	513	308	157	65
Northern Illinois U.	325	76	40	62	114	24	31	31	78
Colgate U.	326	84	153	153	113	56	65	113	74
California State U., Sacramento	327	94	116	131	112	0	34	43	26
C. Charleston	328	81	61	31	109	0	0	0	0
Elon U.	328	0	87	135	109	0	11	84	23
California State Polytechnic U., Pomona	330	138	20	80	106	102	20	80	106
U. Denver	330	120	80	243	106	68	37	139	64
Tougaloo C.	332	0	0	i 91	i 105	0	0	i 91	i 103
Fisk U.	333	12	415	167	104	12	407	158	52
Seattle U.	333	184	93	153	104	159	90	97	42
Bowdoin C.	335	29	10	40	103	24	5	29	92
Gallaudet U.	336	3	1	2	102	0	1	0	40
Ball State U.	337	51	27	83	100	35	16	27	44
Southern U. and A&M C., Baton Rouge	337	5	68	87	100	0	50	87	100
U. Dayton	339	4	3	18	98	0	0	0	61
Haverford C.	340	127	i 28	i 51	i 97	65	12	30	77
Macalester C.	341	138	100	123	96	96	100	94	62
South Dakota School of Mines and Technology	342	339	216	16	95	339	216	16	95
East Carolina U.	343	75	7	439	90	0	0	426	77
Trinity U.	344	84	41	50	89	68	37	38	48
Ithaca C.	345	64	74	122	87	64	74	122	85
U. Texas, Tyler	345	22	9	74	87	20	2	74	87
Drake U.	347	ne	28	109	86	ne	27	108	73
U. Colorado Colorado Springs	347	11	0	21	86	11	0	0	67
Duquesne U.	349	233	71	57	83	120	49	36	50

TABLE 47

Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Bryant U.	350	ne	ne	ne	82	ne	ne	ne	82
California State U., Dominguez Hills	350	116	125	72	82	53	61	39	1
Loyola U., Chicago	350	188	81	90	82	164	67	34	25
U. Washington, Bothell	350	31	0	33	82	31	0	22	75
U. Akron	354	82	161	191	78	60	117	91	58
Florida Gulf Coast U.	355	232	0	105	77	149	0	47	2
U. Virginia's C. Wise	356	ne	0	0	76	ne	0	0	0
Grand Valley State U.	357	166	53	38	75	94	23	1	0
Seton Hall U.	357	0	0	0	75	0	0	0	0
Union C., Schenectady	357	33	6	64	75	13	0	36	24
Wright State U.	357	145	90	92	75	72	67	61	32
Appalachian State U.	361	90	29	22	72	5	0	6	29
Western Carolina U.	361	11	3	0	72	3	3	0	72
St. Olaf C.	363	51	4	ne	71	23	0	ne	8
Idaho State U.	364	0	2	18	70	0	0	5	38
Kenyon C.	365	16	ne	45	69	0	ne	18	49
U. Puerto Rico, Ponce	365	ne	ne	ne	69	ne	ne	ne	69
Franklin and Marshall C.	367	52	50	30	68	22	47	19	51
C. New Jersey	368	6	10	22	66	4	10	21	65
Calvin U.	369	49 i	53 i	57 i	63 i	40 i	40 i	40	40
Oakland U.	369	34	55	80	63	34	55	77	63
Winthrop U.	371	0	6	8	62	0	0	0	0
Albany State U.	372	0	0	ne	60	0	0	ne	60
Central State U.	373	37	69	42	59	37	69	42	59
Minnesota State U., Mankato	374	0	0	0	58	0	0	0	58
U. Rhode Island	375	0	5	0	57	0	0	0	57
Hope C.	376	68	30	33	56	58	23	17	3
U. Richmond	376	106	114	36	56	21	0	0	5
Babson C.	378	0 i	0 i	56 i	55 i	0	0	0	0
U. Toledo	378	49	3	38	55	36	0	29	42
U. North Carolina, Wilmington	380	105	51	51	53	48	20	51	32
California State U., San Marcos	381	82	0	9	52	82	0	9	52
Western Kentucky U.	381	27	9	75	52	11	4	57	0
U. Puerto Rico, Mayaguez	383	45	87	74	51	25	87	5	0
Northland C.	384	ne	40 i	44 i	50 i	ne	35 i	38 i	43 i

TABLE 47

Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed											
		2020	2021	2022	2023	2020	2021	2022	2023								
Azusa Pacific U.	385	64	125	30	49	0	0	0	0								
Oberlin C.	385	4	39	ne	49	0	39	ne	46								
U. Hartford	387	131	100	34	48	131	100	30	48								
Central Michigan U.	388	120	141	122	46	52	1	0	16								
Pennsylvania State U., Behrend	388	21	174	41	46	15	166	2	0								
Virginia Military Institute	388	ne	ne	39	46	ne	ne	0	0								
Marshall U.	391	1	0	0	44	0	0	0	17								
Marian U., Indianapolis	392	ne	ne	ne	43	ne	ne	ne	3								
New C. Florida	392	ne	ne	ne	43	ne	ne	ne	33								
Winston-Salem State U.	392	5	0	82	43	0	0	51	43								
Central Connecticut State U.	395	17	25	24	40	0	0	0	0								
Prairie View A&M U.	395	145	81	5	40	0	81	0	40								
Marymount U.	397	ne	0	0	39	ne	0	0	0								
Pennsylvania State U., Altoona	397	ne	ne	ne	39	ne	ne	ne	0								
Virginia State U.	399	645	217	206	36	645	217	206	36								
Middlebury C.	400	0	62	0	35	0	0	0	35								
Northern Michigan U.	400	0	0	0	35	0	0	0	0								
St. Edward's U.	400	645	645	209	35	600	600	159	0								
U. Houston-Downtown	400	10	19	2	35	9	17	0	10								
U. Southern Maine	400	0	11	13	35	0	11	13	29								
Western New England U.	400	ne	ne	50	35	ne	ne	50	35								
Northern Arizona U.	406	0	0	5	34	0	0	0	0								
U.S. Air Force Academy	406	0	0	451	34	0	0	451	27								
Florida A&M U.	408	0	4	15	33	0	0	0	28								
California State Polytechnic U., Humboldt	409	10	8	1	32	0	0	0	0								
Florida Polytechnic U.	410	0	0	9	30	0	0	0	0								
Texas A&M U.-San Antonio	411	ne	ne	0	29	ne	ne	0	27								
Andrews U.	412	3	0	ne	28	0	0	ne	26								
Langston U.	413	2	0	2	27	2	0	0	21								
U. North Florida	413	70	19	28	27	0	0	0	0								
Northwestern State U. Louisiana	415	19	12	23	26	i	0	0	0	i							
California State U., Chico	416	57	41	42	25	10	0	15	0								
U. Wisconsin-Platteville	416	21	i	19	i	23	i	25	i	8	i	9	i	11	i	12	i
West Virginia State U.	418	0	0	0	23	0	0	0	23								
U. West Florida	419	313	81	71	22	0	0	0	0								

TABLE 47

Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Wisconsin-Eau Claire	419	82	102	11	22	35	49	11	22
Lewis and Clark C.	421	174	79	0	21	45	56	0	21
U. North Georgia	421	1	0	0	21	0	0	0	16
U. Wisconsin-Green Bay	421	18	15	21	21	9	7	8	9
U. Wisconsin-La Crosse	421	112	84	59	21	77	70	43	11
East Tennessee State U.	425	149	50	185	19	123	37	125	19
Skidmore C.	425	12	0	26	19	0	0	14	9
C. of Saint Benedict	427	17	14	16	18	0	2	2	2
Citadel Military C. South Carolina	427	3	8	28	18	0	0	15	0
Ohio U.	427	90	53	38	18	76	25	26	0
Fort Valley State U.	430	184	22	0	17	158	22	0	17
Saint John's U.	430	16	13	15	17	0	0	0	0
Hamilton C.	432	18	10	4	16	0	0	0	0
Merrimack C.	432	0	ne	ne	16	0	ne	ne	16
Clark U.	434	0	0	0	15	0	0	0	0
Hobart and William Smith Colleges	434	83	6	90	15	83	5	85	0
Pennsylvania State U., Harrisburg	434	0	4	7	15	0	2	7	15
U. South Carolina, Beaufort	434	ne	ne	ne	15	ne	ne	ne	6
Bowie State U.	438	0	0	0	14	0	0	0	14
Dillard U.	438	0	0	21	14	0	0	19	14
Southern Connecticut State U.	438	35	187	107	14	0	0	0	0
Gustavus Adolphus C.	441	ne	ne	ne	13	ne	ne	ne	0
Robert Morris U.	441	ne	ne	12	13	ne	ne	0	0
U. South Carolina, Aiken	441	0	3	12	13	0	0	0	0
Bates C.	444	16	2	1	11	8	0	0	0
California State U., Los Angeles	445	10	26	0	10	10	26	0	10
Abilene Christian U.	446	ne	0	0	9	ne	0	0	0
Saint Joseph's U.	446	6	8	15	9	0	0	0	4
Santa Clara U.	446	22	39	41	9	20	15	37	8
Willamette U.	449	10	10	20	8	0	0	0	0
SUNY, Geneseo	450	41	3	16	7	35	0	0	0
U. Central Arkansas	450	24	35	10	7	15	16	1	7
U. Texas of the Permian Basin	450	0	0	1	7	0	0	0	0
U.S. Coast Guard Academy	450	ne	ne	ne	7	ne	ne	ne	0
U. Hawaii, Hilo	454	1,126	998	33	6	863	753	25	0

TABLE 47

Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Wisconsin-Superior	454	0	0	0	6	0	0	0	0
SUNY, Oswego	456	0	3	0	5	0	0	0	0
U. Northern Iowa	456	1	1	6	5	0	0	0	4
Butler U.	458	ne	ne	0	4	ne	ne	0	0
U. Tulsa	458	4	3	6	4	0	0	0	0
SUNY, C. of Environmental Science and Forestry	460	0	0	3	i 3	0	0	0	0
U. Nebraska, Kearney	460	8	0	0	3	0	0	0	0
U. Puget Sound	460	4	ne	4	3	0	ne	0	0
Rutgers, State U. New Jersey, Camden	463	94	111	0	2	84	61	0	0
U. New England	463	0	1	0	2	0	0	0	0
U. of Mary Washington	463	8	5	0	2	0	4	0	0
Eastern Washington U.	466	15	1	2	1	15	0	0	0
Indiana U. Pennsylvania	466	26	4	17	1	0	0	0	0
U. New Haven	466	4	0	17	1	0	0	0	0
U. of St. Thomas (MN)	466	43	28	19	1	40	28	19	0
West Texas A&M U.	466	1	1	7	1	0	0	0	0
William Paterson U.	466	185	68	63	1	0	0	0	0
All other surveyed institutions	-	9,711	7,693	6,038	0	4,283	2,954	1,779	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

^a Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$225,795 thousand imputed for total and \$220,386 thousand reported for federally financed R&D expenditures in mathematics and statistics in FY 2023. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^c The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

^d The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

^e The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 48

Higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
All institutions	-	5,671,891	5,735,955	6,167,466	6,944,769	967,125	2,301,102	319,102	2,966,923	390,517
Johns Hopkins U. ^a	1	390,245 i	338,454 i	317,282 i	332,727 i	22,326 i	26,888 i	3,462 i	257,687 i	22,364 i
California Institute of Technology	2	217,581	212,265 i	227,465	235,054 i	60,682 i	36,142 i	0 i	111,025 i	27,205 i
U. California, Berkeley	3	141,434	156,896	196,281	234,242	154,863	55,719	198	11,388	12,074
Michigan State U.	4	154,318	167,520	183,514	207,802	66	19,687	0	188,049	0
Massachusetts Institute of Technology	5	153,044	170,494	174,813	180,988	36,661	35,918	6,050	70,662	31,697
U. Colorado Boulder	6	115,340	120,677	143,342	179,084	75,402	13,610	0	82,413	7,659
U. Arizona	7	149,138	140,655	142,519	173,256	146,818	13,846	4,100	8,431	61
Cornell U.	8	121,218	120,151	120,697	136,751	13,639	32,543	4,087	55,446	31,036
U. Maryland ^b	9	105,718	101,322	110,607	135,422	48,426	10,334	7,911	56,336	12,415
Harvard U.	10	100,654	109,606	118,530	134,733	14,369	34,728	3,996	70,188	11,452
U. Rochester	11	101,004	99,556	112,275	124,977	0	7,859	0	117,118	0
U. Texas, Austin	12	81,380	85,250	93,232	123,113	26,910	24,211	42,219	28,669	1,104
U. Wisconsin-Madison	13	83,687	87,587	97,161	113,636	6,804	39,292	0	41,543	25,997
Pennsylvania State U., University Park and Hershey Medical Center	14	94,201	89,035	73,580	111,514	12,462	18,226	52,509	28,317	0
Princeton U.	15	94,815	99,326	101,461	109,961	36,251	32,016	7,240	33,192	1,262
U. California, San Diego	16	94,124	86,893	97,804	105,927	15,418	39,537	0	33,763	17,209
Stanford U.	17	94,954	98,672	101,529	103,816	4,028	31,848	15,354	49,870	2,716
Northwestern U.	18	78,168	83,618	90,194	97,816	7,498	42,247	19,933	22,886	5,252
U. Illinois, Urbana-Champaign	19	72,360	78,698	77,419	84,748	6,548	34,685	0	43,505	10
Florida State U.	20	68,454	63,481	65,661	78,948	317	22,804	4,349	51,460	18
U. Chicago	21	51,122	55,032	70,483	78,200	15,707	36,407	5,521	18,877	1,688
U. Pennsylvania	22	58,157	59,246	67,341	72,101	1,610	26,793	17,580	26,118	0
U. Michigan, Ann Arbor	23	60,824	66,041	65,018	70,259	6,922	35,089	0	28,248	0
U. Washington, Seattle	24	60,477	58,664	62,596	69,424	9,265	29,048	2,113	24,614	4,384
U. California, Santa Barbara	25	58,534	54,435	72,934	68,503	2,454	10,043	13,679	32,081	10,246
U. California, San Francisco	26	69,662	69,817	71,611	67,648	0	66,457	0	1,191	0
Texas A&M U., College Station and Health Science Center	27	54,574	56,029	56,540	65,248	3,433	27,800	7,769	23,388	2,858
U. Iowa	28	23,226	32,013	55,128	63,779	1,154	6,051	0	56,574	0
Yale U.	29	56,046	56,847	57,627	63,036	6,105	28,905	0	28,026	0
U. California, Los Angeles	30	54,697	56,624	55,159	61,410	0	25,424	0	33,192	2,794
Purdue U., West Lafayette	31	42,370	42,663	49,938	60,623	0	36,491	0	24,132	0
U. Notre Dame	32	44,855	47,332	47,516	59,388	0	34,516	0	24,872	0
Arizona State U.	33	25,619	26,742	27,777	59,230	0	14,799	0	14,574	29,857
U. Missouri, Columbia	34	9,173	8,722	9,469	57,534	0	6,362	0	51,172	0

TABLE 48

Higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. Delaware	35	25,192	26,015	50,077	56,483	3,204	19,940	20,279	13,060	0
Columbia U. in the City of New York	36	37,384	46,386	52,767	52,418	11,618	19,577	2,607	18,616	0
U. North Carolina, Chapel Hill	37	39,979	38,809	49,368	51,933	1,552	30,227	0	11,851	8,303
SUNY, Stony Brook U.	38	41,224	43,101	45,541	49,245	2,189	15,110	0	31,946	0
U. Minnesota, Twin Cities	39	43,946	41,812	42,715	47,610	2,656	21,704	0	23,250	0
U. Central Florida	40	34,493	37,144	39,361	45,916	0	5,554	0	40,024	338
U. Florida	41	25,532	28,005	39,928	43,930	2,878	26,640	0	14,410	2
U. California, Irvine	42	40,964	38,794	40,171	43,790	0	24,009	0	19,630	151
Rice U.	43	33,656	33,015	31,638	43,704	1,129	20,909	1,894	19,681	91
U. California, Santa Cruz	44	36,262	35,606	37,808	43,696	20,609	14,697	0	8,099	291
Boston U.	45	30,909	35,094	38,445	42,374	3,238	21,277	0	17,859	0
Ohio State U.	46	57,083	40,010	47,143	39,570	4,519	9,661	2,675	22,715	0
Georgia Institute of Technology	47	34,215	33,914	33,858	39,186	0	24,325	0	14,861	0
U. Nebraska, Lincoln and Medical Center ^c	48	na	na	na	37,541	0	12,286	267	24,988	0
Louisiana State U., Baton Rouge	49	22,366	23,438	30,594	36,946	0	15,050	0	20,617	1,279
U. California, Davis	50	26,495	27,906	35,319	36,471	0	15,108	0	10,963	10,400
Northeastern U.	51	20,709	24,279	27,207	33,512	0	13,625	0	19,136	751
U. Pittsburgh, Pittsburgh	52	27,652	27,919	30,591	33,092	4,521	17,599	0	10,972	0
Catholic U. of America	53	17,669	19,708	23,353	32,191	0	3	0	27,944	4,244
Florida International U.	54	27,354	27,997	33,613	31,704	0	25,467	0	4,058	2,179
Iowa State U.	55	27,216	26,696	30,440	31,219	0	15,985	0	15,234	0
Emory U.	56	22,505	25,676	28,576	31,085	0	26,564	0	4,521	0
Indiana U., Bloomington	57	33,608	30,322	31,360	30,417	1,723	17,814	0	10,880	0
New York U.	58	26,698	26,417	26,391	30,409	0	15,549	0	14,860	0
Vanderbilt U. and Vanderbilt U. Medical Center	59	28,017	30,077	28,937	30,399	0	18,843	0	11,556	0
Washington U., Saint Louis	60	23,401	24,320	25,954	30,262	0	12,316	8,355	9,591	0
Duke U.	61	22,396	22,131	23,281	29,127	0	16,182	0	12,945	0
North Carolina State U.	62	23,464	28,455	27,486	28,745	0	16,370	0	12,147	228
U. Illinois, Chicago	63	15,752	17,718	21,497	28,674	0	13,743	0	14,931	0
Rutgers, State U. New Jersey, New Brunswick	64	25,703	23,111	32,108	28,283	1,908	6,825	1,398	16,794	1,358
U. Virginia, Charlottesville	65	27,628	27,304	27,721	27,920	3,805	13,274	0	10,841	0
U. Houston	66	50,164	52,230	60,462	27,682	293	15,585	536	8,983	2,285
U. Massachusetts, Amherst	67	28,757	22,250	23,286	27,580	5,992	11,743	0	9,845	0
Washington State U.	68	24,243	26,256	25,553	27,495	439	11,562	4,719	10,674	101
Montana State U., Bozeman	69	17,990	23,329	19,778	27,448	0	7,929	0	19,519	0

TABLE 48

Higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Carnegie Mellon U.	70	21,580	21,109	23,841	27,237	1,504	11,099	1,894	12,681	59
U. Maryland, Baltimore County	71	18,278	19,202	20,806	25,604	15,705	4,802	468	4,629	0
U. Hawaii, Manoa	72	29,491	26,381	23,293	25,554	18,708	2,333	0	4,508	5
U. Tennessee, Knoxville	73	21,239	20,809	23,139	25,471	0	8,885	0	16,586	0
U. Utah	74	30,170	30,441	18,579	24,991	0	17,148	0	7,843	0
Dartmouth C. and Dartmouth Hitchcock Medical Center	75	21,219	26,312	24,806	24,630	0	11,869	33	12,728	0
U. Texas M. D. Anderson Cancer Center	76	19,060	17,572	19,651	23,775	0	0	0	23,775	0
Wayne State U.	77	16,895	19,885	20,880	23,226	0	13,686	0	4,286	5,254
Virginia Polytechnic Institute and State U.	78	24,214	24,374	23,394	22,452	394	13,571	1,448	6,660	379
U. Oklahoma, Norman and Health Science Center	79	18,739	16,497	18,730	21,859	0	12,341	0	9,518	0
U. Texas, Arlington	80	17,257	16,864	18,905	20,371	0	6,773	0	12,488	1,110
Syracuse U.	81	13,905	13,926	14,286	20,189	0	6,723	0	13,466	0
Auburn U., Auburn	82	15,247	15,214	17,011	19,616	909	8,154	242	10,216	95
U. Kansas	83	7,502	15,492	16,123	19,261	683	13,643	0	4,935	0
U. Alabama, Huntsville	84	13,353	15,071	17,852	19,243	15,296	1,065	22	2,839	21
U. Arkansas, Fayetteville	85	9,791	8,111	10,739	19,209	0	5,658	11	10,730	2,810
Colorado State U., Fort Collins	86	11,356	12,947	14,885	19,169	0	12,002	1,158	5,625	384
Georgia State U.	87	19,395	17,588	18,277	19,102	4,443	8,045	0	6,614	0
U. Massachusetts, Lowell	88	19,144	18,308	18,186	19,076	0	3,538	0	15,538	0
Colorado School of Mines	89	11,346	10,812	12,923	18,977	345	5,333	5,646	6,694	959
U. California, Riverside	90	17,037	17,559	17,938	18,535	0	10,291	0	8,244	0
New Jersey Institute of Technology	91	16,781	15,415	17,202	18,434	8,650	4,408	756	4,620	0
U. Southern California	92	23,644	21,413	17,696	18,195	6,542	11,653	0	0	0
U. Oregon	93	12,984	13,881	15,315	18,110	0	9,391	1,457	3,578	3,684
Brown U.	94	17,745	17,072	18,299	18,064	0	6,157	0	9,713	2,194
U. Texas, Dallas	95	17,759	16,444	16,709	17,707	4,669	5,695	0	5,916	1,427
Brandeis U.	96	13,701	12,459	16,778	17,131	4,779	5,785	552	5,890	125
SUNY, Binghamton U.	97	18,586	14,568	14,636	16,702	0	12,376	84	4,145	97
West Virginia U.	98	12,678	12,431	13,067	16,296	3,269	5,502	0	7,525	0
Temple U.	99	18,447	17,979	17,215	15,792	0	6,851	0	3,844	5,097
Rochester Institute of Technology	100	13,830	12,388	14,979	15,762	0	774	0	4,680	10,308
U. Connecticut	101	18,546	17,682	11,245	15,372	0	7,895	0	7,477	0
SUNY, U. Buffalo	102	11,161	13,431	11,990	15,320	0	11,496	3	3,821	0
Texas Tech U.	103	15,103	15,784	15,739	15,057	0	8,268	645	6,144	0
Georgetown U.	104	9,151	10,525	15,192	13,835	0	3,021	0	7,933	2,881

TABLE 48

Higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Mississippi State U.	105	10,381	10,755	12,061	13,806	341	5,085	3,621	4,696	63
U. Mississippi	106	11,652	10,803	11,784	13,565	0	4,420	0	9,145	0
U. Alaska, Fairbanks	107	15,551	16,441	13,832	13,507	12,620	73	0	512	302
Boston C.	108	9,306	11,863	12,202	13,121	0	9,250	0	3,871	0
U. Southern Mississippi	109	13,422	14,672	14,071	12,954	0	10,393	0	0	2,561
New Mexico State U.	110	26,366	20,108	13,339	12,826	8,259	1,647	0	1,994	926
Rensselaer Polytechnic Institute	111	12,143	12,251	15,894	12,723	0	6,945	156	2,955	2,667
SUNY, U. Albany	112	7,719	6,791	7,299	12,431	0	9,793	0	2,638	0
Kansas State U.	113	12,583	12,736	14,709	12,230	0	2,995	0	9,235	0
U. Texas, San Antonio	114	11,234	11,547	12,128	12,226	0	7,586	0	4,640	0
U. Texas, El Paso	115	6,775	9,092	10,021	12,207	0	8,656	0	3,551	0
U. Cincinnati	116	8,874	9,189	10,335	12,181	0	7,651	0	4,530	0
Clemson U.	117	10,823	10,139	11,923	12,096	0	5,323	402	6,050	321
U. Toledo	118	7,445	10,594	11,637	11,716	932	3,251	0	7,520	13
U. Nevada, Reno	119	9,566	8,025	10,640	11,696	1,147	5,421	434	3,975	719
U. Georgia	120	11,295	10,896	10,161	11,502	486	7,961	0	3,055	0
U. Nevada, Las Vegas	121	9,692	10,589	9,030	11,407	617	4,792	0	5,998	0
Baylor U.	122	6,993	8,289	11,717	11,399	25	7,039	488	3,694	153
U. Alabama, Tuscaloosa	123	6,471	7,991	7,524	11,124	271	7,938	0	2,911	4
U. New Mexico	124	8,063	7,087	10,115	11,065	1,250	3,061	0	6,754	0
North Dakota State U.	125	6,502	10,077	9,362	11,009	0	3,811	6,493	705	0
Brigham Young U., Provo	126	5,268	6,357	6,726	10,717	0	5,015	0	5,702	0
Oakland U.	127	4,821	5,596	8,447	10,708	0	6,058	0	4,650	0
Tufts U.	128	15,438	9,212	11,206	10,498	663	7,629	859	669	678
U. South Florida ^d	129	11,433	9,900	10,866	10,460	0	5,981	0	4,096	383
Kent State U.	130	8,381	9,048	8,065	10,220	162	2,290	3,697	3,664	407
CUNY, City C.	131	9,591	8,709	11,590	10,061	0	6,064	0	3,997	0
San Diego State U.	132	6,402	6,681	7,587	10,039	980	7,037	0	2,022	0
Oklahoma State U., Stillwater	133	9,784	8,824	8,685	9,993	0	5,788	0	4,205	0
U. North Texas, Denton	134	9,275	8,710	8,762	9,854	0	6,401	0	3,453	0
U. Akron	135	8,576	6,703	8,690	9,555	0	9,524	30	1	0
U. Wisconsin-Milwaukee	136	8,699	10,970	10,084	9,286	5,746	2,180	0	1,360	0
CUNY, Advanced Science Research Center	137	4,154	6,107	9,558	9,285	0	3,157	0	6,128	0
Southern Methodist U.	138	3,847	4,598	5,607	9,217	0	5,398	0	3,819	0
U. Montana, Missoula	139	7,592	8,615	7,724	9,031	0	2,814	0	506	5,711

TABLE 48

Higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. California, Office of the President	140	8,123	7,905	8,725	8,957	8,957	0	0	0	0
Air Force Institute of Technology	141	7,796	15,999	11,934	8,942	0	0	0	8,942	0
George Washington U.	142	8,313	7,033	6,840	8,736	0	3,199	0	5,537	0
Old Dominion U.	143	7,028	7,021	8,410	8,733	0	4,024	0	4,709	0
U. Kentucky	144	8,553	8,722	9,118	8,370	0	4,968	0	3,402	0
California State U., Northridge	145	5,407	7,447	7,084	8,180	452	1,335	0	1,379	5,014
Northern Arizona U.	146	7,064	8,120	7,427	7,952	4,439	522	382	852	1,757
Boise State U.	147	3,788	5,881	6,848	7,828	142	2,575	4,597	514	0
U. Maine	148	6,427	6,803	6,427	7,816	0	1,206	0	6,610	0
Abilene Christian U.	149	ne	4,209	5,831	7,716	0	53	0	7,663	0
Xavier U. Louisiana	150	7,186	8,440	7,578	7,701	0	7,701	0	0	0
Oregon State U.	151	4,814	4,727	6,297	7,604	163	1,965	546	4,917	13
U. North Dakota	152	3,489	2,964	3,641	7,486	0	2,880	0	4,606	0
Jackson State U.	153	9,903	8,231	7,277	7,333	0	4,351	0	2,982	0
U. North Carolina, Charlotte	154	4,003	3,367	3,345	7,278	0	3,191	0	4,087	0
U. Miami	155	5,150	5,000	5,939	7,163	0	2,481	0	4,586	96
New Mexico Institute of Mining and Technology	156	1,361	1,151	1,798	7,124	0	40	0	7,084	0
George Mason U.	157	5,586	4,786	6,154	7,098	3,136	1,470	1,542	813	137
William & Mary	158	5,781	5,985	6,411	7,096	0	801	0	6,219	76
Howard U.	159	5,308	5,720	6,125	7,016	1,633	4,629	0	754	0
U. California, Merced	160	7,593	5,753	6,863	6,930	0	3,343	0	3,118	469
Embry-Riddle Aeronautical U.	161	2,744	3,853	5,852	6,884	14	0	0	719	6,151
Ohio U.	162	5,370	5,520	5,892	6,865	0	941	0	5,556	368
Texas State U.	163	2,208	3,421	5,123	6,776	0	3,094	0	1,132	2,550
Northern Illinois U.	164	5,560	5,454	6,220	6,765	0	2,619	0	4,146	0
Utah State U.	165	6,606	5,111	5,408	6,477	0	3,714	0	2,720	43
Georgia Southern U.	166	5,465	5,400	5,740	6,163	102	1,498	4,139	424	0
Rockefeller U.	167	7,184	6,835	5,693	6,114	0	5,248	0	866	0
U. Rhode Island	168	3,869	3,328	4,119	6,026	0	3,553	0	421	2,052
U. Puerto Rico, Rio Piedras	169	4,429	4,886	5,456	5,852	81	3,611	0	2,160	0
San Jose State U.	170	2,445	3,437	4,464	5,800	0	1,992	0	2,271	1,537
CUNY, Hunter C.	171	4,197	5,489	4,838	5,712	0	3,656	0	1,907	149
U. New Hampshire	172	4,425	4,957	5,090	5,689	0	1,760	858	3,071	0
U. North Carolina, Greensboro	173	3,505	4,250	5,251	5,687	0	3,117	2,560	2	8
Delaware State U.	174	2,210	2,304	3,965	5,666	101	1,401	6	4,158	0

TABLE 48

Higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Tulane U.	175	5,720	5,018	4,579	5,633	0	2,582	0	3,051	0
U. Alabama, Birmingham	176	4,678	9,885	6,282	5,624	0	2,164	156	3,304	0
Lehigh U.	177	3,495	3,642	5,157	5,588	0	2,508	0	3,080	0
North Carolina Central U.	178	3,027	3,257	4,976	5,524	i	537	i	4,987	i
Case Western Reserve U.	179	8,063	9,007	10,694	5,407	176	3,032	0	2,110	89
Virginia Commonwealth U.	180	3,499	3,396	3,280	5,346	0	3,645	0	1,701	0
U. Texas Rio Grande Valley	181	5,148	4,338	3,997	5,214	2,305	992	144	1,594	179
U. South Carolina, Columbia	182	5,437	6,928	4,761	5,158	0	781	0	3,323	1,054
California Polytechnic State U., San Luis Obispo	183	5,672	4,953	5,294	5,010	0	571	0	1,309	3,130
American U.	184	4,714	4,404	4,351	4,853	0	1,143	619	3,091	0
Worcester Polytechnic Institute	185	2,773	3,852	3,487	4,748	0	2,305	0	2,443	0
Michigan Technological U.	186	4,094	4,085	4,600	4,747	0	2,225	0	2,441	81
Saint Louis U.	187	1,942	2,131	3,579	4,726	0	4,686	0	40	0
U. South Dakota	188	4,054	3,713	4,107	4,481	0	2,506	0	1,975	0
South Dakota School of Mines and Technology	189	1,425	1,824	2,883	4,365	0	2,355	0	2,010	0
U. Louisiana, Lafayette	190	3,546	6,453	3,957	4,358	75	1,461	0	2,012	810
California State U., Los Angeles	191	5,241	5,165	5,776	4,354	0	4,063	0	291	0
Rutgers, State U. New Jersey, Newark	192	2,384	2,667	4,099	4,188	0	3,098	0	1,090	0
Miami U.	193	1,329	3,940	2,701	4,186	0	3,590	0	339	257
Clarkson U.	194	2,217	2,414	3,918	4,148	0	2,815	0	715	618
Naval Postgraduate School	195	9,161	5,927	4,745	4,107	0	647	88	2,649	723
U. Massachusetts, Boston	196	3,584	4,174	3,076	3,981	0	2,153	0	1,828	0
U. Vermont	197	4,877	4,354	4,354	3,944	0	2,849	0	1,095	0
Hampton U.	198	3,142	3,409	4,282	3,898	0	342	0	3,556	0
U. Memphis	199	3,014	3,372	3,012	3,870	98	2,615	78	1,079	0
Missouri U. of Science and Technology	200	6,107	4,478	3,734	3,747	0	2,775	0	972	0
Texas Christian U.	201	695	398	4,131	3,625	91	1,187	0	1,090	1,257
U. Wyoming	202	1,248	1,808	2,625	3,585	362	2,130	54	1,005	34
U. Massachusetts, Dartmouth	203	2,116	2,650	3,290	3,547	0	2,378	0	1,014	155
Florida Atlantic U.	204	3,147	2,726	2,364	3,509	195	2,184	0	1,129	1
Rowan U.	205	664	1,524	1,483	3,480	52	2,596	0	830	2
Indiana U.-Purdue U., Indianapolis	206	2,306	2,748	2,736	3,382	0	2,342	0	1,038	2
North Carolina A&T State U.	207	1,638	1,158	2,053	3,306	0	1,698	0	1,608	0
Morgan State U.	208	411	774	2,314	3,287	0	816	0	2,427	44
Villanova U.	209	3,573	3,095	3,052	3,239	588	1,771	0	880	0

TABLE 48

Higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Clark Atlanta U.	210	1,649	1,616	2,620	3,168	0	3,034	0	134	0
Drexel U.	211	2,437	2,074	2,306	3,102	0	1,527	0	1,575	0
Western Washington U.	212	1,323	2,191	2,569	3,100	492	2,360	248	0	0
California State U., San Bernardino	213	1,569	1,992	2,635	3,067	0	2,052	40	975	0
Illinois Institute of Technology	214	3,143	3,483	3,705	3,038	0	259	0	2,779	0
U. Idaho	215	1,539	1,646	2,177	3,021	900	985	111	1,025	0
CUNY, Lehman C.	216	2,208	2,062	2,650	3,003	828	2,166	0	9	0
U. Louisville	216	2,954	3,254	3,872	3,003	82	2,149	37	422	313
California State U., Long Beach	218	2,670	2,723	3,494	2,993	445	2,516	32	0	0
CUNY, Graduate Center	218	630	547	0	2,993	0	654	245	1,445	649
South Dakota State U.	220	1,974	1,943	1,610	2,892	0	2,781	0	111	0
San Francisco State U.	221	3,208	3,418	3,626	2,867	527	1,321	0	980	39
Stevens Institute of Technology	222	1,834	2,066	1,775	2,841	0	817	448	1,576	0
Morehouse C.	223	1,517	1,831	2,393	2,813	0	390	0	354	2,069
Wichita State U.	224	1,114	1,438	1,703	2,802	0	2,001	0	801	0
CUNY, Brooklyn C.	225	1,105	1,325	1,998	2,680	0	2,235	0	445	0
Fisk U.	226	212	1,645	1,926	2,574	0	99	437	2,038	0
Southern Illinois U., Carbondale	227	2,013	2,052	1,825	2,547	65	1,823	0	623	36
Troy U.	228	1,216	1,102	1,916	2,538	0	8	2,530	0	0
Wesleyan U.	228	2,383	2,137	2,622	2,538	613	1,173	0	752	0
James Madison U.	230	1,337	1,825	2,256	2,525	157	1,697	0	470	201
Montclair State U.	231	589	737	1,811	2,520	47	1,848	0	105	520
Louisiana Tech U.	232	1,775	2,342	2,110	2,519	0	1,273	0	1,246	0
Florida Institute of Technology	233	2,777	3,547	1,682	2,408	299	783	0	1,210	116
Seton Hall U.	234	401	396	743	2,375	0	1,942	0	433	0
U. Puerto Rico, Mayaguez	235	1,347	1,002	1,580	2,339	0	1,539	158	642	0
California State U., Fullerton	236	1,254	1,343	1,615	2,331	549	900	102	683	97
Wake Forest U.	236	2,196	2,236	1,996	2,331	0	704	331	1,296	0
East Carolina U.	238	2,168	1,814	1,740	2,274	0	1,365	0	909	0
U. Denver	239	4,913	3,977	4,420	2,249	67	1,240	79	848	15
Florida A&M U.	240	1,410	1,346	1,905	2,201	0	97	0	2,104	0
CUNY, Queens C.	241	1,444	1,815	2,266	2,163	0	1,625	0	538	0
U.S. Naval Academy	242	2,144	1,604	1,679	2,148	0	968	0	1,180	0
Tuskegee U.	243	166	169	1,910	2,141	0	40	1,944	157	0
Illinois State U.	244	567	1,171	1,812	2,138	0	1,193	0	945	0

TABLE 48

Higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Marquette U.	245	2,681	3,903	2,539	2,115	0	1,862	0	253	0
Chapman U.	246	2,062	1,314	1,814	2,106	0	636	9	277	1,184
SUNY, C. of Environmental Science and Forestry	246	294	404	2,009	2,106	249	1,838	0	0	19
Creighton U.	248	1,463	1,621	2,020	2,097	0	844	0	1,253	0
U. New Orleans	249	2,398	2,652	2,181	2,094	0	1,387	0	707	0
Trinity U.	250	1,230	1,165	1,272	2,025	95	1,610	0	320	0
Central Michigan U.	251	2,508	1,891	2,396	2,004	441	66	69	1,428	0
Bowling Green State U.	252	2,326	2,345	2,201	1,994	0	1,317	217	460	0
Portland State U.	253	2,326	1,977	2,410	1,932	0	1,775	0	157	0
U. Colorado Denver ^e	254	na	1,574	1,895	1,924	0	1,400	0	524	0
U. Puerto Rico, Humacao	255	1,090	1,083	1,302	1,852	217	434	1,105	96	0
Texas Southern U.	256	1,204	1,168	1,015	1,823	0	1,034	0	528	261
Western Michigan U. and Homer Stryker M.D. School of Medicine	256	1,309	1,148	1,227	1,823	0	734	0	1,089	0
Loyola U., Chicago	258	763	1,026	1,691	1,796	0	1,575	0	221	0
U. San Diego	259	1,496	1,377	1,237	1,758	0	653	0	1,105	0
Amherst C.	260	1,534	1,203	1,649	1,728	293	698	0	737	0
U. West Florida	261	1,202	1,356	1,269	1,719	0	134	0	0	1,585
Western Kentucky U.	262	1,785	1,205	1,714	1,717	163	824	0	730	0
U.S. Air Force Academy	263	2,714	2,398	2,310	1,679	1,104	0	0	575	0
Mercer U.	264	2,038	1,878	1,925	1,664	0	1,547	0	117	0
Hope C.	265	1,315	2,032	2,122	1,652	0	1,009	0	188	455
Texas A&M U.-Corpus Christi	266	1,437	1,089	1,459	1,643	0	307	0	48	1,288
Cleveland State U.	267	1,547	976	1,030	1,610	0	1,120	0	490	0
Barnard C.	268	885	1,319	1,541	1,588	812	776	0	0	0
Towson U.	269	476	723	880	1,576	187	926	0	187	276
U. Missouri, Kansas City	270	1,680	1,451	1,277	1,556	181	385	0	956	34
Prairie View A&M U.	271	1,353	1,348	2,139	1,545	0	718	481	346	0
U. North Florida	272	682	608	1,134	1,544	0	879	0	665	0
Chicago State U.	273	ne	ne	1,341	1,534	0	531	0	1,003	0
Marshall U.	274	1,030	295	1,224	1,501	0	1,447	0	54	0
Colgate U.	275	618	884	1,215	1,456	89	583	0	784	0
California State Polytechnic U., Pomona	276	1,395	1,150	1,301	1,453	1,123	296	0	8	26
Clark U.	277	1,648	1,386	1,277	1,435	0	753	0	682	0
Middle Tennessee State U.	278	596	2,967	2,115	1,412	36	1,233	0	143	0
Christopher Newport U.	279	829	731	851	1,394	0	22	0	1,372	0

TABLE 48

Higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Grinnell C.	280	742	691	823	1,361	51	1,099	0	211	0
U. Missouri, Saint Louis	281	1,910	2,345	1,076	1,336	102	1,160	0	74	0
U. North Carolina, Wilmington	282	375	435	675	1,317	0	193	0	0	1,124
CUNY, C. Staten Island	283	860	525	1,097	1,303	0	1,173	0	130	0
California State U., Fresno	284	1,127	1,307	2,668	1,295	0	1,125	0	170	0
Ball State U.	285	834	826	1,106	1,277	0	1,163	0	114	0
Furman U.	286	925	1,114	1,313	1,250	0	1,229	0	21	0
Fordham U.	287	747	1,067	1,532	1,226	0	1,003	0	223	0
Idaho State U.	288	1,372	1,847	1,490	1,225	0	367	0	858	0
Haverford C.	289	2,581 i	2,342 i	2,231 i	1,183 i	286 i	237 i	401 i	259 i	0 i
U. San Francisco	289	72	144	172	1,183	972	202	0	9	0
SUNY, Geneseo	291	785	1,197	1,234	1,176	0	322	0	854	0
U. Wisconsin-Eau Claire	292	814	1,041	954	1,160	42	507	345	0	266
Alabama A&M U.	293	636 i	681 i	758 i	1,143 i	0 i	529 i	0 i	614 i	0 i
Harvey Mudd C.	294	543	531	744	1,130	0	521	0	609	0
U. of the Virgin Islands	294	908	1,069	1,130	1,130	0	0	0	0	1,130
California State U., Dominguez Hills	296	556	418	1,464	1,128	0	91	0	1,037	0
Texas A&M U.-Commerce	297	939	995	1,028	1,116	0	221	0	895	0
California State U., San Marcos	298	1,667	1,063	981	1,109	0	0	0	810	299
Bryn Mawr C.	299	1,423	1,119	1,254	1,094	0	567	0	527	0
Norfolk State U.	300	726	763	1,051	1,074	0	0	0	1,051	23
Pomona C.	301	872	347	695	1,040	216	483	0	341	0
California State Polytechnic U., Humboldt	302	193	90	899	1,038	0	80	0	958	0
Swarthmore C.	303	734	891	779	1,019	150	626	0	243	0
Long Island U.	304	784	996	767	1,015	0	812	0	203	0
California State U., East Bay	305	939	1,215	895	999	188	145	0	658	8
Occidental C.	305	414	762	877 i	999 i	0 i	688 i	0 i	147 i	164 i
Reed C.	307	886	866 i	860 i	978 i	0 i	668 i	0 i	310 i	0 i
Appalachian State U.	308	408	591	1,013	971	0	631	0	340	0
U. South Alabama	309	433	626	561	970	0	787	0	183	0
U. Tulsa	310	424	403	718	961	0	668	0	293	0
Southern Illinois U., Edwardsville	311	911	1,374	426	955	0	287	0	376	292
Santa Clara U.	312	487	516	589	938	0	594	0	208	136
Franklin and Marshall C.	313	539	660	835	920	97	642	0	176	5
Saint Joseph's U.	314	194	137	1,397	906	0	797	0	109	0

TABLE 48

Higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. North Carolina, Asheville	315	958	558	718	894	183	155	0	7	549
Southern Connecticut State U.	316	846	576	753	893	546	26	0	252	69
U. Washington, Bothell	317	156	681	1,194	884	0	0	0	838	46
Wellesley C.	318	391	327	214	879	42	766	0	71	0
U. Northern Iowa	319	911	966	921	877	0	705	0	172	0
West Chester U. Pennsylvania	320	425	466	771	857	63	504	0	290	0
U. Nebraska, Kearney	321	320	657	625	832	0	538	0	294	0
Spelman C.	322	713	523	410	774	0	640	0	134	0
Pennsylvania State U., Behrend	323	44	282	521	773	0	90	584	99	0
C. Charleston	324	700	983	518	768	180	41	266	94	187
Williams C.	324	1,245 i	1,237 i	675 i	768 i	53 i	503 i	0 i	212 i	0 i
Duquesne U.	326	2,326	615	629	726	0	608	0	118	0
U. Arkansas, Pine Bluff	326	540	1,175	513	726	0	726	0	0	0
Fort Lewis C.	328	470	835	743	725	0	86	619	20	0
CUNY, John Jay C. of Criminal Justice	329	507	235	650	723	0	455	0	0	268
Wright State U.	330	1,774	1,465	1,253	715	0	54	0	652	9
Macalester C.	331	377	451	622	682	70	593	0	19	0
Tennessee Technological U.	331	1,178	879	672	682	0	380	0	302	0
U. Tennessee, Chattanooga	333	52	22	40	662	0	206	0	456	0
Whitman C.	334	356	ne	486	656	0	623	0	33	0
Bowdoin C.	335	239	288	376	654	0	440	0	178	36
U. Central Oklahoma	336	696 i	729 i	572 i	637 i	0 i	336 i	0 i	301 i	0 i
California State U., Sacramento	337	296	238	403	630	0	335	0	295	0
U. Minnesota, Duluth	338	840	624	493	619	0	289	0	330	0
Tougaloo C.	339	361	359 i	537 i	610 i	0 i	386 i	0 i	223 i	1 i
Hamilton C.	340	208	193	127	606	0	376	0	194	36
Bucknell U.	341	872 i	816	1,038	605	51	341	0	213	0
Davidson C.	341	242	451	531	605	0	292	0	249	64
Eastern Kentucky U.	343	95	131	ne	598	0	399	0	199	0
Gustavus Adolphus C.	343	ne	ne	ne	598	0	568	0	30	0
Middlebury C.	343	429	648	564	598	0	289	0	309	0
CUNY, New York City C. of Technology	346	212	331	727	585	0	47	0	538	0
U. Richmond	347	430	454	519	563	0	424	0	139	0
Utah Valley U.	347	ne	ne	815	563	0	301	0	262	0
U. Nebraska, Omaha	349	62	76	180	556	0	0	79	477	0

TABLE 48

Higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Winston-Salem State U.	350	554	956	964	551	0	551	0	0	0
Lamar U.	351	80	115	124	546	0	288	0	258	0
South Carolina State U.	352	414 i	456 i	498 i	541	0	0	0	541	0
Calvin U.	353	304 i	331 i	358 i	536 i	49 i	267 i	0 i	14 i	206 i
C. New Jersey	354	366	423	923	529	0	323	0	206	0
C. Wooster	355	235	414 i	549	524	0	324	92	108	0
Kenyon C.	356	300	ne	362	523	0	33	0	490	0
U. Colorado Anschutz Medical Campus ^e	357	na	391	566	521	0	0	0	521	0
Smith C.	358	321	495	453	517	37	293	0	187	0
U. Michigan, Dearborn	359	135	169	262	515	0	0	0	0	515
Northern Kentucky U.	360	778	671	875	505	0	293	0	212	0
U. Alaska, Anchorage	360	184	1,160	577	505	228	249	0	28	0
Kean U.	362	39	18	1,576	502	0	415	0	0	87
Murray State U.	363	185	201	293	481	0	439	0	39	3
Oberlin C.	364	483	298	ne	467	15	317	0	135	0
Sam Houston State U.	364	481	503	308	467	0	326	0	141	0
Colby C.	366	391	245	345	456	96	299	0	61	0
Skidmore C.	366	363	689	433	456	0	440	0	16	0
U. Arkansas, Little Rock	368	1,105	685	292	452	0	383	0	69	0
Vassar C.	369	250	178	233	450	178	261	0	11	0
Eastern Michigan U.	370	690	211	540	446	158	238	46	4	0
Lafayette C.	371	388	286	483	445	0	153	0	292	0
Southern U. and A&M C., Baton Rouge	372	735	583	200	433	0	150	0	283	0
Southeastern Louisiana U.	373	326	247	606	427	0	305	0	122	0
Yeshiva U.	374	286	253	682	419	0	0	0	419	0
Tarleton State U.	375	263	359	503	409	0	409	0	0	0
U.S. Military Academy	376	814	338	185	408	0	19	389	0	0
Butler U.	377	ne	ne	154	406	0	406	0	0	0
East Tennessee State U.	378	439 i	240 i	464 i	404	296	108	0	0	0
Hofstra U.	379	10	141	711	401	0	178	0	223	0
U. Central Arkansas	380	585	568	465	399	12	355	0	22	10
California State U., Chico	381	182	172	166	396	0	159	0	237	0
Salisbury U.	381	212	440	326	396	0	343	0	53	0
Indiana U., South Bend	383	ne	281	ne	392	0	148	0	244	0
Carleton C.	384	704	531	301	390 i	24 i	244 i	0 i	122 i	0 i

TABLE 48

Higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. Dayton	385	868	910	876	385	24	18	136	207	0
Union C., Schenectady	386	268	185	244	383	93	275	0	15	0
Andrews U.	387	196	174	ne	380	377	3	0	0	0
St. John's U., New York	387	405	345	510	380	0	340	0	40	0
Winthrop U.	389	317	382	444	378	0	378	0	0	0
U. Colorado Colorado Springs	390	270	310	457	377	0	197	0	179	1
Florida Gulf Coast U.	391	397	197	207	376	0	376	0	0	0
U. Northern Colorado	392	122	149	72	374	85	254	0	35	0
U. Wisconsin-River Falls	393	330	84	ne	373	0	306	0	67	0
Tennessee State U.	394	435	0	0	369	0	23	0	346	0
Nova Southeastern U.	395	0	0	0	359	0	276	0	11	72
California State U., Channel Islands	396	39	301	406	357	0	357	0	0	0
Central State U.	397	6	67	954	352	0	270	0	82	0
California State U., Monterey Bay	398	0	57	446	349	0	349	0	0	0
U. of the Incarnate Word	398	226	298	478	349	0	146	0	203	0
CUNY, Baruch C.	400	297	256	338	347	0	0	0	347	0
Mount Holyoke C.	400	496	550	370	347	95	33	0	215	4
Ursinus C.	402	ne	ne	ne	344	0	197	0	147	0
Arkansas State U., Jonesboro	403	876	665	886	342	0	342	0	0	0
Clafin U.	404	258	129	102	340	0	320	0	20	0
Grand Valley State U.	405	374	247	331	339	0	275	0	64	0
U. of St. Thomas (MN)	406	235	168	340	338	0	338	0	0	0
SUNY, C. Plattsburgh	407	126	137	26	331	0	0	0	331	0
Seattle U.	408	165	86	311	327	0	81	0	246	0
Rhode Island C.	409	361	320	441	326	0	0	0	0	326
Kennesaw State U.	410	1,019	1,133	1,096	323	0	89	0	50	184
U. Wisconsin-La Crosse	411	416	476	299	322	0	220	0	102	0
SUNY, Oswego	412	314	328	450	315	0	278	0	37	0
Texas A&M International U.	413	42	154	275	314	0	136	125	53	0
SUNY, C. Brockport	414	74	103	211	310	92	98	0	120	0
Gallaudet U.	415	5	92	60	308	0	0	0	308	0
Purdue U., Northwest	416	207	110	202	302	0	302	0	0	0
Texas Woman's U.	417	204	7	585	286	0	285	0	0	1
Colorado C.	418	75	154	316	283	19	70	0	194	0
Coastal Carolina U.	419	0	88	209	280	0	105	0	175	0

TABLE 48

Higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Ithaca C.	420	378	379	291	277	0	171	0	106	0
Trinity C., Hartford	421	50	113	147	271	0	242	0	29	0
U. Hawaii, Hilo	422	217	66	376	268	71	63	0	134	0
Central Washington U.	423	306	285	541	267	0	68	0	199	0
U. Guam	424	0	86	131	266	171	0	0	0	95
Texas A&M U.-Kingsville	425	164	213	323	265	0	208	43	14	0
Azusa Pacific U.	426	205	207	176	256	0	74	0	182	0
Providence C.	427	390	99	ne	253	20	233	0	0	0
Loyola Marymount U.	428	233	269	383	252	0	176	0	0	76
U. Puerto Rico, Cayey	429	203	127	61	248	0	30	0	218	0
West Texas A&M U.	430	211	200	258	247	0	247	0	0	0
Sul Ross State U.	431	0	149 i	190 i	231	0	0	0	0	231
Rutgers, State U. New Jersey, Camden	432	354	41	297	229	0	131	0	98	0
Gettysburg C.	433	203	ne	ne	228	0	192	0	36	0
Willamette U.	434	269	179	139	227	0	172	0	55	0
Roger Williams U.	435	101	2	47	224	8	102	0	114	0
U. North Georgia	436	91	2	15	218	2	40	0	176	0
Lewis and Clark C.	437	749	249	246	214	0	210	4	0	0
Hobart and William Smith Colleges	438	175	152	300	211	0	37	0	174	0
New York Institute of Technology	438	0	3	101	211	0	0	0	211	0
U. Houston-Clear Lake	440	403	236	123	206	0	0	0	0	206
Indiana U. Pennsylvania	441	425	364	456	204	0	33	0	171	0
Albion C.	442	422	231 i	217 i	203	203	0	0	0	0
California State U., Stanislaus	442	17	84	117	203	0	110	0	93	0
California State U., Bakersfield	444	91	447	322	202	0	202	0	0	0
Norwich U.	445	ne	ne	ne	200	0	200	0	0	0
St. Olaf C.	446	106	82	ne	196	5	123	0	68	0
U. Wisconsin-Oshkosh	446	288 i	292	398	196	0	150	0	46	0
U. Louisiana, Monroe	448	55	17	247	195	0	195	0	0	0
Claremont McKenna C.	449	144	136	385	191	0	82	0	109	0
CUNY, York C.	450	568	192	172	188	1	187	0	0	0
Augusta U.	451	29	172	266	187	0	187	0	0	0
Fayetteville State U.	452	260	147	165	183 i	0 i	0 i	0 i	0 i	183 i
Ferris State U.	453	ne	ne	ne	179	0	158	0	21	0
Bates C.	454	405	413	330	175	57	43	0	75	0

TABLE 48

Higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. Wisconsin-Green Bay	455	125 i	112 i	156 i	166 i	0 i	81 i	0 i	85 i	0 i
U. South Carolina, Aiken	456	51	9	292	165	0	165	0	0	0
Missouri State U.	457	418	345	291	164	111	53	0	0	0
Dillard U.	458	975	252	158	163	0	0	0	163	0
Sacred Heart U.	459	ne	64	ne	161	0	69	0	39	53
Drake U.	460	ne	221	220	158	0	12	0	146	0
Benedict C.	461	146	ne	ne	149	0	149	0	0	0
Sonoma State U.	462	203	289	62	145	0	145	0	0	0
Connecticut C.	463	350	271	690	144	0	144	0	0	0
Virginia State U.	463	0	0	80	144	0	144	0	0	0
C. of Saint Benedict	465	167 i	108 i	124 i	142 i	0 i	99 i	1 i	42 i	0 i
Saint John's U.	465	132 i	108 i	125 i	142 i	0 i	100 i	0 i	42 i	0 i
Pepperdine U.	467	56	111	89	139	0	138	0	1	0
U. Maryland Center for Environmental Science	468	541	519	1,014	132	0	56	0	76	0
U. New Haven	469	285	323	128	131	0	18	113	0	0
U. Puget Sound	470	252	ne	123	127	0	116	0	5	6
U. Wisconsin-Stevens Point	471	105	61	136	125	0	125	0	0	0
Citadel Military C. South Carolina	472	119	76	184	122	0	50	0	72	0
U. Texas, Tyler	472	33	46	29	122	0	99	0	0	23
Youngstown State U.	472	346	335	366	122	21	66	0	35	0
Black Hills State U.	475	116	103	101	120	0	0	0	120	0
Wheaton C., Wheaton	476	150	148	ne	119	0	104	0	15	0
Fort Valley State U.	477	72	76	83	118	0	118	0	0	0
Elon U.	478	83	59	45	116	1	84	0	31	0
Albany State U.	479	54	102	ne	111	0	111	0	0	0
Langston U.	480	109	28	53	110	0	0	0	0	110
U. Houston-Downtown	480	72	382	88	110	46	0	0	0	64
Canisius U.	482	ne	173	159	108	0	0	0	0	108
Virginia Military Institute	482	ne	ne	112	108	0	92	0	16	0
U. Wisconsin-Platteville	484	101 i	82 i	98 i	107 i	0 i	56 i	0 i	51 i	0 i
Pace U.	485	138	226	100	106	0	106	0	0	0
Western Illinois U.	485	78	68	84	106	0	67	0	39	0
U. Scranton	487	ne	ne	ne	100	0	92	0	5	3
Purdue U., Fort Wayne	488	126	92	76	99	0	95	0	4	0
Austin Peay State U.	489	15	50	89	96	0	1	0	95	0

TABLE 48

Higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Pennsylvania State U., Harrisburg	490	0	0	8	91	0	91	0	0	0
U. of the Pacific	491	307	223	152	88	37	51	0	0	0
Eastern Washington U.	492	66	63	125	86	0	75	0	11	0
Savannah State U.	493	50	34	53	85	0	85	0	0	0
Montana Technological U.	494	123	216	375	83	0	83	0	0	0
Central Connecticut State U.	495	82	73	104	82	0	82	0	0	0
Manhattan C.	496	71	112	140	79	0	79	0	0	0
Pennsylvania State U., Altoona	497	ne	ne	ne	77	0	0	3	74	0
Fairfield U.	498	153	134	ne	76	0	53	0	23	0
St. Edward's U.	499	1,074	1,101	571	70	0	70	0	0	0
U. Alaska, Southeast	500	55	67	44	66	66	0	0	0	0
U. of Mary Washington	501	62	100	117	63	0	2	0	61	0
U.S. Coast Guard Academy	502	ne	ne	ne	62	0	54	0	8	0
U. Hawaii, Maui C.	503	ne	0	ne	61	0	0	61	0	0
Stephen F. Austin State U.	504	36	29	114	60	0	60	0	0	0
U. of Health Sciences and Pharmacy in St. Louis	505	0	0	9	59	0	0	0	59	0
Lawrence Technological U.	506	6	55	148	57	0	0	0	57	0
Western Carolina U.	507	253	45	9	56	33	23	0	0	0
U. Detroit Mercy	508	5	6	0	55	0	55	0	0	0
U. Texas of the Permian Basin	509	24	30	30	51	0	22	0	0	29
Pacific U.	510	120	299	467	49	0	7	0	42	0
SUNY, Buffalo State U.	511	3	0	0	47	0	0	0	47	0
Minnesota State U., Mankato	512	52	29	39	46	33	13	0	0	0
New C. Florida	513	ne	ne	ne	40	0	34	0	6	0
Pittsburg State U.	514	22	24	27	39	0	39	0	0	0
Merrimack C.	515	0	ne	ne	36	27	9	0	0	0
Marian U., Indianapolis	516	ne	ne	ne	33	0	33	0	0	0
Marymount U.	517	ne	88	2	32	0	32	0	0	0
Monmouth U.	517	19	44	110	32	0	1	0	31	0
U. Hartford	517	0	0	8	32	0	7	0	25	0
Lake Superior State U.	520	ne	ne	21	25	0	25	0	0	0
U. Wisconsin-Superior	521	0	0	0	23	0	19	4	0	0
St. Mary's C. Maryland	522	ne	ne	ne	22	0	22	0	0	0
U. Virginia's C. Wise	523	ne	20	44	18	0	18	0	0	0
DePaul U.	524	305	258	13	16	0	15	0	1	0

TABLE 48

Higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Indiana State U.	524	160	89	130	16	0	0	0	16	0
Northern Michigan U.	526	35	10	43	15	0	11	0	4	0
U. Maryland, Eastern Shore	526	1,243	0	0	15	0	0	0	15	0
U. New England	526	26	19	14	15	0	15	0	0	0
Lincoln U.	529	ne	ne	ne	14	0	0	0	14	0
Oregon Health and Science U.	529	0	0	0	14	0	14	0	0	0
U. Baltimore	529	67	45	0	14	0	0	0	0	14
New Mexico Highlands U.	532	541	6 i	9 i	12	0	12	0	0	0
St. Cloud State U.	532	15	13	19	12	5	5	0	2	0
U. Puerto Rico, Ponce	534	ne	ne	ne	9	0	9	0	0	0
Alfred U.	535	7	5	16	8	8	0	0	0	0
Eastern Connecticut State U.	536	0	5	7	7	0	6	0	1	0
Florida Polytechnic U.	536	76	71	4	7	0	7	0	0	0
Robert Morris U.	536	ne	ne	6 i	7	0	0	0	7	0
U. of the District of Columbia	536	0	0	0	7	0	7	0	0	0
Lipscomb U.	540	0 i	0	ne	6	0	6	0	0	0
Framingham State U.	541	247	205 i	105 i	5	0	5	0	0	0
La Sierra U.	542	1	1	1	1 i	0 i	0 i	0 i	1 i	0 i
William Paterson U.	542	361	140	124	1	0	1	0	0	0
All other surveyed institutions	-	32,857	30,638	30,704	0	0	0	0	0	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified.

^a Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$296,755 thousand imputed for total R&D expenditures in physical sciences in FY 2023. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^c The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

^d The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

^e The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 49

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
All institutions	-	3,789,953	3,846,606	4,211,858	4,621,763	659,781	1,413,489	205,797	2,123,118	219,578
Johns Hopkins U. ^a	1	372,067	321,641	300,741	318,657	20,704	25,138	3,130	248,916	20,769
California Institute of Technology	2	178,896	160,456	181,341	160,855	51,376	22,744	0	81,849	4,886
U. California, Berkeley	3	84,023	90,707	134,927	157,546	118,279	27,813	0	7,112	4,342
Michigan State U.	4	100,092	122,143	133,138	154,210	65	9,393	0	144,752	0
U. Colorado Boulder	5	106,414	111,234	127,772	146,786	58,334	9,936	0	71,502	7,014
Massachusetts Institute of Technology	6	105,097	114,108	127,635	132,434	33,267	23,384	3,788	56,056	15,939
U. Rochester	7	94,572	92,680	103,745	117,139	0	6,196	0	110,943	0
Cornell U.	8	96,374	93,608	94,346	105,708	9,890	21,632	1,980	42,061	30,145
U. Maryland ^b	9	81,584	83,425	86,830	102,096	45,793	6,534	7,215	33,004	9,550
U. Arizona	10	77,135	73,148	75,484	87,271	72,986	6,796	1,996	5,493	0
Stanford U.	11	68,199	72,190	74,962	78,192	3,437	26,366	8,903	37,003	2,483
U. Texas, Austin	12	56,570	59,786	65,599	76,105	8,056	9,496	42,153	16,400	0
U. Wisconsin-Madison	13	58,512	60,580	65,819	73,094	2,731	23,545	0	27,280	19,538
U. California, San Diego	14	49,002	54,485	67,979	70,946	4,935	30,706	0	22,834	12,471
Harvard U.	15	55,363	59,262	66,072	65,331	5,981	19,797	3,711	34,387	1,455
U. Washington, Seattle	16	52,913	52,053	56,218	63,604	7,508	26,560	1,424	23,796	4,316
U. Chicago	17	43,904	47,425	59,248	61,355	12,850	29,008	4,930	14,173	394
Princeton U.	18	60,336	56,283	58,459	59,526	26,983	13,834	0	18,686	23
Pennsylvania State U., University Park and Hershey Medical Center	19	54,776	53,869	53,722	58,927	9,966	11,765	15,174	22,022	0
U. Illinois, Urbana-Champaign	20	49,164	49,944	51,602	57,753	4,961	21,096	0	31,688	8
U. Iowa	21	18,913	28,692	50,134	57,100	1,055	4,319	0	51,726	0
Northwestern U.	22	46,669	49,661	50,617	53,306	2,037	23,314	15,370	10,597	1,988
Florida State U.	23	42,211	37,224	40,242	52,655	209	12,918	4,095	35,433	0
U. Pennsylvania	24	38,206	39,630	46,353	49,316	3	18,079	13,059	18,175	0
U. California, Santa Barbara	25	36,695	34,841	48,512	47,290	2,454	6,841	11,309	18,547	8,139
U. California, Los Angeles	26	37,430	36,246	42,141	44,032	0	19,114	0	24,918	0
U. Michigan, Ann Arbor	27	35,572	38,670	39,773	42,501	3,789	20,730	0	17,982	0
Columbia U. in the City of New York	28	31,519	40,994	43,442	41,677	10,301	12,365	2,394	16,617	0
U. California, San Francisco	29	41,413	37,312	42,570	41,585	0	41,585	0	0	0
SUNY, Stony Brook U.	30	30,902	33,285	34,829	38,023	2,170	11,308	0	24,545	0
Yale U.	31	28,840	29,641	33,421	37,212	831	19,638	0	16,743	0
U. Notre Dame	32	28,853	29,976	29,426	37,066	0	22,306	0	14,760	0
U. Minnesota, Twin Cities	33	32,576	32,702	32,029	33,927	1,977	13,527	0	18,423	0
Purdue U., West Lafayette	34	21,579	24,204	27,908	32,897	0	18,651	0	14,246	0

TABLE 49

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. North Carolina, Chapel Hill	35	27,083	25,924	34,295	32,265	888	20,298	0	8,245	2,834
Texas A&M U., College Station and Health Science Center	36	21,208	22,946	27,656	31,816	1,151	11,935	4,438	13,326	966
Catholic U. of America	37	17,261	18,569	23,076	30,887	0	3	0	27,081	3,803
U. California, Irvine	38	26,725	24,451	28,779	30,228	0	17,070	0	13,158	0
U. Florida	39	16,445	17,471	21,896	28,674	1,457	16,093	0	11,124	0
U. Central Florida	40	18,837	20,915	22,509	28,344	0	2,608	0	25,736	0
U. Delaware	41	19,931	21,099	26,652	28,042	1,397	8,964	11,988	5,693	0
Arizona State U.	42	12,385	14,065	14,612	27,453	0	5,406	0	9,450	12,597
Ohio State U.	43	44,079	30,584	27,702	27,100	2,203	6,686	100	18,111	0
U. Nebraska, Lincoln and Medical Center ^c	44	na	na	na	26,970	0	8,922	0	18,048	0
Boston U.	45	20,726	23,002	24,802	26,252	1,621	11,916	0	12,715	0
Washington U., Saint Louis	46	18,393	20,017	21,448	25,365	0	9,328	7,184	8,853	0
Duke U.	47	19,178	19,826	20,898	25,284	0	13,439	0	11,845	0
Georgia Institute of Technology	48	22,417	22,213	22,817	24,326	0	16,390	0	7,936	0
U. California, Davis	49	17,230	17,078	23,183	23,211	0	11,408	0	8,183	3,620
Iowa State U.	50	17,815	20,463	23,640	23,112	0	12,091	0	11,021	0
Northeastern U.	51	13,194	16,081	17,077	23,066	0	10,150	0	12,916	0
U. California, Santa Cruz	52	17,723	16,115	19,002	22,072	5,244	10,702	0	6,051	75
Rice U.	53	16,313	17,271	18,067	21,939	1,003	8,899	93	11,944	0
Montana State U., Bozeman	54	10,794	16,551	13,784	21,673	0	5,006	0	16,667	0
U. Maryland, Baltimore County	55	17,092	17,339	17,591	21,603	15,027	3,075	152	3,349	0
U. Pittsburgh, Pittsburgh	56	17,786	16,509	19,723	21,533	1,374	10,990	0	9,169	0
U. Utah	57	19,006	19,543	17,611	20,854	0	14,811	0	6,043	0
U. Illinois, Chicago	58	10,533	12,875	15,452	20,200	0	7,331	0	12,869	0
U. Virginia, Charlottesville	59	19,333	20,408	20,481	19,880	2,860	8,202	0	8,818	0
Florida International U.	60	11,642	14,476	18,951	19,452	0	16,789	0	2,657	6
New York U.	61	18,606	19,664	17,913	18,882	0	10,116	0	8,766	0
U. Massachusetts, Amherst	62	18,261	15,054	16,202	18,832	4,406	8,193	0	6,233	0
Indiana U., Bloomington	63	21,233	19,340	19,586	18,516	488	11,063	0	6,965	0
North Carolina State U.	64	13,657	15,032	16,847	16,937	0	8,771	0	8,108	58
Vanderbilt U. and Vanderbilt U. Medical Center	65	15,195	15,636	16,621	16,670	0	9,763	0	6,907	0
Emory U.	66	15,380	18,181	17,121	16,167	0	12,978	0	3,189	0
Colorado State U., Fort Collins	67	7,884	10,355	12,006	16,078	0	9,720	1,010	4,966	382
U. Tennessee, Knoxville	68	12,121	11,804	13,906	15,806	0	5,308	0	10,498	0
U. Hawaii, Manoa	69	19,021	16,519	14,059	15,748	9,642	2,033	0	4,068	5

TABLE 49

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Virginia Polytechnic Institute and State U.	70	13,854	13,944	14,686	15,624	310	9,822	360	5,006	126
U. California, Riverside	71	14,276	14,667	15,648	15,451	0	8,960	0	6,491	0
Colorado School of Mines	72	9,353	9,963	11,243	15,408	345	3,534	5,405	5,660	464
Carnegie Mellon U.	73	11,165	11,139	13,327	15,023	1,103	5,469	1,838	6,558	55
U. Alabama, Huntsville	74	9,595	10,716	13,902	14,689	13,290	28	0	1,360	11
Louisiana State U., Baton Rouge	75	13,295	13,940	12,932	14,676	0	5,919	0	8,594	163
U. Oregon	76	9,034	9,747	10,590	14,369	0	8,287	359	3,093	2,630
Wayne State U.	77	9,101	12,051	12,936	14,149	0	8,923	0	2,895	2,331
Washington State U.	78	14,813	16,946	14,433	13,980	317	4,277	1,914	7,374	98
U. Kansas	79	6,488	12,448	12,742	13,648	679	9,418	0	3,551	0
U. Southern California	80	13,605	13,175	13,210	13,375	4,854	8,521	0	0	0
Rutgers, State U. New Jersey, New Brunswick	81	12,991	13,160	13,707	13,191	924	3,310	588	8,320	49
U. Arkansas, Fayetteville	82	4,452	4,371	6,309	13,005	0	2,635	11	9,144	1,215
Brown U.	83	11,133	11,410	11,868	12,798	0	4,037	0	7,048	1,713
U. Massachusetts, Lowell	84	11,202	11,048	11,112	12,222	0	1,278	0	10,944	0
Temple U.	85	10,820	10,707	10,386	12,195	0	5,601	0	3,180	3,414
U. Texas M. D. Anderson Cancer Center	86	8,114	8,179	8,306	11,861	0	0	0	11,861	0
U. Connecticut	87	8,124	7,346	8,473	11,828	0	6,103	0	5,725	0
U. Oklahoma, Norman and Health Science Center	88	11,446	8,751	11,218	11,345	0	7,361	0	3,984	0
West Virginia U.	89	8,805	8,900	8,912	11,286	2,327	3,148	0	5,811	0
Syracuse U.	90	7,140	8,073	8,255	11,176	0	3,413	0	7,763	0
U. Texas, Dallas	91	9,295	9,314	9,735	11,068	4,176	3,019	0	3,867	6
Georgia State U.	92	13,754	10,035	10,406	10,931	2,689	4,782	0	3,460	0
U. Texas, Arlington	93	8,422	8,778	11,568	10,808	0	2,466	0	8,342	0
Brandeis U.	94	7,218	6,779	9,444	10,317	4,325	3,148	533	2,311	0
U. New Mexico	95	7,146	6,179	8,996	10,132	1,176	2,707	0	6,249	0
SUNY, U. Buffalo	96	7,195	8,075	8,088	9,997	0	7,601	0	2,396	0
U. Southern Mississippi	97	8,527	11,564	11,417	9,823	0	9,325	0	0	498
Boston C.	98	7,098	8,597	9,471	9,802	0	6,854	0	2,948	0
Dartmouth C. and Dartmouth Hitchcock Medical Center	99	7,751	9,181	10,411	9,680	0	4,589	0	5,091	0
U. Alaska, Fairbanks	100	9,919	11,116	9,045	9,443	8,834	73	0	244	292
Rochester Institute of Technology	101	7,787	8,426	9,087	9,434	0	560	0	3,363	5,511
Auburn U., Auburn	102	6,866	6,649	7,721	9,293	772	2,635	205	5,600	81
U. Houston	103	6,336	6,931	8,607	9,287	293	4,355	531	3,424	684
CUNY, City C.	104	7,007	7,213	9,999	9,283	0	5,331	0	3,952	0

TABLE 49

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Kansas State U.	105	8,746	9,082	9,933	9,127	0	1,805	0	7,322	0
U. Toledo	106	5,136	7,627	9,009	8,941	905	2,384	0	5,644	8
U. Mississippi	107	7,993	7,712	7,655	8,722	0	1,997	0	6,725	0
New Jersey Institute of Technology	108	8,354	8,145	8,524	8,613	6,369	1,039	0	1,205	0
Tufts U.	109	6,118	8,268	9,794	8,160	524	5,982	859	560	235
Clemson U.	110	6,157	6,037	7,828	8,075	0	2,897	0	5,178	0
U. Alabama, Tuscaloosa	111	4,720	4,913	5,722	7,960	271	5,109	0	2,580	0
North Dakota State U.	112	2,853	6,937	6,438	7,949	0	2,365	5,450	134	0
Georgetown U.	113	7,424	8,304	10,109	7,924	0	2,355	0	5,503	66
U. Missouri, Columbia	114	7,654	6,710	6,664	7,860	0	5,281	0	2,579	0
U. Nevada, Reno	115	4,702	4,912	5,829	7,666	0	3,850	434	3,382	0
Xavier U. Louisiana	116	7,077	8,325	7,504	7,608	0	7,608	0	0	0
New Mexico State U.	117	18,373	14,524	7,819	7,413	4,224	848	0	1,541	800
California State U., Northridge	118	4,750	6,665	6,308	7,252	415	1,056	0	1,348	4,433
U. Kentucky	119	6,785	7,061	7,897	7,162	0	4,205	0	2,957	0
Air Force Institute of Technology	120	4,973	8,037	8,136	7,070	0	0	0	7,070	0
Oregon State U.	121	4,523	4,453	5,326	7,052	162	1,505	545	4,827	13
New Mexico Institute of Mining and Technology	122	1,348	1,139	1,645	6,995	0	0	0	6,995	0
Jackson State U.	123	9,305	7,625	6,788	6,754	0	4,213	0	2,541	0
SUNY, Binghamton U.	124	7,642	5,541	5,229	6,688	0	5,542	0	1,146	0
U. Montana, Missoula	125	5,428	6,313	5,843	6,654	0	1,762	0	292	4,600
U. Texas, El Paso	126	4,257	4,537	5,077	6,551	0	4,691	0	1,860	0
U. Cincinnati	127	4,041	4,501	5,296	6,422	0	3,743	0	2,679	0
U. Wisconsin-Milwaukee	128	5,010	7,800	7,058	6,420	4,448	1,132	0	840	0
U. Nevada, Las Vegas	129	4,073	4,170	4,861	6,399	617	3,165	0	2,617	0
Embry-Riddle Aeronautical U.	130	1,859	2,482	4,744	6,290	14	0	0	279	5,997
CUNY, Advanced Science Research Center	131	3,018	4,719	7,392	6,092	0	1,940	0	4,152	0
U. Miami	132	4,172	4,482	5,415	5,934	0	1,971	0	3,963	0
Old Dominion U.	133	4,601	4,475	5,033	5,894	0	2,362	0	3,532	0
George Mason U.	134	4,656	3,561	5,050	5,856	3,077	1,022	1,253	447	57
Mississippi State U.	135	2,267	2,399	4,142	5,802	17	1,498	2,363	1,924	0
Howard U.	136	4,381	4,733	4,953	5,764	1,633	3,694	0	437	0
George Washington U.	137	5,366	4,872	5,637	5,740	0	1,853	0	3,887	0
San Diego State U.	138	2,992	2,931	4,613	5,712	421	4,438	0	853	0
William & Mary	139	4,428	4,140	4,946	5,641	0	561	0	5,080	0

TABLE 49

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. North Dakota	140	739	703	1,540	5,282	0	1,335	0	3,947	0
Rensselaer Polytechnic Institute	141	4,184	4,033	4,338	5,155	0	4,013	0	1,142	0
North Carolina Central U.	142	2,888	2,990	4,596	5,092	i	382	i	4,710	i
U. Texas, San Antonio	143	4,702	5,338	5,547	5,045	0	2,356	0	2,689	0
Northern Illinois U.	144	3,713	3,668	4,712	4,986	0	1,903	0	3,083	0
Boise State U.	145	2,678	4,976	4,686	4,961	132	774	3,613	442	0
U. Georgia	146	4,815	4,936	4,090	4,938	448	3,667	0	823	0
U. North Carolina, Charlotte	147	2,878	2,577	2,574	4,854	0	2,426	0	2,428	0
U. Akron	148	4,238	4,026	4,811	4,844	0	4,844	0	0	0
U. California, Merced	149	4,891	2,865	4,363	4,779	0	1,783	0	2,586	410
Delaware State U.	150	1,595	i	1,833	4,727	101	1,015	6	3,605	0
Kent State U.	151	3,715	3,843	3,722	4,710	160	1,204	748	2,421	177
U. Puerto Rico, Rio Piedras	152	3,427	4,104	4,386	4,606	80	3,052	0	1,474	0
Texas Tech U.	153	4,217	4,067	4,026	4,550	0	2,401	288	1,861	0
Northern Arizona U.	154	3,147	3,885	3,894	4,508	2,881	46	111	718	752
Case Western Reserve U.	155	7,203	7,538	7,764	4,507	176	2,419	0	1,912	0
CUNY, Hunter C.	156	3,552	4,840	4,191	4,500	0	3,048	0	1,303	149
Baylor U.	157	2,110	2,661	3,708	4,451	25	2,792	393	1,241	0
U. South Florida ^d	158	5,306	4,803	5,335	4,431	0	2,324	0	1,777	330
Brigham Young U., Provo	159	4,133	4,414	5,323	4,348	0	1,783	0	2,565	0
U. North Carolina, Greensboro	160	2,612	2,761	4,149	4,306	0	2,553	1,753	0	0
U. Alabama, Birmingham	161	3,934	4,292	3,395	4,247	0	1,511	4	2,732	0
Utah State U.	162	3,982	3,395	3,837	4,246	0	2,046	0	2,200	0
Tulane U.	163	3,343	3,041	3,091	4,173	0	1,990	0	2,183	0
Ohio U.	164	3,467	4,143	4,370	4,116	0	360	0	3,756	0
Lehigh U.	165	2,166	2,534	3,322	4,084	0	1,757	0	2,327	0
Naval Postgraduate School	166	8,513	5,658	4,668	4,038	0	647	88	2,580	723
Oklahoma State U., Stillwater	167	2,870	2,640	3,379	3,955	0	2,020	0	1,935	0
Texas State U.	168	1,798	2,774	2,960	3,905	0	2,938	0	967	0
Hampton U.	169	3,142	3,409	4,282	3,898	0	342	0	3,556	0
California State U., Los Angeles	170	4,255	4,085	4,910	3,807	0	3,516	0	291	0
SUNY, U. Albany	171	3,917	3,663	2,984	3,759	0	3,039	0	720	0
Virginia Commonwealth U.	172	2,194	2,348	2,560	3,547	0	2,408	0	1,139	0
Miami U.	173	408	2,638	2,078	3,444	0	2,978	0	209	257
American U.	174	3,401	3,136	3,078	3,433	0	342	0	3,091	0

TABLE 49

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
South Dakota School of Mines and Technology	175	1,384	1,504	2,305	3,214	0	1,399	0	1,815	0
Morgan State U.	176	393	759	2,225	3,173	0	745	0	2,384	44
U. North Texas, Denton	177	2,329	2,696	3,134	3,162	0	2,115	0	1,047	0
North Carolina A&T State U.	178	1,163	1,125	1,996	3,084	0	1,616	0	1,468	0
U. Rhode Island	179	2,579	2,203	2,698	3,062	0	2,057	0	155	850
Missouri U. of Science and Technology	180	4,591	2,652	2,838	3,055	0	2,300	0	755	0
Clark Atlanta U.	181	1,422	1,407	2,379	2,956	0	2,826	0	130	0
Saint Louis U.	182	1,302	1,237	2,088	2,955	0	2,955	0	0	0
California State U., San Bernardino	183	1,448	1,809	2,413	2,947	0	1,951	40	956	0
U. New Hampshire	184	3,335	2,355	2,402	2,846	0	1,045	389	1,412	0
Rutgers, State U. New Jersey, Newark	185	1,436	2,020	2,906	2,839	0	2,320	0	519	0
U. Maine	186	1,868	2,289	2,278	2,820	0	0	0	2,820	0
Morehouse C.	187	1,517	1,831	2,393	2,813	0	390	0	354	2,069
Worcester Polytechnic Institute	188	1,603	2,171	1,869	2,787	0	1,408	0	1,379	0
Southern Methodist U.	189	2,855	3,420	3,652	2,774	0	1,050	0	1,724	0
Rockefeller U.	190	2,882	3,581	2,185	2,713	0	2,534	0	179	0
San Jose State U.	191	2,035	2,129	2,376	2,663	0	1,180	0	1,167	316
CUNY, Lehman C.	192	2,021	1,964	2,487	2,603	537	2,066	0	0	0
California State U., Long Beach	193	2,502	2,574	2,698	2,589	435	2,122	32	0	0
Illinois Institute of Technology	194	2,734	2,909	3,072	2,552	0	131	0	2,421	0
Indiana U.-Purdue U., Indianapolis	195	1,374	1,871	1,998	2,535	0	1,527	0	1,008	0
Troy U.	196	1,216	1,094	1,910	2,525	0	0	2,525	0	0
CUNY, Brooklyn C.	197	845	1,297	1,779	2,491	0	2,115	0	376	0
U. Wyoming	198	1,206	1,748	1,541	2,469	362	1,036	54	983	34
U. South Dakota	199	1,968	1,754	1,877	2,467	0	1,158	0	1,309	0
Oakland U.	200	1,852	2,062	2,522	2,411	0	1,135	0	1,276	0
South Dakota State U.	201	1,058	1,448	1,312	2,403	0	2,295	0	108	0
Stevens Institute of Technology	202	1,648	1,500	1,257	2,206	0	735	267	1,204	0
Florida A&M U.	203	1,366	1,344	1,874	2,169	0	83	0	2,086	0
U. Texas Rio Grande Valley	203	2,215	1,083	1,299	2,169	873	67	114	1,115	0
Tuskegee U.	205	166	169	1,910	2,135	0	40	1,944	151	0
Rowan U.	206	407	1,404	1,309	2,031	52	1,655	0	322	2
Western Washington U.	207	989	1,321	1,629	2,021	269	1,506	246	0	0
Central Michigan U.	208	2,044	1,814	2,053	1,960	432	34	69	1,425	0
U.S. Naval Academy	209	2,096	1,499	1,515	1,959	0	807	0	1,152	0

TABLE 49

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. Massachusetts, Boston	210	2,239	2,420	1,793	1,925	0	1,498	0	427	0
Fisk U.	211	212	1,525	1,693	1,879	0	80	437	1,362	0
U. Puerto Rico, Mayaguez	212	904	687	1,280	1,857	0	1,214	95	548	0
Florida Atlantic U.	213	1,317	1,135	1,498	1,837	195	1,076	0	566	0
U. Vermont	214	2,710	2,061	2,302	1,828	0	1,201	0	627	0
U. Colorado Denver ^e	215	na	1,561	1,798	1,809	0	1,301	0	508	0
Illinois State U.	216	511	923	1,219	1,711	0	1,020	0	691	0
Texas Southern U.	217	1,069	1,036	874	1,673	0	996	0	416	261
U.S. Air Force Academy	218	2,714	2,348	2,175	1,669	1,094	0	0	575	0
Wichita State U.	219	912	853	1,037	1,658	0	1,048	0	610	0
Clarkson U.	220	767	422	1,636	1,653	0	935	0	150	568
Villanova U.	221	1,658	1,412	1,467	1,634	499	430	0	705	0
Drexel U.	222	1,582	1,429	1,597	1,615	0	433	0	1,182	0
U. Puerto Rico, Humacao	223	922	899	1,014	1,600	217	420	867	96	0
Michigan Technological U.	224	1,282	1,248	1,659	1,591	0	977	0	614	0
Wesleyan U.	225	1,540	1,429	1,542	1,567	303	822	0	442	0
Chicago State U.	226	ne	ne	1,339	1,534	0	531	0	1,003	0
California Polytechnic State U., San Luis Obispo	227	1,202	932	1,347	1,523	0	451	0	1,072	0
Chapman U.	228	1,655	936	1,434	1,511	0	510	0	112	889
Barnard C.	229	805	1,246	1,411	1,485	795	690	0	0	0
Wake Forest U.	230	1,499	1,470	1,310	1,482	0	383	0	1,099	0
CUNY, Queens C.	231	1,041	1,475	1,488	1,455	0	1,148	0	307	0
U. Denver	232	3,373	2,532	2,877	1,452	67	981	79	325	0
U. Louisville	233	1,446	1,406	1,481	1,382	76	1,002	37	96	171
James Madison U.	234	531	919	1,195	1,367	157	817	0	204	189
Florida Institute of Technology	235	2,109	2,448	951	1,343	299	203	0	725	116
U. South Carolina, Columbia	236	2,264	1,467	1,401	1,336	0	0	0	1,336	0
California State Polytechnic U., Pomona	237	1,393	1,105	1,229	1,329	1,123	205	0	1	0
Creighton U.	238	806 i	881 i	1,234 i	1,302 i	0 i	458 i	0 i	844 i	0 i
Texas A&M U.-Corpus Christi	239	1,250	808	1,169	1,297	0	49	0	0	1,248
Prairie View A&M U.	240	489	807	1,881	1,287	0	687	470	130	0
Portland State U.	241	1,937	1,462	1,762	1,285	0	1,255	0	30	0
U. Idaho	242	771	831	1,224	1,265	823	152	92	198	0
Southern Illinois U., Carbondale	243	1,270	1,081	1,027	1,263	58	729	0	445	31
East Carolina U.	244	1,135	1,387	1,216	1,260	0	1,004	0	256	0

TABLE 49

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Marquette U.	245	1,649	2,614	1,620	1,259	0	1,053	0	206	0
Marshall U.	246	99	155	1,068	1,229	0	1,206	0	23	0
Christopher Newport U.	247	571	546	690	1,220	0	20	0	1,200	0
Loyola U., Chicago	248	610	716	1,253	1,188	0	990	0	198	0
California State U., Fresno	249	868	1,192	1,984	1,180	0	1,035	0	145	0
U. North Carolina, Wilmington	250	336	419	615	1,178	0	85	0	0	1,093
Bowling Green State U.	251	1,331	1,402	1,145	1,173	0	744	110	319	0
San Francisco State U.	252	1,206	1,218	1,106	1,151	238	350	0	563	0
U. of the Virgin Islands	253	908	1,069	1,130	1,130	0	0	0	0	1,130
CUNY, C. Staten Island	254	770	478	955	1,114	0	1,022	0	92	0
U. Memphis	255	1,100	1,309	1,018	1,096	98	762	78	158	0
Norfolk State U.	256	726	763	1,051	1,051	0	0	0	1,051	0
Haverford C.	257	2,259	2,216	2,070	1,024	278	131	401	214	0
California State U., Fullerton	258	1,003	1,058	1,108	989	549	120	102	218	0
Alabama A&M U.	259	481	596	739	978	0	442	0	536	0
California State U., San Marcos	260	1,667	1,060	981	976	0	0	0	677	299
Montclair State U.	261	263	466	845	956	47	823	0	86	0
SUNY, Geneseo	262	624	888	1,108	955	0	240	0	715	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	263	844	838	741	945	0	363	0	582	0
Seton Hall U.	264	401	396	722	939	0	708	0	231	0
U. West Florida	265	1,049	1,014	1,012	904	0	0	0	0	904
California State U., Dominguez Hills	266	393	317	1,019	892	0	0	0	892	0
U. North Carolina, Asheville	267	687	443	672	864	153	155	0	7	549
Ball State U.	268	315	449	497	857	0	815	0	42	0
Abilene Christian U.	269	ne	712	905	836	0	0	0	836	0
Furman U.	269	358	523	768	836	0	835	0	1	0
Middle Tennessee State U.	271	412	1,769	945	833	26	702	0	105	0
U. Northern Iowa	272	796	894	848	831	0	666	0	165	0
U. New Orleans	273	782	1,171	771	825	0	426	0	399	0
Western Kentucky U.	274	1,072	717	1,058	820	0	302	0	518	0
U. South Alabama	275	363	499	479	816	0	638	0	178	0
U. Washington, Bothell	276	156	681	1,152	808	0	0	0	766	42
U. Missouri, Kansas City	277	1,102	1,104	969	800	179	319	0	302	0
Texas Christian U.	278	388	321	356	776	91	274	0	411	0
Spelman C.	279	713	523	410	774	0	640	0	134	0

TABLE 49

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Wellesley C.	280	251	286	157	764	42	722	0	0	0
Amherst C.	281	892	476	797	755	120	165	0	470	0
Texas A&M U.-Commerce	282	746	834	891	753	0	96	0	657	0
Trinity U.	283	604	586	620	721	40	535	0	146	0
U. Arkansas, Pine Bluff	284	418	895	296	716	0	716	0	0	0
Fort Lewis C.	285	435	786	733	693	0	60	619	14	0
California State U., East Bay	286	444	543	580	683	188	0	0	495	0
U. San Diego	287	837	658	443	680	0	283	0	397	0
Occidental C.	288	340	522	583	660	0	580	0	80	0
CUNY, Graduate Center	289	435	518	0	659	0	0	0	10	649
CUNY, John Jay C. of Criminal Justice	290	405	235	618	651	0	383	0	0	268
SUNY, C. of Environmental Science and Forestry	291	136	303	443	645	231	400	0	0	14
Southern Illinois U., Edwardsville	292	231	315	361	635	0	259	0	376	0
U. North Florida	293	374	352	436	630	0	322	0	308	0
West Chester U. Pennsylvania	294	73	135	252	620	50	392	0	178	0
Tougaloo C.	295	361	359	537	608	0	385	0	223	0
Hope C.	296	648	1,276	947	601	0	442	0	159	0
Swarthmore C.	297	366	655	486	600	106	348	0	146	0
U. Wisconsin-Eau Claire	298	456	641	438	585	20	474	91	0	0
Wright State U.	299	1,369	1,268	1,011	582	0	18	0	564	0
Cleveland State U.	300	716	313	394	580	0	357	0	223	0
Clark U.	301	747	717	719	579	0	285	0	294	0
Middlebury C.	302	388	644	547	569	0	274	0	295	0
Reed C.	303	150	159	492	557	0	353	0	204	0
Winston-Salem State U.	304	496	871	786	551	0	551	0	0	0
Southern Connecticut State U.	305	579	333	232	548	511	0	0	37	0
Macalester C.	306	149	335	505	547	40	507	0	0	0
CUNY, New York City C. of Technology	307	200	319	710	543	0	44	0	499	0
South Carolina State U.	308	414	456	498	541	0	0	0	541	0
Franklin and Marshall C.	309	350	415	508	529	55	383	0	91	0
Louisiana Tech U.	310	323	378	392	528	0	205	0	323	0
Pomona C.	311	490	263	522	523	60	308	0	155	0
U. Massachusetts, Dartmouth	312	275	485	437	520	0	485	0	35	0
C. Charleston	313	573	847	474	514	180	0	266	68	0
Santa Clara U.	314	445	454	535	509	0	307	0	202	0

TABLE 49

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. Missouri, Saint Louis	315	1,229	1,007	683	504	101	329	0	74	0
Appalachian State U.	316	172	171	434	497	0	337	0	160	0
Duquesne U.	317	664	426	441	494	0	410	0	84	0
Idaho State U.	318	889	1,034	647	482	0	245	0	237	0
Utah Valley U.	319	ne	ne	494	471	0	240	0	231	0
Tennessee Technological U.	320	914	672	446	467	0	216	0	251	0
Bucknell U.	321	604	i 592	929	462	31	220	0	211	0
C. New Jersey	322	354	351	840	455	0	270	0	185	0
Bowdoin C.	323	184	252	328	447	0	258	0	169	20
U. Nebraska, Omaha	324	0	47	99	446	0	0	0	446	0
Kenyon C.	325	194	ne	279	438	0	0	0	438	0
U. Tulsa	326	114	125	531	433	0	199	0	234	0
Bryn Mawr C.	327	388	325	636	432	0	112	0	320	0
Eastern Kentucky U.	328	61	115	ne	423	0	273	0	150	0
U. Arkansas, Little Rock	328	828	590	284	423	0	361	0	62	0
Saint Joseph's U.	330	0	0	456	422	0	422	0	0	0
California State U., Sacramento	331	196	130	213	419	0	254	0	165	0
Yeshiva U.	331	286	253	682	419	0	0	0	419	0
Grinnell C.	333	410	124	43	412	51	361	0	0	0
Murray State U.	334	155	141	240	410	0	401	0	9	0
U.S. Military Academy	335	814	338	178	408	0	19	389	0	0
East Tennessee State U.	336	315	134	192	397	296	101	0	0	0
Southern U. and A&M C., Baton Rouge	337	466	292	186	395	0	112	0	283	0
Calvin U.	338	245	i 245	i 246	393	29	178	0	0	186
U. Richmond	339	286	280	346	392	0	270	0	122	0
Colgate U.	340	248	259	686	389	14	103	0	272	0
Sam Houston State U.	341	414	298	189	387	0	246	0	141	0
Towson U.	342	187	300	493	386	20	196	0	170	0
Andrews U.	343	191	174	ne	377	377	0	0	0	0
Oberlin C.	343	262	190	ne	377	15	238	0	124	0
U. Minnesota, Duluth	345	303	337	315	376	0	114	0	262	0
Tennessee State U.	346	137	0	i 0	369	0	23	0	346	0
Skidmore C.	347	250	557	318	367	0	353	0	14	0
U. Dayton	348	849	820	680	361	0	18	136	207	0
Smith C.	349	264	334	315	359	11	188	0	160	0

TABLE 49

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023												
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec							
Carleton C.	350	248	230	245	358	i	16	i	229	i	0	i	113	i	0	i	
Harvey Mudd C.	350	297	257	399	358		0		121		0		237		0		
Central State U.	352	6	67	954	352		0		270		0		82		0		
Lafayette C.	352	299	231	407	352		0		84		0		268		0		
Pennsylvania State U., Behrend	354	31	138	78	350		0		20		231		99		0		
U. Wisconsin-River Falls	355	258	60	ne	348		0		286		0		62		0		
CUNY, Baruch C.	356	296	253	330	347		0		0		0		347		0		
Claflin U.	357	258	129	102	340		0		320		0		20		0		
Georgia Southern U.	357	607	580	393	340		36		270		0		34		0		
U. Nebraska, Kearney	357	142	130	131	340		0		130		0		210		0		
Eastern Michigan U.	360	126	98	173	338		151		165		22		0		0		
U. Central Arkansas	361	490	375	273	337		5		325		0		7		0		
California State U., Monterey Bay	362	0	57	431	333		0		333		0		0		0		
C. Wooster	363	126	271	i	391		0		221		0		108		0		
Davidson C.	363	157	245	317	329		0		192		0		137		0		
Rhode Island C.	365	356	320	441	326		0		0		0		0		326		
Butler U.	366	ne	ne	105	317		0		317		0		0		0		
U. Alaska, Anchorage	367	154	1,010	315	310		166		116		0		28		0		
Williams C.	368	253	i	268	i	273	i	309	i	174	i	0	i	101	i	0	i
U. of the Incarnate Word	369	176	298	407	300		0		97		0		203		0		
Colby C.	370	299	184	197	294		96		156		0		42		0		
St. John's U., New York	371	325	304	418	280		0		280		0		0		0		
Gustavus Adolphus C.	372	ne	ne	ne	279		0		279		0		0		0		
Texas A&M International U.	372	38	101	186	279		0		101		125		53		0		
U. Colorado Anschutz Medical Campus ^e	372	na	344	353	279		0		0		0		279		0		
SUNY, C. Plattsburgh	375	110	107	26	270		0		0		0		270		0		
U. Guam	376	0	86	131	266		171		0		0		0		95		
Winthrop U.	377	231	316	350	264		0		264		0		0		0		
Vassar C.	378	160	138	61	259		170		89		0		0		0		
Mount Holyoke C.	379	471	434	322	256		95		0		0		161		0		
Northern Kentucky U.	380	514	401	633	255		0		199		0		56		0		
Grand Valley State U.	381	350	172	248	253		0		253		0		0		0		
Central Washington U.	382	255	213	517	251		0		52		0		199		0		
Providence C.	383	372	67	ne	248		20		228		0		0		0		
Lamar U.	384	20	49	30	244		0		57		0		187		0		

TABLE 49

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Southeastern Louisiana U.	385	179	145	263	242	0	153	0	89	0
U. Colorado Colorado Springs	386	69	131	314	240	0	142	0	97	1
Kennesaw State U.	387	558	427	381	234	0	0	0	50	184
Whitman C.	387	241	ne	194	234	0	234	0	0	0
Indiana U., South Bend	389	ne	256	ne	232	0	14	0	218	0
California State U., Chico	390	150	166	155	230	0	0	0	230	0
Ursinus C.	391	ne	ne	ne	227	0	85	0	142	0
SUNY, Oswego	392	182	228	377	222	0	222	0	0	0
U. Central Oklahoma	392	651 i	683 i	200 i	222 i	0 i	123 i	0 i	99 i	0 i
Arkansas State U., Jonesboro	394	753	537	706	221	0	221	0	0	0
U. Louisiana, Lafayette	395	208	3,392	194	215	75	70	0	70	0
Fordham U.	396	294	251	642	212	0	212	0	0	0
Ithaca C.	397	301	246	205	206	0	150	0	56	0
Albion C.	398	272	231 i	217 i	203	203	0	0	0	0
Long Island U.	399	51	123	172	201	0	136	0	65	0
Seattle U.	400	58	79	126	198	0	0	0	198	0
Norwich U.	401	ne	ne	ne	196	0	196	0	0	0
U. Puerto Rico, Cayey	402	185	127	59	194	0	0	0	194	0
Claremont McKenna C.	403	144	136	385	191	0	82	0	109	0
New York Institute of Technology	404	0	3	101	190	0	0	0	190	0
Gallaudet U.	405	0	92	59	184	0	0	0	184	0
Fayetteville State U.	406	260	147	165	183 i	0 i	0 i	0 i	0 i	183 i
West Texas A&M U.	406	166	169	218	183	0	183	0	0	0
U. Hawaii, Hilo	408	214	64	270	180	0	62	0	118	0
U. Houston-Clear Lake	409	377	208	86	178	0	0	0	0	178
Florida Gulf Coast U.	410	344	106	166	177	0	177	0	0	0
SUNY, C. Brockport	410	41	54	179	177	50	27	0	100	0
Purdue U., Northwest	412	168	102	160	175	0	175	0	0	0
CUNY, York C.	413	510	186	152	172	0	172	0	0	0
Hobart and William Smith Colleges	413	132	104	195	172	0	10	0	162	0
California State U., Stanislaus	415	0	60	101	171	0	99	0	72	0
Indiana U. Pennsylvania	415	268	255	313	171	0	0	0	171	0
U. Michigan, Dearborn	417	26	6	22	169	0	0	0	0	169
Dillard U.	418	662	252	155	163	0	0	0	163	0
U. Louisiana, Monroe	418	55	10	125	163	0	163	0	0	0

TABLE 49

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Willamette U.	420	66	83	56	161	0	114	0	47	0
Coastal Carolina U.	421	0	60	111	155	0	0	0	155	0
Colorado C.	422	15	4	211	148	0	0	0	148	0
Drake U.	423	ne	200	211	146	0	0	0	146	0
Virginia State U.	424	0	0	80	144	0	144	0	0	0
Trinity C., Hartford	425	5	86	85	143	0	143	0	0	0
Benedict C.	426	146	ne	ne	142	0	142	0	0	0
Gettysburg C.	427	109	ne	ne	140	0	137	0	3	0
Lewis and Clark C.	428	494	110	193	139	0	139	0	0	0
Ferris State U.	429	ne	ne	ne	134	0	117	0	17	0
U. Maryland Center for Environmental Science	430	174	256	141	132	0	56	0	76	0
Roger Williams U.	431	98	0	44	131	3	35	0	93	0
Loyola Marymount U.	432	140	104	99	124	0	124	0	0	0
Texas A&M U.-Kingsville	433	108	87	60	119	0	76	43	0	0
Fort Valley State U.	434	72	76	83	118	0	118	0	0	0
U. Wisconsin-Oshkosh	435	224 i	222	327	117	0	98	0	19	0
U. Wisconsin-La Crosse	436	205	323	74	114	0	46	0	68	0
Black Hills State U.	437	91	103	95	113	0	0	0	113	0
U. New Haven	437	142	216	120	113	0	0	113	0	0
U. Tennessee, Chattanooga	437	0	0	0	113	0	113	0	0	0
Union C., Schenectady	437	222	122	107	113	60	53	0	0	0
Albany State U.	441	54	102	ne	108	0	108	0	0	0
Canisius U.	441	ne	173	159	108	0	0	0	0	108
Western Illinois U.	443	60	63	84	106	0	67	0	39	0
Salisbury U.	444	21	148	40	102	0	102	0	0	0
U. Wisconsin-Stevens Point	444	85	14	87	102	0	102	0	0	0
California State U., Bakersfield	446	29	159	105	98	0	98	0	0	0
Austin Peay State U.	447	13	50	63	94	0	0	0	94	0
Bates C.	447	318	227	127	94	57	37	0	0	0
Langston U.	447	109	26	46	94	0	0	0	0	94
U. Wisconsin-Green Bay	447	72 i	66 i	80 i	94 i	0 i	42 i	0 i	52 i	0 i
Pennsylvania State U., Harrisburg	451	0	0	7	91	0	91	0	0	0
U. of the Pacific	452	307	223	152	88	37	51	0	0	0
U. Puget Sound	453	174	ne	60	86	0	86	0	0	0
Savannah State U.	454	50	34	53	85	0	85	0	0	0

TABLE 49

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Augusta U.	455	0	0	187	82	0	82	0	0	0
Missouri State U.	456	380	258	159	81	81	0	0	0	0
Wheaton C., Wheaton	456	66	54	ne	81	0	81	0	0	0
Manhattan C.	458	71	112	140	79	0	79	0	0	0
Eastern Washington U.	459	66	62	118	75	0	75	0	0	0
U. Texas, Tyler	459	0	0	0	75	0	75	0	0	0
Youngstown State U.	461	327	321	356	73	21	52	0	0	0
U. Scranton	462	ne	ne	ne	68	0	68	0	0	0
Connecticut C.	463	113	97	229	67	0	67	0	0	0
U. Houston-Downtown	464	0	88	7	64	0	0	0	0	64
U. Hawaii, Maui C.	465	ne	0	ne	61	0	0	61	0	0
U. North Georgia	466	0	2	15	59	2	40	0	17	0
Lawrence Technological U.	467	6	48	132	57	0	0	0	57	0
Western Carolina U.	468	118	0	9	55	32	23	0	0	0
California State Polytechnic U., Humboldt	469	76	7	32	54	0	0	0	54	0
U. Northern Colorado	469	19	83	15	54	0	19	0	35	0
Purdue U., Fort Wayne	471	123	82	56	53	0	53	0	0	0
Sacred Heart U.	471	ne	64	ne	53	0	0	0	0	53
U. of Mary Washington	471	54	75	84	53	0	0	0	53	0
Kean U.	474	0	0	1	52	0	52	0	0	0
Virginia Military Institute	475	ne	ne	55	50	0	50	0	0	0
U. Wisconsin-Platteville	476	36 i	37 i	46 i	49 i	0 i	28 i	0 i	21 i	0 i
Hamilton C.	477	3	8	42	47	0	46	0	1	0
SUNY, Buffalo State U.	477	2	0	0	47	0	0	0	47	0
Elon U.	479	0	0	0	44	0	44	0	0	0
U. of St. Thomas (MN)	480	90	70	52	43	0	43	0	0	0
Pittsburg State U.	481	22	24	27	39	0	39	0	0	0
Citadel Military C. South Carolina	482	0	7	82	36	0	25	0	11	0
Pacific U.	483	29	233	367	34	0	0	0	34	0
Minnesota State U., Mankato	484	2	9	29	33	33	0	0	0	0
Monmouth U.	485	0	15	99	31	0	0	0	31	0
Montana Technological U.	485	97	133	309	31	0	31	0	0	0
U. Alaska, Southeast	487	30	47	25	28	28	0	0	0	0
St. Olaf C.	488	13	3	ne	25	0	0	0	25	0
Hofstra U.	489	4	2	538	24	0	24	0	0	0

TABLE 49

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. Wisconsin-Superior	490	0	0	0	23	0	19	4	0	0
U.S. Coast Guard Academy	491	ne	ne	ne	21	0	21	0	0	0
Mercer U.	492	0	0	0	18	0	0	0	18	0
U. Detroit Mercy	492	0	0	0	18	0	18	0	0	0
U. Virginia's C. Wise	492	ne	18	23	18	0	18	0	0	0
Central Connecticut State U.	495	60	41	64	17	0	17	0	0	0
U. Hartford	495	0	0	0	17	0	0	0	17	0
Indiana State U.	497	160	86	115	16	0	0	0	16	0
Pace U.	497	0	0	38	16	0	16	0	0	0
U. Maryland, Eastern Shore	499	1,243	0	0	15	0	0	0	15	0
U. San Francisco	499	0	84	102	15	15	0	0	0	0
California State U., Channel Islands	501	0	73	77	14	0	14	0	0	0
Lincoln U.	501	ne	ne	ne	14	0	0	0	14	0
U. Baltimore	501	45	45	0	14	0	0	0	0	14
C. of Saint Benedict	504	20 i	10 i	11 i	13 i	0 i	8 i	1 i	4 i	0 i
Oregon Health and Science U.	504	0	0	0	13	0	13	0	0	0
New Mexico Highlands U.	506	541	6 i	9 i	12	0	12	0	0	0
Sul Ross State U.	506	0	6 i	9 i	12	0	0	0	0	12
Azusa Pacific U.	508	12	9	6	9	0	9	0	0	0
Fairfield U.	508	100	74	ne	9	0	0	0	9	0
U. Puerto Rico, Ponce	508	ne	ne	ne	9	0	9	0	0	0
Alfred U.	511	7	5	16	8	8	0	0	0	0
Lake Superior State U.	512	ne	ne	0	7	0	7	0	0	0
U. of Health Sciences and Pharmacy in St. Louis	513	0	0	9	3	0	0	0	3	0
Rutgers, State U. New Jersey, Camden	514	0	0	13	2	0	2	0	0	0
Sonoma State U.	515	123	209	28	1	0	1	0	0	0
Texas Woman's U.	515	49	7	4	1	0	0	0	0	1
William Paterson U.	515	0	0	0	1	0	1	0	0	0
All other surveyed institutions	-	21,544	19,293	20,242	0	0	0	0	0	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified.

^a Johns Hopkins University includes the Applied Physics Laboratory, with \$287,981 thousand in federally financed R&D expenditures in physical sciences in FY 2023.

^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^c The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

^d The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

^e The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 50

Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
All institutions	-	1,928,978	1,995,252	2,127,016	2,301,102	1,167,364	1,234,985	1,321,823	1,413,489
U. California, San Francisco	1	68,745	68,492	70,707	66,457	41,413	37,311	42,570	41,585
U. California, Berkeley	2	36,326	41,402	49,390	55,719	17,414	21,494	28,472	27,813
Northwestern U.	3	35,130	36,484	40,697	42,247	22,766	25,004	22,536	23,314
U. California, San Diego	4	27,429	27,339	33,116	39,537	16,704	21,719	27,997	30,706
U. Wisconsin-Madison	5	31,441	33,896	36,183	39,292	19,249	22,131	23,999	23,545
Purdue U., West Lafayette	6	22,953	26,272	30,984	36,491	12,344	14,122	16,510	18,651
U. Chicago	7	24,631	24,034	31,158	36,407	20,747	20,993	26,860	29,008
California Institute of Technology	8	40,638	37,366 i	36,223	36,142 i	26,664	22,573	21,863	22,744
Massachusetts Institute of Technology	9	32,375	37,408	35,819	35,918	19,258	22,959	22,375	23,384
U. Michigan, Ann Arbor	10	31,361	33,006	32,418	35,089	18,164	19,179	20,011	20,730
Harvard U.	11	33,675	37,078	37,601	34,728	19,149	22,149	20,608	19,797
U. Illinois, Urbana-Champaign	12	34,642	35,360	30,955	34,685	21,367	20,905	18,398	21,096
U. Notre Dame	13	29,216	30,859	29,610	34,516	18,246	19,720	18,107	22,306
Cornell U.	14	27,423	27,978	30,250	32,543	21,016	19,666	22,442	21,632
Princeton U.	15	25,095	29,163	28,604	32,016	13,611	13,984	13,432	13,834
Stanford U.	16	25,478	27,849	29,681	31,848	22,802	25,419	26,211	26,366
U. North Carolina, Chapel Hill	17	22,546	23,102	31,221	30,227	15,780	16,230	22,796	20,298
U. Washington, Seattle	18	24,008	23,508	25,922	29,048	21,802	21,211	23,761	26,560
Yale U.	19	21,309	21,464	23,376	28,905	10,663	12,340	16,105	19,638
Texas A&M U., College Station and Health Science Center	20	24,507	23,182	25,693	27,800	8,781	8,988	11,112	11,935
Johns Hopkins U. ^a	21	25,946 i	24,078 i	25,673 i	26,888 i	24,462	22,938	22,992	25,138
U. Pennsylvania	22	21,246	23,124	25,511	26,793	13,345	15,115	17,415	18,079
U. Florida	23	10,773	12,984	22,973	26,640	6,769	7,415	9,638	16,093
Emory U.	24	19,048	20,841	24,772	26,564	12,627	15,197	14,402	12,978
Florida International U.	25	18,412	22,439	28,705	25,467	7,623	12,085	16,674	16,789
U. California, Los Angeles	26	19,842	24,038	21,680	25,424	14,839	16,178	17,355	19,114
Georgia Institute of Technology	27	22,323	22,555	22,397	24,325	15,235	15,425	15,762	16,390
U. Texas, Austin	28	16,470	18,584	20,895	24,211	8,614	7,913	8,569	9,496
U. California, Irvine	29	21,988	18,924	21,156	24,009	15,738	12,676	15,716	17,070
Florida State U.	30	23,225	20,686	20,685	22,804	12,958	11,182	11,140	12,918
U. Minnesota, Twin Cities	31	22,061	20,661	19,860	21,704	14,721	15,439	13,989	13,527
Boston U.	32	14,230	17,695	17,896	21,277	9,210	11,004	10,572	11,916
Rice U.	33	16,251	15,332	13,489	20,909	5,909	7,002	6,657	8,899
U. Delaware	34	8,146	9,404	19,259	19,940	6,472	7,732	9,278	8,964

TABLE 50

Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Michigan State U.	35	11,806	12,568	15,669	19,687	7,154	8,166	8,837	9,393
Columbia U. in the City of New York	36	11,983	16,528	17,944	19,577	9,611	14,024	14,752	12,365
Vanderbilt U. and Vanderbilt U. Medical Center	37	13,559	16,401	17,734	18,843	7,056	9,126	9,796	9,763
Pennsylvania State U., University Park and Hershey Medical Center	38	17,696	16,923	15,578	18,226	10,176	13,617	13,319	11,765
Indiana U., Bloomington	39	19,430	17,500	18,778	17,814	11,206	10,812	11,725	11,063
U. Pittsburgh, Pittsburgh	40	16,058	15,518	15,366	17,599	10,893	9,776	10,128	10,990
U. Utah	41	18,018	19,435	9,434	17,148	11,546	12,874	9,002	14,811
North Carolina State U.	42	11,821	16,108	12,623	16,370	6,645	7,120	7,854	8,771
Duke U.	43	9,809	11,536	12,672	16,182	8,398	10,066	11,135	13,439
Iowa State U.	44	12,374	11,950	14,302	15,985	8,055	9,139	11,116	12,091
U. Houston	45	40,835	43,502	50,262	15,585	2,981	3,476	5,173	4,355
New York U.	46	13,753	14,156	13,103	15,549	11,679	12,181	10,225	10,116
SUNY, Stony Brook U.	47	12,396	13,646	13,302	15,110	9,555	10,030	10,457	11,308
U. California, Davis	48	13,607	14,017	15,996	15,108	9,896	9,954	12,099	11,408
Louisiana State U., Baton Rouge	49	8,252	10,020	12,606	15,050	3,955	5,423	4,636	5,919
Arizona State U.	50	13,030	11,762	10,253	14,799	5,739	5,232	4,492	5,406
U. California, Santa Cruz	51	10,478	10,689	11,059	14,697	7,886	7,556	8,006	10,702
U. Arizona	52	14,511	15,246	9,869	13,846	8,089	7,395	6,142	6,796
U. Illinois, Chicago	53	7,868	9,326	10,467	13,743	4,659	6,060	6,233	7,331
Wayne State U.	54	10,163	12,458	13,568	13,686	6,426	8,355	9,016	8,923
U. Kansas	55	4,499	11,480	11,717	13,643	3,664	9,348	9,108	9,418
Northeastern U.	56	7,636	8,833	9,761	13,625	4,811	6,872	7,517	10,150
U. Colorado Boulder	57	9,041	9,383	12,345	13,610	6,537	7,132	9,696	9,936
Virginia Polytechnic Institute and State U.	58	14,242	14,389	13,810	13,571	8,991	8,643	9,174	9,822
U. Virginia, Charlottesville	59	11,980	12,853	12,214	13,274	6,608	8,676	7,895	8,202
SUNY, Binghamton U.	60	11,900	10,445	10,066	12,376	5,324	3,922	4,076	5,542
U. Oklahoma, Norman and Health Science Center	61	12,342	10,051	10,525	12,341	8,392	5,844	6,981	7,361
Washington U., Saint Louis	62	12,722	11,696	12,044	12,316	8,606	8,809	8,850	9,328
U. Nebraska, Lincoln and Medical Center ^b	63	na	na	na	12,286	na	na	na	8,922
Colorado State U., Fort Collins	64	8,042	8,806	9,951	12,002	5,324	6,716	7,643	9,720
Dartmouth C. and Dartmouth Hitchcock Medical Center	65	9,198	12,008	11,434	11,869	3,074	3,880	4,388	4,589
U. Massachusetts, Amherst	66	14,992	10,139	9,387	11,743	10,044	6,635	6,492	8,193
U. Southern California	67	14,232	12,687	11,475	11,653	7,570	6,787	7,494	8,521
Washington State U.	68	8,512	13,478	12,821	11,562	5,986	7,937	5,918	4,277
SUNY, U. Buffalo	69	7,461	10,122	9,376	11,496	4,783	5,756	6,337	7,601

TABLE 50

Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Carnegie Mellon U.	70	9,207	8,696	10,492	11,099	4,095	3,985	5,091	5,469
U. Southern Mississippi	71	11,328	12,382	11,978	10,393	8,520	11,026	11,271	9,325
U. Maryland ^c	72	10,389	9,419	8,290	10,334	6,777	6,858	5,326	6,534
U. California, Riverside	73	9,260	9,556	10,604	10,291	7,396	8,133	9,452	8,960
U. California, Santa Barbara	74	9,166	8,346	8,424	10,043	6,268	6,502	5,850	6,841
SUNY, U. Albany	75	5,292	4,814	4,520	9,793	3,384	3,054	2,388	3,039
Ohio State U.	76	28,972	15,540	13,382	9,661	23,166	12,211	6,883	6,686
U. Akron	77	8,576	6,703	8,686	9,524	4,238	4,026	4,811	4,844
U. Oregon	78	4,910	6,477	6,752	9,391	3,937	4,686	5,429	8,287
Boston C.	79	7,492	8,543	8,931	9,250	5,627	6,600	7,144	6,854
U. Tennessee, Knoxville	80	6,816	6,532	8,643	8,885	3,170	2,699	4,331	5,308
U. Texas, El Paso	81	4,620	6,291	6,399	8,656	3,233	2,978	3,402	4,691
Texas Tech U.	82	7,136	7,686	8,441	8,268	2,780	2,622	2,315	2,401
Auburn U., Auburn	83	7,222	5,463	7,242	8,154	1,737	1,645	2,214	2,635
Georgia State U.	84	9,304	9,032	8,645	8,045	6,834	5,193	4,929	4,782
U. Georgia	85	8,005	8,057	6,900	7,961	3,628	4,109	2,971	3,667
U. Alabama, Tuscaloosa	86	2,937	3,853	4,643	7,938	2,148	2,222	2,995	5,109
Montana State U., Bozeman	87	8,796	13,389	8,821	7,929	5,606	9,290	5,469	5,006
U. Connecticut	88	5,868	4,998	5,492	7,895	3,515	3,316	4,189	6,103
U. Rochester	89	5,309	5,705	6,758	7,859	4,136	4,519	5,306	6,196
Xavier U. Louisiana	90	7,186	8,440	7,491	7,701	7,077	8,325	7,426	7,608
U. Cincinnati	91	5,796	5,987	7,085	7,651	2,005	2,173	3,145	3,743
Tufts U.	92	10,325	7,178	8,074	7,629	4,517	6,470	7,192	5,982
U. Texas, San Antonio	93	6,980	7,037	8,005	7,586	1,685	2,248	3,062	2,356
Baylor U.	94	3,921	5,111	7,587	7,039	945	1,464	2,103	2,792
San Diego State U.	95	4,075	4,386	5,332	7,037	2,297	2,214	3,642	4,438
Rensselaer Polytechnic Institute	96	5,704	6,355	7,599	6,945	3,033	2,793	3,057	4,013
Temple U.	97	9,606	9,251	7,756	6,851	5,786	5,501	4,372	5,601
Rutgers, State U. New Jersey, New Brunswick	98	6,321	5,579	7,903	6,825	2,557	3,276	3,264	3,310
U. Texas, Arlington	99	5,740	5,631	5,006	6,773	1,807	2,204	2,520	2,466
Syracuse U.	100	4,276	4,742	4,893	6,723	1,370	2,036	2,465	3,413
U. North Texas, Denton	101	5,586	5,451	5,788	6,401	1,107	1,596	2,139	2,115
U. Missouri, Columbia	102	5,730	5,501	6,050	6,362	5,168	4,640	4,739	5,281
Brown U.	103	5,201	5,495	6,019	6,157	3,416	3,552	3,763	4,037
CUNY, City C.	104	5,164	4,978	5,494	6,064	3,803	3,808	4,496	5,331

TABLE 50

Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Oakland U.	105	2,521	2,777	4,597	6,058	966	854	1,206	1,135
U. Iowa	106	5,415	5,342	6,339	6,051	3,681	4,065	4,215	4,319
U. South Florida ^d	107	6,507	5,647	5,933	5,981	2,520	2,365	2,369	2,324
Oklahoma State U., Stillwater	108	5,180	4,341	4,588	5,788	1,513	1,179	1,536	2,020
Brandeis U.	109	4,239	4,505	6,801	5,785	1,679	2,257	4,076	3,148
U. Texas, Dallas	110	5,614	6,253	6,100	5,695	3,148	3,247	3,448	3,019
U. Arkansas, Fayetteville	111	5,478	4,668	5,361	5,658	2,160	2,301	2,586	2,635
U. Central Florida	112	4,614	4,027	4,808	5,554	1,876	1,645	2,548	2,608
West Virginia U.	113	4,868	4,509	5,184	5,502	3,040	2,965	3,118	3,148
U. Nevada, Reno	114	3,903	3,935	5,281	5,421	1,534	2,370	3,227	3,850
Southern Methodist U.	115	1,469	2,094	2,480	5,398	921	1,154	1,216	1,050
Colorado School of Mines	116	2,691	3,333	3,703	5,333	2,198	3,022	3,293	3,534
Clemson U.	117	4,327	3,121	4,367	5,323	2,337	1,749	3,076	2,897
Rockefeller U.	118	4,720	5,530	4,727	5,248	2,299	3,233	1,998	2,534
Mississippi State U.	119	6,041	4,790	5,159	5,085	1,111	1,175	1,419	1,498
Brigham Young U., Provo	120	3,234	4,020	3,638	5,015	2,457	2,487	2,836	1,783
U. Kentucky	121	4,802	5,598	5,609	4,968	3,669	4,627	4,657	4,205
U. Maryland, Baltimore County	122	1,558	2,106	2,934	4,802	1,233	1,723	1,987	3,075
U. Nevada, Las Vegas	123	5,140	5,482	3,601	4,792	2,828	2,582	2,869	3,165
Saint Louis U.	124	1,786	2,120	3,510	4,686	1,235	1,226	2,081	2,955
Howard U.	125	4,546	5,000	5,348	4,629	3,769	4,150	4,288	3,694
U. Mississippi	126	3,994	3,235	3,218	4,420	2,225	2,022	1,945	1,997
New Jersey Institute of Technology	127	3,891	2,846	3,690	4,408	939	836	757	1,039
Jackson State U.	128	8,452	7,071	5,322	4,351	7,991	6,614	5,101	4,213
California State U., Los Angeles	129	4,602	4,770	5,055	4,063	3,633	3,691	4,219	3,516
Old Dominion U.	130	2,297	2,470	3,241	4,024	1,091	1,123	1,609	2,362
North Dakota State U.	131	3,106	3,801	6,880	3,811	1,349	2,245	5,516	2,365
Utah State U.	132	3,101	2,926	3,098	3,714	1,636	1,974	2,204	2,046
CUNY, Hunter C.	133	3,003	4,412	3,392	3,656	2,579	3,842	3,002	3,048
Virginia Commonwealth U.	134	2,250	2,017	1,733	3,645	1,293	1,356	1,370	2,408
U. Puerto Rico, Rio Piedras	135	2,776	2,967	3,842	3,611	2,360	2,650	3,384	3,052
Miami U.	136	1,185	3,798	2,267	3,590	292	2,543	1,815	2,978
U. Rhode Island	137	2,081	1,957	2,246	3,553	1,726	1,344	1,629	2,057
U. Massachusetts, Lowell	138	4,475	5,555	5,369	3,538	1,064	1,387	1,527	1,278
U. California, Merced	139	2,630	2,919	3,759	3,343	2,041	1,588	2,372	1,783

TABLE 50

Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Toledo	140	1,935	3,069	3,783	3,251	1,367	2,290	3,024	2,384
George Washington U.	141	3,976	3,281	2,735	3,199	1,769	1,974	1,968	1,853
U. North Carolina, Charlotte	142	1,261	1,610	1,335	3,191	977	1,267	1,057	2,426
CUNY, Advanced Science Research Center	143	1,376	1,617	2,563	3,157	922	1,160	1,760	1,940
U. North Carolina, Greensboro	144	2,028	2,216	2,756	3,117	1,494	1,647	2,207	2,553
Rutgers, State U. New Jersey, Newark	145	1,976	2,296	2,414	3,098	1,175	1,704	1,979	2,320
Texas State U.	146	1,141	1,791	2,217	3,094	976	1,647	2,038	2,938
U. New Mexico	147	2,704	2,174	3,250	3,061	2,243	1,882	2,785	2,707
Clark Atlanta U.	148	978	1,139	2,432	3,034	760	951	2,195	2,826
Case Western Reserve U.	149	2,955	2,785	2,992	3,032	2,291	2,191	2,285	2,419
Georgetown U.	150	3,318	2,694	3,761	3,021	2,661	2,185	2,764	2,355
Kansas State U.	151	4,374	3,977	3,367	2,995	2,739	2,466	1,834	1,805
U. North Dakota	152	2,212	2,152	2,972	2,880	610	672	1,398	1,335
U. Vermont	153	2,415	3,250	2,951	2,849	1,327	1,445	1,649	1,201
Clarkson U.	154	1,829	945	2,867	2,815	523	283	1,188	935
U. Montana, Missoula	155	2,782	2,554	2,183	2,814	1,783	1,655	1,560	1,762
South Dakota State U.	156	1,941	1,857	1,562	2,781	1,026	1,365	1,267	2,295
Missouri U. of Science and Technology	157	2,315	2,605	2,572	2,775	1,833	1,769	2,243	2,300
Northern Illinois U.	158	1,536	1,579	2,789	2,619	1,146	1,208	1,879	1,903
U. Memphis	159	2,143	2,347	2,043	2,615	667	733	625	762
Rowan U.	160	388	676	605	2,596	213	613	462	1,655
Tulane U.	161	2,734	2,227	2,304	2,582	1,372	1,293	1,444	1,990
Boise State U.	162	857	745	1,379	2,575	509	440	209	774
California State U., Long Beach	163	2,474	2,188	3,191	2,516	2,328	2,059	2,420	2,122
Lehigh U.	164	2,147	2,065	2,679	2,508	1,298	1,432	1,702	1,757
U. South Dakota	165	2,499	2,022	2,380	2,506	992	726	623	1,158
U. Miami	166	1,437	1,318	1,605	2,481	1,011	1,129	1,355	1,971
U. Massachusetts, Dartmouth	167	1,601	1,934	2,435	2,378	200	444	363	485
Western Washington U.	168	1,037	1,218	1,790	2,360	743	846	1,196	1,506
South Dakota School of Mines and Technology	169	732	681	1,174	2,355	691	639	834	1,399
Indiana U.-Purdue U., Indianapolis	170	1,783	2,262	1,744	2,342	919	1,385	1,086	1,527
U. Hawaii, Manoa	171	2,401	1,722	1,488	2,333	1,732	1,204	1,205	2,033
Worcester Polytechnic Institute	172	1,422	1,613	1,523	2,305	1,021	1,035	925	1,408
Kent State U.	173	2,091	2,387	2,155	2,290	968	1,102	1,065	1,204
CUNY, Brooklyn C.	174	789	1,127	1,798	2,235	727	1,120	1,613	2,115

TABLE 50

Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Michigan Technological U.	175	1,925	1,867	2,382	2,225	642	695	1,095	977
Florida Atlantic U.	176	1,772	1,668	1,628	2,184	836	694	926	1,076
U. Wisconsin-Milwaukee	177	2,173	1,679	1,556	2,180	750	497	572	1,132
CUNY, Lehman C.	178	1,698	1,567	1,954	2,166	1,612	1,551	1,928	2,066
U. Alabama, Birmingham	179	1,018	2,415	1,560	2,164	925	1,082	933	1,511
U. Massachusetts, Boston	180	2,370	2,695	1,923	2,153	1,706	1,796	1,343	1,498
U. Louisville	181	1,820	1,813	2,879	2,149	1,012	1,049	1,124	1,002
U. Wyoming	182	554	625	1,894	2,130	554	614	814	1,036
California State U., San Bernardino	183	4	1,706	1,994	2,052	3	1,579	1,781	1,951
Wichita State U.	184	945	1,095	1,125	2,001	756	593	665	1,048
San Jose State U.	185	1,787	2,097	2,077	1,992	1,420	1,303	1,146	1,180
Oregon State U.	186	2,788	2,652	2,537	1,965	2,560	2,444	1,595	1,505
Seton Hall U.	187	401	396	592	1,942	401	396	571	708
Marquette U.	188	2,361	3,476	2,127	1,862	1,424	2,323	1,324	1,053
Montclair State U.	189	507	689	1,645	1,848	224	437	762	823
SUNY, C. of Environmental Science and Forestry	190	94	155	1,805	1,838	47	115	263	400
Southern Illinois U., Carbondale	191	1,318	1,441	1,393	1,823	934	824	721	729
Portland State U.	192	1,782	1,646	2,161	1,775	1,467	1,145	1,524	1,255
Villanova U.	193	2,371	1,884	1,719	1,771	834	540	390	430
U. New Hampshire	194	1,428	1,808	1,966	1,760	818	655	825	1,045
North Carolina A&T State U.	195	522	248	757	1,698	114	248	727	1,616
James Madison U.	196	766	941	938	1,697	168	397	554	817
New Mexico State U.	197	5,296	2,141	2,181	1,647	3,699	612	783	848
CUNY, Queens C.	198	955	1,289	1,698	1,625	870	1,197	1,135	1,148
Trinity U.	199	1,012	1,026	1,126	1,610	543	471	520	535
Loyola U., Chicago	200	711	860	1,316	1,575	610	570	903	990
Mercer U.	201	1,951	1,786	1,830	1,547	0	0	0	0
U. Puerto Rico, Mayaguez	202	980	616	1,166	1,539	612	394	913	1,214
Drexel U.	203	902	735	610	1,527	305	310	284	433
Georgia Southern U.	204	1,476	1,951	1,691	1,498	534	523	324	270
George Mason U.	205	304	1,062	1,211	1,470	125	447	746	1,022
U. Louisiana, Lafayette	206	1,256	1,029	1,327	1,461	158	82	63	70
Marshall U.	207	1,019	273	1,198	1,447	99	143	1,065	1,206
Delaware State U.	208	240	276	328	1,401	240	276	0	1,015
U. Colorado Denver ^e	209	na	1,157	1,187	1,400	na	1,144	1,090	1,301

TABLE 50

Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. New Orleans	210	1,595	1,903	1,468	1,387	231	702	393	426
East Carolina U.	211	1,354	1,193	1,266	1,365	830	986	946	1,004
California State U., Northridge	212	666	406	514	1,335	612	274	283	1,056
San Francisco State U.	213	1,735	1,871	1,708	1,321	405	409	413	350
Bowling Green State U.	214	1,477	1,561	1,758	1,317	741	753	843	744
Louisiana Tech U.	215	711	1,051	1,094	1,273	71	146	178	205
U. Denver	216	3,314	2,647	2,670	1,240	2,435	1,834	1,891	981
Middle Tennessee State U.	217	345	2,632	1,713	1,233	185	1,670	744	702
Furman U.	218	913	1,105	1,252	1,229	357	522	767	835
U. Maine	219	1,160	1,157	762	1,206	220	128	41	0
Illinois State U.	220	338	891	920	1,193	291	709	835	1,020
Texas Christian U.	221	377	168	732	1,187	213	167	136	274
CUNY, C. Staten Island	222	311	282	637	1,173	228	239	537	1,022
Wesleyan U.	222	776	827	1,377	1,173	487	525	819	822
Ball State U.	224	801	667	970	1,163	315	428	458	815
U. Missouri, Saint Louis	225	1,764	2,255	991	1,160	1,131	951	606	329
American U.	226	847	790	983	1,143	196	160	324	342
California State U., Fresno	227	748	1,129	2,043	1,125	616	1,014	1,557	1,035
Cleveland State U.	228	761	549	628	1,120	307	122	225	357
Grinnell C.	229	625	341	611	1,099	352	5	7	361
U. Alabama, Huntsville	230	1,300	1,165	1,023	1,065	218	219	165	28
Texas Southern U.	231	927	801	725	1,034	881	801	703	996
Hope C.	232	615	1,238	1,338	1,009	204	752	618	442
Fordham U.	233	747	1,067	1,532	1,003	294	251	642	212
U. Texas Rio Grande Valley	234	1,669	617	762	992	1,061	63	0	67
U. Idaho	235	613	683	719	985	51	127	112	152
U.S. Naval Academy	236	927	603	839	968	903	602	746	807
Ohio U.	237	1,399	1,432	1,055	941	582	1,073	647	360
Towson U.	238	246	420	455	926	120	168	184	196
California State U., Fullerton	239	166	159	440	900	0	6	138	120
U. North Florida	240	485	446	684	879	286	252	258	322
Creighton U.	241	626	670	816	844	277	310	434	458
Western Kentucky U.	242	1,360	772	888	824	783	401	462	302
Stevens Institute of Technology	243	10	548	127	817	0	258	69	735
Morgan State U.	244	177	389	920	816	175	385	920	745

TABLE 50

Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Long Island U.	245	675	845	616	812	0	69	96	136
William & Mary	246	501	494	990	801	379	366	655	561
Saint Joseph's U.	247	128	105	1,280	797	0	0	456	422
U. South Alabama	248	407	589	454	787	338	464	373	638
Florida Institute of Technology	249	469	466	218	783	154	204	48	203
U. South Carolina, Columbia	250	724	2,682	899	781	0	0	0	0
Barnard C.	251	341	495	846	776	276	432	736	690
Rochester Institute of Technology	252	522	492	494	774	382	246	304	560
Wellesley C.	253	283	277	208	766	251	263	157	722
Clark U.	254	594	317	543	753	161	74	250	285
Western Michigan U. and Homer Stryker M.D. School of Medicine	255	649	611	588	734	335	396	348	363
U. Arkansas, Pine Bluff	256	540	1,175	513	726	418	895	296	716
Prairie View A&M U.	257	421	623	1,708	718	392	622	1,708	687
U. Northern Iowa	258	825	841	747	705	710	777	680	666
Wake Forest U.	259	575	1,010	685	704	396	534	436	383
Amherst C.	260	782	580 i	743	698	289	35	88	165
Occidental C.	261	181	535	606 i	688 i	140	458	512 i	580 i
Reed C.	262	757	738 i	587 i	668 i	109	116 i	312 i	353 i
U. Tulsa	262	261	196	376	668	43	22	243	199
CUNY, Graduate Center	264	0	0	0	654	0	0	0	0
U. San Diego	265	578	498	375	653	341	256	171	283
Naval Postgraduate School	266	348	422	379	647	234	422	379	647
Franklin and Marshall C.	267	406	444	564	642	254	292	318	383
Spelman C.	268	713	523	391	640	713	523	391	640
Chapman U.	269	370	247	385	636	362	157	342	510
Appalachian State U.	270	226	124	372	631	74	5	43	337
Swarthmore C.	271	231	475	423	626	155	331	244	348
Whitman C.	272	246	ne	440	623	164	ne	191	234
Duquesne U.	273	2,204	569	506	608	621	392	358	410
Santa Clara U.	274	342	368	426	594	315	310	397	307
Macalester C.	275	206	179	421	593	118	163	352	507
Colgate U.	276	432	426	738	583	226	161	500	103
California Polytechnic State U., San Luis Obispo	277	456	460	622	571	265	274	385	451
Gustavus Adolphus C.	278	ne	ne	ne	568	ne	ne	ne	279
Bryn Mawr C.	279	758	657	599	567	130	68	268	112

TABLE 50

Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed				
		2020	2021	2022	2023	2020	2021	2022	2023	
Winston-Salem State U.	280	437	673	704	551	410	590	586	551	
U. Nebraska, Kearney	281	281	630	468	538	118	130	74	130	
North Carolina Central U.	282	149	656	481	537	i 54	634	345	382	i
Chicago State U.	283	ne	ne	690	531	ne	ne	688	531	
Alabama A&M U.	284	305	i 314	i 344	i 529	i 222	i 269	i 334	i 442	i
Northern Arizona U.	285	799	780	287	522	324	270	99	46	
Harvey Mudd C.	286	259	169	155	521	201	109	55	121	
U. Wisconsin-Eau Claire	287	457	577	400	507	355	500	351	474	
West Chester U. Pennsylvania	288	255	162	79	504	35	56	17	392	
Williams C.	289	156	i 152	i 442	i 503	i 0	i 0	i 154	i 174	i
Pomona C.	290	446	112	403	483	212	64	305	308	
CUNY, John Jay C. of Criminal Justice	291	220	165	191	455	167	165	185	383	
Bowdoin C.	292	77	177	236	440	43	158	202	258	
Skidmore C.	292	314	647	433	440	209	523	318	353	
Murray State U.	294	165	195	240	439	155	141	205	401	
U. Puerto Rico, Humacao	295	200	81	50	434	192	71	50	420	
U. Richmond	296	318	363	431	424	188	202	265	270	
Kean U.	297	39	0	1,576	415	0	0	1	52	
Tarleton State U.	298	257	357	365	409	0	0	0	0	
Butler U.	299	ne	ne	154	406	ne	ne	105	317	
Eastern Kentucky U.	300	55	60	ne	399	26	51	ne	273	
Morehouse C.	301	177	298	463	390	177	298	463	390	
Tougaloo C.	302	280	278	i 340	i 386	i 280	278	i 340	i 385	i
U. Missouri, Kansas City	303	591	353	333	385	273	236	223	319	
U. Arkansas, Little Rock	304	1,088	685	279	383	828	590	271	361	
Tennessee Technological U.	305	583	374	201	380	426	270	128	216	
Winthrop U.	306	150	161	444	378	64	95	350	264	
Florida Gulf Coast U.	307	257	197	207	376	204	106	166	177	
Hamilton C.	307	164	73	99	376	0	0	33	46	
Idaho State U.	309	564	959	364	367	429	628	187	245	
California State U., Channel Islands	310	39	301	406	357	0	73	77	14	
U. Central Arkansas	311	505	298	265	355	414	184	141	325	
California State U., Monterey Bay	312	0	57	446	349	0	57	431	333	
Salisbury U.	313	169	392	278	343	21	148	40	102	
Arkansas State U., Jonesboro	314	840	647	885	342	720	523	706	221	

TABLE 50

Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Hampton U.	314	0	0	657	342	0	0	657	342
Bucknell U.	316	494	i 456	706	341	298	i 292	633	220
St. John's U., New York	317	329	344	497	340	325	304	418	280
U. of St. Thomas (MN)	318	94	126	319	338	49	58	52	43
U. Central Oklahoma	319	139	i 146	i 302	i 336	i 139	i 146	i 111	i 123
California State U., Sacramento	320	89	62	133	335	44	5	63	254
Sam Houston State U.	321	407	333	168	326	342	151	77	246
C. Wooster	322	160	311	i 422	324	91	i 229	i 331	221
C. New Jersey	323	54	184	169	323	48	118	110	270
SUNY, Geneseo	324	102	269	483	322	82	256	460	240
Clafin U.	325	208	104	75	320	208	104	75	320
Oberlin C.	326	213	157	ne	317	71	58	ne	238
Texas A&M U.-Corpus Christi	327	181	268	261	307	107	59	46	49
U. Wisconsin-River Falls	328	155	48	ne	306	84	24	ne	286
Southeastern Louisiana U.	329	213	140	388	305	135	107	145	153
Purdue U., Northwest	330	207	110	202	302	168	102	160	175
Utah Valley U.	331	ne	ne	495	301	ne	ne	178	240
Colby C.	332	302	180	287	299	225	143	147	156
California State Polytechnic U., Pomona	333	110	205	289	296	108	160	225	205
Northern Kentucky U.	334	431	497	707	293	251	353	532	199
Smith C.	334	217	246	342	293	167	97	234	188
Davidson C.	336	154	162	266	292	112	138	107	192
Middlebury C.	337	253	201	286	289	238	201	286	274
U. Minnesota, Duluth	337	717	374	285	289	286	162	163	114
Lamar U.	339	54	66	71	288	20	0	0	57
Southern Illinois U., Edwardsville	340	911	849	165	287	231	193	100	259
Texas Woman's U.	341	0	0	581	285	0	0	0	0
SUNY, Oswego	342	291	282	439	278	182	228	377	222
Nova Southeastern U.	343	0	0	0	276	0	0	0	0
Grand Valley State U.	344	364	244	305	275	341	172	247	253
Union C., Schenectady	344	38	150	108	275	21	96	56	53
Central State U.	346	6	16	954	270	6	16	954	270
Calvin U.	347	252	i 275	i 298	i 267	i 202	i 202	i 203	178
Vassar C.	348	18	57	219	261	13	49	61	89
Illinois Institute of Technology	349	319	334	353	259	296	257	188	131

TABLE 50

Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed							
		2020	2021	2022	2023	2020	2021	2022	2023				
U. Northern Colorado	350	53	82	15	254	0	61	3	19				
U. Alaska, Anchorage	351	59	984	260	249	59	898	94	116				
West Texas A&M U.	352	211	200	258	247	166	169	218	183				
Carleton C.	353	488	244	183	244	i	142	110	157	229	i		
Trinity C., Hartford	354	46	112	143	242	5	86	85	143				
Eastern Michigan U.	355	410	97	348	238	1	28	25	165				
Haverford C.	356	394	i	357	i	393	i	237	i	187	273	286	131
Providence C.	357	370	74	ne	233	352	42	ne	228				
Texas A&M U.-Commerce	358	129	212	175	221	58	156	150	96				
U. Wisconsin-La Crosse	359	228	144	194	220	54	0	1	46				
Lewis and Clark C.	360	151	194	180	210	53	55	127	139				
Texas A&M U.-Kingsville	361	163	180	319	208	108	87	60	76				
U. Tennessee, Chattanooga	362	52	22	40	206	0	0	0	113				
California State U., Bakersfield	363	91	447	322	202	29	159	105	98				
U. San Francisco	363	45	56	55	202	0	0	0	0				
Norwich U.	365	ne	ne	ne	200	ne	ne	ne	196				
U. Colorado Colorado Springs	366	0	57	219	197	0	57	149	142				
Ursinus C.	366	ne	ne	ne	197	ne	ne	ne	85				
U. Louisiana, Monroe	368	55	17	247	195	55	10	125	163				
U. North Carolina, Wilmington	369	208	126	140	193	169	110	99	85				
Gettysburg C.	370	55	ne	ne	192	0	ne	ne	137				
Augusta U.	371	29	172	266	187	0	0	187	82				
CUNY, York C.	371	331	61	167	187	329	61	152	172				
Hofstra U.	373	4	6	606	178	0	0	538	24				
Loyola Marymount U.	374	231	218	383	176	140	104	99	124				
Willamette U.	375	161	86	60	172	62	4	0	114				
Ithaca C.	376	76	172	161	171	70	101	135	150				
U. South Carolina, Aiken	377	51	6	292	165	8	4	8	0				
California State U., Chico	378	26	10	59	159	6	4	51	0				
Ferris State U.	379	ne	ne	ne	158	ne	ne	ne	117				
U. North Carolina, Asheville	380	180	86	218	155	146	33	179	155				
Lafayette C.	381	156	75	248	153	94	37	201	84				
Southern U. and A&M C., Baton Rouge	382	101	133	132	150	39	65	118	112				
U. Wisconsin-Oshkosh	382	261	i	262	360	150	224	i	222	316	98		
Benedict C.	384	146	ne	ne	149	146	ne	ne	142				

TABLE 50

Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Indiana U., South Bend	385	ne	33	ne	148	ne	12	ne	14
U. of the Incarnate Word	386	226	238	299	146	176	238	228	97
California State U., East Bay	387	296	359	364	145	164	242	248	0
Sonoma State U.	387	88	268	62	145	8	188	28	1
Connecticut C.	389	350	271	678	144	113	97	229	67
Virginia State U.	389	0	0	80	144	0	0	80	144
Pepperdine U.	391	54	101	68	138	0	0	0	0
Texas A&M International U.	392	0	112	155	136	0	64	66	101
U. West Florida	393	88	515	146	134	0	392	0	0
Rutgers, State U. New Jersey, Camden	394	322	39	269	131	0	0	13	2
U. Wisconsin-Stevens Point	395	62	45	124	125	42	7	86	102
St. Olaf C.	396	75	78	ne	123	6	3	ne	0
Fort Valley State U.	397	72	76	83	118	72	76	83	118
U. Puget Sound	398	156	ne	85	116	124	ne	60	86
Albany State U.	399	54	102	ne	111	54	102	ne	108
California State U., Stanislaus	400	12	72	108	110	0	60	101	99
East Tennessee State U.	401	91 i	59 i	126 i	108	27	1	0	101
Pace U.	402	138	226	93	106	0	0	31	16
Coastal Carolina U.	403	0	20	55	105	0	0	0	0
Wheaton C., Wheaton	404	57	98	ne	104	0	19	ne	81
Roger Williams U.	405	3	2	17	102	0	0	14	35
Saint John's U.	406	99 i	76 i	88 i	100 i	0 i	0 i	0 i	0 i
C. of Saint Benedict	407	130 i	75 i	87 i	99 i	20 i	6 i	7 i	8 i
Fisk U.	407	0	160	116	99	0	158	116	80
U. Texas, Tyler	407	33	46	29	99	0	0	0	75
SUNY, C. Brockport	410	69	66	38	98	39	19	30	27
Florida A&M U.	411	39	23	14	97	39	23	13	83
Purdue U., Fort Wayne	412	123	82	61	95	123	82	56	53
U. Scranton	413	ne	ne	ne	92	ne	ne	ne	68
Virginia Military Institute	413	ne	ne	95	92	ne	ne	55	50
California State U., Dominguez Hills	415	531	418	608	91	390	317	426	0
Pennsylvania State U., Harrisburg	415	0	0	7	91	0	0	7	91
Pennsylvania State U., Behrend	417	22	61	70	90	16	26	32	20
Kennesaw State U.	418	731	880	935	89	393	267	220	0
Fort Lewis C.	419	44	394	38	86	9	345	32	60

TABLE 50

Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Savannah State U.	420	0	34	53	85	0	34	53	85
Elon U.	421	39	38	26	84	0	0	0	44
Montana Technological U.	422	123	216	375	83	97	133	309	31
Central Connecticut State U.	423	78	66	101	82	60	41	64	17
Claremont McKenna C.	423	85	56	81	82	85	56	81	82
Seattle U.	425	86	2	105	81	0	0	0	0
U. Wisconsin-Green Bay	425	62 i	55 i	77 i	81 i	33 i	30 i	36 i	42 i
California State Polytechnic U., Humboldt	427	39	64	74	80	0	0	0	0
Manhattan C.	428	71	112	140	79	71	112	140	79
Eastern Washington U.	429	0	0	0	75	0	0	0	75
Azusa Pacific U.	430	137	129	111	74	12	9	6	9
U. Alaska, Fairbanks	431	57	87	67	73	57	87	67	73
Colorado C.	432	38	107	263	70	0	0	178	0
St. Edward's U.	432	750	865	391	70	735	850	271	0
Sacred Heart U.	434	ne	0	ne	69	ne	0	ne	0
Central Washington U.	435	197	256	41	68	152	186	20	52
Western Illinois U.	436	39	52	47	67	21	47	47	67
Central Michigan U.	437	31	52	630	66	0	0	314	34
Youngstown State U.	437	182	171	204	66	166	158	194	52
U. Hawaii, Hilo	439	179	32	119	63	178	31	111	62
Stephen F. Austin State U.	440	33	28	112	60	0	0	0	0
U. Maryland Center for Environmental Science	441	416	413	875	56	102	195	67	56
U. Wisconsin-Platteville	441	101 i	43 i	51 i	56 i	36 i	21 i	26 i	28 i
U. Detroit Mercy	443	5	6	0	55	0	0	0	18
U.S. Coast Guard Academy	444	ne	ne	ne	54	ne	ne	ne	21
Wright State U.	444	390	222	91	54	221	153	49	18
Abilene Christian U.	446	ne	0	85	53	ne	0	0	0
Fairfield U.	446	84	52	ne	53	41	7	ne	0
Missouri State U.	446	22	27	65	53	20	0	0	0
U. of the Pacific	449	144	91	123	51	144	91	123	51
Citadel Military C. South Carolina	450	23	52	104	50	0	0	9	25
CUNY, New York City C. of Technology	451	0	5	187	47	0	5	187	44
Bates C.	452	211	238	78	43	185	190	49	37
C. Charleston	453	131	57	54	41	88	26	29	0
New Mexico Institute of Mining and Technology	454	287	167	149	40	287	167	102	0

TABLE 50

Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Tuskegee U.	454	134	134	97	40	134	134	97	40
U. North Georgia	454	0	0	13	40	0	0	13	40
Pittsburg State U.	457	19	24	27	39	19	24	27	39
Hobart and William Smith Colleges	458	30	31	102	37	0	0	6	10
New C. Florida	459	ne	ne	ne	34	ne	ne	ne	0
Indiana U. Pennsylvania	460	207	175	238	33	93	84	132	0
Kenyon C.	460	9	ne	32	33	0	ne	0	0
Marian U., Indianapolis	460	ne	ne	ne	33	ne	ne	ne	0
Mount Holyoke C.	460	114	28	23	33	111	18	0	0
Marymount U.	464	ne	0	2	32	ne	0	0	0
U. Puerto Rico, Cayey	465	155	65	2	30	137	65	2	0
Southern Connecticut State U.	466	118	38	219	26	0	0	0	0
Lake Superior State U.	467	ne	ne	21	25	ne	ne	0	7
Tennessee State U.	468	57	0 i	0	23	39	0 i	0	23
Western Carolina U.	468	253	45	0	23	118	0	0	23
Christopher Newport U.	470	63	26	48	22	53	20	43	20
St. Mary's C. Maryland	470	ne	ne	ne	22	ne	ne	ne	0
U. Texas of the Permian Basin	470	0	0	6	22	0	0	0	0
U. Wisconsin-Superior	473	0	0	0	19	0	0	0	19
U.S. Military Academy	473	419	150	30	19	419	150	23	19
U. Dayton	475	8	194	344	18	0	108	148	18
U. New Haven	475	122	49	8	18	0	0	0	0
U. Virginia's C. Wise	475	ne	18	23	18	ne	18	23	18
DePaul U.	478	38	47	13	15	2	24	0	0
U. New England	478	20	17	14	15	0	0	0	0
Oregon Health and Science U.	480	0	0	0	14	0	0	0	13
Minnesota State U., Mankato	481	48	17	21	13	0	0	11	0
Drake U.	482	ne	0	9	12	ne	0	0	0
New Mexico Highlands U.	482	541	6 i	9 i	12	541	6 i	9 i	12
Northern Michigan U.	484	9	7	42	11	0	0	0	0
Merrimack C.	485	0	ne	ne	9	0	ne	ne	0
U. Puerto Rico, Ponce	485	ne	ne	ne	9	ne	ne	ne	9
Troy U.	487	0	0	0	8	0	0	0	0
Florida Polytechnic U.	488	17	42	4	7	0	0	0	0
Pacific U.	488	71	268	431	7	0	207	346	0

TABLE 50

Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Hartford	488	0	0	4	7	0	0	0	0
U. of the District of Columbia	488	0	0	0	7	0	0	0	0
Eastern Connecticut State U.	492	0	4	4	6	0	0	0	0
Lipscomb U.	492	0 i	0	ne	6	0 i	0	ne	0
Framingham State U.	494	247	205 i	105 i	5	169	0 i	0 i	0
St. Cloud State U.	494	3	4	5	5	0	0	0	0
Andrews U.	496	0	0	ne	3	0	0	ne	0
Catholic U. of America	496	659	101	18	3	523	84	12	3
U. of Mary Washington	498	57	68	78	2	49	50	56	0
Austin Peay State U.	499	2	0	0	1	0	0	0	0
Monmouth U.	499	19	29	11	1	0	0	0	0
William Paterson U.	499	267	116	98	1	0	0	0	1
All other surveyed institutions	-	17,252	14,546	11,412	0	10,252	9,637	7,683	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

^a Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$15,250 thousand imputed for total and \$14,722 thousand reported for federally financed R&D expenditures in chemistry in FY 2023. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

^b The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

^c The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^d The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

^e The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 51

Total and federally financed higher education R&D expenditures in physics, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
All institutions	-	2,435,600	2,463,695	2,669,468	2,966,923	1,736,203	1,767,509	1,942,446	2,123,118
Johns Hopkins U. ^a	1	232,583 i	223,991 i	234,921 i	257,687 i	222,997	215,073	225,387	248,916
Michigan State U.	2	142,473	154,887	167,776	188,049	92,899	113,913	124,233	144,752
U. Rochester	3	95,695	93,851	105,517	117,118	90,436	88,161	98,439	110,943
California Institute of Technology	4	106,237	100,714 i	100,726	111,025 i	92,720	78,185	80,750	81,849
U. Colorado Boulder	5	69,967	70,498	79,823	82,413	64,624	64,351	69,385	71,502
Massachusetts Institute of Technology	6	48,695	57,207	68,994	70,662	38,758	45,000	53,744	56,056
Harvard U.	7	49,146	59,910	66,873	70,188	29,457	31,258	37,997	34,387
U. Iowa	8	17,099	26,404	48,303	56,574	14,623	24,381	45,461	51,726
U. Maryland ^b	9	46,013	42,274	45,925	56,336	29,752	31,173	29,928	33,004
Cornell U.	10	48,658	53,686	51,692	55,446	37,180	43,263	40,260	42,061
Florida State U.	11	41,870	38,309	40,478	51,460	26,260	22,154	25,129	35,433
U. Missouri, Columbia	12	3,443	3,221	3,198	51,172	2,486	2,070	1,925	2,579
Stanford U.	13	48,826	47,667	48,088	49,870	32,816	32,299	33,960	37,003
U. Illinois, Urbana-Champaign	14	27,506	33,961	38,628	43,505	20,032	22,415	27,787	31,688
U. Wisconsin-Madison	15	24,984	26,135	33,045	41,543	17,822	18,846	24,029	27,280
U. Central Florida	16	29,759	33,116	34,327	40,024	16,961	19,270	19,961	25,736
U. California, San Diego	17	66,169	56,983	58,691	33,763	32,298	32,711	38,163	22,834
Princeton U.	18	40,161	35,249	37,325	33,192	28,224	23,204	23,951	18,686
U. California, Los Angeles	18	33,263	30,227	30,682	33,192	22,591	20,068	24,786	24,918
U. California, Santa Barbara	20	23,427	26,695	32,704	32,081	13,661	16,106	19,648	18,547
SUNY, Stony Brook U.	21	26,615	26,964	30,296	31,946	19,742	20,764	22,447	24,545
U. Texas, Austin	22	26,463	23,011	23,264	28,669	18,638	14,953	15,478	16,400
Pennsylvania State U., University Park and Hershey Medical Center	23	26,281	20,314	21,573	28,317	16,969	17,473	17,343	22,022
U. Michigan, Ann Arbor	24	23,596	27,204	26,384	28,248	13,625	16,183	16,485	17,982
Yale U.	25	27,884	29,911	28,927	28,026	16,547	16,119	16,466	16,743
Catholic U. of America	26	12,213	13,988	19,597	27,944	11,952	13,555	19,597	27,081
U. Pennsylvania	27	21,371	20,728	24,454	26,118	14,450	14,568	17,013	18,175
U. Nebraska, Lincoln and Medical Center ^c	28	na	na	na	24,988	na	na	na	18,048
U. Notre Dame	29	15,639	16,473	17,906	24,872	10,607	10,256	11,319	14,760
U. Washington, Seattle	30	19,281	18,479	21,238	24,614	17,789	17,655	19,998	23,796
Purdue U., West Lafayette	31	19,417	16,391	18,954	24,132	9,235	10,082	11,398	14,246
U. Texas M. D. Anderson Cancer Center	32	19,060	17,572	19,651	23,775	8,114	8,179	8,306	11,861
Texas A&M U., College Station and Health Science Center	33	17,848	16,238	19,252	23,388	9,751	10,514	11,657	13,326
U. Minnesota, Twin Cities	34	19,948	19,162	20,446	23,250	16,693	15,816	16,437	18,423

TABLE 51

Total and federally financed higher education R&D expenditures in physics, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Northwestern U.	35	15,418	19,296	19,886	22,886	8,508	8,746	10,229	10,597
Ohio State U.	36	21,007	19,719	25,431	22,715	17,224	16,003	18,054	18,111
Louisiana State U., Baton Rouge	37	13,851	12,979	17,419	20,617	9,293	8,305	8,020	8,594
Rice U.	38	16,107	14,466	15,651	19,681	9,200	8,273	10,243	11,944
U. California, Irvine	39	18,770	19,684	18,914	19,630	10,987	11,775	13,063	13,158
Montana State U., Bozeman	40	9,194	9,940	10,957	19,519	5,188	7,261	8,315	16,667
Northeastern U.	41	12,711	15,248	16,743	19,136	8,026	9,014	9,555	12,916
U. Chicago	42	12,688	15,752	19,896	18,877	10,586	13,574	16,277	14,173
Columbia U. in the City of New York	43	12,331	17,403	21,038	18,616	9,642	15,103	16,037	16,617
Boston U.	44	14,002	15,143	17,312	17,859	9,963	10,572	12,340	12,715
Rutgers, State U. New Jersey, New Brunswick	45	12,903	13,193	15,686	16,794	6,212	6,736	7,519	8,320
U. Tennessee, Knoxville	46	14,423	14,277	14,496	16,586	8,951	9,105	9,575	10,498
U. Massachusetts, Lowell	47	14,669	12,753	12,817	15,538	10,138	9,661	9,585	10,944
Iowa State U.	48	14,842	14,746	16,138	15,234	9,760	11,324	12,524	11,021
U. Illinois, Chicago	49	7,884	8,392	11,030	14,931	5,874	6,815	9,219	12,869
Georgia Institute of Technology	50	11,892	11,359	11,461	14,861	7,182	6,788	7,055	7,936
New York U.	51	12,945	12,261	13,288	14,860	6,927	7,483	7,688	8,766
Arizona State U.	52	12,338	14,980	15,121	14,574	6,395	8,833	10,119	9,450
U. Florida	53	13,128	13,180	14,892	14,410	9,258	9,375	11,210	11,124
Syracuse U.	54	9,629	9,184	9,393	13,466	5,770	6,037	5,790	7,763
U. Delaware	55	5,429	4,523	11,981	13,060	4,452	3,576	4,788	5,693
Duke U.	56	12,587	10,595	10,609	12,945	10,780	9,760	9,763	11,845
Dartmouth C. and Dartmouth Hitchcock Medical Center	57	12,021	14,279	13,327	12,728	4,677	5,301	6,023	5,091
Carnegie Mellon U.	58	11,458	11,111	11,547	12,681	6,254	6,000	6,575	6,558
U. Texas, Arlington	59	10,782	10,373	12,897	12,488	6,615	6,574	9,048	8,342
North Carolina State U.	60	11,615	12,217	11,091	12,147	7,012	7,912	7,960	8,108
U. North Carolina, Chapel Hill	61	10,472	10,003	10,374	11,851	8,065	7,344	7,468	8,245
Vanderbilt U. and Vanderbilt U. Medical Center	62	14,458	13,676	11,203	11,556	8,139	6,510	6,825	6,907
U. California, Berkeley	63	32,085	33,755	37,089	11,388	17,480	18,480	22,296	7,112
U. Pittsburgh, Pittsburgh	64	8,507	8,706	11,050	10,972	6,176	5,927	8,499	9,169
U. California, Davis	65	10,195	9,032	11,138	10,963	7,160	6,595	8,529	8,183
Indiana U., Bloomington	66	12,816	11,417	11,070	10,880	9,644	8,075	7,332	6,965
U. Virginia, Charlottesville	67	12,224	10,671	11,632	10,841	10,220	8,967	9,731	8,818
U. Arkansas, Fayetteville	68	4,313	3,443	5,378	10,730	2,292	2,070	3,723	9,144
Washington State U.	69	12,549	10,978	9,653	10,674	6,837	8,560	7,274	7,374

TABLE 51

Total and federally financed higher education R&D expenditures in physics, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Auburn U., Auburn	70	7,842	9,147	8,907	10,216	5,012	4,549	4,791	5,600
U. Massachusetts, Amherst	71	8,927	7,995	8,782	9,845	4,976	5,267	5,750	6,233
Brown U.	72	7,968	8,542	9,155	9,713	3,718	5,221	5,729	7,048
Washington U., Saint Louis	73	5,060	5,680	6,504	9,591	4,606	5,255	6,119	8,853
U. Oklahoma, Norman and Health Science Center	74	6,397	6,446	8,205	9,518	3,054	2,907	4,237	3,984
Kansas State U.	75	8,209	8,759	11,342	9,235	6,007	6,616	8,099	7,322
U. Mississippi	76	7,658	7,568	8,566	9,145	5,768	5,690	5,710	6,725
U. Houston	77	8,637	7,385	9,044	8,983	2,775	2,809	3,255	3,424
Air Force Institute of Technology	78	7,796	15,999	11,934	8,942	4,973	8,037	8,136	7,070
U. Arizona	79	9,230	9,072	5,890	8,431	5,464	5,685	4,432	5,493
U. California, Riverside	80	7,777	8,003	7,334	8,244	6,880	6,534	6,196	6,491
U. California, Santa Cruz	81	6,991	6,919	6,876	8,099	4,865	4,666	5,534	6,051
Georgetown U.	82	5,833	7,444	9,852	7,933	4,763	6,119	7,318	5,503
U. Utah	83	0	8,945	0	7,843	0	5,381	0	6,043
Abilene Christian U.	84	ne	4,209	5,746	7,663	ne	712	905	836
West Virginia U.	85	7,810	4,887	5,551	7,525	5,765	3,757	4,282	5,811
U. Toledo	86	4,645	6,700	6,033	7,520	3,237	4,768	5,259	5,644
U. Connecticut	87	6,034	5,482	5,753	7,477	4,609	4,030	4,284	5,725
New Mexico Institute of Mining and Technology	88	1,074	984	1,649	7,084	1,061	972	1,543	6,995
U. New Mexico	89	4,272	4,044	4,943	6,754	3,846	3,524	4,363	6,249
Colorado School of Mines	90	5,398	5,336	5,455	6,694	5,059	4,957	4,850	5,660
Virginia Polytechnic Institute and State U.	91	7,831	7,913	7,798	6,660	4,788	5,196	5,300	5,006
Georgia State U.	92	5,727	4,705	4,220	6,614	5,143	2,893	2,425	3,460
U. Maine	93	5,267	5,645	5,637	6,610	1,648	2,161	2,237	2,820
William & Mary	94	5,280	5,491	5,421	6,219	4,049	3,774	4,291	5,080
Texas Tech U.	95	7,419	7,553	6,739	6,144	1,215	1,141	1,391	1,861
CUNY, Advanced Science Research Center	96	2,778	4,490	6,640	6,128	2,096	3,559	5,277	4,152
Clemson U.	97	5,747	5,915	6,199	6,050	3,820	4,288	4,752	5,178
U. Nevada, Las Vegas	98	3,807	4,851	5,075	5,998	982	1,428	1,638	2,617
U. Texas, Dallas	99	5,219	4,550	4,911	5,916	2,914	2,588	2,928	3,867
Brandeis U.	100	9,118	7,813	5,693	5,890	5,523	4,522	1,577	2,311
Brigham Young U., Provo	101	2,034	2,337	2,586	5,702	1,676	1,927	2,487	2,565
Colorado State U., Fort Collins	102	2,855	2,956	3,551	5,625	2,101	2,460	3,053	4,966
Ohio U.	103	3,971	4,088	4,837	5,556	2,885	3,070	3,723	3,756
George Washington U.	104	4,334	3,752	4,105	5,537	3,597	2,898	3,669	3,887

TABLE 51

Total and federally financed higher education R&D expenditures in physics, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed					
		2020	2021	2022	2023	2020	2021	2022	2023		
North Carolina Central U.	105	2,878	2,601	4,495	4,987	i	2,834	2,356	4,251	4,710	i
U. Kansas	106	2,108	3,264	3,660	4,935		1,983	2,365	2,908	3,551	
Oregon State U.	107	1,310	1,564	2,856	4,917		1,304	1,554	2,831	4,827	
Old Dominion U.	108	4,731	4,551	5,169	4,709		3,510	3,352	3,424	3,532	
Mississippi State U.	109	3,475	3,675	4,123	4,696		1,138	1,022	1,396	1,924	
Rochester Institute of Technology	110	3,504	3,585	4,681	4,680		2,160	2,165	2,990	3,363	
Oakland U.	111	2,300	2,819	3,850	4,650		886	1,208	1,316	1,276	
U. Texas, San Antonio	112	4,254	4,510	4,123	4,640		3,017	3,090	2,485	2,689	
U. Maryland, Baltimore County	113	2,753	2,869	4,686	4,629		2,300	2,570	3,621	3,349	
New Jersey Institute of Technology	114	4,366	4,153	4,166	4,620		1,542	1,640	1,575	1,205	
U. North Dakota	115	1,123	812	669	4,606		129	31	142	3,947	
U. Miami	116	3,713	3,682	4,334	4,586		3,161	3,353	4,060	3,963	
U. Cincinnati	117	3,078	3,202	3,250	4,530		2,036	2,328	2,151	2,679	
Emory U.	118	3,433	4,835	3,804	4,521		2,729	2,984	2,719	3,189	
U. Hawaii, Manoa	119	4,021	4,291	4,063	4,508		3,792	3,763	3,488	4,068	
Wayne State U.	120	3,654	4,254	4,872	4,286		2,469	3,071	3,356	2,895	
Oklahoma State U., Stillwater	121	4,604	4,483	4,097	4,205		1,357	1,461	1,843	1,935	
Delaware State U.	122	1,313	i	1,340	2,640		873	i	1,003	2,175	3,605
Northern Illinois U.	123	4,024		3,875	3,431		4,146	2,567	2,460	2,833	3,083
SUNY, Binghamton U.	124	6,624		4,123	4,570		4,145	2,318	1,619	1,153	1,146
U. South Florida ^d	125	4,213		3,623	4,127		4,096	2,114	1,867	2,196	1,777
U. North Carolina, Charlotte	126	2,742		1,757	2,010		4,087	1,901	1,310	1,517	2,428
Florida International U.	127	8,185		5,218	4,440		4,058	3,976	2,345	2,262	2,657
CUNY, City C.	128	3,361		3,553	4,153		3,997	2,626	3,228	3,771	3,952
U. Nevada, Reno	129	4,235		2,947	3,720		3,975	2,590	2,399	2,602	3,382
Boston C.	130	1,814		3,320	3,271		3,871	1,471	1,997	2,327	2,948
Temple U.	131	6,708		6,242	6,046		3,844	3,720	3,387	3,258	3,180
SUNY, U. Buffalo	132	3,526		3,283	2,610		3,821	2,412	2,319	1,751	2,396
Southern Methodist U.	133	2,378		2,504	3,127		3,819	1,934	2,266	2,436	1,724
Baylor U.	134	2,968		2,955	3,786		3,694	1,136	1,158	1,586	1,241
Kent State U.	135	2,591		2,378	2,666		3,664	1,617	1,282	1,717	2,421
U. Oregon	136	7,248		3,462	3,502		3,578	4,826	2,937	2,556	3,093
Hampton U.	137	3,142		3,409	3,625		3,556	3,142	3,409	3,625	3,556
U. Texas, El Paso	138	2,155		2,801	3,622		3,551	1,024	1,559	1,675	1,860
U. North Texas, Denton	139	3,689		3,205	2,974		3,453	1,222	1,099	995	1,047

TABLE 51

Total and federally financed higher education R&D expenditures in physics, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Kentucky	140	3,751	3,124	3,509	3,402	3,116	2,434	3,240	2,957
U. South Carolina, Columbia	141	3,777	3,050	2,613	3,323	2,264	1,467	1,401	1,336
U. Alabama, Birmingham	142	2,491	2,339	3,152	3,304	2,214	2,093	2,462	2,732
U. California, Merced	143	3,101	2,344	2,663	3,118	2,119	871	1,571	2,586
American U.	144	3,867	3,614	3,368	3,091	3,205	2,976	2,754	3,091
Lehigh U.	145	1,348	1,577	2,478	3,080	868	1,102	1,620	2,327
U. New Hampshire	146	2,672	2,786	3,124	3,071	2,283	1,461	1,577	1,412
U. Georgia	147	2,701	2,499	2,900	3,055	792	516	789	823
Tulane U.	148	2,986	2,791	2,275	3,051	1,971	1,748	1,647	2,183
Jackson State U.	149	1,451	1,160	1,955	2,982	1,314	1,011	1,687	2,541
Rensselaer Polytechnic Institute	150	2,554	2,883	4,177	2,955	1,151	1,240	1,281	1,142
U. Alabama, Tuscaloosa	151	3,530	4,005	2,683	2,911	2,568	2,558	2,529	2,580
U. Alabama, Huntsville	152	1,767	2,284	2,957	2,839	886	1,172	1,722	1,360
Illinois Institute of Technology	153	2,476	3,110	3,352	2,779	2,125	2,613	2,884	2,421
Utah State U.	154	2,462	2,172	2,275	2,720	1,661	1,421	1,633	2,200
Naval Postgraduate School	155	6,244	4,070	2,751	2,649	6,178	3,899	2,674	2,580
SUNY, U. Albany	156	2,427	1,977	2,779	2,638	533	609	596	720
Worcester Polytechnic Institute	157	1,351	2,239	1,964	2,443	582	1,136	944	1,379
Michigan Technological U.	158	2,169	2,218	2,218	2,441	640	553	564	614
Morgan State U.	159	234	385	1,394	2,427	218	374	1,305	2,384
San Jose State U.	160	626	1,301	1,728	2,271	615	822	1,198	1,167
U. Puerto Rico, Rio Piedras	161	1,653	1,919	1,614	2,160	1,067	1,454	1,002	1,474
Case Western Reserve U.	162	1,767	1,702	1,940	2,110	1,610	1,476	1,695	1,912
Florida A&M U.	163	1,371	1,323	1,891	2,104	1,327	1,321	1,861	2,086
Fisk U.	164	200	1,022	1,283	2,038	200	904	1,050	1,362
San Diego State U.	165	1,561	1,594	1,420	2,022	440	517	644	853
U. Louisiana, Lafayette	166	1,283	3,442	1,826	2,012	44	2,011	63	70
South Dakota School of Mines and Technology	167	693	1,143	1,709	2,010	693	865	1,471	1,815
New Mexico State U.	168	1,386	1,675	1,792	1,994	1,132	1,322	1,355	1,541
U. South Dakota	169	1,555	1,691	1,727	1,975	976	1,028	1,254	1,309
CUNY, Hunter C.	170	1,194	1,015	1,446	1,907	973	954	1,189	1,303
U. Massachusetts, Boston	171	1,214	1,479	1,153	1,828	533	624	450	427
Virginia Commonwealth U.	172	1,249	1,379	1,547	1,701	901	992	1,190	1,139
North Carolina A&T State U.	173	1,116	910	1,296	1,608	1,049	877	1,269	1,468
U. Texas Rio Grande Valley	174	595	807	1,280	1,594	594	683	917	1,115

TABLE 51

Total and federally financed higher education R&D expenditures in physics, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Stevens Institute of Technology	175	1,824	1,518	1,376	1,576	1,648	1,242	1,188	1,204
Drexel U.	176	258	1,339	1,696	1,575	0	1,119	1,313	1,182
CUNY, Graduate Center	177	630	547	0	1,445	435	518	0	10
Central Michigan U.	178	2,366	1,651	1,558	1,428	1,943	1,627	1,537	1,425
California State U., Northridge	179	2,567	1,525	1,605	1,379	2,373	1,508	1,574	1,348
Christopher Newport U.	180	766	705	803	1,372	518	526	647	1,200
U. Wisconsin-Milwaukee	181	6,526	3,324	1,813	1,360	4,260	1,985	1,153	840
California Polytechnic State U., San Luis Obispo	182	2,494	1,757	2,142	1,309	937	658	962	1,072
Wake Forest U.	183	1,366	1,080	1,087	1,296	1,103	936	874	1,099
Creighton U.	184	837	951	1,204	1,253	529	571	800	844
Louisiana Tech U.	185	980	1,055	1,016	1,246	252	232	214	323
Florida Institute of Technology	186	1,364	2,513	1,051	1,210	1,193	1,887	490	725
U. California, San Francisco	187	917	1,325	904	1,191	0	1	0	0
U.S. Naval Academy	188	1,217	1,001	840	1,180	1,193	897	769	1,152
Texas State U.	189	735	1,251	1,064	1,132	734	1,127	922	967
Florida Atlantic U.	190	991	849	561	1,129	481	404	460	566
U. San Diego	191	918	879	862	1,105	496	402	272	397
U. Vermont	192	2,441	1,104	1,199	1,095	1,383	616	653	627
Rutgers, State U. New Jersey, Newark	193	408	371	1,685	1,090	261	316	927	519
Texas Christian U.	193	299	173	1,612	1,090	175	154	220	411
Western Michigan U. and Homer Stryker M.D. School of Medicine	195	660	537	639	1,089	509	442	393	582
U. Memphis	196	791	770	404	1,079	353	341	0	158
Norfolk State U.	197	650	732	1,051	1,051	650	732	1,051	1,051
Indiana U.-Purdue U., Indianapolis	198	507	486	990	1,038	455	486	912	1,008
California State U., Dominguez Hills	199	25	0	856	1,037	3	0	593	892
U. Idaho	200	245	246	396	1,025	160	160	163	198
U. Massachusetts, Dartmouth	201	499	716	843	1,014	75	41	74	35
U. Wyoming	202	679	549	467	1,005	652	511	463	983
Chicago State U.	203	ne	ne	651	1,003	ne	ne	651	1,003
San Francisco State U.	204	883	927	1,134	980	493	498	425	563
California State U., San Bernardino	205	0	80	529	975	0	62	520	956
Missouri U. of Science and Technology	206	3,792	1,873	1,162	972	2,758	883	595	755
California State Polytechnic U., Humboldt	207	144	14	825	958	76	7	32	54
U. Missouri, Kansas City	208	894	897	624	956	726	667	428	302
Illinois State U.	209	229	280	222	945	220	214	219	691

TABLE 51

Total and federally financed higher education R&D expenditures in physics, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
East Carolina U.	210	814	621	474	909	305	401	270	256
Texas A&M U.-Commerce	211	810	783	853	895	688	678	741	657
Villanova U.	212	520	492	799	880	306	273	628	705
Rockefeller U.	213	2,464	1,305	966	866	583	348	187	179
Idaho State U.	214	742	885	1,109	858	394	403	443	237
SUNY, Geneseo	215	683	928	751	854	542	632	648	715
Northern Arizona U.	216	941	858	633	852	352	373	369	718
U. Denver	217	1,456	1,230	1,750	848	795	598	986	325
U. Washington, Bothell	218	156	681	1,152	838	156	681	1,152	766
Rowan U.	219	276	752	689	830	194	695	658	322
George Mason U.	220	842	646	671	813	700	466	434	447
California State U., San Marcos	221	841	339	482	810	841	336	482	677
Wichita State U.	222	0	0	578	801	0	0	372	610
Colgate U.	223	147	389	417	784	19	82	179	272
Howard U.	224	762	720	777	754	612	583	665	437
Wesleyan U.	225	1,130	909	909	752	791	597	508	442
Amherst C.	226	705	570 i	746	737	603	434	590	470
Western Kentucky U.	227	425	433	600	730	289	316	394	518
Embry-Riddle Aeronautical U.	228	1,787	2,244	1,508	719	902	873	512	279
Clarkson U.	229	388	1,005	629	715	244	139	157	150
U. New Orleans	230	803	749	713	707	551	469	378	399
North Dakota State U.	231	732	970	1,023	705	197	514	441	134
California State U., Fullerton	232	481	448	530	683	396	316	325	218
Clark U.	233	1,054	1,069	734	682	586	643	469	294
Tufts U.	234	1,621	1,872	2,686	669	1,587	1,798	2,509	560
U. North Florida	235	197	162	450	665	88	100	178	308
California State U., East Bay	236	584	539	396	658	221	301	197	495
Wright State U.	237	1,250	975	888	652	1,014	847	689	564
U. Puerto Rico, Mayaguez	238	367	386	414	642	292	293	367	548
Southern Illinois U., Carbondale	239	327	537	432	623	243	257	306	445
Alabama A&M U.	240	331 i	367 i	414 i	614 i	259 i	327 i	405 i	536 i
Harvey Mudd C.	241	284	362	589	609	96	148	344	237
U.S. Air Force Academy	242	2,714	1,846	1,150	575	2,714	1,796	1,110	575
South Carolina State U.	243	414 i	456 i	498 i	541	414 i	456 i	498 i	541
CUNY, New York City C. of Technology	244	212	326	540	538	200	314	523	499

TABLE 51

Total and federally financed higher education R&D expenditures in physics, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
CUNY, Queens C.	244	458	423	568	538	171	278	353	307
Texas Southern U.	246	277	199	208	528	188	95	97	416
Bryn Mawr C.	247	462	462	655	527	55	257	368	320
U. Colorado Denver ^e	248	na	417	708	524	na	417	708	508
U. Colorado Anschutz Medical Campus ^e	249	na	391	566	521	na	344	353	279
Boise State U.	250	202	131	342	514	94	79	263	442
U. Alaska, Fairbanks	251	0	0	263	512	0	0	6	244
U. Montana, Missoula	252	260	231	283	506	77	117	125	292
Cleveland State U.	253	786	427	402	490	409	191	169	223
Kenyon C.	253	291	ne	330	490	194	ne	279	438
U. Nebraska, Omaha	255	58	73	154	477	0	47	99	446
James Madison U.	256	298	516	893	470	182	266	223	204
Bowling Green State U.	257	849	784	348	460	590	649	241	319
U. Tennessee, Chattanooga	258	0	0	0	456	0	0	0	0
CUNY, Brooklyn C.	259	193	198	200	445	118	177	166	376
Seton Hall U.	260	0	0	151	433	0	0	151	231
Georgia Southern U.	261	120	415	421	424	47	32	22	34
U. Louisville	262	426	702	297	422	57	81	68	96
U. Rhode Island	263	100	20	102	421	79	20	86	155
Yeshiva U.	264	286	253	682	419	286	253	682	419
Southern Illinois U., Edwardsville	265	0	525	261	376	0	122	261	376
Morehouse C.	266	216	146	277	354	216	146	277	354
CUNY, Baruch C.	267	276	256	306	347	275	253	298	347
Prairie View A&M U.	268	932	692	388	346	97	185	130	130
Tennessee State U.	268	0	0	0	346	0	0	0	346
Pomona C.	270	103	167	229	341	0	139	174	155
Appalachian State U.	271	115	320	611	340	98	166	391	160
Miami U.	272	142	142	434	339	116	95	263	209
SUNY, C. Plattsburgh	273	126	65	13	331	110	41	13	270
U. Minnesota, Duluth	274	123	250	208	330	17	175	152	262
Trinity U.	275	218	139	143	320	61	115	97	146
Reed C.	276	129	128	273	310	41	43	180	204
Middlebury C.	277	19	276	196	309	0	276	196	295
Gallaudet U.	278	0	92	60	308	0	92	59	184
Tennessee Technological U.	279	594	504	471	302	488	402	318	251

TABLE 51

Total and federally financed higher education R&D expenditures in physics, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Central Oklahoma	280	557 i	583 i	270 i	301 i	512 i	537 i	89 i	99 i
California State U., Sacramento	281	207	176	270	295	152	125	150	165
U. Nebraska, Kearney	282	17	16	157	294	9	0	57	210
U. Tulsa	283	163	207	342	293	71	103	288	234
Lafayette C.	284	227	211	235	292	205	194	206	268
California State U., Los Angeles	285	639	395	721	291	622	394	691	291
West Chester U. Pennsylvania	286	98	238	454	290	0	55	202	178
Southern U. and A&M C., Baton Rouge	287	634	450	68	283	427	227	68	283
Chapman U.	288	81	88	135	277	71	86	95	112
Utah Valley U.	289	ne	ne	320	262	ne	ne	316	231
Haverford C.	290	147 i	87 i	224 i	259 i	49	51	178	214
Lamar U.	291	26	49	53	258	0	49	30	187
Marquette U.	292	320	427	412	253	225	291	296	206
Southern Connecticut State U.	293	13	91	224	252	0	0	13	37
Davidson C.	294	45	107	261	249	45	107	210	137
Seattle U.	295	79	84	206	246	58	79	126	198
Indiana U., South Bend	296	ne	248	ne	244	ne	244	ne	218
Swarthmore C.	297	353	236	190	243	139	162	110	146
California State U., Chico	298	150	162	105	237	144	162	104	230
Fordham U.	299	0	0	0	223	0	0	0	0
Hofstra U.	299	2	16	22	223	0	0	0	0
Tougaloo C.	299	81	81 i	197 i	223 i	81	81 i	197 i	223 i
Loyola U., Chicago	302	52	166	375	221	0	146	350	198
U. Puerto Rico, Cayey	303	48	62	59	218	48	62	57	194
Mount Holyoke C.	304	22	364	156	215	0	342	155	161
Bucknell U.	305	87 i	85	230	213	87 i	85	194	211
Northern Kentucky U.	306	270	159	168	212	203	33	101	56
Williams C.	306	315 i	323 i	186 i	212 i	182 i	193 i	89 i	101 i
Grinnell C.	308	58	231	46	211	0	0	0	0
New York Institute of Technology	308	0	3	101	211	0	3	101	190
Santa Clara U.	310	145	148	163	208	130	144	138	202
U. Dayton	311	438	511	312	207	428	507	312	207
C. New Jersey	312	312	239	754	206	306	233	730	185
Long Island U.	313	109	151	151	203	51	54	76	65
U. of the Incarnate Word	313	0	60	179	203	0	60	179	203

TABLE 51

Total and federally financed higher education R&D expenditures in physics, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Central Washington U.	315	109	29	500	199	103	27	497	199
Eastern Kentucky U.	315	40	71	ne	199	35	64	ne	150
Colorado C.	317	37	47	53	194	15	4	33	148
Hamilton C.	317	44	40	9	194	3	8	9	1
Hope C.	319	560	615	534	188	444	524	329	159
Smith C.	320	102	220	102	187	95	212	81	160
Towson U.	320	191	278	306	187	50	115	246	170
U. South Alabama	322	26	37	107	183	25	35	106	178
Azusa Pacific U.	323	68	78	65	182	0	0	0	0
U. Colorado Colorado Springs	324	145	185	185	179	22	25	112	97
Bowdoin C.	325	131	79	106	178	125	78	106	169
Franklin and Marshall C.	326	78	156	206	176	48	96	141	91
U. North Georgia	326	91	0	0	176	0	0	0	17
Coastal Carolina U.	328	0	68	154	175	0	60	111	155
Hobart and William Smith Colleges	329	95	116	188	174	82	99	179	162
U. Northern Iowa	330	86	125	174	172	86	117	168	165
Indiana U. Pennsylvania	331	218	189	218	171	175	171	181	171
California State U., Fresno	332	283	178	418	170	252	178	345	145
Dillard U.	333	959	205	155	163	646	205	155	163
Portland State U.	334	418	317	249	157	344	303	238	30
Tuskegee U.	334	32	35	21	157	32	35	21	151
Occidental C.	336	103	111	129	147	70	64	71	80
Ursinus C.	336	ne	ne	ne	147	ne	ne	ne	142
Drake U.	338	ne	221	211	146	ne	200	211	146
Middle Tennessee State U.	339	0	292	349	143	0	56	148	105
Sam Houston State U.	340	74	170	140	141	72	147	112	141
U. Richmond	341	112	91	88	139	98	78	81	122
Oberlin C.	342	270	141	ne	135	191	132	ne	124
Clark Atlanta U.	343	671	477	188	134	662	456	184	130
Spelman C.	343	0	0	19	134	0	0	19	134
U. Hawaii, Hilo	343	36	34	166	134	36	33	159	118
CUNY, C. Staten Island	346	542	242	96	130	542	239	57	92
Carleton C.	347	84	250	93	122	84	101	77	113
Southeastern Louisiana U.	347	113	107	218	122	44	38	118	89
Black Hills State U.	349	116	94	101	120	91	94	95	113

TABLE 51

Total and federally financed higher education R&D expenditures in physics, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
SUNY, C. Brockport	349	5	11	96	120	2	11	79	100
Duquesne U.	351	122	46	123	118	43	34	83	84
Mercer U.	352	87	92	95	117	0	0	0	18
Ball State U.	353	9	65	98	114	0	21	39	42
Roger Williams U.	353	0	0	30	114	0	0	30	93
South Dakota State U.	355	33	86	48	111	32	83	45	108
Claremont McKenna C.	356	59	59	304	109	59	59	304	109
Saint Joseph's U.	356	66	32	117	109	0	0	0	0
C. Wooster	358	75	103 i	127	108	35	42 i	60	108
Ithaca C.	359	22	47	98	106	0	13	42	56
Montclair State U.	360	43	19	121	105	0	0	38	86
U. Wisconsin-La Crosse	361	188	252	105	102	151	243	73	68
Pennsylvania State U., Behrend	362	22	17	35	99	15	17	35	99
Rutgers, State U. New Jersey, Camden	363	32	2	28	98	0	0	0	0
U. Puerto Rico, Humacao	364	0	419	574	96	0	245	286	96
Austin Peay State U.	365	13	50	26	95	13	50	0	94
C. Charleston	366	135	223	209	94	72	118	190	68
California State U., Stanislaus	367	5	12	9	93	0	0	0	72
U. Wisconsin-Green Bay	368	63 i	57 i	79 i	85 i	39 i	36 i	44 i	52 i
Central State U.	369	0	51	0	82	0	51	0	82
U. Maryland Center for Environmental Science	370	72	61	74	76	72	61	74	76
Bates C.	371	155	175	159	75	94	37	0	0
Pennsylvania State U., Altoona	372	ne	ne	ne	74	ne	ne	ne	0
U. Missouri, Saint Louis	372	3	39	56	74	0	28	56	74
Citadel Military C. South Carolina	374	0	24	80	72	0	7	73	11
Wellesley C.	375	0	23	0	71	0	23	0	0
U. Arkansas, Little Rock	376	0	0	13	69	0	0	13	62
St. Olaf C.	377	31	4	ne	68	7	0	ne	25
U. Wisconsin-River Falls	378	175	36	ne	67	174	36	ne	62
Grand Valley State U.	379	10	3	26	64	9	0	1	0
Colby C.	380	89	65	39	61	74	41	31	42
U. of Mary Washington	380	5	32	39	61	5	25	28	53
U. of Health Sciences and Pharmacy in St. Louis	382	0	0	9	59	0	0	9	3
Lawrence Technological U.	383	6	54	143	57	6	48	132	57
Willamette U.	384	108	5	19	55	4	0	0	47

TABLE 51

Total and federally financed higher education R&D expenditures in physics, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Marshall U.	385	11	22	26	54	0	12	3	23
Salisbury U.	386	43	48	48	53	0	0	0	0
Texas A&M International U.	386	38	37	43	53	38	37	43	53
U. Wisconsin-Platteville	388	0 i	39 i	47 i	51 i	0 i	16 i	20 i	21 i
Kennesaw State U.	389	288	253	161	50	165	160	161	50
Texas A&M U.-Corpus Christi	390	0	0	12	48	0	0	0	0
SUNY, Buffalo State U.	391	3	0	0	47	2	0	0	47
U. Wisconsin-Oshkosh	392	27 i	30	16	46	0 i	0	11	19
C. of Saint Benedict	393	37 i	32 i	36 i	42 i	0 i	3 i	3 i	4 i
Pacific U.	393	41	21	36	42	21	16	21	34
Saint John's U.	393	33 i	32 i	37 i	42 i	0 i	0 i	0 i	0 i
Saint Louis U.	396	156	11	69	40	67	11	7	0
St. John's U., New York	396	76	1	13	40	0	0	0	0
Murray State U.	398	20	6	53	39	0	0	35	9
Sacred Heart U.	398	ne	0	ne	39	ne	0	ne	0
Western Illinois U.	398	39	16	37	39	39	16	37	39
SUNY, Oswego	401	23	46	11	37	0	0	0	0
Gettysburg C.	402	80	ne	ne	36	41	ne	ne	3
U. Northern Colorado	403	50	24	57	35	0	0	12	35
Youngstown State U.	403	23	25	0	35	20	24	0	0
Whitman C.	405	104	ne	46	33	77	ne	3	0
Elon U.	406	27	21	19	31	0	0	0	0
Monmouth U.	406	0	15	99	31	0	15	99	31
Gustavus Adolphus C.	408	ne	ne	ne	30	ne	ne	ne	0
Trinity C., Hartford	409	4	1	3	29	0	0	0	0
U. Alaska, Anchorage	410	0	32	42	28	0	32	42	28
U. Hartford	411	0	0	4	25	0	0	0	17
Fairfield U.	412	52	63	ne	23	42	50	ne	9
U. Central Arkansas	413	80	255	200	22	76	176	132	7
Ferris State U.	414	ne	ne	ne	21	ne	ne	ne	17
Furman U.	414	12	9	61	21	1	1	1	1
Clafin U.	416	50	25	27	20	50	25	27	20
Fort Lewis C.	416	0	0	0	20	0	0	0	14
Macalester C.	418	171	272	24	19	31	172	0	0
Indiana State U.	419	121	56	104	16	121	56	104	16

TABLE 51

Total and federally financed higher education R&D expenditures in physics, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Skidmore C.	419	49	42	0	16	41	34	0	14
Virginia Military Institute	419	ne	ne	17	16	ne	ne	0	0
U. Maryland, Eastern Shore	422	0	0	0	15	0	0	0	15
Union C., Schenectady	422	110	6	102	15	81	6	22	0
Wheaton C., Wheaton	422	93	50	ne	15	66	35	ne	0
Calvin U.	425	6 i	8 i	11 i	14 i	0 i	0 i	0	0
Lincoln U.	425	ne	ne	ne	14	ne	ne	ne	14
Texas A&M U.-Kingsville	425	1	33	4	14	0	0	0	0
Eastern Washington U.	428	66	63	118	11	66	62	118	0
Nova Southeastern U.	428	0	0	0	11	0	0	0	0
Vassar C.	428	232	121	14	11	147	89	0	0
CUNY, Lehman C.	431	409	495	0	9	409	413	0	0
U. San Francisco	431	27	4	15	9	0	0	0	0
California State Polytechnic U., Pomona	433	89	40	27	8	89	40	27	1
U.S. Coast Guard Academy	433	ne	ne	ne	8	ne	ne	ne	0
Robert Morris U.	435	ne	ne	6 i	7	ne	ne	0 i	0
U. North Carolina, Asheville	435	0	0	0	7	0	0	0	7
New C. Florida	437	ne	ne	ne	6	ne	ne	ne	0
U. Puget Sound	438	96	ne	7	5	50	ne	0	0
U. Scranton	438	ne	ne	ne	5	ne	ne	ne	0
Eastern Michigan U.	440	114	13	34	4	31	9	0	0
Northern Michigan U.	440	26	3	1	4	0	0	0	0
Purdue U., Fort Wayne	440	3	10	15	4	0	0	0	0
St. Cloud State U.	443	11	9	14	2	3	0	0	0
U. North Carolina, Greensboro	443	50	44	0	2	5	0	0	0
DePaul U.	445	267	211	0	1	205	211	0	0
Eastern Connecticut State U.	445	0	0	0	1	0	0	0	0
La Sierra U.	445	1	1	1	1 i	0	0	0	0 i
Pepperdine U.	445	2	10	21	1	0	0	0	0
U. Akron	445	0	0	4	1	0	0	0	0
All other surveyed institutions	-	24,135	24,068	19,533	0	18,183	15,972	12,442	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

^a Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$245,923 thousand imputed for total and \$240,253 thousand reported for federally financed R&D expenditures in physics in FY 2023. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^c The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

^d The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

^e The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 52

Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
All institutions	-	1,364,798	1,329,531	1,446,429	1,637,829	808,930	812,460	876,792	978,784
U. North Carolina, Chapel Hill	1	41,741	43,348	49,297	56,582	23,840	24,136	25,474	27,799
Uniformed Services U. of the Health Sciences	2	7,672	17,880	19,412	47,901	5,704	13,369	14,109	39,377
Pennsylvania State U., University Park and Hershey Medical Center	3	40,599	29,685	30,225	41,284	26,894	26,302	25,948	28,731
Florida International U.	4	34,642	34,345	37,185	41,054	18,163	17,520	19,381	22,453
U. Minnesota, Twin Cities	5	31,954	29,408	29,392	33,730	24,430	20,743	20,176	23,854
U. Connecticut	6	21,553	22,130	26,385	30,889	13,270	13,692	15,765	19,530
U. Georgia	7	25,773	27,865	30,933	30,072	15,401	17,784	20,630	19,318
New York U.	8	28,468	27,209	30,932	26,613	22,886	22,255	23,286	21,388
Boston U.	9	20,413	22,092	24,237	26,387	12,411	13,117	14,406	14,547
U. Michigan, Ann Arbor	10	20,413	18,255	20,806	23,483	6,479	6,813	7,831	9,184
San Diego State U.	11	20,222	18,729	19,549	23,094	13,516	12,013	13,806	16,043
U. Oregon	12	17,505	19,455	21,629	22,362	15,759	16,939	19,021	19,850
U. California, Los Angeles	13	19,087	17,464	17,022	20,440	13,035	10,897	10,908	13,995
U. California, Berkeley	14	19,329	16,892	16,945	20,253	9,515	9,164	9,775	8,162
U. Houston	15	13,999	13,601	17,383	19,682	9,765	9,784	9,962	12,202
Florida State U.	16	17,715	16,829	17,992	19,078	9,763	8,887	9,390	9,248
U. Texas M. D. Anderson Cancer Center	17	16,860	17,939	19,296	18,290	3,013	2,854	5,279	4,918
U. Miami	18	13,896	14,808	16,155	18,271	10,048	10,170	12,402	14,258
Vanderbilt U. and Vanderbilt U. Medical Center	19	15,682	15,687	15,372	17,439	7,496	7,238	7,731	9,667
U. Pennsylvania	20	15,854	15,250	16,035	17,413	9,563	9,265	8,545	8,656
Arizona State U.	21	17,645	14,623	15,720	17,382	9,253	7,599	7,441	8,950
U. Nebraska, Lincoln and Medical Center ^a	22	na	na	na	17,233	na	na	na	10,234
Indiana U., Bloomington	23	13,021	13,211	13,583	16,940	6,822	6,621	8,050	10,082
San Jose State U.	24	19,670	18,930	17,046	16,798	19,256	18,043	16,209	15,762
U. Texas, Austin	25	10,435	10,293	11,067	16,683	7,422	8,001	8,511	11,970
U. Colorado Boulder	26	11,982	13,610	13,945	16,643	10,667	11,879	12,052	12,204
U. Pittsburgh, Pittsburgh	27	17,680	16,966	16,203	16,409	14,586	14,484	13,101	13,588
Rutgers, State U. New Jersey, New Brunswick	28	8,256	6,145	10,418	15,490	3,961	3,028	5,562	8,532
U. Florida	29	10,922	12,597	14,968	15,487	7,199	9,487	11,349	11,545
Dartmouth C. and Dartmouth Hitchcock Medical Center	30	13,239	11,670	15,457	15,408	9,013	9,477	9,764	10,158
U. Illinois, Urbana-Champaign	31	16,086	15,063	13,192	15,234	10,020	9,182	7,597	7,736
U. California, Irvine	32	11,448	10,898	11,147	14,662	2,909	3,507	5,864	7,151
Stanford U.	33	18,866	16,587	15,648	14,151	10,782	10,678	10,450	10,153
Michigan State U.	34	16,399	13,042	13,643	14,085	8,921	7,758	8,633	8,883

TABLE 52

Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. South Carolina, Columbia	35	11,498	8,759	9,997	13,699	5,018	4,653	5,495	6,419
U. California, San Diego	36	20,113	18,645	19,075	13,623	13,624	13,008	14,355	11,000
U. Wisconsin-Madison	37	12,090	10,944	10,208	13,198	7,467	6,299	4,589	5,201
Georgia State U.	38	8,952	9,692	10,364	12,584	4,236	3,131	3,678	4,347
Cornell U.	39	11,516	11,273	11,971	12,439	4,826	4,359	4,406	4,302
U. Delaware	40	7,485	7,990	12,949	12,376	5,755	6,801	7,107	6,540
Virginia Commonwealth U.	41	10,743	10,533	10,801	12,123	9,648	8,904	9,017	8,509
Northeastern U.	42	8,863	9,695	10,494	12,014	6,922	7,113	7,642	7,387
U. Cincinnati	43	1,667	4,278	8,721	11,756	1,068	2,875	7,994	9,094
U. Alabama, Birmingham	44	5,164	5,695	9,755	11,715	4,434	4,971	5,924	7,961
U. Kansas	45	16,106	11,469	11,416	11,333	5,579	8,056	8,105	6,847
U. Washington, Seattle	46	8,802	11,269	10,431	11,239	7,112	9,989	8,261	8,970
U. Maryland ^b	47	9,288	8,600	9,885	11,142	7,725	7,813	8,513	9,515
Temple U.	48	11,418	11,427	13,248	11,114	6,930	7,574	9,394	8,617
Yale U.	49	9,684	10,453	11,550	11,027	5,983	6,256	6,698	6,752
SUNY, Binghamton U.	50	12,263	10,640	11,896	10,713	3,526	4,331	4,687	5,027
Brown U.	51	7,889	8,598	8,605	10,682	7,262	7,644	7,525	9,599
Texas A&M U., College Station and Health Science Center	52	5,248	6,546	7,635	10,488	2,550	3,233	3,973	6,087
U. Iowa	53	8,817	10,981	10,399	10,435	7,028	8,543	7,899	7,031
U. Arizona	54	2,900	4,255	6,573	10,219	1,971	2,381	4,893	8,221
Duke U.	55	8,953	6,923	7,467	10,189	6,104	4,657	4,671	7,025
Carnegie Mellon U.	56	11,507	10,631	10,640	10,187	9,841	8,940	8,479	8,376
U. Massachusetts, Amherst	57	7,836	8,004	8,227	9,888	5,429	5,747	5,574	6,191
U. Central Florida	58	10,357	9,231	9,368	9,837	7,142	5,719	6,028	5,768
U. Chicago	59	8,006	6,041	7,883	9,445	5,959	4,837	5,801	7,849
Washington U., Saint Louis	60	6,052	6,121	7,209	8,442	4,887	4,997	6,177	7,120
Johns Hopkins U. ^c	61	5,918	6,201	7,744	8,378	5,066	5,471	7,073	7,573
Texas Tech U.	62	10,670	8,762	8,234	8,343	882	1,232	1,267	914
CUNY, Hunter C.	63	14,507	12,382	9,591	8,218	12,455	10,035	7,962	6,538
Harvard U.	63	5,099	4,200	6,355	8,218	2,242	1,867	2,872	3,140
U. Denver	65	5,870	6,659	7,261	8,183	4,092	4,978	5,527	6,865
U. Southern California	66	14,234	9,837	5,103	8,053	4,913	4,508	4,803	7,570
U. South Florida ^d	67	4,710	6,927	7,280	7,605	928	1,692	2,204	2,777
U. New Mexico	68	6,827	6,321	6,521	7,440	5,505	4,765	4,875	6,249
U. Virginia, Charlottesville	69	10,335	7,565	6,549	7,392	4,395	4,677	4,301	4,907

TABLE 52

Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Oklahoma State U., Stillwater	70	9,085	6,926	6,977	7,181	2,900	2,316	1,554	1,938
U. Memphis	71	5,455	5,431	6,817	7,084	1,164	1,632	1,445	1,154
U. California, Riverside	72	2,950	3,791	5,411	6,971	2,189	2,457	3,194	4,838
U. Rochester	73	5,576	5,135	6,367	6,934	4,341	4,328	5,112	5,575
Tufts U.	74	2,420	5,486	5,146	6,701	2,074	4,976	3,673	5,199
U. Missouri, Columbia	75	7,898	5,836	6,487	6,593	6,323	4,219	4,290	4,587
U. Notre Dame	76	5,450	4,454	5,922	6,586	3,845	3,684	4,689	5,314
U. Kentucky	77	3,537	4,185	5,066	6,526	2,882	3,379	4,371	5,715
U. Texas, El Paso	78	5,285	4,407	4,911	6,453	1,603	1,627	2,608	3,567
Montclair State U.	79	2,060	3,099	4,824	6,448	174	236	417	318
Ohio State U.	80	7,542	8,139	10,892	6,403	5,681	6,411	5,508	4,526
Virginia Polytechnic Institute and State U.	81	4,899	4,169	5,111	6,359	2,338	1,868	2,800	3,775
Princeton U.	82	9,240	5,441	4,568	6,305	5,239	2,116	2,078	1,810
U. Massachusetts, Boston	83	4,361	4,292	5,519	6,030	2,198	2,031	3,023	2,665
SUNY, Stony Brook U.	84	4,946	5,557	6,579	5,969	3,725	4,112	5,009	4,121
Baylor U.	85	2,726	3,692	4,051	5,848	384	313	680	1,124
Purdue U., West Lafayette	86	7,176	8,342	8,597	5,839	4,932	6,095	5,814	3,290
SUNY, U. Buffalo	87	5,113	5,677	4,111	5,809	3,537	3,854	3,063	4,357
U. Oklahoma, Norman and Health Science Center	88	1,608	2,599	3,077	5,725	987	2,212	2,506	3,332
Utah State U.	89	4,698	5,331	5,562	5,720	2,430	2,420	2,319	2,211
U. Alabama, Tuscaloosa	90	3,030	5,384	5,349	5,690	1,329	2,362	2,890	3,001
U. Utah	91	11,198	7,255	6,805	5,663	4,900	4,196	5,244	4,213
George Washington U.	92	3,074	3,071	3,090	5,528	2,257	2,282	2,444	3,625
CUNY, Graduate Center	93	576	682	249	5,510	297	370	154	145
Rice U.	94	4,798	5,772	4,805	5,420	3,320	4,283	3,670	4,103
U. Wisconsin-Milwaukee	95	4,404	3,800	4,294	5,341	3,125	2,731	2,884	3,926
Kent State U.	96	4,776	4,536	4,245	5,320	2,684	2,467	2,223	2,294
U. Nevada, Reno	97	5,430	6,422	6,146	5,242	2,469	3,647	3,413	3,255
Brandeis U.	98	4,459	4,546	3,793	5,142	3,125	3,004	1,920	2,889
U. North Dakota	99	1,506	1,713	1,682	4,993	268	325	236	389
U. Texas, Dallas	100	789	4,130	5,601	4,915	20	1,853	2,400	1,992
Kansas State U.	101	5,215	4,287	4,337	4,857	3,998	3,115	3,079	3,314
U. Vermont	102	3,084	3,694	5,186	4,830	1,641	1,531	2,277	2,080
Boston C.	103	4,452	4,588	4,174	4,748	2,343	2,314	2,185	2,443
Emory U.	104	4,817	5,215	4,796	4,712	3,989	4,218	3,668	3,444

TABLE 52

Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Georgia Institute of Technology	105	3,943	3,782	4,126	4,464	1,899	1,944	1,926	2,128
Columbia U. in the City of New York	106	5,234	4,637	5,168	4,443	4,286	3,688	4,091	3,518
U. California, Santa Barbara	107	4,929	3,457	3,276	4,387	3,807	2,266	2,302	2,285
Drexel U.	108	2,852	2,435	3,077	4,336	1,979	1,824	2,247	2,706
George Mason U.	109	3,196	3,029	3,809	4,323	1,696	1,495	2,292	2,881
Washington State U.	110	3,875	5,000	3,860	4,278	1,813	3,271	2,176	2,496
Rush U.	111	1,944	2,399	3,709	4,194	1,905	2,367	3,685	4,184
U. California, Davis	112	3,022	3,177	3,509	4,171	1,153	1,495	1,929	2,955
U. Tennessee, Knoxville	113	5,465	4,744	4,977	4,134	1,882	1,475	1,794	1,578
SUNY, U. Albany	114	4,982	3,748	3,901	4,133	1,148	1,227	1,023	1,259
U. South Alabama	115	311	561	2,217	4,059	39	310	691	1,153
U. Illinois, Chicago	116	3,621	2,928	3,620	4,041	2,253	1,587	1,465	1,182
Rensselaer Polytechnic Institute	117	4,479	4,036	3,954	3,870	2,676	2,075	2,101	2,144
Clemson U.	118	633	1,587	3,225	3,826	416	928	2,665	2,839
U. Rhode Island	119	2,059	3,222	3,552	3,779	705	1,752	2,978	3,098
U. Louisville	120	2,050	1,757	2,457	3,767	725	707	1,112	2,035
Auburn U., Auburn	121	2,824	3,137	3,848	3,763	659	510	603	291
U. North Texas, Denton	122	4,489	2,719	3,186	3,758	900	583	1,017	1,590
Wayne State U.	123	1,464	2,542	2,572	3,539	802	1,602	1,725	2,513
Syracuse U.	124	3,771	3,916	3,719	3,515	1,585	1,695	1,306	1,004
U. North Carolina, Greensboro	125	2,805	3,539	3,551	3,445	2,188	2,403	2,668	2,473
Indiana U.-Purdue U., Indianapolis	126	4,667	4,030	4,196	3,439	4,047	3,422	3,075	2,881
Colorado State U., Fort Collins	127	3,255	3,755	3,476	3,362	3,000	3,335	3,119	2,818
Iowa State U.	128	3,786	3,595	3,852	3,350	890	733	1,100	811
Northwestern U.	129	3,706	3,352	4,231	3,316	2,438	2,528	2,653	1,817
Ohio U.	130	1,827	1,792	2,551	3,242	1,224	1,048	1,611	2,128
California State U., San Bernardino	131	1,775	2,299	2,206	3,229	594	820	663	1,351
U. Texas, San Antonio	132	4,716	2,835	3,738	3,133	2,836	753	918	552
U. Maryland, Baltimore County	133	1,973	1,491	1,891	3,086	1,219	1,015	517	816
Fordham U.	134	1,632	2,116	2,567	3,003	1,365	1,883	1,951	2,377
Oklahoma State U., Center for Health Sciences	135	373	624	1,111	2,998	87	338	906	2,478
Tulane U.	136	1,942	1,771	2,081	2,938	1,589	1,202	1,276	1,839
Brigham Young U., Provo	137	298	382	400	2,863	219	222	148	49
North Dakota State U.	138	2,798	2,283	2,354	2,750	1,078	986	1,349	1,169
Florida Atlantic U.	139	2,306	1,771	2,486	2,749	1,167	1,036	1,126	1,145

TABLE 52

Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed						
		2020	2021	2022	2023	2020	2021	2022	2023			
SUNY, C. of Environmental Science and Forestry	140	180	1,531	2,689	i	2,535	0	0	0	26		
CUNY, Queens C.	141	1,222	1,082	2,015		2,523	1,087	878	1,225	1,665		
Mississippi State U.	142	2,044	1,836	2,015		2,421	491	278	419	544		
U. Texas, Arlington	143	1,329	1,568	1,404		2,416	84	194	248	681		
CUNY, John Jay C. of Criminal Justice	144	3,546	933	2,221		2,412	1,821	109	2,016	2,282		
Nova Southeastern U.	145	596	353	846		2,278	374	153	165	319		
Miami U.	146	1,685	1,510	3,279		2,246	1,212	998	1,226	1,070		
Teachers C., Columbia U.	147	1,387	878	1,729		2,232	618	593	388	546		
U. Arkansas, Fayetteville	148	707	994	1,294		2,080	135	241	493	969		
California State U., Long Beach	149	1,465	1,431	1,974		2,056	1,410	1,411	1,751	1,845		
U. Nevada, Las Vegas	150	3,767	3,738	1,959		2,027	240	3	521	666		
Georgetown U.	151	2,615	949	2,719		2,003	1,358	949	1,278	1,372		
Loyola Marymount U.	152	1,515	1,604	1,713		1,992	447	623	593	724		
Howard U.	153	1,878	2,214	2,546		1,976	1,280	1,510	1,662	218		
U. North Carolina, Charlotte	154	711	750	1,100		1,960	284	328	504	477		
Rowan U.	155	504	739	1,055		1,934	397	686	964	806		
West Virginia U.	156	1,773	2,304	1,638		1,929	1,195	1,531	918	825		
U. Mississippi	157	620	889	2,037		1,918	0	0	25	49		
San Francisco State U.	158	1,496	i	1,617		1,917	1,912	301	i	304	349	222
North Carolina State U.	159	2,479		2,523		1,739	1,887	1,236	1,060	1,002	1,119	
Southern Methodist U.	160	1,457		1,273		1,276	1,872	1,150	1,132	1,105	1,611	
Case Western Reserve U.	161	1,155		1,654		1,539	1,840	670	897	1,292	1,530	
East Carolina U.	162	1,321		974		1,336	1,788	690	612	817	987	
U. North Florida	163	96		249		1,180	1,744	0	201	949	1,324	
U. South Dakota	164	687		1,150		1,288	1,711	80	461	503	859	
CUNY, Brooklyn C.	165	1,264		1,723		1,656	1,693	1,027	1,328	1,618	1,655	
Old Dominion U.	166	1,419		1,381		1,526	1,647	828	913	1,123	1,119	
Rutgers, State U. New Jersey, Newark	167	2,132		1,139		1,039	1,638	1,293	483	432	417	
Western Michigan U. and Homer Stryker M.D. School of Medicine	168	191		302		1,152	1,580	88	177	215	209	
Portland State U.	169	1,766		1,257		1,497	1,554	1,652	1,176	1,427	1,456	
U. Colorado Anschutz Medical Campus ^e	170	na		20		313	1,487	na	20	254	911	
Texas Christian U.	171	189		206		1,827	1,474	114	179	182	232	
Texas Woman's U.	172	488		695		618	1,450	0	0	70	349	
U. Massachusetts, Lowell	173	1,746		1,743		1,726	1,435	921	907	758	344	
Loma Linda U.	174	672	i	597		866	1,413	670	i	595	637	1,240

TABLE 52

Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Oregon State U.	175	1,115	1,035	1,024	1,398	947	706	854	1,085
Wright State U.	176	1,525	1,194	1,388	1,371	1,303	975	1,249	1,236
Southern Illinois U., Carbondale	177	223	381	252	1,348	114	239	137	59
Loyola U., Chicago	178	1,105	1,288	1,115	1,343	935	1,048	809	864
Marquette U.	179	1,140	1,223	991	1,335	202	185	250	169
CUNY, City C.	180	693	15	1,260	1,297	579	0	775	1,178
Barnard C.	181	1,343	1,043	1,030	1,277	1,198	960	873	1,028
Suffolk U.	182	584	438	236	1,275	584	438	236	103
U. Texas Rio Grande Valley	183	917	1,181	1,119	1,268	0	0	23	131
American U.	184	2,248	1,063	1,109	1,266	702	127	81	209
Catholic U. of America	185	347	520	1,064	1,232	237	324	422	465
U. California, Santa Cruz	186	487	868	682	1,226	98	19	98	290
U. Colorado Denver ^e	187	na	1,179	1,554	1,218	na	706	929	673
Wesleyan U.	188	871	1,002	1,363	1,193	692	782	1,189	963
Wichita State U.	189	543	478	1,023	1,138	375	207	352	228
Long Island U.	190	1,189	950	1,119	1,131	50	53	43	10
Villanova U.	191	1,141	900	1,031	1,128	444	273	290	294
California Institute of Technology	192	0	0	0	1,117	0	0	0	1,031
U. New Hampshire	193	877	1,279	1,086	1,110	601	534	409	466
Chapman U.	194	888	1,161	1,329	1,096	842	1,023	1,072	853
Western Kentucky U.	195	672	757	809	1,087	176	275	288	393
Louisiana State U., Baton Rouge	196	902	750	832	1,077	180	159	187	437
New School	197	1,249	635	1,041	1,040	444	318	646	910
U. New Orleans	198	497	523	622	1,034	0	0	0	0
Georgia Southern U.	199	27	1,069	994	1,027	0	0	0	0
Azusa Pacific U.	200	885	844	868	1,021	0	146	269	107
James Madison U.	201	1,379	1,345	1,156	985	0	0	0	0
Montana State U., Bozeman	202	359	415	673	956	114	84	240	575
Spelman C.	203	588	568	565	941	588	568	565	941
Pepperdine U.	204	229	248	174	939	103	100	107	24
Towson U.	205	192	213	586	923	71	106	124	192
California State U., Fullerton	206	106	272	404	918	66	139	170	176
U. Wyoming	207	664	412	883	907	664	47	62	82
Western Washington U.	208	1,213	1,497	1,493	904	127	112	176	76
California State U., San Marcos	209	1,261	1,150	987	894	967	924	875	744

TABLE 52

Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Northern Illinois U.	210	1,057	947	1,018	893	732	849	575	513
Bowling Green State U.	211	1,444	979	1,200	885	167	22	0	0
U. Northern Colorado	212	178	81	80	875	140	55	24	17
U. Tulsa	213	604	472	679	859	7	72	12	131
Michigan Technological U.	214	551	546	697	826	130	106	249	273
Florida Institute of Technology	215	1,652	1,371	1,261	819	537	305	555	427
CUNY, Graduate School of Public Health and Health Policy	216	1,278	1,010	1,994	775	1,278	1,010	1,994	775
U. San Francisco	217	39	28	42	772	0	0	0	0
Cleveland State U.	218	653	762	751	769	69	96	180	163
California State U., Dominguez Hills	219	95	360	435	759	63	292	359	534
U. Maine	220	1,183	1,108	1,217	742	243	135	189	92
Lehigh U.	221	561	398	911	739	396	306	836	656
U. Missouri, Kansas City	222	1,064	646	1,359	714	288	117	556	254
U. Montana, Missoula	223	791	933	716	710	327	467	279	310
CUNY, C. Staten Island	224	342	352	631	709	284	310	597	660
Wake Forest U.	225	847	812	1,035	704	86	69	183	230
U. Missouri, Saint Louis	226	140	241	228	680	48	55	124	303
California State U., Northridge	227	473	255	308	676	455	231	308	440
Northern Kentucky U.	228	437	459	405	674	277	308	256	467
Biola U.	229	2,171	2,274	2,469	665	0	0	0	0
Texas Southern U.	230	0	425	572	661	0	425	572	661
Trinity U.	231	328	313	344	648	209	231	312	527
Wellesley C.	232	229	899	954	636	229	254	170	170
Clark U.	233	622	223	102	613	93	50	0	0
West Chester U. Pennsylvania	234	205	253	457	605	32	41	190	316
U. Hawaii, Manoa	235	441	414	455	603	315	237	285	429
Indiana U. Pennsylvania	236	630	490	728	555	113	50	73	17
Wheaton C., Wheaton	237	299	89	ne	542	0	0	ne	0
St. John's U., New York	238	126	79	357	539	41	27	272	448
Rochester Institute of Technology	239	60	110	159	538	43	99	143	533
Tarleton State U.	240	294	368	475	537	0	0	0	37
Massachusetts Institute of Technology	241	484	478	803	525	277	430	711	520
Gallaudet U.	242	988	1,715	1,576	521	137	158	166	160
Langston U.	243	0	0	119	518	0	0	77	429
Rosalind Franklin U. of Medicine and Science	244	85	327	409	513	83	316	387	437

TABLE 52

Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Davidson C.	245	975	691	482	506	758	522	412	441
Occidental C.	246	65	393	443	503	9	352	393	445
Claremont McKenna C.	247	157	113	478	496	94	107	306	297
Pennsylvania State U., Harrisburg	248	0	444	66	483	0	59	34	33
Bryn Mawr C.	249	295	327	508	479	0	0	0	0
Delaware State U.	250	1,348	1,144	240	473	290	333	25	352
U. Minnesota, Duluth	250	25	20	198	473	0	0	167	451
New Mexico Institute of Mining and Technology	252	0	0	572	464	0	0	572	464
Oakland U.	253	184	377	367	456	173	321	293	289
Ball State U.	254	214	183	219	446	64	80	82	215
U. Akron	255	328	226	581	435	57	43	29	33
California State U., East Bay	256	410	405	207	418	26	66	0	0
U. Alabama, Huntsville	257	218	233	349	405	0	0	68	157
U. Tennessee, Chattanooga	258	242	246	406	395	78	0	0	0
Hofstra U.	259	15	109	107	381	0	0	0	34
Mount Holyoke C.	260	584	519	457	377	298	384	325	198
Vassar C.	261	221	269	312	373	196	216	135	232
Naval Postgraduate School	262	0	151	257	365	0	40	40	356
U. California, Merced	262	1,712	424	493	365	204	58	106	0
California State U., Stanislaus	264	13	218	114	364	4	118	25	119
U. Idaho	264	320	189	125	364	199	101	59	50
U. Toledo	266	452	365	344	359	50	153	158	187
Smith C.	267	226	195	145	357	164	133	97	293
Norwich U.	268	ne	ne	ne	350	ne	ne	ne	350
Creighton U.	269	259	279	337	348	116	121	169	178
U. West Florida	270	142	424	340	339	113	78	0	0
U. of St. Thomas (MN)	271	210	328	396	336	16	0	0	0
Amherst C.	272	101	201	278	333	50	109	163	0
Saint Joseph's U.	273	457	349	295	331	54	20	0	30
Texas State U.	274	223	272	908	329	94	193	294	149
U. Wisconsin-Eau Claire	275	173	245	293	327	122	172	197	239
Haverford C.	276	173	77	162	326	93	34	107	272
U. Colorado Colorado Springs	277	226	259	378	325	226	256	301	243
Boise State U.	278	171	127	101	324	154	105	62	282
Skidmore C.	278	325	146	197	324	201	107	106	182

TABLE 52

Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
South Dakota State U.	278	192	600	426	324	145	499	348	259
Virginia State U.	281	0	95	76	323	0	95	76	323
U. Richmond	282	316	354	438	322	231	236	253	83
Southern Connecticut State U.	283	366	332	146	319	164	80	70	100
U. Michigan, Dearborn	283	112	154	178	319	0	0	0	0
Pomona C.	285	248	286	86	315	35	122	8	0
Trinity C., Hartford	286	0	295	118	314	0	281	105	172
New Mexico State U.	287	276	422	480	312	229	198	140	30
Alabama A&M U.	288	174 i	184 i	201 i	310 i	126 i	157 i	195 i	258 i
Missouri U. of Science and Technology	288	173	134	154	310	134	91	95	235
Carleton C.	290	86	234	217	309 i	86	226	208	304 i
Minnesota State U., Mankato	291	59	298	120	304	59	90	0	0
Morgan State U.	292	83	9	36	286	82	0	6	236
Nevada State C.	292	ne	ne	0	286	ne	ne	0	286
U. of the District of Columbia	294	0	0	0	284	0	0	0	284
Kean U.	295	0	16	49	281	0	0	7	12
Saint Louis U.	295	393	233	435	281	300	165	236	81
Texas A&M U.-Commerce	297	374	191	183	279	164	30	101	24
U. North Carolina, Wilmington	298	183	214	223	272	179	212	217	208
Reed C.	299	473	464 i	238 i	271 i	91	97 i	102 i	115 i
Mercer U.	300	258	270	300	268	0	0	0	0
DePaul U.	301	3,343	2,415	194	267	2,974	2,166	16	0
California State U., Los Angeles	302	110	103	58	249	25	0	8	15
Franklin and Marshall C.	303	68	80	154	237	12	9	31	100
Williams C.	304	85 i	83 i	206 i	235 i	0 i	0 i	57 i	64 i
U. New Haven	305	22	232	325	231	22	232	260	231
Eastern Michigan U.	306	183	183	220	230	0	0	174	0
U. Nebraska, Omaha	307	405	456	215	221	348	371	117	139
Elon U.	308	108	132	215	212	43	54	162	135
Sam Houston State U.	309	602	631	469	208	211	144	50	0
William & Mary	310	320	367	351	202	234	255	170	112
Central Michigan U.	311	497	486	390	201	309	125	168	70
Swarthmore C.	312	117	110	130	198	64	53	68	50
Northern Arizona U.	313	725	396	178	196	589	181	60	92
Winston-Salem State U.	314	252	356	509	195	252	356	509	195

TABLE 52

Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U.S. Military Academy	315	120	387	925	192	12	0	774	109
Connecticut C.	316	208	166	325	189	70	64	102	131
Tennessee Technological U.	316	175	80	77	189	0	0	12	84
California State U., Fresno	318	34	116	11	186	34	116	11	144
Claremont Graduate U.	318	966	300	595	186	284	123	37	3
Louisiana Tech U.	320	571	616	261	184	92	298	140	121
Pennsylvania State U., Behrend	321	11	254	206	183	0	104	155	148
Marymount U.	322	ne	89	46	180	ne	0	0	0
U. Dayton	322	33	118	414	180	0	80	374	157
CUNY, Lehman C.	324	1	0	16	178	0	0	0	95
Augusta U.	325	101	155	183	177	68	88	98	93
Indiana U., South Bend	325	ne	187	ne	177	ne	0	ne	0
California State U., Sacramento	327	310	330	319	176	90	54	112	98
CUNY, Baruch C.	328	230	279	231	175	220	227	223	144
Furman U.	329	25	178	137	173	0	165	130	161
Jackson State U.	330	25	174	181	167	25	144	151	107
U. San Diego	331	190	149	29	166	106	18	6	0
Seattle U.	332	0	5	0	162	0	0	0	0
Eastern Connecticut State U.	333	141	28	109	158	0	0	0	0
Pace U.	334	16	7	5	152	0	0	0	108
Tennessee State U.	334	245	0 i	0	152	243	0 i	0	129
New Mexico Highlands U.	336	0	81 i	116 i	151	0	81 i	116 i	151
Purdue U., Fort Wayne	336	168	233	262	151	104	123	112	54
Northern Michigan U.	338	201	69	93	149	157	49	34	40
SUNY, Geneseo	338	208	219	311	149	102	112	226	78
U. Central Oklahoma	340	0 i	0 i	133 i	148 i	0 i	0 i	52 i	58 i
SUNY, Oswego	341	13	2	43	142	0	0	0	133
Oregon Institute of Technology	342	122 i	113 i	133 i	141 i	0	5 i	7 i	29 i
Appalachian State U.	343	344	307	244	130	91	124	84	59
Colgate U.	344	74	63	112	127	0	0	0	33
Tougaloo C.	344	0	0 i	111 i	127 i	0	0 i	111 i	125 i
Middlebury C.	346	245	181	247	125	245	180	247	125
Morehead State U.	347	4	0	41	123	0	0	0	0
Florida A&M U.	348	242	212	108	120	242	207	107	115
Colby C.	349	97	72	80	119	0	0	0	15

TABLE 52

Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Hope C.	350	242	177	45	110	0	0	0	0
Providence C.	351	70	35	ne	105	70	35	ne	105
Southern Illinois U., Edwardsville	352	0	0	0	104	0	0	0	0
U. Houston-Clear Lake	353	145	136	146	103	109	111	134	103
Sacred Heart U.	354	ne	0	ne	102	ne	0	ne	8
Grambling State U.	355	0	0	148 i	101	0	0	148 i	101
Middle Tennessee State U.	356	58	652	728	100	58	72	102	68
North Carolina A&T State U.	357	30	236	156	95	12	236	133	87
U. Louisiana, Lafayette	357	327	151	86	95	0	0	0	0
Whitman C.	359	25	ne	77	93	0	ne	0	0
Fairfield U.	360	26	9	ne	92	0	0	ne	0
CUNY, York C.	361	0	159	140	91	0	159	140	91
Texas A&M U.-San Antonio	361	ne	ne	3	91	ne	ne	0	83
Clarkson U.	363	86	113	89	87	0	7	0	0
Eastern Washington U.	363	47	39	87	87	0	0	0	0
Bucknell U.	365	154 i	129	83	86	0 i	0	0	0
Roger Williams U.	366	203	116	54	84	198	111	45	30
Duquesne U.	367	414	160	245	83	0	0	0	0
La Sierra U.	368	78	0	73	82 i	0	0	0	0 i
Northland C.	368	ne	63 i	72 i	82 i	ne	49 i	55 i	62 i
Texas A&M International U.	370	34	53	17	81	0	0	0	0
William Paterson U.	371	944	485	479	79	70	93	87	0
Christopher Newport U.	372	50	54	44	77	37	43	32	16
Lafayette C.	373	155	88	81	76	116	70	46	29
U. Puerto Rico, Rio Piedras	373	0	7	63	76	0	7	63	76
U. Baltimore	375	0	0	0	75	0	0	0	75
Grand Valley State U.	376	63	52	54	74	37	29	33	38
Pacific U.	377	2	0	4	73	0	0	0	67
Texas A&M U.-Kingsville	378	98	51	51	72	86	48	51	55
Missouri State U.	379	28	34	52	71	24	28	48	57
Alfred U.	380	0	0	0	69	0	0	0	40
Colorado C.	380	115	23	97	69	0	0	0	0
Willamette U.	380	126	39	46	69	121	36	35	63
Sonoma State U.	383	10	58	73	68	0	53	56	57
Coastal Carolina U.	384	0	7	66	65	0	0	0	0

TABLE 52

Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Illinois, Springfield	385	2	0	0	64	0	0	0	49
C. Charleston	386	42	36	129	63	0	0	9	0
Hamilton C.	387	100	69	132	62	0	0	24	24
Oberlin C.	387	51	11	ne	62	51	7	ne	53
Santa Clara U.	387	10	0	140	62	8	0	126	41
U. Texas of the Permian Basin	387	7	23	70	62	6	18	35	16
U. Nebraska, Kearney	391	30	127	34	61	19	30	0	0
Bates C.	392	173	101	54	60	154	78	27	36
St. Edward's U.	392	20	20	100	60	0	0	0	0
U. Texas, Tyler	394	110	214	2	59	0	0	0	48
Rhode Island C.	395	171	115	194	57	155	83	143	4
Illinois State U.	396	20	50	489	54	0	0	0	0
Bowdoin C.	397	180	125	126	53	158	123	107	42
Florida Gulf Coast U.	398	0	10	79	50	0	3	79	10
Saint John's U.	399	23 i	37 i	43 i	49 i	0 i	0 i	0 i	0 i
Youngstown State U.	399	12	55	65	49	12	54	60	48
C. of Saint Benedict	401	27 i	37 i	42 i	47 i	0 i	3 i	3 i	3 i
Colorado School of Mines	402	0	0	90	46	0	0	90	29
Morehouse C.	402	42	59	59	46	42	59	59	46
U. Wisconsin-Green Bay	404	34 i	31 i	43 i	45 i	18 i	17 i	20 i	23 i
East Tennessee State U.	405	2,755 i	3,057 i	97 i	44	40	14	0	42
Rutgers, State U. New Jersey, Camden	405	97	26	108	44	0	0	0	0
Idaho State U.	407	318	266	200	43	247	266	140	24
St. Olaf C.	408	43	51	ne	42	9	1	ne	4
Arkansas State U., Jonesboro	409	55	62	43	41	35	40	32	30
U. Houston-Downtown	409	0	0	37	41	0	0	37	41
Union C., Schenectady	409	0	24	38	41	0	0	0	0
Salisbury U.	412	19	13	34	39	0	0	0	0
U. Massachusetts, Dartmouth	413	94	0	0	38	0	0	0	0
U. Hartford	414	0	51	34	33	0	0	26	24
U. of Mary Washington	414	32	0	0	33	12	0	0	0
U. Detroit Mercy	416	135	53	53	30	124	42	38	7
Grinnell C.	417	173	20	295	28	0	0	0	0
C. New Jersey	418	7	10	25	25	0	0	0	0
Citadel Military C. South Carolina	418	32	16	66	25	30	15	61	15

TABLE 52

Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Wisconsin-Platteville	418	28 i	20 i	23 i	25 i	6 i	6 i	7 i	7 i
Gettysburg C.	421	91	ne	ne	24	0	ne	ne	0
U. South Carolina, Aiken	421	20	3	11	24	0	0	0	0
California State U., Bakersfield	423	504	524	72	23	372	317	0	10
Robert Morris U.	423	ne	ne	20 i	23	ne	ne	0 i	0
Austin Peay State U.	425	3	0	1	21	0	0	0	0
California Polytechnic State U., San Luis Obispo	425	185	157	183	21	0	0	0	0
Central Connecticut State U.	425	8	14	19	21	0	0	0	0
U. Wisconsin-La Crosse	425	10	7	16	21	0	0	0	0
California State Polytechnic U., Pomona	429	0	19	20	19	0	19	20	19
SUNY, Buffalo State U.	430	40	0	0	18	27	0	0	18
U. Southern Mississippi	431	0	118	139	17	0	118	98	17
Kennesaw State U.	432	38	231	112	15	11	13	20	15
U. Oklahoma, Tulsa	432	0	28	17	15	0	0	0	0
Abilene Christian U.	434	ne	21	10	14	ne	0	0	0
New C. Florida	434	ne	ne	ne	14	ne	ne	ne	0
C. Wooster	436	38	1 i	1	12	0	0 i	0	0
Troy U.	436	3	1	3	12	0	0	0	0
Butler U.	438	ne	ne	48	11	ne	ne	41	11
Fisk U.	439	0	60	54	10	0	0	0	0
Purdue U., Northwest	439	39	22	9	10	0	0	0	0
U. Wisconsin-Oshkosh	439	38 i	41	20	10	0 i	0	0	0
Radford U.	442	ne	ne	ne	9	ne	ne	ne	0
Texas A&M U.-Corpus Christi	442	0	0	4	9	0	0	0	0
Eastern Kentucky U.	444	12	43	ne	8	8	8	ne	0
Gustavus Adolphus C.	444	ne	ne	ne	8	ne	ne	ne	0
Macalester C.	444	41	23	28	8	0	0	0	0
Northwestern State U. Louisiana	444	0	0	7	8 i	0	0	0	0 i
U. Scranton	444	ne	ne	ne	8	ne	ne	ne	0
California State U., Channel Islands	449	0	4	8	7	0	0	0	0
Drake U.	450	ne	0	6	6	ne	0	0	0
Ithaca C.	450	7	2	2	6	0	0	0	0
Kenyon C.	452	29	ne	32	5	0	ne	0	0
Prairie View A&M U.	452	536	292	33	5	0	0	0	0
U. North Georgia	452	10	0	26	5	0	0	0	0

TABLE 52

Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
California State Polytechnic U., Humboldt	455	0	4	0	4	0	0	0	0
St. Cloud State U.	455	8	0	3	4	0	0	0	0
CUNY, system office	457	0	49	88	3	0	0	0	0
Elizabeth City State U.	457	0	49	0	3	0	49	0	3
U. Alaska, Fairbanks	457	367	0	59	3	367	0	59	3
Ursinus C.	457	ne	ne	ne	3	ne	ne	ne	2
Black Hills State U.	461	0	0	0	2	0	0	0	0
Calvin U.	461	22 i	31 i	41 i	2 i	0 i	0 i	0	0
Hobart and William Smith Colleges	461	7	7	5	2	0	0	0	0
Stephen F. Austin State U.	461	10	2	2	2	0	0	0	1
Saginaw Valley State U.	465	11	11 i	0 i	1 i	0	0 i	0 i	0 i
All other surveyed institutions	-	17,202	16,415	17,890	0	7,984	8,841	9,272	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

^a The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^c Johns Hopkins University includes the Applied Physics Laboratory (APL), with zero imputed for total and zero reported for federally financed R&D expenditures in psychology in FY 2023. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

^d The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

^e The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 53

Higher education R&D expenditures in the social sciences, ranked by all FY 2023 social sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
All institutions	-	2,951,692	2,827,914	3,163,750	3,615,227	151,778	723,797	556,983	727,782	1,454,887
U. Michigan, Ann Arbor	1	187,421	175,698	189,167	217,488	7,166	39,340	33,859	31,619	105,504
Harvard U.	2	142,484	136,543	144,801	169,192	5,387	33,270	44,567	31,872	54,096
U. North Carolina, Chapel Hill	3	82,154	67,325	77,515	95,692	528	1,403	8,179	69,270	16,312
Arizona State U.	4	83,980	73,205	80,307	93,071	13,678	7,893	21,328	8,732	41,440
U. California, Berkeley	5	60,568	56,908	73,560	87,836	411	38,399	18,148	7,441	23,437
U. California, Los Angeles	6	60,591	62,413	68,872	86,049	0	422	3,260	16,862	65,505
Princeton U.	7	57,913	57,323	72,862	83,793	662	14,908	33,277	19,635	15,311
U. Southern California	8	59,926	75,520	75,558	81,705	678	36,478	641	659	43,249
U. Wisconsin-Madison	9	59,239	63,043	65,924	75,982	1,287	9,665	7,602	8,975	48,453
George Mason U.	10	65,405	48,250	61,667	73,092	221	51,935	1,306	3,495	16,135
U. Maryland ^a	11	64,636	58,423	56,249	72,987	771	2,747	5,250	7,341	56,878
U. Pennsylvania	12	51,374	46,021	53,759	66,203	1,428	3,866	6,277	26,778	27,854
Massachusetts Institute of Technology	13	51,477	47,850	54,104	55,636	0	38,544	4,032	10	13,050
Michigan State U.	14	50,407	45,620	43,672	46,373	1,409	19,466	3,687	2,753	19,058
Georgetown U.	15	35,933	32,030	38,879	45,315	0	1,183	42,306	151	1,675
Indiana U., Bloomington	16	47,426	40,800	40,995	44,795	2,523	3,422	14,985	7,423	16,442
Duke U.	17	36,760	36,432	40,627	43,163	3,158	3,749	918	11,645	23,693
Pennsylvania State U., University Park and Hershey Medical Center	18	27,842	27,130	41,275	42,771	980	5,506	2,171	34,114	0
New York U.	19	30,676	29,601	38,528	41,857	15	995	9,625	12,896	18,326
Brown U.	20	30,782	32,799	39,703	41,238	205	1,353	1,448	1,012	37,220
U. Minnesota, Twin Cities	21	31,218	33,248	40,045	39,384	601	7,019	4,862	23,898	3,004
U. California, Davis	22	28,486	30,951	38,078	38,849	0	12,117	7,926	1,331	17,475
U. Georgia	23	23,737	28,411	33,930	38,671	2,254	20,908	2,268	2,848	10,393
George Washington U.	24	25,348	23,621	25,553	38,480	2,376	3,929	2,248	4,542	25,385
Georgia State U.	25	24,697	33,767	37,729	37,953	615	13,881	4,302	9,154	10,001
U. Chicago	26	23,750	22,088	26,781	34,694	84	10,105	1,191	2,169	21,145
U. South Florida ^b	27	31,616	33,907	30,394	33,891	2,564	714	1,818	2,673	26,122
U. Texas, Austin	28	20,650	23,660	22,612	32,781	1,422	599	948	24,222	5,590
Texas A&M U., College Station and Health Science Center	29	29,389	28,965	29,994	32,324	2,217	6,496	6,419	1,658	15,534
Cornell U.	30	25,622	22,269	23,814	30,044	395	3,451	2,333	6,846	17,019
Vanderbilt U. and Vanderbilt U. Medical Center	31	7,187	8,539	21,601	28,357	2,126	5,229	8,924	1,085	10,993
U. Arizona	32	17,689	18,628	22,491	27,542	4,346	4,008	1,118	5,535	12,535

TABLE 53

Higher education R&D expenditures in the social sciences, ranked by all FY 2023 social sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
U. Delaware	33	12,936	13,326	22,727	26,345	0	4,405	2,586	6,177	13,177
Mississippi State U.	34	32,157	25,601	25,716	25,913	486	748	1,233	3,448	19,998
Brandeis U.	35	25,117	22,854	22,375	25,241	1,078	45	318	9,758	14,042
Florida State U.	36	19,446	18,501	17,838	25,182	605	3,493	3,839	2,304	14,941
Ohio State U.	37	18,486	17,017	28,605	24,943	597	8,009	1,918	7,377	7,042
Rice U.	38	19,959	21,092	21,779	24,172	736	773	10,382	11,279	1,002
U. Washington, Seattle	39	15,458	13,491	16,490	23,577	68	92	9,969	7,140	6,308
U. California, San Diego	40	19,942	22,940	31,031	23,568	239	4,672	3,767	5,359	9,531
Northwestern U.	41	18,762	21,988	24,515	23,363	1,577	8,318	834	493	12,141
U. Texas M. D. Anderson Cancer Center	42	12,591	13,819	18,340	23,237	0	0	0	23,237	0
Stanford U.	43	24,770	22,559	18,390	22,966	371	4,908	10,270	239	7,178
Dartmouth C. and Dartmouth Hitchcock Medical Center	44	20,370	23,175	19,335	22,605	605	987	1,708	16,011	3,294
Teachers C., Columbia U.	45	13,869	15,472	19,950	22,332	0	16,107	0	0	6,225
U. Montana, Missoula	46	17,493	20,948	20,418	22,266	1,212	4,128	381	323	16,222
Florida International U.	47	17,828	19,172	20,526	21,873	0	2,743	2,939	1,800	14,391
U. South Carolina, Columbia	48	15,131	17,832	19,583	21,393	3,710	0	1,410	11,354	4,919
SUNY, Binghamton U.	49	16,907	19,706	22,172	20,938	2,687	6,759	2,292	4,244	4,956
U. Maryland, Baltimore County	50	11,597	14,413	17,891	20,411	146	1,295	1,004	1,173	16,793
Yale U.	51	15,994	14,055	13,840	19,496	1,923	9,834	2,119	4,266	1,354
American U.	52	20,632	16,428	17,191	18,962	0	2,385	8,928	698	6,951
Columbia U. in the City of New York	53	14,784	11,332	13,157	18,686	35	0	2,529	8,679	7,443
Indiana U.-Purdue U., Indianapolis	54	15,556	11,605	11,122	18,507	98	119	9,761	5,605	2,924
U. Oklahoma, Norman and Health Science Center	55	25,818	11,396	13,702	17,870	4,458	1,560	4,803	1,290	5,759
Tufts U.	56	12,852	15,859	19,308	17,786	586	2,857	650	0	13,693
U. Florida	57	13,552	16,015	16,987	17,586	1,196	6,073	2,997	127	7,193
U. New Hampshire	58	11,344	13,329	15,906	17,256	373	4,365	733	5,756	6,029
Purdue U., West Lafayette	59	21,150	14,611	14,770	17,096	915	13,799	819	1,563	0
U. Colorado Boulder	60	16,443	14,018	15,231	16,815	986	425	350	10,932	4,122
SUNY, U. Albany	61	20,551	12,288	16,133	16,605	1,651	2,397	9,368	2,217	972
U. Notre Dame	62	8,860	10,334	12,729	16,096	629	5,694	5,228	1,521	3,024
Syracuse U.	63	14,165	14,920	19,097	15,676	1,050	3,200	3,257	2,323	5,846
CUNY, Graduate Center	64	2,238	1,325	1,067	14,400	5,468	1,429	2,300	4,215	988
U. Utah	65	14,837	6,254	16,524	14,062	621	141	336	12,021	943
Boston U.	66	7,931	9,041	12,084	14,027	777	3,270	301	1,546	8,133

TABLE 53

Higher education R&D expenditures in the social sciences, ranked by all FY 2023 social sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Virginia Polytechnic Institute and State U.	67	13,082	11,574	14,507	13,608	0	6,332	507	3,054	3,715
U. Alabama, Tuscaloosa	68	4,595	9,556	12,938	13,350	792	3,707	898	2,908	5,045
Colorado State U., Fort Collins	69	14,787	11,988	15,024	13,333	4,596	1,701	833	808	5,395
Texas Tech U.	70	11,877	11,235	12,411	13,213	0	6,536	1,169	1,389	4,119
U. New Mexico	71	10,624	10,544	13,611	13,113	2,181	608	39	3,358	6,927
U. California, Irvine	72	12,741	12,606	13,324	13,104	1,380	885	1,561	743	8,535
U. Virginia, Charlottesville	73	16,948	18,063	17,920	12,798	396	1,732	7,010	1,157	2,503
Carnegie Mellon U.	74	12,461	12,392	12,720	12,649	0	1,752	180	0	10,717
U. Massachusetts, Boston	75	12,734	12,178	12,312	12,589	658	59	2,546	5,590	3,736
U. Texas, San Antonio	76	9,447	9,393	10,456	12,152	1,651	894	906	3,866	4,835
Case Western Reserve U.	77	4,386	5,880	790	11,687	84	0	0	966	10,637
William & Mary	78	10,623	9,878	10,114	11,684	195	24	10,367	261	837
U. Nebraska, Lincoln and Medical Center ^c	79	na	na	na	11,621	0	1,899	1,431	5,875	2,416
U. Cincinnati	80	11,291	11,451	9,610	11,576	431	0	2,040	3,356	5,749
Boston C.	81	11,862	10,756	9,261	11,542	0	502	145	4,853	6,042
U. Illinois, Chicago	82	7,905	8,351	8,851	11,499	273	976	624	345	9,281
Northeastern U.	83	11,615	13,062	9,361	11,463	0	256	3,609	4,825	2,773
Washington State U.	84	12,338	15,147	12,699	11,439	527	5,327	564	865	4,156
Johns Hopkins U. ^d	85	6,221	5,305	9,118	11,336	96	463	229	9,117	1,431
U. California, Santa Barbara	86	7,631	8,231	10,473	11,052	23	589	14	206	10,220
U. Tennessee, Knoxville	87	12,171	10,596	9,813	10,761	1,360	5,054	1,333	1,262	1,752
Texas State U.	88	4,907	4,437	10,265	10,760	653	0	4	193	9,910
Kansas State U.	89	10,750	9,633	10,049	10,652	0	6,974	760	1,046	1,872
Rutgers, State U. New Jersey, New Brunswick	90	7,005	7,351	11,158	10,539	549	1,810	1,293	3,336	3,551
Oklahoma State U., Stillwater	91	6,251	5,445	9,806	10,445	0	5,501	1,356	1,417	2,171
U. Memphis	92	7,750	7,319	8,068	10,088	575	194	2,057	2,798	4,464
U. California, Riverside	93	5,132	5,224	6,764	10,057	0	126	178	1,998	7,755
U. Vermont	94	4,492	6,052	8,023	9,950	571	5,985	1,408	543	1,443
U. Illinois, Urbana-Champaign	95	5,846	5,604	6,718	9,883	955	1,299	813	497	6,319
Brigham Young U., Provo	96	924	927	880	9,403	612	2,405	1,417	1,389	3,580
U. Connecticut	97	6,645	6,705	9,724	9,126	624	3,386	3,274	665	1,177
North Carolina State U.	98	9,826	10,768	9,396	8,771	0	6,904	444	1,423	0
North Dakota State U.	99	15,215	6,686	7,856	8,600	0	6,369	0	1,286	945

TABLE 53

Higher education R&D expenditures in the social sciences, ranked by all FY 2023 social sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
U. Massachusetts, Amherst	100	4,819	5,623	7,235	8,461	410	2,376	970	1,806	2,899
U. Central Florida	101	7,374	6,935	8,004	8,249	1,088	1,504	2,093	1,203	2,361
Iowa State U.	102	6,923	10,196	10,305	8,107	0	4,289	714	2,691	413
Naval Postgraduate School	103	6,040	6,669	6,114	8,103	0	537	5,173	1,027	1,366
Georgia Institute of Technology	104	33,645	7,467	12,596	7,944	0	221	0	2,481	5,242
U. Massachusetts, Lowell	105	5,924	6,915	6,681	7,826	0	285	646	305	6,590
U. North Carolina, Charlotte	106	3,973	2,947	2,519	7,825	438	813	1,402	1,907	3,265
San Diego State U.	107	5,106	4,876	5,653	7,749	870	1,146	456	1,186	4,091
U. California, Santa Cruz	108	5,724	5,411	5,793	7,665	0	938	374	1,618	4,735
Oregon State U.	109	6,696	5,713	6,357	7,579	0	2,084	0	1,550	3,945
U. Nevada, Las Vegas	110	6,306	6,536	7,012	7,566	872	4,307	798	588	1,001
Clemson U.	111	6,680	6,298	6,858	7,532	0	333	222	1,961	5,016
U. Arkansas, Fayetteville	112	7,186	4,212	6,866	7,479	3,185	460	2,815	760	259
New School	113	3,790	5,293	6,743	7,393	20	3,032	919	1,607	1,815
Virginia Commonwealth U.	114	1,701	4,959	4,614	7,273	0	556	6,717	0	0
Cleveland State U.	115	6,265	5,902	4,782	7,143	0	147	131	0	6,865
U. Denver	116	2,092	1,678	3,542	7,023	95	56	420	115	6,337
Tulane U.	117	6,876	6,935	6,996	6,522	609	3,046	846	1,495	526
Alcorn State U.	118	5,659	7,181	5,576	6,360	0	6,311	29	20	0
U. Kentucky	119	3,696	4,075	5,072	6,340	147	4,088	82	1,589	434
U. Nevada, Reno	120	7,053	7,637	5,985	6,324	1,359	2,445	1,074	546	900
Portland State U.	121	3,882	4,338	3,900	6,170	1,048	40	374	1,617	3,091
Kent State U.	122	4,793	4,930	5,668	6,091	260	919	687	1,199	3,026
U.S. Army War C.	123	ne	4,662	5,496	6,035	0	0	0	0	6,035
Louisiana State U., Baton Rouge	124	4,888	4,537	4,752	5,824	0	3,019	350	295	2,160
U.S. Military Academy	125	284	4,179	4,806	5,737	0	4,184	1,446	0	107
U. Pittsburgh, Pittsburgh	126	4,990	4,070	4,587	5,653	117	573	1,305	744	2,914
U. Wyoming	127	535	1,086	5,421	5,624	1,246	1,919	21	75	2,363
U. Wisconsin-Milwaukee	128	6,710	6,531	5,843	5,609	2,270	900	605	1,445	389
U. Oregon	129	8,911	3,797	4,723	5,585	553	303	441	247	4,041
Emory U.	130	3,352	3,979	4,780	5,560	0	1,838	1,136	2,467	119
Claremont McKenna C.	131	4,545	3,532	4,189	5,165	0	977	2,168	0	2,020
Northern Illinois U.	132	4,982	4,024	4,365	5,104	59	0	4,961	20	64
U. Louisiana, Lafayette	133	97	3,919	4,463	4,916	226	2,316	2,319	18	37

TABLE 53

Higher education R&D expenditures in the social sciences, ranked by all FY 2023 social sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
U. Texas Rio Grande Valley	134	3,660	3,534	4,604	4,897	269	1,384	1,073	410	1,761
Georgia Southern U.	135	113	3,743	4,176	4,880	309	855	792	524	2,400
U. North Texas, Denton	136	7,541	4,057	3,953	4,801	561	775	1,362	1,323	780
Sam Houston State U.	137	2,444	1,970	2,785	4,784	0	0	0	252	4,532
Montclair State U.	138	2,138	1,378	3,543	4,747	361	552	823	344	2,667
U. Houston	139	1,536	2,404	3,842	4,721	0	313	2,653	714	1,041
Auburn U., Auburn	140	6,902	6,228	3,856	4,507	4	216	1,742	658	1,887
U. Alaska, Fairbanks	141	1,810	1,248	1,184	4,498	461	2,813	52	23	1,149
U. Mississippi	142	2,317	1,777	5,018	4,488	0	809	1,046	2,399	234
U. California, Merced	143	2,988	1,816	2,936	4,460	96	461	990	2,150	763
U. Rhode Island	144	2,377	1,417	2,746	4,447	0	965	587	0	2,895
San Jose State U.	145	190	2,940	3,260	4,400	418	368	332	652	2,630
Bowling Green State U.	146	3,333	3,631	3,623	4,328	0	234	409	1,256	2,429
SUNY, U. Buffalo	147	6,356	8,687	6,573	4,321	2,037	0	0	2,162	122
U. Texas, El Paso	148	4,161	4,964	3,365	4,319	247	527	1,766	1,471	308
West Virginia U.	149	3,590	3,681	3,216	4,192	0	771	287	486	2,648
U. Iowa	150	6,875	6,010	3,682	4,172	214	453	583	569	2,353
U. Missouri, Columbia	151	3,957	6,665	8,731	3,972	210	1,242	1,539	228	753
U. Idaho	152	5,076	4,453	5,960	3,845	82	737	323	1,125	1,578
Wake Forest U.	153	460	689	2,534	3,798	21	422	175	2,990	190
Clark U.	154	3,575	2,711	2,504	3,741	0	1,940	23	73	1,705
Southern Illinois U., Carbondale	155	954	996	1,358	3,644	141	310	793	1,708	692
Baylor U.	156	1,945	1,420	3,244	3,585	494	629	296	393	1,773
Rutgers, State U. New Jersey, Camden	157	733	1,339	1,790	3,541	0	278	7	239	3,017
Chapman U.	158	2,714	3,253	3,609	3,528	0	666	2,327	451	84
Temple U.	159	6,746	7,649	7,110	3,521	165	49	335	146	2,826
Western Michigan U. and Homer Stryker M.D. School of Medicine	160	169	245	481	3,312	181	773	53	1,487	818
U. Nebraska, Omaha	161	1,856	2,324	2,807	3,291	89	12	249	270	2,671
Rutgers, State U. New Jersey, Newark	162	1,678	672	2,024	3,265	0	0	578	294	2,393
Rochester Institute of Technology	163	2,584	2,603	2,590	3,259	0	3	166	87	3,003
California Institute of Technology	164	0	0	0	3,213	22	211	21	21	2,938
U. West Florida	165	4,237	3,779	3,261	3,209	0	1,151	0	0	2,058
U. Baltimore	166	3,367	2,824	2,501	3,062	0	2,573	0	0	489
San Francisco State U.	167	3,648	3,892	3,159	3,053	79	429	51	371	2,123

TABLE 53

Higher education R&D expenditures in the social sciences, ranked by all FY 2023 social sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
U. Hawaii, Manoa	168	4,851	3,481	2,407	2,906	142	223	153	25	2,363
SUNY, Stony Brook U.	169	2,881	2,776	2,472	2,869	1,211	229	428	391	610
Washington U., Saint Louis	170	1,191	1,374	1,631	2,859	501	23	756	131	1,448
Pepperdine U.	171	213	503	248	2,794	0	753	746	1,290	5
U. Northern Iowa	172	1,510	1,657	2,045	2,785	0	33	3	0	2,749
U. Southern Maine	173	2,963	2,867	2,619	2,703	12	27	0	69	2,595
Boise State U.	174	3,200	2,554	2,458	2,564	111	86	416	156	1,795
U. Texas, Dallas	175	2,166	2,666	2,262	2,513	0	198	1,163	782	370
California State U., Sacramento	176	7,680	6,544	3,830	2,511	110	322	97	1,178	804
CUNY, John Jay C. of Criminal Justice	176	210	569	764	2,511	19	7	706	274	1,505
Loyola Marymount U.	178	1,285	1,724	1,072	2,507	0	1,107	56	1,071	273
Saint Louis U.	179	448	1,380	1,974	2,485	0	1,006	2	253	1,224
Nova Southeastern U.	180	0	0	981	2,439	0	779	238	158	1,264
U. Alaska, Anchorage	181	3,306	3,020	1,529	2,384	7	1,422	73	567	315
California State U., Fullerton	182	110	342	1,163	2,253	382	324	323	823	401
U. Missouri, Saint Louis	183	2,265	1,882	1,935	2,250	0	226	181	12	1,831
Southern Methodist U.	184	326	529	2,132	2,227	1,180	763	212	72	0
U. Kansas	185	6,450	1,918	2,768	2,220	865	436	218	226	475
Towson U.	186	264	238	816	2,217	2	691	297	69	1,158
U. Maine	187	2,274	2,316	2,169	2,212	390	28	125	465	1,204
Claremont Graduate U.	188	3,122	2,815	2,075	2,178	0	0	0	0	2,178
U. Southern Mississippi	189	3,645	2,134	2,114	2,151	0	0	7	0	2,144
U. Miami	190	1,812	463	1,907	2,075	54	326	128	157	1,410
California State Polytechnic U., Humboldt	191	616	1,385	2,088	2,072	1,475	0	0	107	490
Gallaudet U.	192	173	1,006	813	2,028	0	0	0	2,028	0
National Defense U.	193	2,383	2,186	3,020	1,951	0	0	1,951	0	0
U. Alabama, Huntsville	194	1,717	820	1,113	1,910	0	1,668	121	121	0
U. New Orleans	195	3,341	3,079	2,787	1,908	412	253	112	0	1,131
Montana State U., Bozeman	196	1,126	2,194	1,946	1,903	0	0	591	417	895
Old Dominion U.	197	2,482	1,659	2,345	1,887	0	216	411	36	1,224
Morgan State U.	198	98	160	86	1,864	0	13	0	334	1,517
Ohio U.	199	960	897	1,245	1,855	0	26	0	81	1,748
Kean U.	200	44	0	270	1,843	41	50	53	274	1,425
Worcester Polytechnic Institute	201	1,760	1,515	1,854	1,824	0	0	0	0	1,824

TABLE 53

Higher education R&D expenditures in the social sciences, ranked by all FY 2023 social sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Eastern Washington U.	202	1,613	1,318	1,789	1,810	0	0	0	0	1,810
Wayne State U.	203	3,289	3,585	1,575	1,775	182	240	72	374	907
Drexel U.	204	2,854	2,271	1,870	1,739	0	0	158	51	1,530
Villanova U.	205	656	433	309	1,737	0	599	223	50	865
Utah State U.	206	2,601	2,417	1,911	1,734	0	1,166	49	422	97
U. North Dakota	207	1,616	1,577	1,618	1,725	31	525	398	217	554
Bryn Mawr C.	208	1,573	1,542	1,449	1,716	224	242	244	382	624
Howard U.	209	827	952	1,296	1,671	0	1,073	163	435	0
U. Louisville	210	1,593	1,330	1,130	1,653	244	37	268	276	828
Fordham U.	211	1,095	662	1,519	1,619	0	577	67	634	341
Loyola U., Chicago	212	800	1,139	1,189	1,578	178	0	48	30	1,322
CUNY, Hunter C.	213	3,051	2,509	1,827	1,537	531	229	44	729	4
Wichita State U.	214	36	380	817	1,530	154	704	199	254	219
Middle Tennessee State U.	215	1,583	3,668	3,527	1,492	566	18	815	0	93
East Carolina U.	216	1,886	2,319	1,226	1,476	186	383	104	424	379
U. New Haven	217	2,107	1,499	1,738	1,453	0	0	0	97	1,356
U. Puerto Rico, Rio Piedras	218	1,119	1,185	1,270	1,443	0	16	141	0	1,286
South Dakota State U.	219	1,967	1,772	1,791	1,426	0	805	0	8	613
California State U., Dominguez Hills	220	186	314	197	1,419	33	0	693	405	288
Rensselaer Polytechnic Institute	221	1,175	1,535	1,829	1,412	0	840	0	0	572
U. North Carolina, Greensboro	222	747	1,155	1,033	1,370	102	284	39	520	425
U. Wisconsin-La Crosse	223	1,024	1,487	1,383	1,359	0	518	11	3	827
Michigan Technological U.	224	1,260	1,279	1,438	1,343	0	0	0	0	1,343
CUNY, Queens C.	225	477	579	603	1,325	224	157	13	921	10
U. North Carolina, Wilmington	226	709	1,183	1,683	1,321	0	89	0	33	1,199
Grinnell C.	227	755	686	1,087	1,281	286	414	245	316	20
Rowan U.	228	311	65	0	1,280	0	182	344	289	465
Creighton U.	229	933	1,068	1,186	1,209	27	225	238	192	527
Western Washington U.	230	690	818	1,204	1,173	289	59	148	249	428
U. Rochester	231	279	343	634	1,167	189	0	684	0	294
Miami U.	232	582	1,444	782	1,166	166	339	229	0	432
U. North Texas, Health Science Center	233	866	6	900	1,158	0	0	0	0	1,158
U. San Diego	234	289	209	1,086	1,150	3	12	235	25	875
California State U., Long Beach	235	625	645	574	1,113	35	154	13	188	723

TABLE 53

Higher education R&D expenditures in the social sciences, ranked by all FY 2023 social sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Stockton U.	236	140	114	568	1,109	0	0	0	1,109	0
Texas Southern U.	237	490	845	531	1,096	0	0	0	21	1,075
Illinois State U.	238	2,276	1,105	43	1,093	0	288	24	0	781
Florida Atlantic U.	239	210	153	261	1,089	0	0	0	0	1,089
Colorado School of Mines	240	1,403	1,220	696	1,088	90	993	0	0	5
U. South Dakota	241	504	316	693	1,083	178	455	364	49	37
Eastern Michigan U.	242	1,039	892	632	1,039	142	93	152	125	527
Suffolk U.	243	0	0	47	1,031	0	0	989	0	42
Texas A&M U.-Corpus Christi	244	151	464	623	1,030	0	51	0	0	979
U. North Florida	245	633	277	1,040	1,011	0	22	32	592	365
U. Northern Colorado	246	346	534	597	985	104	56	68	186	571
Northwestern State U. Louisiana	247	738	919	881	978	0	0	0	0	978
Tarleton State U.	248	639	778	1,033	962	0	0	167	731	64
California State U., East Bay	249	677	1,530	2,148	936	92	102	97	54	591
Catholic U. of America	250	502	651	1,897	935	0	0	285	650	0
U. Illinois, Springfield	251	2,838	2,260	1,978	930	10	0	412	0	508
Pomona C.	252	620	330	515	923	169	235	125	57	337
Wellesley C.	252	1,402	722	1,133	923	0	325	0	0	598
Amherst C.	254	488	530	488	833	51	69	342	16	355
Wheaton C., Wheaton	255	515	282	ne	825	0	24	0	40	761
Texas A&M International U.	256	59	914	743	820	6	0	18	31	765
Trinity C., Hartford	257	163	117	161	817	20	312	375	79	31
Naval War C.	258	724	794	929	800	0	0	800	0	0
Delaware State U.	259	639	528	1,618	787	0	33	0	754	0
U. Alabama, Birmingham	260	246	317	494	782	0	0	0	517	265
U. South Alabama	261	586	515	633	767	0	0	0	90	677
Barnard C.	262	293	320	474	756	283	265	38	24	146
West Chester U. Pennsylvania	263	892	524	739	751	54	526	35	0	136
Marquette U.	264	1,008	431	871	717	0	11	423	283	0
Colorado C.	265	363	117	136	703	41	427	38	197	0
New Mexico State U.	266	469	570	679	701	277	273	12	0	139
Long Island U.	267	847	906	838	681	45	116	233	180	107
James Madison U.	268	37	150	225	673	11	1	539	121	1
Santa Clara U.	269	116	102	512	666	198	0	391	77	0

TABLE 53

Higher education R&D expenditures in the social sciences, ranked by all FY 2023 social sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
California State U., Los Angeles	270	1,570	1,131	391	648	0	0	0	0	648
New Jersey Institute of Technology	271	8,315	6,602	7,277	625	0	559	0	0	66
South Carolina State U.	272	250 i	373 i	496 i	619	0	504	0	0	115
Williams C.	273	827 i	812 i	531 i	606 i	65 i	145 i	142 i	67 i	187 i
Louisiana Tech U.	274	726	1,136	785	604	0	0	9	0	595
Lehigh U.	275	95	212	439	602	0	560	7	20	15
California State U., Northridge	276	559	393	312	597	0	0	0	0	597
Sacred Heart U.	277	ne	0	ne	595	0	200	46	62	287
Grand Valley State U.	278	657	1,178	839	592	0	0	0	1	591
Reed C.	279	439	422 i	514 i	587 i	64 i	141 i	134 i	67 i	181 i
CUNY, Lehman C.	280	180	213	380	581	9	0	0	569	3
Swarthmore C.	281	274	194	219	574	19	244	66	159	86
Ball State U.	282	1,662	1,473	772	570	159	168	8	98	137
Colby C.	283	222	150	316	568	151	240	101	50	26
Jackson State U.	284	201	73	4	559	0	0	559	0	0
U. Tulsa	285	243	174	287	553	549	0	4	0	0
DePaul U.	286	22	43	2,780	544	8	0	162	266	108
U. of the Virgin Islands	287	228	248	534	534	0	310	0	0	224
Salisbury U.	288	485	488	474	532	0	487	43	2	0
Northern Arizona U.	289	419	167	345	520	26	388	0	97	9
Clarkson U.	290	74	42	146	514	3	45	2	409	55
Hamilton C.	290	274	322	337	514	58	152	188	6	110
U. Missouri, Kansas City	292	907	180	148	508	0	192	16	2	298
Carleton C.	293	464	577	675	491 i	293 i	2 i	0 i	194 i	2 i
Babson C.	294	0 i	0 i	483 i	470 i	0 i	125 i	125 i	58 i	162 i
Florida A&M U.	295	21	5	62	467	0	0	284	9	174
Colgate U.	296	268	309	406	466	79	189	109	89	0
California Polytechnic State U., San Luis Obispo	297	675	930	738	463	0	360	11	1	91
Southern Connecticut State U.	298	505	400	466	462	28	433	1	0	0
Alabama A&M U.	299	298 i	258 i	237 i	447 i	0 i	0 i	68 i	130 i	249 i
California State U., Bakersfield	300	264	146	261	446	113	50	9	138	136
California State U., Stanislaus	301	44	70	123	441	76	15	0	41	309
U. Colorado Denver ^e	302	na	359	638	432	92	98	6	162	74

TABLE 53

Higher education R&D expenditures in the social sciences, ranked by all FY 2023 social sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Prairie View A&M U.	303	213	17	247	431	0	148	0	72	211
C. Charleston	304	113	48	87	429	5	0	180	50	194
Kennesaw State U.	305	2,096	2,554	1,661	426	0	0	76	266	84
Franklin and Marshall C.	306	440	376	441	424	17	21	286	23	77
Seattle U.	307	200	176	103	415	0	0	0	0	415
Texas Woman's U.	308	200	83	312	412	0	0	0	0	412
California State U., Fresno	309	456	165	652	401	10	52	169	58	112
St. Cloud State U.	309	206	393	217	401	12	51	58	162	118
Davidson C.	311	161	456	523	400	55	0	0	335	10
U. San Francisco	312	397	148	272	398	4	48	5	228	113
Western Kentucky U.	313	106	189	299	396	40	0	224	67	65
U. Colorado Anschutz Medical Campus ^e	314	na	352	449	394	0	0	0	318	76
Gettysburg C.	315	226	ne	ne	393	7	65	39	0	282
Hope C.	316	673	639	515	390	0	199	48	12	131
Occidental C.	317	190	287	334	382	0	0	0	146	236
Indiana U. Pennsylvania	318	842	303	579	380	123	0	5	145	107
U. Central Oklahoma	319	0	0	342	379	0	184	0	0	195
U. Washington, Bothell	320	0	0	68	372	0	0	0	126	246
Hofstra U.	321	64	1,032	525	370	2	3	219	47	99
North Carolina Central U.	322	415	250	319	357	0	0	0	0	357
Bucknell U.	323	149	126	322	355	15	69	43	34	194
California State U., San Bernardino	324	320	208	278	349	20	1	3	33	292
Vassar C.	324	128	193	472	349	0	232	18	99	0
Middlebury C.	326	65	353	289	343	0	184	64	95	0
U. Hawaii, Hilo	327	207	179	338	337	12	0	0	0	325
Pennsylvania State U., Harrisburg	328	1,178	258	144	336	0	0	240	96	0
U. Minnesota, Duluth	329	82	154	265	326	12	4	79	0	231
Norfolk State U.	330	0	58	0	323	0	0	0	151	172
Trinity U.	331	501	411	319	322	0	179	25	110	8
U. Maryland Center for Environmental Science	332	216	326	509	318	0	146	0	172	0
U. Massachusetts, Dartmouth	333	499	42	164	313	0	121	0	7	185
Spelman C.	334	129	53	55	312	0	251	0	0	61
U. Colorado Colorado Springs	335	124	36	861	310	80	4	2	0	224

TABLE 53

Higher education R&D expenditures in the social sciences, ranked by all FY 2023 social sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Elon U.	336	274	264	193	297	17	73	55	46	106
Appalachian State U.	337	585	265	405	296	78	58	32	63	65
Northeast Ohio Medical U.	338	40	23	278	290	248	0	0	0	42
Marymount U.	339	ne	356	200	287	0	5	56	44	182
Florida Gulf Coast U.	340	118	8	2	285	10	175	0	13	87
Smith C.	341	151	93	152	283	44	130	61	48	0
U. Texas of the Permian Basin	342	320	380	494	271	0	210	0	0	61
Winston-Salem State U.	343	724	1,458	755	264	0	253	4	0	7
U.S. Naval Academy	344	0	8	10	262	0	171	91	0	0
Coastal Carolina U.	345	0	0	284	261	3	0	132	56	70
Mount Holyoke C.	346	168	106	37	257	0	0	0	0	257
Duquesne U.	347	6	46	145	253	0	0	2	251	0
U. North Carolina, Asheville	347	2	0	354	253	0	0	0	0	253
Macalester C.	349	182	160	252	251	4	42	112	6	87
Wesleyan U.	350	454	136	262	250	19	68	90	37	36
Des Moines U.	351	561	180 i	280	246	122	0	0	124	0
Lamar U.	352	20	0	160	241	0	0	81	160	0
Lincoln U., Jefferson City	353	92	120	145	237 i	0 i	237 i	0 i	0 i	0 i
U. Puerto Rico, Cayey	353	460	171	4	237	0	0	0	190	47
Purdue U., Fort Wayne	355	22	108	105	231	59	0	0	0	172
Chicago State U.	356	ne	ne	59	230	0	0	0	0	230
Central Washington U.	357	116	88	128	226	176	0	12	0	38
Saginaw Valley State U.	358	106	105 i	203 i	222 i	0 i	0 i	161 i	0 i	61 i
Saint Joseph's U.	358	194	165	277	222	0	0	12	43	167
Manhattan C.	360	64	0	0	221	0	221	0	0	0
Central Connecticut State U.	361	519	541	346	219	0	12	7	0	200
Skidmore C.	362	41	58	55	214	110	1	95	8	0
Southern Illinois U., Edwardsville	363	286	334	100	212	105	0	86	0	21
C. New Jersey	364	54	1	31	209	0	0	4	155	50
U. Tennessee, Chattanooga	365	68	21	253	208	0	0	1	154	53
Western Illinois U.	365	199	199	182	208	0	0	0	208	0
U.S. Coast Guard Academy	367	ne	ne	ne	207	0	0	207	0	0
Texas A&M U.-Commerce	368	139	99	46	204	0	0	16	84	104
Radford U.	369	ne	ne	ne	203	15	0	0	23	165

TABLE 53

Higher education R&D expenditures in the social sciences, ranked by all FY 2023 social sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Haverford C.	370	336 i	146 i	202 i	200 i	17 i	59 i	44 i	17 i	63 i
California State U., Channel Islands	371	45	22	140	197	14	0	7	92	84
Arkansas State U., Jonesboro	372	148	267	187	193	1	45	108	1	38
Stevens Institute of Technology	372	0	0	96	193	0	0	0	0	193
U. Michigan, Dearborn	372	114	62	88	193	0	0	0	119	74
U. Oklahoma, Tulsa	375	142	19	203	186	0	0	141	0	45
Idaho State U.	376	240	213	334	183	87	0	14	82	0
Northern Kentucky U.	377	95	98	126	182	0	0	113	9	60
Western Carolina U.	377	292	290	267	182	164	0	2	0	16
Austin Peay State U.	379	2	0	0	178	0	0	0	0	178
U. Puerto Rico, Mayaguez	380	233	93	524	177	0	0	0	123	54
U. Wisconsin-Eau Claire	381	72	88	17	175	0	53	21	3	98
U. Hartford	382	0	55	142	174	0	0	14	160	0
Central Michigan U.	383	169	152	112	173	8	0	0	37	128
Fayetteville State U.	383	111	293	155	173 i	0 i	59 i	0 i	0 i	114 i
Albany State U.	385	0	11	ne	169	0	0	0	67	102
CUNY, Baruch C.	385	897	677	84	169	9	114	3	43	0
U. Louisiana, Monroe	385	144	169	154	169	0	0	0	0	169
C. Wooster	388	18	151 i	167	168	69	60	38	0	1
Monmouth U.	388	1	45	49	168	30	0	0	129	9
Lafayette C.	390	119	85	117	164	40	26	44	0	54
Saint John's U.	390	192 i	125 i	144 i	164 i	10 i	43 i	38 i	15 i	58 i
Stephen F. Austin State U.	392	250	203	212	163	12	0	0	38	113
CUNY, Brooklyn C.	393	243	169	109	162	68	13	7	74	0
C. of Saint Benedict	394	65 i	114 i	132 i	150 i	10 i	40 i	34 i	14 i	52 i
U. Texas, Arlington	394	104	79	124	150	0	0	42	77	31
California State U., Monterey Bay	396	0	47	89	148	31	0	0	117	0
Andrews U.	397	670	509	ne	144	1	0	0	61	82
California State U., San Marcos	398	884	680	121	140	51	0	0	0	89
St. Edward's U.	398	340	50	30	140	0	20	40	20	60
Hampton U.	400	710	1,041	434	139	0	0	0	0	139
Winthrop U.	401	371	642	280	138	60	0	78	0	0
Embry-Riddle Aeronautical U.	402	714	476	66	135	0	0	0	0	135
Christopher Newport U.	403	148	216	195	134	37	3	75	0	19

TABLE 53

Higher education R&D expenditures in the social sciences, ranked by all FY 2023 social sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Sonoma State U.	403	40	51	72	134	0	81	0	18	35
U. Akron	405	95	54	139	131	10	51	69	1	0
U. North Georgia	405	0	5	148	131	0	0	13	0	118
U. Wisconsin-Oshkosh	407	69 i	75	93	129	67	40	0	0	22
Union C., Schenectady	408	111	31	124	127	28	41	38	8	12
Bowdoin C.	409	191	18	60	126	16	23	36	51	0
U. Guam	409	154	205	174	126	0	0	0	126	0
Pacific U.	411	90	236	342	125	0	86	0	21	18
Minnesota State U., Mankato	412	121	0	310	124	83	0	0	32	9
U. Dayton	413	38	15	47	121	0	7	14	100	0
U. Richmond	413	394	211	131	121	0	0	50	7	64
U. Wisconsin-Platteville	413	63 i	93 i	109 i	121 i	0 i	0 i	30 i	27 i	64 i
Missouri State U.	416	357	263	172	120	0	0	0	71	49
U.S. Air Force Academy	417	292	3	0	118	0	0	27	0	91
Elizabeth City State U.	418	0	0	3	116	0	0	0	116	0
Mercer U.	419	81	105	89	115	0	41	0	55	19
North Carolina A&T State U.	420	67	69	0	111	0	0	0	0	111
California State U., Chico	421	426	237	102	110	0	20	2	0	88
Lewis and Clark C.	422	20	11	77	101	19	16	13	8	45
U. Washington, Tacoma	423	124	175	97	100	0	0	0	0	100
Northland C.	424	ne	72 i	86 i	99 i	0 i	0 i	0 i	28 i	71 i
U. Wisconsin-Green Bay	425	73 i	64 i	97 i	97 i	4 i	22 i	13 i	19 i	39 i
Augusta U.	426	128	41	689	94	0	0	0	0	94
Clafin U.	426	75	107	64	94	0	94	0	0	0
Whitman C.	426	34	ne	70	94	0	30	31	33	0
California State Polytechnic U., Pomona	429	39	9	22	93	82	0	0	11	0
Xavier U. Louisiana	430	0	0	18	91	0	0	0	0	91
St. Olaf C.	431	219	84	ne	90	0	34	13	36	7
Providence C.	432	18	18	ne	88	41	9	26	12	0
Texas A&M U.-San Antonio	433	ne	ne	36	87	46	0	0	41	0
U. Alaska, Southeast	434	0	9	50	86	0	0	0	86	0
U. Arkansas, Little Rock	435	27	93	146	85	19	0	0	56	10
Marshall U.	436	5	3	0	81	0	0	36	45	0
SUNY, C. Brockport	436	81	6	28	81	26	0	0	55	0

TABLE 53

Higher education R&D expenditures in the social sciences, ranked by all FY 2023 social sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
CUNY, City C.	438	6	16	3	76	10	9	7	50	0
SUNY, Oswego	438	77	71	56	76	3	0	50	1	22
Florida Polytechnic U.	440	31	73	33	75	0	75	0	0	0
Savannah State U.	441	0	0	13	74	0	0	0	0	74
Bates C.	442	161	173	144	73	6	29	11	11	16
SUNY, Buffalo State U.	443	250	174	90	72	0	0	0	0	72
Northern Michigan U.	444	109	55	39	70	0	0	0	23	47
Tougaloo C.	444	0	0 i	60 i	70 i	1 i	29 i	19 i	20 i	1 i
Bowie State U.	446	0	0	0	69	0	0	0	0	69
Oakland U.	447	45	161	61	68	0	0	68	0	0
Tennessee Technological U.	447	55	87	52	68	0	0	32	27	9
Fairfield U.	449	20	79	ne	64	0	13	36	15	0
U. Nebraska, Kearney	449	104	19	23	64	0	0	23	0	41
U. Puget Sound	449	182	ne	36	64	0	5	27	0	32
Colorado State U., Pueblo	452	0	6	27	63	0	0	0	63	0
Eastern Kentucky U.	452	18	64	ne	63	0	1	0	57	5
U. Toledo	452	378	47	174	63	0	20	17	5	21
SUNY, C. of Environmental Science and Forestry	455	110	22	87 i	61	0	0	0	61	0
Merrimack C.	456	0	ne	ne	59	0	0	0	0	59
U. Texas, Tyler	457	19	27	67	57	0	6	0	14	37
U. Houston-Clear Lake	458	120	51	79	56	0	0	0	0	56
U. of the District of Columbia	459	0	0	0	50	0	0	0	50	0
Pittsburg State U.	460	132	163	22	49	0	49	0	0	0
East Tennessee State U.	461	88 i	46 i	120 i	48	0	0	0	0	48
Bentley U.	462	ne	ne	84	47	0	40	0	0	7
Youngstown State U.	463	32	33	50	45	0	0	0	0	45
Ithaca C.	464	176	94	54	44	0	0	5	24	15
Oberlin C.	464	77	26	ne	44	5	10	8	19	2
Hobart and William Smith Colleges	466	31	30	21	40	10	9	8	9	4
Southern U. and A&M C., Baton Rouge	466	528	1	0	40	0	0	0	40	0
U. Virginia's C. Wise	466	ne	27	95	40	0	11	0	21	8
SUNY, Geneseo	469	124	108	64	39	16	0	9	3	11
New C. Florida	470	ne	ne	ne	38	14	6	3	3	12
U. of Mary Washington	470	73	40	39	38	2	0	2	34	0

TABLE 53

Higher education R&D expenditures in the social sciences, ranked by all FY 2023 social sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Azusa Pacific U.	472	274	171	87	35	0	0	5	12	18
Calvin U.	472	46 i	54 i	62 i	35 i	0 i	0 i	2 i	0 i	33 i
Connecticut C.	472	517	407	57	35	16	0	19	0	0
Eastern Connecticut State U.	475	2	3	399	34	13	4	0	2	15
Indiana U., South Bend	475	ne	10	ne	34	22	0	6	6	0
Kenyon C.	475	17	ne	34	34	18	0	0	16	0
Southeastern Louisiana U.	478	264	11	10	30	0	28	0	0	2
Virginia Military Institute	479	ne	ne	29	29	0	13	16	0	0
Butler U.	480	ne	ne	15	28	8	0	10	10	0
U. Central Arkansas	481	43	2	252	25	0	0	0	0	25
CUNY, New York City C. of Technology	482	6	11	0	24	0	0	0	0	24
Texas A&M U.-Kingsville	482	0	0	0	24	0	0	0	24	0
Troy U.	482	20	10	40	24	0	0	0	17	7
SUNY, C. Plattsburgh	485	4	0	0	21	2	0	0	0	19
Robert Morris U.	486	ne	ne	18 i	20	0	10	7	0	3
Pace U.	487	192	5	10	19	0	6	5	0	8
William Paterson U.	488	1,568	1,591	1,506	18	0	15	1	2	0
CUNY, C. Staten Island	489	4	21	9	17	11	0	3	3	0
Virginia State U.	490	0	0	0	16	0	16	0	0	0
Drake U.	491	ne	31	9	14	0	0	0	14	0
Gustavus Adolphus C.	491	ne	ne	ne	14	0	10	0	4	0
Illinois Institute of Technology	491	100	13	91	14	0	7	0	0	7
Missouri U. of Science and Technology	491	61	69	149	14	0	14	0	0	0
Framingham State U.	495	0	534 i	274 i	13	0	10	3	0	0
U. of St. Thomas (MN)	495	34	3	15	13	0	13	0	0	0
Bryant U.	497	ne	ne	ne	12	0	7	0	5	0
Furman U.	497	164	5	15	12	0	0	0	7	5
Citadel Military C. South Carolina	499	16	6	25	11	0	0	1	0	10
Northeastern Illinois U.	499	48	40	8	11	0	11	0	0	0
Seton Hall U.	501	0	0	0	10	0	0	0	10	0
Texas Christian U.	501	319	74	2,551	10	0	0	0	2	8
East Stroudsburg U. Pennsylvania	503	ne	ne	2	9	0	0	0	9	0
Marian U., Indianapolis	503	ne	ne	ne	9	0	0	0	0	9
Abilene Christian U.	505	ne	11	6	8	0	5	0	3	0

TABLE 53

Higher education R&D expenditures in the social sciences, ranked by all FY 2023 social sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
U. Scranton	505	ne	ne	ne	8	0	0	5	3	0
Ursinus C.	507	ne	ne	ne	6	0	0	0	3	3
Morehead State U.	508	267	165	0	5	5	0	0	0	0
Tuskegee U.	508	4,907	5,828	89	5	0	0	0	5	0
Pennsylvania State U., Altoona	510	ne	ne	ne	3	0	0	0	3	0
U. South Carolina, Beaufort	510	ne	ne	ne	3	0	0	0	0	3
Pennsylvania State U., Behrend	512	15	43	80	2	0	0	1	1	0
Dillard U.	513	189	38	6	1	0	0	1	0	0
Norwich U.	513	ne	ne	ne	1	0	0	0	0	1
U. New England	513	9	0	5	1	0	0	0	1	0
U. South Carolina, Aiken	513	6	0	245	1	0	0	0	1	0
All other surveyed institutions	-	21,007	16,641	11,611	0	0	0	0	0	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified.

^a The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^b The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

^c The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

^d Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$8,402 thousand imputed for total R&D expenditures in social sciences in FY 2023. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

^e The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 54

Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2023 social sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
All institutions	-	963,623	949,941	1,074,208	1,202,546	46,631	206,477	111,794	317,113	520,531
U. Michigan, Ann Arbor	1	89,211	85,904	94,899	113,394	865	27,373	19,285	19,604	46,267
U. North Carolina, Chapel Hill	2	56,291	43,473	52,761	65,162	62	123	3,090	56,406	5,481
U. Southern California	3	28,212	41,252	54,732	60,441	17	32,733	384	134	27,173
Harvard U.	4	27,768	32,441	37,799	45,358	30	3,630	1,565	17,686	22,447
U. Maryland ^a	5	36,918	35,980	30,603	39,549	650	560	1,512	3,168	33,659
U. Wisconsin-Madison	6	24,863	26,100	24,878	30,209	30	1,698	1,109	2,512	24,860
Arizona State U.	7	21,158	19,939	21,805	25,628	2,490	1,454	3,278	3,068	15,338
Duke U.	8	20,611	21,294	22,646	25,177	2,337	1,927	458	9,918	10,537
Brown U.	9	17,975	20,519	22,828	24,744	0	249	10	418	24,067
U. Minnesota, Twin Cities	10	15,486	18,265	25,517	22,801	216	2,804	850	18,543	388
Michigan State U.	11	23,664	20,456	17,060	19,628	143	10,487	231	955	7,812
Pennsylvania State U., University Park and Hershey Medical Center	12	12,255	10,718	18,106	19,189	402	3,843	879	14,065	0
U. California, Davis	13	12,384	13,706	19,444	18,325	0	5,890	3,429	728	8,278
U. Pennsylvania	14	16,651	12,742	14,697	16,193	298	691	1,071	12,241	1,892
U. South Florida ^b	15	14,278	15,894	14,818	16,052	764	0	350	913	14,025
U. California, Los Angeles	16	9,105	7,673	10,921	13,624	0	2	9	3,682	9,931
Texas A&M U., College Station and Health Science Center	17	8,838	11,023	13,123	13,562	662	2,504	1,206	699	8,491
U. Texas, Austin	18	10,339	12,928	11,765	13,532	1,094	51	493	9,700	2,194
Mississippi State U.	19	17,297	10,795	13,019	13,329	245	260	51	2,434	10,339
U. Georgia	20	6,118	9,262	13,225	13,265	620	9,579	295	37	2,734
U. Utah	21	8,098	3,396	11,759	12,980	543	75	141	11,629	592
George Washington U.	22	8,955	8,227	10,477	12,515	1,174	653	145	2,756	7,787
Ohio State U.	23	10,746	9,443	12,219	12,385	317	3,210	370	4,598	3,890
George Mason U.	24	6,074	7,601	9,194	12,132	0	7	402	900	10,823
U. Colorado Boulder	25	11,527	9,168	9,730	12,038	923	420	0	8,026	2,669
U. New Hampshire	26	6,208	8,913	11,473	11,283	22	1,785	0	3,567	5,909
Northwestern U.	27	8,526	11,898	13,131	11,247	383	5,247	186	0	5,431
U. Washington, Seattle	28	6,333	6,899	8,206	10,546	65	13	2,186	5,349	2,933
New York U.	29	5,450	6,585	9,297	10,489	0	233	659	5,915	3,682
Indiana U., Bloomington	30	9,654	9,435	9,231	10,144	168	502	5,287	2,217	1,970
U. California, Berkeley	31	5,489	5,495	8,148	10,143	157	4,658	684	868	3,776
Georgia State U.	32	5,873	10,424	13,236	9,993	56	1,558	1,122	2,903	4,354

TABLE 54

Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2023 social sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Massachusetts Institute of Technology	33	6,424	5,534	9,284	9,496	0	4,901	76	0	4,519
U. Chicago	34	10,380	13,190	9,500	9,412	84	1,346	194	1,833	5,955
Johns Hopkins U. ^c	35	4,910	2,726	6,290	9,001	27	54	0	8,584	336
Colorado State U., Fort Collins	36	8,715	6,894	7,838	8,774	4,162	650	173	508	3,281
U. Arizona	37	6,264	6,333	7,363	8,487	2,126	72	449	981	4,859
Cornell U.	38	7,441	5,374	4,621	8,061	164	1,919	304	3,521	2,153
U. California, San Diego	39	2,924	5,282	10,662	7,973	0	737	766	4,688	1,782
Teachers C., Columbia U.	40	3,856	4,698	6,262	7,694	0	6,378	0	0	1,316
Brandeis U.	41	6,882	7,957	6,922	7,478	102	0	28	2,901	4,447
U. Florida	42	4,981	5,584	7,942	7,471	525	1,290	2,198	55	3,403
Princeton U.	43	5,802	6,743	7,521	7,135	94	742	2,265	4,034	0
U. Maryland, Baltimore County	44	5,801	5,898	6,096	7,087	0	59	0	374	6,654
Florida International U.	45	2,885	4,126	5,941	7,042	0	577	1,302	523	4,640
U. Delaware	46	6,459	5,713	5,313	6,363	0	1,106	35	1,614	3,608
Purdue U., West Lafayette	47	5,955	4,550	5,286	6,347	289	4,867	455	736	0
U.S. Army War C.	48	ne	4,662	5,496	6,035	0	0	0	0	6,035
Naval Postgraduate School	49	4,623	5,622	4,681	5,955	0	0	4,778	412	765
U. Texas M. D. Anderson Cancer Center	50	2,968	3,279	5,165	5,762	0	0	0	5,762	0
Stanford U.	51	5,291	5,926	6,084	5,626	78	825	1,894	114	2,715
Northeastern U.	52	4,688	8,200	5,501	5,623	0	202	2,290	1,607	1,524
Indiana U.-Purdue U., Indianapolis	53	3,263	2,395	2,156	5,493	0	85	4,841	94	473
Georgetown U.	54	6,531	6,531	5,175	5,331	0	93	3,549	14	1,675
U.S. Military Academy	54	19	919	4,526	5,331	0	4,184	1,040	0	107
Clemson U.	56	3,840	4,781	5,191	5,328	0	64	165	1,434	3,665
Case Western Reserve U.	57	3,051	3,291	558	5,227	33	0	0	200	4,994
U. New Mexico	58	4,420	3,915	5,104	5,006	1,790	332	0	676	2,208
U. Cincinnati	59	2,376	2,660	3,998	4,897	333	0	431	1,321	2,812
U. South Carolina, Columbia	60	2,770	2,405	3,723	4,786	1,085	0	54	2,738	909
U. Oklahoma, Norman and Health Science Center	61	13,505	3,475	3,343	4,779	1,916	3	2,455	11	394
Washington State U.	62	4,140	7,120	4,994	4,771	316	1,972	79	273	2,131
U. California, Santa Barbara	63	1,238	1,686	3,735	4,523	0	0	0	0	4,523
Yale U.	64	1,833	2,083	1,846	4,316	596	1,608	14	1,759	339
Virginia Polytechnic Institute and State U.	65	4,272	3,156	4,265	4,128	0	2,572	23	1,236	297

TABLE 54

Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2023 social sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Georgia Institute of Technology	66	21,373	3,055	7,754	4,063	0	0	0	790	3,273
U. Nebraska, Lincoln and Medical Center ^d	67	na	na	na	4,049	0	616	0	2,832	601
Kansas State U.	68	4,175	3,447	3,760	4,015	0	2,915	43	398	659
U. Louisiana, Lafayette	69	0	3,730	3,630	3,998	226	1,515	2,257	0	0
U. Massachusetts, Lowell	70	3,021	4,000	3,389	3,989	0	0	65	0	3,924
Texas State U.	71	3,931	3,212	2,781	3,882	653	0	0	176	3,053
Syracuse U.	72	3,007	3,260	4,152	3,828	13	0	1,771	115	1,929
U. Texas, San Antonio	73	1,596	1,848	2,850	3,797	456	117	20	1,264	1,940
American U.	74	6,887	3,675	4,239	3,759	0	113	648	138	2,860
Florida State U.	75	1,463	2,050	2,402	3,744	247	45	99	299	3,054
Vanderbilt U. and Vanderbilt U. Medical Center	76	2,189	2,959	2,513	3,695	303	32	3,017	83	260
Oregon State U.	77	3,220	3,251	3,142	3,641	0	483	0	820	2,338
U. Vermont	78	272	667	1,533	3,534	52	3,121	0	0	361
Boston C.	79	3,307	3,631	3,829	3,323	0	21	78	3,020	204
U. Arkansas, Fayetteville	80	1,364	1,300	3,141	3,237	460	10	2,249	518	0
U. Denver	81	1,944	1,549	1,707	3,213	48	56	70	0	3,039
U. Memphis	82	973	2,072	2,800	3,198	0	0	138	1,794	1,266
U. Illinois, Urbana-Champaign	83	2,192	2,343	2,349	3,155	280	13	263	182	2,417
U. Connecticut	84	3,621	3,562	4,175	3,021	69	1,815	473	0	664
Alcorn State U.	85	2,807	3,532	2,532	2,996	0	2,955	25	16	0
Tulane U.	86	2,175	2,598	3,217	2,919	236	1,261	60	1,155	207
Columbia U. in the City of New York	87	3,357	2,513	3,468	2,911	0	0	57	2,027	827
U. Massachusetts, Amherst	88	2,031	1,889	3,198	2,880	185	985	377	588	745
U. Kentucky	89	1,146	1,628	2,326	2,867	36	1,136	58	1,448	189
U. Massachusetts, Boston	90	3,481	3,169	2,363	2,851	212	8	0	2,034	597
SUNY, U. Albany	91	5,008	1,902	1,843	2,790	305	51	1,452	113	869
U. Illinois, Chicago	92	1,549	2,396	2,530	2,747	0	0	357	0	2,390
North Carolina State U.	93	3,537	4,445	3,543	2,620	0	1,714	182	724	0
Rice U.	94	1,719	2,229	1,896	2,517	413	324	100	1,548	132
U. Rhode Island	95	1,518	1,129	1,817	2,463	0	292	113	0	2,058
U. Alabama, Tuscaloosa	96	1,549	1,711	1,652	2,454	270	0	1	84	2,099
Rutgers, State U. New Jersey, New Brunswick	97	1,308	2,003	2,303	2,263	218	290	331	10	1,414
U. Southern Maine	98	2,034	1,827	1,970	2,164	12	0	0	0	2,152

TABLE 54

Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2023 social sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
U. California, Irvine	99	1,829	2,142	2,435	2,116	414	225	6	9	1,462
Tufts U.	100	1,200	2,961	3,547	2,089	155	251	0	0	1,683
U. Montana, Missoula	101	1,795	2,719	1,773	2,043	538	1,263	0	242	0
Louisiana State U., Baton Rouge	102	1,272	1,363	1,268	2,024	0	303	58	153	1,510
U. Notre Dame	103	1,391	1,611	1,606	2,006	334	441	908	55	268
William & Mary	104	5,018	4,366	3,481	1,997	20	0	1,819	134	24
Oklahoma State U., Stillwater	105	343	363	1,830	1,989	0	1,192	52	170	575
Carnegie Mellon U.	106	4,678	3,225	2,218	1,966	0	921	0	0	1,045
National Defense U.	107	2,383	2,186	3,020	1,951	0	0	1,951	0	0
U. Nevada, Reno	108	2,237	2,017	1,996	1,916	272	1,375	35	107	127
CUNY, John Jay C. of Criminal Justice	109	0	289	579	1,911	0	0	296	110	1,505
U. Central Florida	110	640	951	1,300	1,851	160	10	782	358	541
Portland State U.	111	1,476	1,663	1,213	1,834	933	3	112	229	557
Dartmouth C. and Dartmouth Hitchcock Medical Center	112	835	1,196	2,001	1,824	235	45	115	103	1,326
U. Pittsburgh, Pittsburgh	113	2,348	2,223	2,188	1,789	43	57	572	381	736
U. Idaho	114	3,073	2,779	3,775	1,788	0	604	100	699	385
U. Oregon	115	1,893	1,468	1,392	1,764	346	65	135	12	1,206
U. Northern Iowa	116	867	1,036	1,137	1,763	0	8	0	0	1,755
Washington U., Saint Louis	117	443	629	955	1,759	141	0	693	0	925
California Institute of Technology	118	0	0	0	1,634	0	174	0	0	1,460
Temple U.	119	1,614	1,486	1,380	1,618	87	0	115	42	1,374
Boise State U.	120	1,884	1,566	1,468	1,614	76	0	0	14	1,524
Emory U.	121	916	905	804	1,595	0	89	170	1,317	19
U. Alabama, Huntsville	122	1,449	597	837	1,580	0	1,541	39	0	0
U. Virginia, Charlottesville	123	3,246	3,713	3,221	1,489	84	393	92	250	670
U. Tennessee, Knoxville	124	1,645	1,597	1,231	1,480	273	847	0	0	360
Howard U.	125	251	340	379	1,477	0	1,073	0	404	0
U. Alaska, Fairbanks	126	1,538	1,163	982	1,465	454	9	28	23	951
U. Missouri, Columbia	127	450	576	1,770	1,433	134	624	653	0	22
U. Nebraska, Omaha	128	453	915	1,179	1,427	83	0	178	17	1,149
San Diego State U.	129	997	848	1,237	1,416	305	61	0	14	1,036
U. Kansas	130	4,390	1,319	1,888	1,320	474	208	157	140	341
West Virginia U.	131	1,272	1,301	1,016	1,317	0	141	201	101	874
Iowa State U.	132	1,186	5,410	3,208	1,273	0	293	52	585	343

TABLE 54

Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2023 social sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
U. Houston	133	478	412	853	1,235	0	83	222	523	407
Baylor U.	134	60	27	434	1,194	96	4	0	0	1,094
U. North Carolina, Wilmington	135	260	778	832	1,107	0	0	0	0	1,107
U. Texas, El Paso	136	1,054	925	897	1,086	110	12	371	528	65
Bowling Green State U.	137	868	991	1,042	1,082	0	124	0	733	225
SUNY, Stony Brook U.	138	804	462	845	1,065	261	162	151	146	345
U. Wyoming	138	295	589	1,009	1,065	554	446	0	50	15
U. California, Riverside	140	917	914	1,200	1,049	0	16	67	362	604
U. Hawaii, Manoa	141	1,606	1,545	1,103	1,045	89	70	89	16	781
San Francisco State U.	142	1,316	1,329	1,116	1,034	0	37	0	59	938
U. Wisconsin-Milwaukee	143	2,273	2,243	1,654	1,033	399	109	12	382	131
California State U., Sacramento	144	113	63	453	1,032	48	276	0	657	51
Boston U.	145	1,052	869	1,000	1,028	179	382	0	35	432
Auburn U., Auburn	146	2,573	2,819	880	1,018	0	68	216	2	732
U. North Carolina, Charlotte	147	2,252	1,401	875	1,013	49	30	415	332	187
California State Polytechnic U., Humboldt	148	76	379	827	995	875	0	0	0	120
Kent State U.	149	949	930	1,185	993	4	4	19	135	831
Sam Houston State U.	150	863	316	804	986	0	0	0	0	986
Texas Tech U.	151	470	98	722	983	0	775	0	92	116
Gallaudet U.	152	56	142	256	981	0	0	0	981	0
U. Texas, Dallas	153	577	824	526	973	0	0	409	269	295
Rutgers, State U. New Jersey, Newark	154	574	108	327	952	0	0	388	67	497
North Dakota State U.	155	4,244	450	805	951	0	438	0	314	199
U. North Texas, Health Science Center	156	456	0	652	919	0	0	0	0	919
Cleveland State U.	157	353	265	552	903	0	0	0	0	903
Colorado School of Mines	158	850	1,097	577	902	66	836	0	0	0
Old Dominion U.	159	1,001	644	791	897	0	3	320	0	574
U. Iowa	160	2,393	2,309	1,314	896	138	20	180	129	429
Texas A&M U.-Corpus Christi	161	58	265	486	893	0	0	0	0	893
U. Southern Mississippi	162	2,799	1,200	1,176	885	0	0	0	0	885
East Carolina U.	163	832	1,071	757	819	146	252	0	342	79
U. California, Santa Cruz	163	667	665	1,071	819	0	312	13	99	395
U. Alaska, Anchorage	165	1,564	1,625	759	814	7	634	0	89	84
Southern Methodist U.	166	113	77	327	809	319	490	0	0	0

TABLE 54

Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2023 social sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023						
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec	
Northwestern State U. Louisiana	167	597	738	729	808	0	0	0	0	0	808
U. Nevada, Las Vegas	168	249	189	423	803	219	0	58	12	514	
Naval War C.	169	724	794	929	800	0	0	800	0	0	
Worcester Polytechnic Institute	170	1,580	1,091	1,163	793	0	0	0	0	793	
CUNY, Queens C.	171	85	172	288	786	81	31	0	674	0	
U. Baltimore	172	969	757	734	747	0	506	0	0	241	
Virginia Commonwealth U.	173	305	520	637	746	0	188	558	0	0	
SUNY, Binghamton U.	174	1,045	826	808	725	201	81	0	0	443	
U. California, Merced	175	405	129	295	716	0	287	0	21	408	
Montana State U., Bozeman	176	289	910	684	686	0	0	146	4	536	
Drexel U.	177	1,057	792	1,072	665	0	0	0	0	665	
California State U., Long Beach	178	363	515	393	662	34	150	0	63	415	
CUNY, Graduate Center	179	1,334	589	649	661	13	53	500	95	0	
CUNY, Hunter C.	180	521	502	502	655	388	151	0	116	0	
SUNY, U. Buffalo	181	1,433	1,104	991	646	326	0	0	320	0	
Georgia Southern U.	182	9	73	432	645	9	0	156	68	412	
U. Alabama, Birmingham	183	201	303	470	633	0	0	0	387	246	
U. New Haven	184	363	298	529	599	0	0	0	88	511	
Montclair State U.	185	63	62	50	595	0	0	0	0	595	
Lehigh U.	186	0	160	341	573	0	560	0	13	0	
U. New Orleans	187	795	500	674	559	195	0	0	0	364	
U. of the Virgin Islands	188	228	248	534	534	0	310	0	0	224	
Wayne State U.	189	474	845	660	526	47	112	54	217	96	
Texas A&M International U.	190	0	632	527	520	0	0	0	0	520	
U. Rochester	191	234	318	354	506	167	0	140	0	199	
California State U., Northridge	192	464	383	300	494	0	0	0	0	494	
U. Louisville	193	783	379	157	493	101	37	47	10	298	
Ohio U.	194	169	292	417	492	0	0	0	1	491	
New Mexico State U.	195	341	451	530	488	144	247	0	0	97	
U. North Carolina, Greensboro	196	244	503	463	486	35	139	0	159	153	
U. Mississippi	197	179	115	154	462	0	0	10	430	22	
Northern Arizona U.	198	212	126	286	461	22	349	0	85	5	
Chapman U.	199	136	109	158	439	0	0	0	389	50	
Clark U.	200	655	801	615	432	0	377	0	50	5	

TABLE 54

Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2023 social sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
CUNY, Lehman C.	201	163	168	230	427	0	0	0	427	0
South Dakota State U.	202	879	665	771	418	0	234	0	7	177
Loyola U., Chicago	203	240	544	359	413	136	0	0	5	272
Delaware State U.	204	99	114	1,152	412	0	33	0	379	0
U. Miami	205	451	462	592	405	0	158	0	157	90
Wellesley C.	206	761	327	571	397	0	180	0	0	217
U. Illinois, Springfield	207	959	1,040	839	388	0	0	0	0	388
U. South Alabama	208	326	274	362	385	0	0	0	73	312
Eastern Washington U.	209	562	250	320	381	0	0	0	0	381
Jackson State U.	210	34	67	4	370	0	0	370	0	0
Prairie View A&M U.	211	0	17	199	368	0	148	0	9	211
U. Missouri, Saint Louis	212	492	323	159	366	0	63	38	0	265
Utah State U.	213	1,241	919	495	365	0	326	0	16	23
U. Northern Colorado	214	161	391	445	361	6	0	0	20	335
Michigan Technological U.	215	440	495	458	358	0	0	0	0	358
Rutgers, State U. New Jersey, Camden	215	79	669	1,057	358	0	272	0	86	0
Loyola Marymount U.	217	0	275	306	352	0	352	0	0	0
Kennesaw State U.	218	11	409	394	350	0	0	0	266	84
Gettysburg C.	219	193	ne	ne	338	0	56	0	0	282
Claremont Graduate U.	220	351	392	538	336	0	0	0	0	336
U. Hawaii, Hilo	221	116	109	236	328	12	0	0	0	316
Morgan State U.	222	40	115	4	319	0	13	0	69	237
U. Maryland Center for Environmental Science	223	59	166	312	318	0	146	0	172	0
Southern Illinois U., Carbondale	224	94	115	180	314	0	0	72	242	0
California State U., Los Angeles	225	1,245	959	391	313	0	0	0	0	313
Spelman C.	226	129	53	55	312	0	251	0	0	61
Saint Louis U.	227	183	160	315	304	0	0	0	164	140
Stockton U.	228	0	0	17	293	0	0	0	293	0
Rowan U.	229	222	58	0	292	0	91	39	0	162
Alabama A&M U.	230	152	177	219	290	0	0	33	95	162
U. Colorado Denver ^e	231	na	292	387	288	92	44	0	149	3
Northeast Ohio Medical U.	232	35	17	250	278	248	0	0	0	30
U. North Texas, Denton	233	202	291	294	275	0	0	14	111	150

TABLE 54

Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2023 social sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
California State U., Fullerton	234	33	55	360	271	4	0	0	0	267
Rochester Institute of Technology	235	557	489	385	262	0	0	100	47	115
Miami U.	236	388	722	257	252	0	0	61	0	191
California State U., Dominguez Hills	237	137	250	126	250	0	0	0	250	0
U. Wisconsin-La Crosse	238	83	73	294	238	0	41	0	0	197
North Carolina Central U.	239	126	12	210	233	0	0	0	0	233
Chicago State U.	240	ne	ne	59	230	0	0	0	0	230
Creighton U.	241	129	153	214	226	3	29	18	41	135
Western Washington U.	242	173	188	347	224	61	0	0	143	20
Middle Tennessee State U.	243	66	164	271	223	155	0	0	0	68
Brigham Young U., Provo	244	688	753	736	221	19	173	0	9	20
Mount Holyoke C.	245	53	80	0	218	0	0	0	0	218
Florida Atlantic U.	246	126	105	179	217	0	0	0	0	217
Franklin and Marshall C.	247	279	216	212	216	0	0	215	1	0
Southern Illinois U., Edwardsville	248	19	56	74	212	105	0	86	0	21
Middlebury C.	249	65	162	150	206	0	71	64	71	0
U.S. Coast Guard Academy	250	ne	ne	ne	204	0	0	204	0	0
Colby C.	251	0	0	85	201	80	105	0	16	0
Occidental C.	252	5	156	174	197	0	0	0	23	174
U. North Florida	252	128	13	439	197	0	0	0	111	86
Des Moines U.	254	159	180	280	195	122	0	0	73	0
DePaul U.	255	6	0	169	194	0	0	116	78	0
U. Tulsa	255	145	71	104	194	194	0	0	0	0
South Carolina State U.	257	141	155	170	184	0	184	0	0	0
Saginaw Valley State U.	258	12	13	171	183	0	0	152	0	31
Ball State U.	259	303	196	166	178	91	0	0	50	37
Carleton C.	260	76	106	121	177	99	0	0	78	0
U. Texas Rio Grande Valley	261	10	0	205	176	0	0	0	66	110
Western Illinois U.	261	0	168	154	176	0	0	0	176	0
Stevens Institute of Technology	263	0	0	0	174	0	0	0	0	174
U. Puerto Rico, Mayaguez	264	163	30	449	172	0	0	0	119	53
Saint Joseph's U.	265	143	115	176	167	0	0	0	0	167
U. Louisiana, Monroe	266	143	162	153	165	0	0	0	0	165
U. Minnesota, Duluth	266	7	107	190	165	0	0	0	0	165

TABLE 54

Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2023 social sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
California Polytechnic State U., San Luis Obispo	268	481	483	499	164	0	120	0	1	43
Albany State U.	269	0	0	ne	162	0	0	0	60	102
Trinity U.	270	0	0	21	161	0	69	0	90	2
Central Connecticut State U.	271	206	225	240	153	0	0	0	0	153
Hamilton C.	271	26	105	139	153	0	39	114	0	0
California State U., East Bay	273	171	345	319	150	0	0	0	0	150
New Jersey Institute of Technology	274	283	76	65	148	0	82	0	0	66
U. Colorado Colorado Springs	274	46	17	0	148	0	0	0	0	148
Hampton U.	276	710	1,041	434	139	0	0	0	0	139
U. Hartford	277	0	3	66	137	0	0	0	137	0
Davidson C.	278	78	80	152	136	55	0	0	71	10
U. Maine	279	121	222	171	135	50	0	0	80	5
Rensselaer Polytechnic Institute	280	101	196	401	133	0	35	0	0	98
C. New Jersey	281	0	0	3	131	0	0	0	131	0
U. North Dakota	282	66	22	139	126	0	23	0	82	21
Florida A&M U.	283	0	0	2	124	0	0	0	9	115
Central Michigan U.	284	130	111	71	121	0	0	0	28	93
St. Cloud State U.	284	12	0	0	121	0	0	0	121	0
San Jose State U.	286	80	790	153	119	64	0	0	0	55
California State U., Channel Islands	287	0	0	2	118	8	0	0	26	84
U. Guam	288	154	171	156	116	0	0	0	116	0
Appalachian State U.	289	167	78	277	112	21	0	0	26	65
U. Washington, Bothell	289	0	0	68	112	0	0	0	0	112
North Carolina A&T State U.	291	45	37	0	111	0	0	0	0	111
Western Carolina U.	291	198	154	123	111	95	0	0	0	16
California State U., Fresno	293	275	157	327	107	0	0	100	1	6
Swarthmore C.	293	56	43	0	107	0	87	0	0	20
U.S. Air Force Academy	295	292	3	0	106	0	0	15	0	91
Western Michigan U. and Homer Stryker M.D. School of Medicine	295	83	27	47	106	0	16	49	32	9
U. Texas of the Permian Basin	297	320	360	197	102	0	99	0	0	3
Kean U.	298	0	0	0	100	0	0	0	0	100
U. Dayton	298	0	0	0	100	0	0	0	100	0
U. Washington, Tacoma	298	75	44	92	100	0	0	0	0	100
Idaho State U.	301	218	63	55	98	56	0	0	42	0

TABLE 54

Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2023 social sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Clafin U.	302	75	107	64	94	0	94	0	0	0
U. Central Oklahoma	303	0 i	0 i	85 i	93 i	0 i	77 i	0 i	0 i	16 i
Skidmore C.	304	0	0	13	91	91	0	0	0	0
U. Massachusetts, Dartmouth	304	1	16	19	91	0	0	0	0	91
U.S. Naval Academy	304	0	0	0	91	0	0	91	0	0
Xavier U. Louisiana	304	0	0	18	91	0	0	0	0	91
U. West Florida	308	0	4	72	87	0	87	0	0	0
Pacific U.	309	84	4	14	86	0	86	0	0	0
C. Charleston	310	0	4	0	85	0	0	47	19	19
Duquesne U.	311	0	13	86	84	0	0	0	84	0
Missouri State U.	311	263	198	137	84	0	0	0	40	44
Arkansas State U., Jonesboro	313	52	153	96	83	0	45	0	0	38
California State Polytechnic U., Pomona	314	0	0	22	82	82	0	0	0	0
California State U., Chico	315	385	91	15	81	0	0	0	0	81
Embry-Riddle Aeronautical U.	315	336	170	0	81	0	0	0	0	81
Western Kentucky U.	315	11	55	78	81	0	0	20	61	0
Wake Forest U.	318	12	24	34	80	0	80	0	0	0
California State U., Stanislaus	319	3	35	23	79	66	0	0	0	13
U. Puerto Rico, Rio Piedras	320	127	60	86	78	0	0	49	0	29
U. Texas, Arlington	321	43	7	20	76	0	0	16	60	0
U. San Francisco	322	65	24	96	73	0	0	0	0	73
Austin Peay State U.	323	0	0	0	72	0	0	0	0	72
Bowie State U.	324	0	0	0	69	0	0	0	0	69
Tougaloo C.	325	0	0 i	60 i	68 i	0 i	29 i	19 i	19 i	1 i
U. San Diego	326	61	19	70	64	0	0	0	0	64
Bryn Mawr C.	327	5	0	0	62	62	0	0	0	0
Fayetteville State U.	327	0	180	56	62 i	0 i	0 i	0 i	0 i	62 i
Reed C.	327	2	2 i	55 i	62 i	8 i	15 i	9 i	9 i	21 i
SUNY, C. of Environmental Science and Forestry	330	25	13	87	61	0	0	0	61	0
New School	331	0	42	92	60	20	3	0	0	37
Indiana U. Pennsylvania	332	64	72	250	59	59	0	0	0	0
Savannah State U.	333	0	0	6	56	0	0	0	0	56
U. Colorado Anschutz Medical Campus ^e	333	na	73	97	56	0	0	0	0	56

TABLE 54

Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2023 social sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Clarkson U.	335	16	0	119	55	0	0	0	0	55
Mercer U.	336	20	46	34	54	0	39	0	0	15
U. Wisconsin-Oshkosh	336	0 i	0	0	54	34	0	0	0	20
Towson U.	338	162	23	27	53	2	0	0	51	0
Texas Woman's U.	339	14	0	0	50	0	0	0	0	50
Pittsburg State U.	340	99	163	22	49	0	49	0	0	0
U. Houston-Clear Lake	340	30	45	60	49	0	0	0	0	49
U. Puerto Rico, Cayey	342	330	28	0	47	0	0	0	0	47
Texas A&M U.-San Antonio	343	ne	ne	36	46	46	0	0	0	0
CUNY, Brooklyn C.	344	0	1	0	45	45	0	0	0	0
Youngstown State U.	344	32	33	50	45	0	0	0	0	45
Marshall U.	346	0	0	0	43	0	0	0	43	0
Northern Illinois U.	346	202	177	103	43	43	0	0	0	0
Providence C.	348	0	0	ne	41	41	0	0	0	0
Santa Clara U.	348	89	63	8	41	41	0	0	0	0
Barnard C.	350	61	56	68	39	36	0	0	0	3
Eastern Michigan U.	350	3	31	21	39	0	0	0	28	11
Ithaca C.	350	165	85	44	39	0	0	0	24	15
Central Washington U.	353	1	0	4	38	2	0	0	0	36
U. Missouri, Kansas City	353	25	9	0	38	0	38	0	0	0
California State U., San Bernardino	355	183	18	26	36	5	0	0	21	10
Seattle U.	356	132	0	0	34	0	0	0	0	34
U. South Dakota	356	13	13	0	34	8	0	0	0	26
Williams C.	356	53 i	56 i	30 i	34 i	4 i	8 i	6 i	5 i	11 i
Northland C.	359	ne	25 i	28 i	32 i	0 i	0 i	0 i	15 i	17 i
St. Olaf C.	359	10	16	ne	32	0	0	2	30	0
U. Virginia's C. Wise	359	ne	4	50	32	0	11	0	21	0
California State U., Monterey Bay	362	0	0	0	31	31	0	0	0	0
Louisiana Tech U.	362	420	169	118	31	0	0	9	0	22
Bentley U.	364	ne	ne	84	30	0	23	0	0	7
Monmouth U.	364	1	45	49	30	30	0	0	0	0
Sacred Heart U.	366	ne	0	ne	28	0	0	0	0	28
U. Wisconsin-Green Bay	366	23 i	20 i	24 i	28 i	1 i	5 i	2 i	7 i	13 i
Pepperdine U.	368	37	28	19	27	0	0	0	27	0

TABLE 54

Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2023 social sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Suffolk U.	368	0	0	13	27	0	0	0	0	27
Tennessee Technological U.	368	0	12	32	27	0	0	0	27	0
U. Puget Sound	368	0	ne	21	27	0	0	27	0	0
Macalester C.	372	13	0	34	25	0	25	0	0	0
Pennsylvania State U., Harrisburg	372	7	16	10	25	0	0	0	25	0
Texas A&M U.-Kingsville	374	0	0	0	24	0	0	0	24	0
U. Wisconsin-Platteville	374	18 i	18 i	22 i	24 i	0 i	0 i	11 i	4 i	9 i
Wichita State U.	374	17	9	8	24	15	0	0	0	9
Florida Gulf Coast U.	377	78	5	2	23	0	0	0	0	23
U. Oklahoma, Tulsa	377	0	0	20	23	0	0	0	0	23
U. Texas, Tyler	377	4	18	4	23	0	6	0	0	17
SUNY, C. Brockport	380	35	2	15	20	16	0	0	4	0
Wesleyan U.	380	24	11	30	20	0	0	20	0	0
Winston-Salem State U.	380	0	197	100	20	0	13	0	0	7
Colgate U.	383	10	25	21	19	0	0	0	19	0
Lincoln U., Jefferson City	383	4	21	47	19	0	19	0	0	0
Tarleton State U.	383	0	0	141	19	0	0	0	0	19
U. Arkansas, Little Rock	383	4	73	6	19	0	0	0	19	0
Grinnell C.	387	30	28	2	18	0	0	0	18	0
U. Toledo	387	212	21	109	18	0	0	0	3	15
Elon U.	389	22	21	18	17	17	0	0	0	0
Amherst C.	390	0	0	16	16	0	16	0	0	0
Pomona C.	390	138	48	19	16	0	0	16	0	0
Virginia State U.	390	0	0	0	16	0	16	0	0	0
Haverford C.	393	12	0	15	15	5	10	0	0	0
U. Wisconsin-Eau Claire	393	0	0	0	15	0	1	0	3	11
California State U., San Marcos	395	757	565	101	14	0	0	0	0	14
U. Richmond	395	359	185	73	14	0	0	14	0	0
Eastern Connecticut State U.	397	0	0	0	13	13	0	0	0	0
SUNY, Buffalo State U.	397	123	2	0	13	0	0	0	0	13
West Chester U. Pennsylvania	397	0	0	8	13	0	0	0	0	13
Stephen F. Austin State U.	400	131	41	0	12	0	0	0	12	0
Northeastern Illinois U.	401	48	40	8	11	0	11	0	0	0
Whitman C.	401	15	ne	30	11	0	0	0	11	0

TABLE 54

Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2023 social sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Azusa Pacific U.	403	0	0	0	10	0	0	0	0	10
Butler U.	403	ne	ne	0	10	0	0	0	10	0
California State U., Bakersfield	403	25	12	23	10	0	0	0	1	9
Lamar U.	403	10	0	15	10	0	0	0	10	0
Southern U. and A&M C., Baton Rouge	403	216	0	0	10	0	0	0	10	0
Bowdoin C.	408	62	1	0	8	0	0	8	0	0
Illinois Institute of Technology	409	88	13	91	7	0	0	0	0	7
U. Tennessee, Chattanooga	409	16	8	21	7	0	0	0	0	7
Missouri U. of Science and Technology	411	32	49	99	6	0	6	0	0	0
Radford U.	412	ne	ne	ne	5	0	0	0	0	5
Tuskegee U.	412	2,109	2,500	0	5	0	0	0	5	0
Colorado State U., Pueblo	414	0	0	0	4	0	0	0	4	0
William Paterson U.	414	485	628	619	4	0	3	1	0	0
Catholic U. of America	416	98	5	0	3	0	0	3	0	0
Ursinus C.	416	ne	ne	ne	3	0	0	0	3	0
Vassar C.	416	60	34	17	3	0	0	3	0	0
Southeastern Louisiana U.	419	224	0	0	2	0	0	0	0	2
Bates C.	420	73	119	66	1	0	0	1	0	0
C. of Saint Benedict	420	0 i	1 i	1 i	1 i	1 i	0 i	0 i	0 i	0 i
Coastal Carolina U.	420	0	0	0	1	1	0	0	0	0
Dillard U.	420	0	38	0	1	0	0	1	0	0
Oberlin C.	420	47	0	ne	1	0	0	0	0	1
All other surveyed institutions	-	10,656	8,420	4,044	0	0	0	0	0	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified.

^a The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^b The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

^c Johns Hopkins University includes the Applied Physics Laboratory, with \$8,203 thousand in federally financed R&D expenditures in social sciences in FY 2023.

^d The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

^e The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 55

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
All institutions	-	13,702,435	14,291,856	15,662,918	17,468,446	8,119,690	8,713,379	9,759,899	10,931,327
Johns Hopkins U. ^a	1	1,205,632 i	1,237,980 i	1,324,646 i	1,493,689 i	1,154,993	1,183,154	1,264,048	1,436,413
Georgia Institute of Technology	2	695,176	839,071	935,632	1,061,402	537,693	666,235	739,429	847,360
Texas A&M U., College Station and Health Science Center	3	357,559	385,656	402,999	464,769	95,138	123,286	138,068	170,864
Pennsylvania State U., University Park and Hershey Medical Center	4	367,730	378,667	385,594	453,476	277,345	284,244	300,829	348,549
Massachusetts Institute of Technology	5	419,636	382,569	397,946	404,440	213,108	193,246	215,477	226,746
U. Texas, Austin	6	259,935	279,730	319,719	360,947	175,426	194,110	216,881	249,098
Purdue U., West Lafayette	7	280,592	285,469	312,394	360,289	122,469	137,052	163,895	188,696
Wichita State U.	8	134,848	157,430	226,111	336,096	46,023	64,692	88,257	136,780
U. Michigan, Ann Arbor	9	283,329	279,682	299,254	324,306	176,141	180,607	189,405	206,437
Utah State U.	10	226,616	247,332	259,482	308,386	206,998	228,986	239,736	280,768
SUNY, Polytechnic Institute	11	353,542	462,562	411,929	282,110	26,696	24,019	30,702	32,487
U. Illinois, Urbana-Champaign	12	203,564	216,233	228,786	272,650	131,529	139,887	144,390	176,925
Arizona State U.	13	155,015	145,574	192,681	265,026	80,121	73,746	85,208	98,381
Virginia Polytechnic Institute and State U.	14	263,711	246,965	260,158	261,707	107,677	108,080	114,336	128,941
Ohio State U.	15	175,109	163,509	219,388	242,745	85,038	88,435	103,560	113,636
U. California, Berkeley	16	209,293	199,711	206,541	209,311	79,645	78,026	93,638	92,895
U. Dayton	17	153,082	180,158	195,856	198,049	145,508	171,865	189,150	188,040
North Carolina State U.	18	174,740	172,900	171,162	196,594	94,592	91,430	88,636	100,328
U. Maryland ^b	19	153,109	154,163	164,304	183,899	86,398	95,898	104,247	112,818
U. Washington, Seattle	20	152,919	157,622	172,004	180,277	114,031	119,758	127,827	139,691
U. California, San Diego	21	182,495	177,564	212,583	176,720	97,602	100,212	129,923	114,380
U. Colorado Boulder	22	160,423	177,604	191,531	175,118	105,890	132,769	148,185	140,779
U. Wisconsin-Madison	23	133,600	131,709	148,673	171,445	73,412	75,104	85,549	93,870
U. Delaware	24	74,258	90,327	123,997	161,894	53,448	68,504	88,552	90,547
Stanford U.	25	130,950	136,251	142,213	158,868	81,391	89,861	89,919	100,033
Carnegie Mellon U.	26	102,955	112,597	138,117	155,436	56,175	63,083	84,680	95,826
U. Florida	27	119,066	122,704	134,339	150,126	62,573	72,191	79,991	84,288
Cornell U.	28	123,703	118,621	125,320	149,807	69,870	72,771	73,646	84,312
U. Minnesota, Twin Cities	29	120,929	121,637	131,042	145,670	74,167	78,808	84,060	92,997
Iowa State U.	30	109,473	123,428	132,475	140,782	62,369	62,113	66,024	73,907
New York U.	31	100,207	99,307	119,160	132,311	15,445	18,633	20,507	24,015
Rice U.	32	91,913	100,872	110,648	129,719	42,085	46,799	53,851	61,759
U. California, Davis	33	97,951	102,370	114,118	124,470	37,203	43,175	56,254	59,180
SUNY, U. Buffalo	34	112,843	100,194	109,870	123,383	61,140	66,790	67,985	83,743

TABLE 55

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Northeastern U.	35	89,954	92,723	92,855	119,529	66,614	69,550	72,409	96,495
U. Tennessee, Knoxville	36	128,542	128,579	115,464	116,222	66,562	66,556	70,892	70,876
U. California, Los Angeles	37	93,520	93,906	98,403	113,969	49,163	53,761	65,455	62,859
U. Notre Dame	38	84,478	90,572	103,773	113,853	41,771	42,501	50,651	57,913
U. Utah	39	57,608 i	48,225 i	111,749	113,129	34,915	29,330	99,830	93,722
U. Pennsylvania	40	82,299	88,937	106,282	112,740	44,542	49,526	54,427	56,036
U. Virginia, Charlottesville	41	72,602	62,271	65,604	112,702	41,454	37,143	42,481	65,008
Boston U.	42	85,651	79,757	91,643	111,856	53,265	48,537	54,675	62,597
U. California, Santa Barbara	43	87,681	86,303	97,329	111,017	43,340	44,958	67,267	77,243
Duke U.	44	95,657	94,483	102,748	109,885	73,605	74,308	80,356	85,594
Auburn U., Auburn	45	70,593	78,720	93,219	108,344	28,796	40,288	47,059	50,218
U. North Dakota	46	52,511	86,578	84,614	105,141	20,330	35,155	33,233	27,690
U. Arizona	47	79,463	72,158	84,682	103,771	34,459	34,360	42,072	49,493
Clemson U.	48	76,971	90,038	98,733	103,188	38,214	46,693	62,349	65,399
Columbia U. in the City of New York	49	72,758	75,457	87,884	100,161	62,020	64,962	73,487	80,040
Harvard U.	50	97,884	92,782	96,920	99,830	52,801	50,918	47,017	42,222
Northwestern U.	51	77,150	80,735	88,008	93,785	49,383	55,739	56,993	57,708
Woods Hole Oceanographic Institution	52	84,333	101,989	88,997 i	93,312	75,442	93,266	82,286 i	84,259
New Jersey Institute of Technology	53	85,445	82,240	83,738	90,849	53,702	50,822	48,863	53,008
Princeton U.	54	67,014	67,231	78,831	87,035	40,829	44,201	52,615	52,300
Michigan State U.	55	82,690	79,360	81,143	86,949	31,431	31,314	34,356	37,598
U. California, Irvine	56	59,695	65,454	75,898	84,902	27,421	29,315	40,869	45,509
U. Massachusetts, Amherst	57	58,804	60,065	67,776	82,841	28,635	32,063	35,204	41,770
U. Southern California	58	78,005	78,179	63,694	82,633	55,089	51,948	54,438	68,833
Vanderbilt U. and Vanderbilt U. Medical Center	59	94,674	86,541	78,534	82,313	52,373	43,570	52,364	53,911
U. Pittsburgh, Pittsburgh	60	53,586	56,681	65,936	82,238	36,623	37,749	43,571	54,013
Mississippi State U.	61	69,220	67,472	73,980	78,080	45,520	44,188	48,255	54,768
U. Nebraska, Lincoln and Medical Center ^c	62	na	na	na	76,802	na	na	na	37,913
New Mexico Institute of Mining and Technology	63	13,084	13,002	53,897	76,286	11,869	10,164	45,940	68,220
California Institute of Technology	64	51,693	51,630 i	51,975	73,871 i	26,324	24,011	25,812	41,780
U. Connecticut	65	46,751	54,185	68,902	72,672	30,450	37,988	42,418	46,010
U. Maine	66	37,127	46,986	68,261	72,340	18,038	27,452	44,010	46,933
Oregon State U.	67	50,900	52,731	58,552	71,532	35,946	38,914	44,377	55,520
U. Central Florida	68	59,627	57,620	59,060	68,340	34,825	36,318	37,217	41,638
U. Houston	69	55,210	56,555	64,026	67,684	24,929	26,599	28,251	31,432

TABLE 55

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Florida State U.	70	56,493	52,153	58,212	67,635	38,126	34,492	37,798	43,395
Montana State U., Bozeman	71	38,833	51,785	54,188	67,024	28,753	39,190	42,936	54,709
Rensselaer Polytechnic Institute	72	70,156	67,810	63,146	66,158	28,960	31,832	29,720	34,192
U. Texas, Arlington	73	59,395	58,154	61,467	64,548	22,163	23,581	28,177	26,470
Louisiana State U., Baton Rouge	74	40,084	39,104	53,974	63,779	10,268	11,014	12,249	15,748
U. Kentucky	75	46,976	52,361	61,287	62,529	26,818	33,001	38,078	37,882
U. South Florida ^d	76	37,162	50,547	50,859	62,025	18,073	26,183	27,554	34,863
Rutgers, State U. New Jersey, New Brunswick	77	55,880	51,289	57,490	61,910	40,629	35,691	35,877	40,402
Colorado School of Mines	78	46,694	54,062	60,371	61,175	33,432	37,909	42,745	39,767
George Mason U.	79	52,423	49,826	57,196	61,036	45,977	44,086	50,246	49,947
Case Western Reserve U.	80	37,911	39,079	41,783	59,900	27,954	30,483	31,686	43,497
U. Oklahoma, Norman and Health Science Center	81	36,643	39,785	44,727	58,746	15,069	15,235	20,850	30,388
U. Iowa	82	48,433	47,722	49,233	57,579	20,687	23,116	24,367	27,689
U. California, Santa Cruz	83	41,752	49,576	55,542	57,256	22,817	33,002	43,539	42,217
Florida International U.	84	39,826	41,740	48,549	56,199	21,747	23,801	31,994	37,670
U. Texas, Dallas	85	50,812	50,646	51,310	55,368	21,594	24,793	24,404	25,609
U. Alabama, Huntsville	86	51,198	55,510	53,958	55,164	42,499	44,780	43,390	42,694
U. Cincinnati	87	43,098	42,434	46,955	54,548	11,447	12,970	14,790	17,940
Michigan Technological U.	88	45,263	46,733	48,400	54,177	23,332	26,289	27,496	27,248
Texas Tech U.	89	42,856	41,962	46,952	53,564	14,399	15,359	18,858	27,046
Colorado State U., Fort Collins	90	42,839	41,575	47,833	52,539	30,860	30,424	36,428	39,358
U. Massachusetts, Lowell	91	35,847	36,339	44,358	51,877	14,870	18,884	26,414	25,882
Missouri U. of Science and Technology	92	36,447	43,470	43,119	51,351	16,411	21,797	24,061	27,984
U. New Mexico	93	42,739	41,317	45,191	51,318	34,153	33,001	37,091	42,513
U. Alabama, Tuscaloosa	94	33,019	43,941	49,885	51,029	19,679	25,859	30,544	32,570
Stevens Institute of Technology	95	33,103	33,983	43,702	50,295	23,906	26,766	34,630	36,535
West Virginia U.	96	40,786	39,855	43,972	50,052	15,930	18,042	21,919	23,114
U. North Carolina, Chapel Hill	97	30,774	30,935	39,242	49,721	17,813	19,983	22,510	24,138
U. Arkansas, Fayetteville	98	37,758	37,818	40,691	49,645	18,074	17,980	22,533	27,734
U. Chicago	99	24,468	30,018	41,866	47,857	20,168	25,909	35,751	40,732
Washington State U.	100	39,533	48,031	45,571	47,254	20,360	23,129	20,359	22,414
U. South Carolina, Columbia	101	37,747	36,222	35,508	47,155	13,921	16,470	21,003	27,685
U. Illinois, Chicago	102	31,496	35,675	39,656	46,820	17,537	21,610	24,287	29,282
SUNY, Binghamton U.	103	32,668	39,529	33,595	45,755	6,526	7,463	8,326	11,658
U. Texas, El Paso	104	25,172	26,599	40,798	45,627	11,812	15,602	26,326	28,605

TABLE 55

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Oklahoma State U., Stillwater	105	33,983	35,094	36,217	44,510	11,969	15,319	16,574	21,997
Drexel U.	106	31,230	32,665	38,649	44,002	19,772	20,821	27,063	31,364
Dartmouth C. and Dartmouth Hitchcock Medical Center	107	31,140	33,559	36,219	41,232	21,064	24,126	25,052	28,224
U. Nevada, Reno	108	23,939	27,769	32,454	41,198	9,664	11,419	11,896	14,595
New Mexico State U.	109	25,030	29,884	40,367	40,884	15,583	19,957	29,723	28,215
SUNY, Stony Brook U.	110	30,180	28,344	38,670	40,873	15,329	17,613	25,968	28,320
Yale U.	111	36,806	35,778	36,714	40,153	24,172	23,578	23,926	24,446
Worcester Polytechnic Institute	112	23,758	27,108	31,514	37,920	13,084	16,095	18,401	20,579
Air Force Institute of Technology	113	23,947	26,780	27,794	37,232	15,238	17,065	21,622	29,188
U. California, Riverside	114	31,937	34,888	32,758	36,650	17,034	18,541	21,080	23,236
U.S. Air Force Academy	115	29,812	29,132	33,169	36,441	29,812	28,914	32,709	35,804
U. Louisiana, Lafayette	116	27,878	30,295	32,259	35,532	3,557	6,909	9,736	10,734
Tufts U.	117	26,662	24,017	32,535	34,614	20,397	19,362	19,796	20,965
Washington U., Saint Louis	118	23,821	26,574	28,151	33,691	19,552	22,291	24,042	28,140
Mercer U.	119	37,450	40,439	38,452	33,284	29,625	31,923	29,959	26,989
Lehigh U.	120	24,054	25,835	28,948	32,406	16,205	16,976	19,098	21,706
Old Dominion U.	121	25,869	25,811	28,288	32,001	11,802	9,683	11,184	11,962
U. Alaska, Fairbanks	122	17,843	17,314	17,869	31,211	11,998	11,355	12,504	13,928
Kansas State U.	123	28,155	27,743	29,980	30,352	12,530	13,810	15,266	15,212
Virginia Commonwealth U.	124	29,811	32,233	30,518	29,609	11,779	9,924	9,441	8,436
U. New Hampshire	125	23,457	22,509	25,040	29,519	11,466	8,984	9,665	13,998
George Washington U.	126	22,682	22,749	23,736	29,442	15,091	15,052	13,339	14,653
U. Hawaii, Manoa	127	25,423	23,966	24,574	29,058	17,536	16,553	17,241	20,303
U. Alabama, Birmingham	128	53,030	46,844	30,637	28,505	44,243	43,477	22,205	15,320
Rochester Institute of Technology	129	20,910	20,874	22,869	28,126	7,965	10,659	10,560	11,359
Brown U.	130	23,965	23,587	29,569	27,640	17,138	15,963	18,304	20,340
U. Georgia	131	19,273	20,289	22,379	27,420	7,208	8,139	10,503	11,735
Naval Postgraduate School	132	22,933	24,254	21,556	27,413	20,145	20,798	13,920	21,980
U. North Texas, Denton	133	15,205	18,285	23,078	27,249	3,805	7,232	10,227	13,452
Brigham Young U., Provo	134	15,943	20,162	19,599	26,923	11,438	15,694	15,386	14,299
Emory U.	135	11,349	11,488	16,415	26,414	8,676	8,356	10,545	17,322
U. Kansas	136	19,830	21,363	22,075	25,610	13,829	12,206	13,244	15,825
U. Texas, San Antonio	137	22,922	21,499	24,403	25,584	5,961	7,346	10,333	11,142
Indiana U., Bloomington	138	14,373	13,012	12,030	25,104	6,314	5,752	7,149	18,033
North Dakota State U.	139	14,007	13,963	20,187	25,034	3,085	4,341	10,191	13,852

TABLE 55

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Syracuse U.	140	24,272	24,698	21,602	24,796	7,696	8,013	7,290	8,149
U. Louisville	141	18,105	20,965	23,630	24,702	9,077	11,844	14,712	15,122
U. Missouri, Columbia	142	53,343	56,685	78,494	24,365	16,905	15,905	17,346	16,700
U. North Carolina, Charlotte	143	19,781	15,643	15,096	23,417	8,853	9,381	8,783	9,789
U. Wyoming	144	20,317	24,675	28,379	23,084	4,640	7,391	17,026	9,991
U. Rochester	145	16,116	16,780	22,179	22,767	12,764	14,213	17,031	18,978
CUNY, City C.	146	23,140	34,710	36,189	21,627	15,704	18,078	19,125	17,700
U. California, Merced	147	15,191	13,854	11,997	21,052	5,760	4,627	5,007	7,349
North Carolina A&T State U.	148	10,393	11,616	18,186	20,925	8,664	9,071	10,157	14,059
Rowan U.	149	11,784	11,570	15,432	19,322	7,616	8,035	9,274	9,769
U. Vermont	150	11,209	11,914	11,621	18,270	4,853	5,537	5,794	9,208
Florida Atlantic U.	151	10,574	17,064	16,449	17,629	6,955	11,045	9,749	12,770
Boise State U.	152	13,956	14,918	14,758	17,088	8,245	9,596	11,149	14,082
U. Missouri, Kansas City	153	8,351	9,174	12,219	16,959	6,902	7,506	9,153	12,734
Ohio U.	154	16,291	16,645	17,216	16,193	4,454	5,340	5,209	4,985
San Diego State U.	155	7,934	10,715	14,193	16,138	3,851	4,553	5,143	6,656
South Dakota School of Mines and Technology	156	12,677	13,658	17,162	15,552	8,887	9,834	12,779	11,074
Louisiana Tech U.	157	11,459	11,257	11,673	15,078	4,582	4,117	3,120	4,122
Cleveland State U.	158	16,225	12,371	14,519	15,061	11,055	7,748	9,597	9,606
Oregon Health and Science U.	159	12,856	13,526	13,373	14,960	9,549	10,841	10,647	12,097
U. Rhode Island	160	10,182	10,766	11,931	14,637	6,939	7,962	9,997	11,545
U. Memphis	161	10,741	9,464	11,825	14,577	2,513	2,275	4,518	5,852
Clarkson U.	162	9,363	10,113	12,446	14,568	4,584	4,577	5,180	6,413
Western Michigan U. and Homer Stryker M.D. School of Medicine	163	5,091	8,058	9,515	14,491	1,580	4,194	3,994	4,884
U. Nevada, Las Vegas	164	12,729	10,667	12,665	13,866	4,946	4,037	5,031	6,771
Embry-Riddle Aeronautical U.	165	12,015	11,279	16,049	13,774	7,943	9,272	14,083	12,190
Wayne State U.	166	12,806	11,675	13,632	13,718	5,947	5,695	6,722	7,106
Illinois Institute of Technology	167	11,934	13,737	12,502	13,311	9,230	11,070	10,795	11,065
U. Idaho	168	17,035	12,944	13,720	13,229	8,376	6,705	7,063	6,244
Missouri State U.	169	10,257	7,024	8,630	12,633	10,096	6,872	8,396	11,680
Marquette U.	170	10,059	9,027	10,278	12,351	4,291	3,866	5,605	7,361
U. Massachusetts, Dartmouth	171	7,944	8,049	8,480	11,936	2,170	2,434	2,245	3,203
U. Mississippi	172	13,661	6,033	8,095	11,818	12,422	4,487	3,779	4,284
U. Toledo	173	10,023	10,299	11,957	11,520	5,921	7,574	8,517	7,048
Baylor U.	174	4,515	7,241	9,061	11,454	1,271	1,598	2,307	2,815

TABLE 55

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
California State U., Sacramento	175	7,744	5,986	8,253	11,433	3,150	2,687	3,718	7,114
Villanova U.	176	10,193	9,484	9,453	11,370	1,375	2,122	1,949	3,147
Howard U.	177	8,336	9,535	10,431	11,221	6,241	7,420	8,156	6,744
Texas State U.	178	6,892	9,321	9,722	11,165	746	1,537	2,429	3,577
U. Texas Rio Grande Valley	179	4,018	5,354	7,844	11,028	1,761	2,885	4,536	6,988
U. Tulsa	180	13,182	10,926	9,554	10,991	1,387	2,410	1,557	2,462
U. Southern Mississippi	181	5,999	5,963	7,380	10,921	1,823	1,970	2,661	5,330
Morgan State U.	182	7,228	8,031	8,375	10,725	4,847	5,001	5,514	5,962
U. Maryland, Baltimore County	183	6,671	6,668	8,140	10,631	4,651	4,657	4,079	4,065
Tennessee Technological U.	184	7,559	8,455	7,436	9,802	2,756	3,392	2,549	4,141
U. Wisconsin-Milwaukee	185	9,683	8,577	8,246	9,725	2,940	3,193	2,907	3,322
Florida A&M U.	186	4,796	5,222	5,752	9,530	4,492	4,852	5,427	8,959
Texas A&M U.-Corpus Christi	187	7,064	6,590	8,737	9,507	2,800	2,340	4,257	1,905
San Jose State U.	188	2,863	3,664	6,968	9,496	1,575	700	1,323	1,672
Indiana U.-Purdue U., Indianapolis	189	7,177	6,604	6,626	9,390	4,354	4,040	4,375	6,049
California Polytechnic State U., San Luis Obispo	190	4,646	5,522	8,472	9,181	1,338	2,636	5,436	4,584
Oakland U.	191	1,041	4,437	14,783	9,138	233	953	1,572	1,017
U. Akron	192	11,345	7,714	7,558	8,851	5,096	3,985	4,632	4,733
South Dakota State U.	193	5,490	7,161	8,977	8,819	2,674	3,854	4,783	3,850
Temple U.	194	9,294	8,279	8,898	8,815	4,758	4,734	4,494	4,482
Southern Methodist U.	195	9,798	9,972	7,313	8,535	5,103	3,590	2,769	2,612
U. Michigan, Dearborn	196	7,088	6,223	6,703	8,414	1,681	1,907	2,030	2,599
U. Miami	197	5,060	4,527	5,961	8,034	2,128	2,816	4,423	4,988
Medical C. Wisconsin	198	8,542	7,560	7,427	7,828	6,389	5,221	5,046	5,735
U.S. Military Academy	199	5,297	7,772	6,640	7,462	5,252	7,334	6,086	7,214
U. Puerto Rico, Mayaguez	200	16,903	11,397	8,482	7,401	9,428	8,136	7,325	6,545
U. Texas Medical Branch	201	1,192	1,259	1,643	7,397	276	425	555	507
U. South Alabama	202	3,640	5,085	6,231	7,228	2,624	3,209	4,296	5,784
Portland State U.	203	6,719	6,668	5,582	7,108	4,113	4,021	3,752	4,290
Tulane U.	204	6,881	6,662	6,823	6,779	4,050	4,016	3,801	4,041
Lamar U.	205	1,825	2,437	3,536	6,659	838	635	445	1,363
Southern Illinois U., Edwardsville	206	1,424	1,786	8,439	6,427	240	208	204	273
Montana Technological U.	207	4,331	5,834	4,473	6,151	3,161	4,639	3,779	5,051
California State Polytechnic U., Humboldt	208	4,261	5,564	6,779	5,920	153	208	197	6
Brandeis U.	209	1,048	2,221	5,264	5,918	0	824	147	0

TABLE 55

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Northern Arizona U.	210	4,996	6,497	4,194	5,880	3,649	4,910	2,709	3,505
U.S. Naval Academy	211	7,376	6,719	6,342	5,848	7,202	6,604	6,197	5,788
U. Oregon	212	0	0	4,656	5,844	0	0	3,729	5,004
Idaho State U.	213	5,014	4,411	4,752	5,435	2,491	2,022	2,430	2,640
Marshall U.	214	1,137	2,475	3,333	5,227	434	1,671	2,375	3,993
Texas A&M U.-Kingsville	215	2,653	4,622	4,044	5,130	1,830	2,923	2,819	3,690
Prairie View A&M U.	216	5,222	4,687	5,305	5,101	3,184	2,885	3,849	3,799
Florida Institute of Technology	217	5,362	5,891	5,100	5,021	3,305	2,903	2,818	3,306
Wright State U.	218	29,519	8,129	6,843	4,819	23,496	6,695	5,696	3,694
Northern Illinois U.	219	1,467	4,134	4,132	4,565	246	1,856	2,039	2,193
Miami U.	220	3,783	4,356	4,474	4,562	667	532	843	798
SUNY, U. Albany	220	3,319	3,133	4,266	4,562	1,039	1,393	1,355	1,412
U. Colorado Denver ^e	222	na	3,695	3,906	4,511	na	3,152	3,398	3,868
U. North Florida	223	2,433	2,119	2,472	4,313	304	316	258	208
Georgia Southern U.	224	1,929	4,052	3,302	4,200	301	804	468	978
U. Tennessee, Chattanooga	225	3,319	3,578	3,823	4,138	2,277	2,574	2,622	3,049
Alfred U.	226	2,720	2,654	3,458	4,076	887	933	991	1,909
U. Denver	227	4,461	3,558	3,632	3,612	2,109	1,037	1,180	1,353
New School	228	3,205	3,793	3,301	3,565	116	422	294	81
Kennesaw State U.	229	1,478	1,858	1,652	3,445	74	289	351	776
U. of the District of Columbia	230	1,388	3,134	5,725	3,342	1,388	3,134	5,725	3,314
Tuskegee U.	231	5,922	5,528	2,955	3,262	4,177	4,213	2,099	2,326
Catholic U. of America	232	3,518	3,926	3,076	3,217	2,925	2,680	2,099	2,405
Jackson State U.	233	1,468	2,236	2,512	3,214	1,262	1,817	1,905	2,669
Saint Louis U.	234	2,621	1,999	1,559	3,187	1,549	1,183	768	1,603
Southern Illinois U., Carbondale	235	2,333	3,120	2,308	3,183	180	606	587	865
California State U., Long Beach	236	4,733	4,574	3,671	3,160	2,533	2,942	2,181	1,897
Purdue U., Northwest	237	2,521	2,220	2,606	3,078	1,128	1,032	1,846	2,023
Tennessee State U.	238	2,922	1,768	1,278	3,026	2,584	1,755	1,265	2,781
Alabama A&M U.	239	1,603	1,787	1,925	3,018	1,078	1,500	1,861	2,462
East Carolina U.	240	3,053	3,069	2,737	3,013	366	1,376	2,178	1,796
U. Puerto Rico, Rio Piedras	241	341	1,152	4,135	2,930	270	1,152	3,900	2,580
Milwaukee School of Engineering	242	3,105	3,129	3,480	2,790	613	704	904	392
Santa Clara U.	243	948	1,588	1,741	2,617	393	814	1,061	1,849
Youngstown State U.	244	3,491	1,794	3,058	2,553	2,818	1,261	2,525	2,208

TABLE 55

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. New Orleans	245	2,282	1,897	2,134	2,509	250	204	341	640
Pittsburg State U.	246	1,659	2,250	2,309	2,461	50	314	600	1,088
Southern U. and A&M C., Baton Rouge	247	1,424	2,282	1,938	2,338	1,360	2,185	1,851	2,272
North Carolina Central U.	248	2,675	1,773	2,074	2,317	1,929	959	1,395	1,545
Franklin W. Olin C. of Engineering	249	491	936	2,380	2,312	255	636	805	641
SUNY, Cobleskill	250	ne	ne	1,211	2,301	ne	ne	379	469
Norfolk State U.	251	1,312	1,413	1,656	2,218	1,312	1,081	1,597	1,845
California State U., Northridge	252	1,115	1,216	2,621	2,209	926	1,069	2,377	1,911
California State U., Los Angeles	253	922	1,486	1,423	2,149	806	1,067	1,414	2,149
Morehead State U.	254	1,271	756	2,312	2,141	1,208	756	1,799	1,392
Virginia State U.	255	1,058	1,273	2,260	2,110	210	321	1,407	1,249
SUNY, C. of Environmental Science and Forestry	256	912	1,085	1,644	2,095	158	396	484	1,013
Bucknell U.	257	1,690	1,494	1,589	2,064	554	543	660	656
U. Arkansas, Little Rock	258	1,627	809	1,571	2,063	950	708	1,366	1,805
Chapman U.	259	102	348	539	2,041	43	8	82	228
San Francisco State U.	260	2,251	2,386	2,423	1,967	981	990	1,174	613
Kent State U.	261	2,743	3,732	1,847	1,904	1,278	830	553	574
Pennsylvania State U., Behrend	262	1,232	2,395	1,799	1,892	337	610	1,039	1,365
U. Alaska, Anchorage	263	1,101	1,674	1,957	1,878	644	869	1,074	885
U. Minnesota, Duluth	263	2,186	2,392	1,892	1,878	180	341	322	331
CUNY, Advanced Science Research Center	265	2,289	2,928	2,083	1,871	1,968	1,845	1,347	1,603
U. Nebraska, Omaha	266	1,195	1,051	1,510	1,782	859	545	988	1,021
California State Polytechnic U., Pomona	267	1,875	1,516	1,759	1,673	1,141	1,040	1,298	1,213
Wake Forest U.	268	859	1,204	1,427	1,499	208	544	804	937
California State U., Chico	269	1,120	1,236	1,192	1,465	613	768	636	990
California State U., Fresno	270	1,748	1,290	1,970	1,450	526	474	971	728
Benedict C.	271	248	ne	ne	1,428	237	ne	ne	815
Florida Polytechnic U.	272	689	829	1,310	1,404	159	312	493	530
California State U., Fullerton	273	616	661	1,062	1,355	534	530	639	622
Alcorn State U.	274	133	181	1,159	1,349	126	178	873	1,033
U. West Florida	275	277	709	450	1,322	196	265	14	647
U. North Carolina, Wilmington	276	640	1,064	537	1,317	335	297	182	265
U. Massachusetts, Boston	277	1,206	1,266	1,218	1,298	547	498	635	705
Albany State U.	278	3	14	ne	1,177	3	14	ne	936
Minnesota State U., Mankato	279	1,486	996	871	1,166	244	170	0	196

TABLE 55

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. South Dakota	280	1,385	1,429	1,447	1,153	440	731	859	653
U. of St. Thomas (MN)	281	976	3,212	862	1,145	19	565	285	367
U. Colorado Colorado Springs	282	1,367	902	1,883	1,144	877	488	1,134	762
California State U., San Bernardino	283	1,598	1,382	658	1,108	0	0	0	0
Oregon Institute of Technology	284	679 i	761 i	902 i	1,104 i	203	71 i	96 i	388 i
West Texas A&M U.	285	1,277	1,400	1,713	1,075	500	673	915	458
U. Hartford	286	1,002	963	752	1,067	605	585	694	986
U. Central Oklahoma	287	1 i	1 i	928 i	1,032 i	1 i	1 i	392 i	434 i
U. Oklahoma, Tulsa	288	1,816	1,289	1,368	1,026	1,066	421	662	339
U. Detroit Mercy	289	119	114	560	1,010	75	64	510	804
California State U., San Marcos	290	2,408	1,682	527	937	2,408	1,680	504	904
South Carolina State U.	291	514 i	652 i	787 i	924	420 i	464 i	506 i	549
Western Washington U.	292	989	587	560	884	475	230	227	421
Tarleton State U.	293	156	166	685	857	0	0	0	0
New York Institute of Technology	294	458	775	1,181	844	372	666	1,082	742
U. Colorado Anschutz Medical Campus ^e	295	na	1,204	957	842	na	1,189	730	707
Hampton U.	296	866	827	1,215	837	866	827	1,215	837
Lawrence Technological U.	297	806	555	726	816	227	141	382	545
U. Texas, Tyler	298	344	537	542	812	47	115	212	304
CUNY, New York City C. of Technology	299	367	103	50	806	353	93	33	782
U. of the Virgin Islands	300	902	832	790	790	834	809	790	790
Harvey Mudd C.	301	628	515	608	774	175	256	237	394
Western Illinois U.	302	79	780	1,983	717	71	780	1,983	717
California State U., Bakersfield	303	1,449	839	440	711	1,179	751	302	388
Western New England U.	304	ne	ne	1,464	686	ne	ne	395	344
Pace U.	305	516	706	529	684	464	626	529	649
U. Tennessee, Health Science Center	306	648	687	640	683	0	0	0	0
Utah Valley U.	307	ne	ne	310	668	ne	ne	180	435
Arkansas State U., Jonesboro	308	371	384	508	660	144	248	367	481
Hofstra U.	309	299	528	521	642	288	478	352	376
Fort Lewis C.	310	505	605	623	628	477	563	592	569
Western Kentucky U.	311	689	604	510	615	68	82	135	109
Robert Morris U.	312	ne	ne	555 i	612	ne	ne	448 i	492
U. San Diego	313	1,252	980	820	608	686	692	518	343
Boston C.	314	0	50	438	592	0	0	0	0

TABLE 55

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Liberty U.	315	838	208	ne	588	442	75	ne	15
C. Charleston	316	67	72	158	583	67	72	158	524
Lafayette C.	317	251	201	384	581	139	84	222	403
James Madison U.	318	305	174	808	576	186	54	161	209
Smith C.	319	952	688	599	567	725	571	426	421
Christopher Newport U.	320	566	656	437	541	566	656	437	541
Eastern Michigan U.	321	402	427	407	534	102	81	76	83
U. Washington, Bothell	322	0	304	387	530	0	304	387	343
Union C., Schenectady	323	204	722	446	519	81	595	359	272
Savannah State U.	324	639	588	609	502	639	588	609	502
Hope C.	325	175	277	430	493	138	232	374	412
Citadel Military C. South Carolina	326	34	250	363	491	13	136	222	416
U. Wisconsin-Green Bay	327	338 i	327 i	465 i	484 i	159 i	167 i	199 i	232 i
Manhattan C.	328	716	1,122	899	447	170	68	58	83
United Tribes Technical C.	329	ne	ne	ne	444	ne	ne	ne	410
Pennsylvania State U., Altoona	330	ne	ne	ne	425	ne	ne	ne	297
Delaware State U.	331	316 i	308	207	419	172 i	198	137	176
U. Texas of the Permian Basin	332	217	792	797	416	82	270	509	226
CUNY, system office	333	1,132	1,137	2,447	413	662	731	718	0
Montclair State U.	334	14	104	1,129	402	0	5	49	360
Western Carolina U.	335	371	305	363	395	291	237	134	65
Central Michigan U.	336	736	412	499	377	84	95	48	187
Swarthmore C.	337	367	174	215	338	0	50	51	1
U. Washington, Tacoma	338	59	319	250	328	59	314	250	231
U. Southern Maine	339	27	159	228	301	0	32	72	97
U. of the Incarnate Word	340	72	186	339	289	0	139	331	235
CUNY, C. Staten Island	341	294	274	0	288	249	235	0	286
Seattle U.	342	140	62	137	282	10	10	48	85
C. New Jersey	343	105	283	265	278	8	133	133	193
Coastal Carolina U.	344	0	68	175	275	0	68	159	194
Pennsylvania State U., Harrisburg	345	74	386	160	272	44	219	74	126
Appalachian State U.	346	0	0	237	266	0	0	42	0
Northwest Indian C.	347	164 i	196 i	227	243 i	164 i	196 i	227	243 i
Grand Valley State U.	348	236	118	117	239	0	0	0	0
Fairfield U.	349	117	109	ne	225	0	2	ne	34

TABLE 55

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Wisconsin-Platteville	350	145 i	171 i	204 i	223 i	67 i	80 i	99 i	106 i
Florida Gulf Coast U.	351	250	145	222	221	47	0	84	26
U. Central Arkansas	351	0	0	0	221	0	0	0	221
CUNY, Graduate Center	353	30	6	0	206	30	0	0	206
Roger Williams U.	354	30	32	221	202	0	17	44	117
Middle Tennessee State U.	355	182	592	889	196	76	100	288	141
Purdue U., Fort Wayne	356	443	465	169	192	194	125	92	17
Bowling Green State U.	357	121	57	80	189	0	35	42	114
Duquesne U.	358	374	102	66	187	146	0	21	52
U. Houston-Clear Lake	359	2	0	21	184	0	0	13	100
Texas A&M International U.	360	71	241	127	175	28	65	66	106
Central Connecticut State U.	361	120	100	185	172	94	71	143	108
U. Wisconsin-Oshkosh	362	152 i	158	294	157	74 i	73	252	142
California State U., East Bay	363	132	306	133	155	41	0	0	0
Central State U.	363	166	211	314	155	166	211	314	155
Lipscomb U.	365	188 i	203	ne	153	188 i	203	ne	94
Loyola U., Chicago	366	0	0	95	151	0	0	0	0
SUNY, Oswego	367	125	43	0	150	13	9	0	123
Dine C.	368	0	ne	0	147	0	ne	0	93
Virginia Military Institute	368	ne	ne	119	147	ne	ne	51	62
Fayetteville State U.	370	0	288	127	141 i	0	288	127	141 i
Southeastern Louisiana U.	371	4	16	24	140	3	8	6	49
Trinity U.	372	80	47	69	137	0	0	7	81
U. South Carolina, Beaufort	373	ne	ne	ne	135	ne	ne	ne	134
Xavier U. Louisiana	373	65	57	0	135	65	57	0	135
Calvin U.	375	84 i	107 i	129 i	134 i	33 i	34 i	33	64
U.S. Coast Guard Academy	376	ne	ne	ne	133	ne	ne	ne	0
Keck Graduate Institute	377	0 i	0 i	0	129	0 i	0 i	0	127
U. of the Pacific	378	89	228	135	128	89	228	135	21
U. South Carolina, Aiken	379	1,331	1,322	231	126	1,331	1,322	128	126
Norwich U.	380	ne	ne	ne	124	ne	ne	ne	112
U. New Haven	381	533	319	329	120	238	81	64	23
Clark Atlanta U.	382	158	36	41	114	0	11	41	114
Texas A&M U.-Commerce	383	48	64	48	113	0	0	0	0
Marymount U.	384	ne	0	3	111	ne	0	0	50

TABLE 55

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Sam Houston State U.	385	20	36	253	109	0	0	167	80
Nova Southeastern U.	386	0	0	0	108	0	0	0	0
DePaul U.	387	0	0	76	106	0	0	76	106
Texas Christian U.	388	46	36	88	95	8	8	84	59
U. Alaska, Southeast	389	30	4	0	92	30	0	0	21
East Tennessee State U.	390	65 i	138 i	27 i	87	52	101	0	0
Dillard U.	391	0	0	7	85	0	0	7	85
U. Wisconsin-Stevens Point	392	60	241	111	82	47	132	0	61
U. Houston-Downtown	393	36	189	71	79	28	189	71	79
Texas Southern U.	394	104	27	24	75	76	27	7	69
Bentley U.	395	ne	ne	0	72	ne	ne	0	72
Eastern Washington U.	396	0	0	0	71	0	0	0	71
Trinity C., Hartford	396	49	45	42	71	13	1	13	2
Eastern Kentucky U.	398	58	58	ne	69	52	56	ne	69
Sonoma State U.	399	1	1	17	67	0	0	0	43
Claflin U.	400	170	65	63	63	170	65	63	63
U. Maryland, Eastern Shore	400	128	144	59	63	125	125	59	63
Indiana State U.	402	4	2	87	59	0	0	70	34
Central Washington U.	403	61	72	32	56	34	45	25	39
St. Cloud State U.	404	71	31	30	54	0	0	0	0
West Chester U. Pennsylvania	405	0	0	0	51	0	0	0	0
Wellesley C.	406	633	345	395	50	633	345	395	50
Andrews U.	407	41	50	ne	48	37	50	ne	42
Troy U.	408	0	0	56	47	0	0	56	47
Lake Superior State U.	409	ne	ne	41	43	ne	ne	0	25
U. Wisconsin-River Falls	410	103	18	ne	42	65	18	ne	27
U. Missouri, Saint Louis	411	0	0	0	38	0	0	0	0
Texas A&M U.-San Antonio	412	ne	ne	104	34	ne	ne	0	0
Thomas Jefferson U.	413	143	55	77	33	59	55	77	33
Ball State U.	414	0	0	0	32	0	0	0	0
New C. Florida	414	ne	ne	ne	32	ne	ne	ne	0
Elon U.	416	45	29	18	30	25	13	0	0
California State U., Dominguez Hills	417	0	0	0	27	0	0	0	0
California State U., Monterey Bay	418	0	0	0	23	0	0	0	0
Azusa Pacific U.	419	31	5	10	21	0	0	0	7

TABLE 55

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Merrimack C.	420	78	ne	ne	16	78	ne	ne	11
Abilene Christian U.	421	ne	45	29	15	ne	45	29	15
Alabama State U.	422	533	366	483	14	533	73	267	14
St. Mary's C. Maryland	423	ne	ne	ne	13	ne	ne	ne	13
Austin Peay State U.	424	0	0	0	9	0	0	0	8
Northwestern State U. Louisiana	424	5	0	8	9 i	0	0	0	0 i
Colorado State U., Pueblo	426	210	64	0	8	47	51	0	0
U. San Francisco	427	6	3	3	4	0	0	0	0
U. Scranton	427	ne	ne	ne	4	ne	ne	ne	0
Salisbury U.	429	0	3	3	3	0	0	0	0
Tougaloo C.	430	0	0 i	0 i	2 i	0	0 i	0 i	0 i
U. North Carolina, Asheville	430	1	0	0	2	0	0	0	2
Carleton C.	432	0	0	0	1 i	0	0	0	1 i
Kean U.	432	0	0	32	1	0	0	0	0
All other surveyed institutions	-	77,056	69,804	71,197	0	37,538	31,054	32,859	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

^a Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$1,353,057 thousand imputed for total and \$1,317,890 thousand reported for federally financed R&D expenditures in engineering in FY 2023. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^c The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

^d The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

^e The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 56

Higher education R&D expenditures in engineering subfields, ranked by all FY 2023 engineering R&D: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2023												
		2021	2022	All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec	
All institutions	-	14,291,856	15,662,918	17,468,446	1,913,964	1,885,216	1,246,882	1,900,543	3,838,675	707,239	2,324,946	1,039,160	2,611,821	
Johns Hopkins U. ^a	1	1,237,980	1,324,646	1,493,689	196,236	90,639	26,307	20,189	624,367	117,095	268,430	46,404	104,022	
Georgia Institute of Technology	2	839,071	935,632	1,061,402	293,933	52,485	39,321	26,804	478,588	62,576	69,148	20,933	17,614	
Texas A&M U., College Station and Health Science Center	3	385,656	402,999	464,769	52,758	39,121	17,780	113,367	36,668	15,720	47,335	11,991	130,029	
Pennsylvania State U., University Park and Hershey Medical Center	4	378,667	385,594	453,476	26,041	20,050	17,388	18,300	151,174	12,076	150,058	58,389	0	
Massachusetts Institute of Technology	5	382,569	397,946	404,440	36,381	108,026	58,369	14,034	42,244	1,521	52,284	29,447	62,134	
U. Texas, Austin	6	279,730	319,719	360,947	18,046	10,980	47,864	45,300	90,376	38	82,731	26,976	38,636	
Purdue U., West Lafayette	7	285,469	312,394	360,289	51,009	23,171	28,284	35,051	65,385	9,143	63,398	17,434	67,414	
Wichita State U.	8	157,430	226,111	336,096	327,203	178	0	0	1,840	663	914	0	5,298	
U. Michigan, Ann Arbor	9	279,682	299,254	324,306	17,064	28,393	18,366	22,870	83,421	5,428	56,952	15,532	76,280	
Utah State U.	10	247,332	259,482	308,386	271,805	2,021	0	13,791	16,790	0	2,927	0	1,052	
SUNY, Polytechnic Institute	11	462,562	411,929	282,110	0	0	0	72	8	0	27	0	282,003	
U. Illinois, Urbana-Champaign	12	216,233	228,786	272,650	17,051	19,103	25,698	35,959	53,289	0	34,031	25,514	62,005	
Arizona State U.	13	145,574	192,681	265,026	37	18,195	7,691	46,179	59,934	21,606	10,765	5,974	94,645	
Virginia Polytechnic Institute and State U.	14	246,965	260,158	261,707	23,321	33,666	6,407	36,974	61,525	35,838	25,011	11,824	27,141	
Ohio State U.	15	163,509	219,388	242,745	1,365	6,447	12,511	14,397	35,576	21,017	98,566	22,674	30,192	
U. California, Berkeley	16	199,711	206,541	209,311	0	160	8,524	32,095	122,840	44	312	0	45,336	
U. Dayton	17	180,158	195,856	198,049	21,210	520	4,477	90	7,328	56,775	26,803	75,257	5,589	
North Carolina State U.	18	172,900	171,162	196,594	3,565	18,177	44,413	20,197	35,280	11,223	15,037	25,577	23,125	
U. Maryland ^b	19	154,163	164,304	183,899	15,082	25,680	13,236	44,082	10,832	477	24,536	12,001	37,973	
U. Washington, Seattle	20	157,622	172,004	180,277	10,606	35,227	8,833	17,592	42,715	2,452	20,960	7,154	34,738	
U. California, San Diego	21	177,564	212,583	176,720	0	26,273	0	9,627	80,563	0	23,530	28,094	8,633	
U. Colorado Boulder	22	177,604	191,531	175,118	90,146	13,254	11,811	18,504	15,903	0	16,876	2,156	6,468	
U. Wisconsin-Madison	23	131,709	148,673	171,445	0	16,300	18,535	16,818	24,312	6,560	23,196	13,459	52,265	
U. Delaware	24	90,327	123,997	161,894	0	11,485	91,873	18,223	17,655	0	14,089	0	8,569	
Stanford U.	25	136,251	142,213	158,868	17,318	36,591	18,629	13,823	25,789	7,259	26,550	11,489	1,420	
Carnegie Mellon U.	26	112,597	138,117	155,436	1,641	21,985	11,084	9,056	34,323	7,881	41,348	10,841	17,277	
U. Florida	27	122,704	134,339	150,126	4,865	30,527	7,371	35,567	37,538	2,636	18,297	10,375	2,950	
Cornell U.	28	118,621	125,320	149,807	3,760	24,099	20,122	11,875	31,490	5,070	20,194	23,686	9,511	
U. Minnesota, Twin Cities	29	121,637	131,042	145,670	10,609	41,585	22,038	16,899	19,941	919	26,896	6,783	0	
Iowa State U.	30	123,428	132,475	140,782	8,468	16,261	10,826	26,330	10,967	0	7,433	9,806	50,691	

TABLE 56

Higher education R&D expenditures in engineering subfields, ranked by all FY 2023 engineering R&D: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
New York U.	31	99,307	119,160	132,311	0	123	3,530	1,272	18,588	0	2,192	0	106,606
Rice U.	32	100,872	110,648	129,719	10	53,640	12,796	13,484	31,905	1	6,666	8,076	3,141
U. California, Davis	33	102,370	114,118	124,470	0	31,521	102	52,033	16,563	0	15,415	0	8,836
SUNY, U. Buffalo	34	100,194	109,870	123,383	11,091	18,601	17,346	11,452	4,789	9,439	31,671	5,009	13,985
Northeastern U.	35	92,723	92,855	119,529	0	9,620	6,195	14,016	46,466	10,440	27,037	0	5,755
U. Tennessee, Knoxville	36	128,579	115,464	116,222	28,899	1,720	7,406	12,896	19,337	5,183	0	10,699	30,082
U. California, Los Angeles	37	93,906	98,403	113,969	0	8,500	8,876	11,538	33,792	0	18,645	7,454	25,164
U. Notre Dame	38	90,572	103,773	113,853	49,774	0	20,386	17,933	24,428	0	0	24	1,308
U. Utah	39	48,225	111,749	113,129	0	5,103	6,491	43,039	38,983	0	13,090	4,744	1,679
U. Pennsylvania	40	88,937	106,282	112,740	0	34,022	11,657	15	25,931	0	19,885	0	21,230
U. Virginia, Charlottesville	41	62,271	65,604	112,702	0	27,189	8,245	1,500	13,485	377	11,231	13,897	36,778
Boston U.	42	79,757	91,643	111,856	2,425	47,983	8	0	20,187	8,685	14,764	1,371	16,433
U. California, Santa Barbara	43	86,303	97,329	111,017	0	19,371	8,094	2,346	55,175	0	7,850	17,588	593
Duke U.	44	94,483	102,748	109,885	0	49,428	0	10,221	36,043	0	12,099	1,972	122
Auburn U., Auburn	45	78,720	93,219	108,344	5,318	6,766	8,194	19,353	9,922	12,639	19,611	1,579	24,962
U. North Dakota	46	86,578	84,614	105,141	0	0	2,391	63,086	4,742	0	2,990	1,095	30,837
U. Arizona	47	72,158	84,682	103,771	3,375	11,669	6,213	5,774	48,129	6,558	4,071	10,373	7,609
Clemson U.	48	90,038	98,733	103,188	0	14,120	4,482	14,650	13,148	5,156	32,064	12,960	6,608
Columbia U. in the City of New York	49	75,457	87,884	100,161	2,176	29,963	12,909	3,113	8,862	1,516	3,398	0	38,224
Harvard U.	50	92,782	96,920	99,830	18,072	47,731	1,410	7,420	5,245	0	538	17,947	1,467
Northwestern U.	51	80,735	88,008	93,785	0	20,128	12,688	7,457	8,452	3,127	8,038	18,076	15,819
Woods Hole Oceanographic Institution	52	101,989	88,997	93,312	9,402	0	0	11,228	47,578	0	25,104	0	0
New Jersey Institute of Technology	53	82,240	83,738	90,849	0	9,313	10,493	43,312	5,438	0	4,236	36	18,021
Princeton U.	54	67,231	78,831	87,035	5,518	9,028	7,873	8,067	33,261	4,672	6,763	0	11,853
Michigan State U.	55	79,360	81,143	86,949	0	20,130	11,789	12,213	19,086	0	11,332	0	12,399
U. California, Irvine	56	65,454	75,898	84,902	0	16,739	7,564	11,092	15,240	0	19,186	12,257	2,824
U. Massachusetts, Amherst	57	60,065	67,776	82,841	0	6,661	25,274	22,301	17,521	0	9,260	0	1,824
U. Southern California	58	78,179	63,694	82,633	5,907	12,259	9,113	4,712	41,441	3,154	0	0	6,047
Vanderbilt U. and Vanderbilt U. Medical Center	59	86,541	78,534	82,313	0	22,112	11,463	14,894	21,386	0	10,189	0	2,269
U. Pittsburgh, Pittsburgh	60	56,681	65,936	82,238	0	26,133	11,107	6,891	11,750	3,126	19,172	0	4,059
Mississippi State U.	61	67,472	73,980	78,080	16,991	1,359	6,346	3,340	10,045	6,398	7,474	1,355	24,772
U. Nebraska, Lincoln and Medical Center ^c	62	na	na	76,802	0	14,931	3,547	21,043	21,855	302	4,775	5,320	5,029

TABLE 56

Higher education R&D expenditures in engineering subfields, ranked by all FY 2023 engineering R&D: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
New Mexico Institute of Mining and Technology	63	13,002	53,897	76,286	519	2,809	494	0	338	0	2,236	768	69,122
California Institute of Technology	64	51,630	51,975	73,871	7,631	6,287	6,982	8,777	6,180	0	3,291	26,713	8,010
U. Connecticut	65	54,185	68,902	72,672	0	8,183	8,655	20,006	9,486	0	9,826	15,821	695
U. Maine	66	46,986	68,261	72,340	18	214	9,425	2,150	3,397	1,522	1,916	52,147	1,551
Oregon State U.	67	52,731	58,552	71,532	0	2,758	3,477	16,996	19,058	6,277	7,066	959	14,941
U. Central Florida	68	57,620	59,060	68,340	15,473	115	0	9,617	9,468	2,939	15,156	3,254	12,318
U. Houston	69	56,555	64,026	67,684	1,387	13,035	14,593	9,358	12,308	621	7,815	1,669	6,898
Florida State U.	70	52,153	58,212	67,635	3,205	1,015	3,805	7,567	18,969	6,107	23,584	2,047	1,336
Montana State U., Bozeman	71	51,785	54,188	67,024	0	8,077	1,985	6,256	5,800	86	9,559	0	35,261
Rensselaer Polytechnic Institute	72	67,810	63,146	66,158	0	10,734	11,281	2,688	14,000	394	17,833	6,286	2,942
U. Texas, Arlington	73	58,154	61,467	64,548	6,018	5,150	0	15,294	6,992	13,192	6,018	0	11,884
Louisiana State U., Baton Rouge	74	39,104	53,974	63,779	0	0	10,943	16,332	7,152	3,682	6,670	5,127	13,873
U. Kentucky	75	52,361	61,287	62,529	0	2,820	2,943	13,599	3,093	1,805	6,512	3,136	28,621
U. South Florida	76	50,547	50,859	62,025	663	8,426	2,820	22,563	15,247	2,027	5,021	0	5,258
Rutgers, State U. New Jersey, New Brunswick	77	51,289	57,490	61,910	0	4,636	6,408	3,586	6,505	986	6,697	3,294	29,798
Colorado School of Mines	78	54,062	60,371	61,175	1,994	2,332	3,795	8,848	849	2,701	5,568	15,259	19,829
George Mason U.	79	49,826	57,196	61,036	0	7,510	0	5,318	23,457	21,568	2,135	769	279
Case Western Reserve U.	80	39,079	41,783	59,900	0	22,609	6,554	1,379	4,190	0	8,055	10,069	7,044
U. Oklahoma, Norman and Health Science Center	81	39,785	44,727	58,746	9,461	5,412	6,805	8,683	19,470	2,116	0	0	6,799
U. Iowa	82	47,722	49,233	57,579	0	2,706	1,359	26,022	2,085	617	1,607	0	23,183
U. California, Santa Cruz	83	49,576	55,542	57,256	0	1,148	0	0	7,606	0	0	0	48,502
Florida International U.	84	41,740	48,549	56,199	0	5,887	0	17,998	15,955	869	10,213	525	4,752
U. Texas, Dallas	85	50,646	51,310	55,368	0	13,817	0	0	14,774	1,049	10,802	7,853	7,073
U. Alabama, Huntsville	86	55,510	53,958	55,164	32,825	294	1,969	3,124	6,790	4,833	3,772	670	887
U. Cincinnati	87	42,434	46,955	54,548	8,080	5,463	5,381	9,401	9,003	0	12,304	0	4,916
Michigan Technological U.	88	46,733	48,400	54,177	0	3,692	5,117	5,331	7,297	0	23,542	3,576	5,622
Texas Tech U.	89	41,962	46,952	53,564	0	0	14,469	9,353	11,402	3,189	8,879	0	6,272
Colorado State U., Fort Collins	90	41,575	47,833	52,539	0	650	3,983	17,022	11,300	1,292	14,127	0	4,165
U. Massachusetts, Lowell	91	36,339	44,358	51,877	0	4,712	15,907	3,016	7,516	0	11,665	0	9,061
Missouri U. of Science and Technology	92	43,470	43,119	51,351	1,851	112	1,656	8,073	7,964	2,507	5,443	22,501	1,244
U. New Mexico	93	41,317	45,191	51,318	8,544	649	4,246	12,731	12,775	911	1,819	319	9,324
U. Alabama, Tuscaloosa	94	43,941	49,885	51,029	4,665	0	6,647	15,198	10,299	0	7,056	6,473	691

TABLE 56

Higher education R&D expenditures in engineering subfields, ranked by all FY 2023 engineering R&D: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Stevens Institute of Technology	95	33,983	43,702	50,295	0	2,408	1,335	6,971	6,055	20,987	4,764	0	7,775
West Virginia U.	96	39,855	43,972	50,052	2,721	0	8,506	6,496	8,838	3,914	6,791	8,109	4,677
U. North Carolina, Chapel Hill	97	30,935	39,242	49,721	1,998	17,947	0	27,603	0	2,173	0	0	0
U. Arkansas, Fayetteville	98	37,818	40,691	49,645	29	8,388	4,781	10,100	13,619	3,911	4,066	0	4,751
U. Chicago	99	30,018	41,866	47,857	0	0	0	0	0	0	0	0	47,857
Washington State U.	100	48,031	45,571	47,254	245	4,926	5,505	7,327	9,671	172	6,476	3,278	9,654
U. South Carolina, Columbia	101	36,222	35,508	47,155	0	0	7,701	4,648	10,154	0	13,347	0	11,305
U. Illinois, Chicago	102	35,675	39,656	46,820	0	17,086	3,859	4,101	7,528	0	13,758	264	224
SUNY, Binghamton U.	103	39,529	33,595	45,755	0	4,097	0	0	6,918	23,305	9,899	0	1,536
U. Texas, El Paso	104	26,599	40,798	45,627	184	1,031	200	5,675	7,608	2,466	22,981	3,125	2,357
Oklahoma State U., Stillwater	105	35,094	36,217	44,510	11,638	0	6,694	5,994	5,498	2,105	2,732	1,273	8,576
Drexel U.	106	32,665	38,649	44,002	0	9,799	4,654	4,847	3,911	0	9,301	9,123	2,367
Dartmouth C. and Dartmouth Hitchcock Medical Center	107	33,559	36,219	41,232	48	15,399	4,400	1,493	8,349	25	7,025	0	4,493
U. Nevada, Reno	108	27,769	32,454	41,198	2,603	2,703	7,448	8,651	597	10	10,168	3,723	5,295
New Mexico State U.	109	29,884	40,367	40,884	7,811	6	1,939	6,422	13,129	96	2,369	132	8,980
SUNY, Stony Brook U.	110	28,344	38,670	40,873	0	9,773	0	2,899	13,887	0	1,817	10,362	2,135
Yale U.	111	35,778	36,714	40,153	0	11,512	8,232	0	8,920	0	8,711	0	2,778
Worcester Polytechnic Institute	112	27,108	31,514	37,920	1,864	3,006	4,180	787	4,292	0	20,941	684	2,166
Air Force Institute of Technology	113	26,780	27,794	37,232	6,773	0	0	2,003	7,186	17,943	0	2,748	579
U. California, Riverside	114	34,888	32,758	36,650	0	2,688	7,856	10,529	9,505	0	4,679	130	1,263
U.S. Air Force Academy	115	29,132	33,169	36,441	4,963	231	203	0	242	73	74	30,509	146
U. Louisiana, Lafayette	116	30,295	32,259	35,532	0	0	8,262	6,293	4,010	0	10,991	5,205	771
Tufts U.	117	24,017	32,535	34,614	337	16,668	2,838	4,289	4,047	0	2,802	0	3,633
Washington U., Saint Louis	118	26,574	28,151	33,691	0	13,042	7,269	70	7,186	0	0	5,644	480
Mercer U.	119	40,439	38,452	33,284	10,968	0	0	4	2,213	0	9,864	9,545	690
Lehigh U.	120	25,835	28,948	32,406	0	3,695	3,968	5,778	2,162	2,402	6,790	7,598	13
Old Dominion U.	121	25,811	28,288	32,001	1,264	0	0	1,438	10,247	16,795	2,257	0	0
U. Alaska, Fairbanks	122	17,314	17,869	31,211	7,457	0	0	5,923	13,061	0	46	462	4,262
Kansas State U.	123	27,743	29,980	30,352	1,378	0	2,904	5,749	4,655	1,367	5,879	0	8,420
Virginia Commonwealth U.	124	32,233	30,518	29,609	0	5,780	4,776	0	5,874	0	6,613	0	6,566
U. New Hampshire	125	22,509	25,040	29,519	0	0	2,741	7,964	9,641	0	4,688	0	4,485
George Washington U.	126	22,749	23,736	29,442	2,293	4,917	0	3,750	7,335	3,954	3,297	156	3,740

TABLE 56

Higher education R&D expenditures in engineering subfields, ranked by all FY 2023 engineering R&D: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
U. Hawaii, Manoa	127	23,966	24,574	29,058	0	1,004	0	5,055	11,262	0	3,220	0	8,517
U. Alabama, Birmingham	128	46,844	30,637	28,505	6,089	10,224	103	2,010	1,917	0	6,943	0	1,219
Rochester Institute of Technology	129	20,874	22,869	28,126	0	2,960	1,109	108	7,463	2,935	2,162	0	11,389
Brown U.	130	23,587	29,569	27,640	0	8,838	3,114	0	3,160	0	3,729	3,674	5,125
U. Georgia	131	20,289	22,379	27,420	0	2,048	7,545	12,416	4,262	0	0	0	1,149
Naval Postgraduate School	132	24,254	21,556	27,413	5,888	1,268	0	354	5,448	666	5,614	2,518	5,657
U. North Texas, Denton	133	18,285	23,078	27,249	0	4,086	0	0	3,540	0	3,584	15,464	575
Brigham Young U., Provo	134	20,162	19,599	26,923	0	0	4,755	4,345	8,018	1,352	8,425	0	28
Emory U.	135	11,488	16,415	26,414	0	26,414	0	0	0	0	0	0	0
U. Kansas	136	21,363	22,075	25,610	2,517	0	8,878	9,349	2,231	0	2,128	0	507
U. Texas, San Antonio	137	21,499	24,403	25,584	0	4,037	0	6,896	3,896	1,353	3,918	0	5,484
Indiana U., Bloomington	138	13,012	12,030	25,104	0	11,665	0	0	13,439	0	0	0	0
North Dakota State U.	139	13,963	20,187	25,034	710	0	111	10,524	1,985	1,397	3,003	243	7,061
Syracuse U.	140	24,698	21,602	24,796	11	5,098	82	2,877	8,560	0	7,052	0	1,116
U. Louisville	141	20,965	23,630	24,702	8	6,647	1,921	1,868	5,693	1,617	2,919	24	4,005
U. Missouri, Columbia	142	56,685	78,494	24,365	0	2,417	902	4,784	8,281	410	4,550	467	2,554
U. North Carolina, Charlotte	143	15,643	15,096	23,417	0	0	0	3,156	5,045	1,282	4,406	0	9,528
U. Wyoming	144	24,675	28,379	23,084	97	803	10,741	3,624	1,402	0	1,381	395	4,641
U. Rochester	145	16,780	22,179	22,767	0	6,882	1,409	0	6,847	0	6,732	0	897
CUNY, City C.	146	34,710	36,189	21,627	0	5,613	2,608	3,277	7,435	0	2,381	0	313
U. California, Merced	147	13,854	11,997	21,052	0	2,450	138	325	0	0	4,288	1,968	11,883
North Carolina A&T State U.	148	11,616	18,186	20,925	0	1,083	28	2,297	5,181	1,590	3,067	0	7,679
Rowan U.	149	11,570	15,432	19,322	0	3,424	4,462	7,822	1,070	0	687	0	1,857
U. Vermont	150	11,914	11,621	18,270	2,512	0	0	5,611	1,946	0	2,765	0	5,436
Florida Atlantic U.	151	17,064	16,449	17,629	156	0	224	2,663	35	0	0	0	14,551
Boise State U.	152	14,918	14,758	17,088	30	6,741	967	750	2,375	257	1,235	3,686	1,047
U. Missouri, Kansas City	153	9,174	12,219	16,959	312	34	29	1,312	14,189	111	734	0	238
Ohio U.	154	16,645	17,216	16,193	3,555	0	4,322	2,827	624	7	574	281	4,003
San Diego State U.	155	10,715	14,193	16,138	1,698	47	0	4,589	3,992	0	5,518	0	294
South Dakota School of Mines and Technology	156	13,658	17,162	15,552	0	1,497	5,091	1,126	355	49	806	4,347	2,281
Louisiana Tech U.	157	11,257	11,673	15,078	0	3,052	2,790	3,028	884	479	4,845	0	0
Cleveland State U.	158	12,371	14,519	15,061	0	8,152	1,448	467	2,019	0	2,749	0	226

TABLE 56

Higher education R&D expenditures in engineering subfields, ranked by all FY 2023 engineering R&D: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Oregon Health and Science U.	159	13,526	13,373	14,960	0	14,960	0	0	0	0	0	0	0
U. Rhode Island	160	10,766	11,931	14,637	0	674	1,907	1,624	2,417	0	3,772	17	4,226
U. Memphis	161	9,464	11,825	14,577	242	3,061	0	5,839	2,264	41	1,924	0	1,206
Clarkson U.	162	10,113	12,446	14,568	31	55	2,051	4,044	4,291	0	3,584	74	438
Western Michigan U. and Homer Stryker M.D. School of Medicine	163	8,058	9,515	14,491	787	905	7,067	951	703	244	2,437	207	1,190
U. Nevada, Las Vegas	164	10,667	12,665	13,866	0	64	0	4,674	2,605	0	4,754	0	1,769
Embry-Riddle Aeronautical U.	165	11,279	16,049	13,774	12,932	0	0	255	0	0	538	0	49
Wayne State U.	166	11,675	13,632	13,718	0	1,922	2,254	3,174	2,862	1,309	738	0	1,459
Illinois Institute of Technology	167	13,737	12,502	13,311	1,115	4,526	1,051	1,269	3,660	64	618	75	933
U. Idaho	168	12,944	13,720	13,229	1,580	1,281	749	1,418	980	71	1,691	255	5,204
Missouri State U.	169	7,024	8,630	12,633	0	0	0	0	0	0	0	12,633	0
Marquette U.	170	9,027	10,278	12,351	0	3,711	0	2,444	2,098	0	3,251	0	847
U. Massachusetts, Dartmouth	171	8,049	8,480	11,936	0	1,183	0	2,686	4,349	0	3,266	0	452
U. Mississippi	172	6,033	8,095	11,818	46	2,475	2,340	3,286	994	0	1,586	751	340
U. Toledo	173	10,299	11,957	11,520	293	1,019	2,210	1,557	2,292	0	3,983	0	166
Baylor U.	174	7,241	9,061	11,454	2,280	224	0	23	3,510	0	4,882	0	535
California State U., Sacramento	175	5,986	8,253	11,433	0	0	0	11,036	248	0	149	0	0
Villanova U.	176	9,484	9,453	11,370	0	0	1,255	3,820	1,979	0	2,253	0	2,063
Howard U.	177	9,535	10,431	11,221	0	0	1,146	2,264	5,030	0	1,204	0	1,577
Texas State U.	178	9,321	9,722	11,165	472	168	0	853	1,081	0	163	2,148	6,280
U. Texas Rio Grande Valley	179	5,354	7,844	11,028	29	289	5	774	1,235	2,107	3,778	317	2,494
U. Tulsa	180	10,926	9,554	10,991	0	0	1,018	0	867	0	2,774	0	6,332
U. Southern Mississippi	181	5,963	7,380	10,921	0	0	0	30	0	0	0	0	10,891
Morgan State U.	182	8,031	8,375	10,725	183	0	0	3,260	4,242	203	31	0	2,806
U. Maryland, Baltimore County	183	6,668	8,140	10,631	486	2,479	482	977	2,784	240	2,455	82	646
Tennessee Technological U.	184	8,455	7,436	9,802	0	0	505	1,698	2,147	365	4,595	0	492
U. Wisconsin-Milwaukee	185	8,577	8,246	9,725	0	494	0	1,928	2,440	253	2,212	1,270	1,128
Florida A&M U.	186	5,222	5,752	9,530	0	0	2,864	1,100	1,616	1,303	1,317	0	1,330
Texas A&M U.-Corpus Christi	187	6,590	8,737	9,507	7,493	95	0	581	203	1	611	0	523
San Jose State U.	188	3,664	6,968	9,496	14	1,117	859	620	2,160	591	1,397	0	2,738
Indiana U.-Purdue U., Indianapolis	189	6,604	6,626	9,390	0	2,099	0	60	2,422	0	3,806	0	1,003

TABLE 56

Higher education R&D expenditures in engineering subfields, ranked by all FY 2023 engineering R&D: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
California Polytechnic State U., San Luis Obispo	190	5,522	8,472	9,181	3,288	1,051	0	1,689	67	15	872	7	2,192
Oakland U.	191	4,437	14,783	9,138	0	0	0	0	2,003	1,261	3,172	0	2,702
U. Akron	192	7,714	7,558	8,851	7	840	1,737	1,456	838	0	3,951	0	22
South Dakota State U.	193	7,161	8,977	8,819	0	0	0	1,379	367	0	1,285	0	5,788
Temple U.	194	8,279	8,898	8,815	0	2,228	0	2,155	1,601	0	1,350	0	1,481
Southern Methodist U.	195	9,972	7,313	8,535	0	0	0	1,248	2,209	0	1,191	0	3,887
U. Michigan, Dearborn	196	6,223	6,703	8,414	0	0	0	0	4,177	1,980	2,052	0	205
U. Miami	197	4,527	5,961	8,034	426	0	769	4,092	759	0	486	0	1,502
Medical C. Wisconsin	198	7,560	7,427	7,828	0	7,828	0	0	0	0	0	0	0
U.S. Military Academy	199	7,772	6,640	7,462	0	0	151	224	1,704	1,545	2,353	0	1,485
U. Puerto Rico, Mayaguez	200	11,397	8,482	7,401	0	0	1,627	1,485	2,982	239	485	9	574
U. Texas Medical Branch	201	1,259	1,643	7,397	0	7,397	0	0	0	0	0	0	0
U. South Alabama	202	5,085	6,231	7,228	0	0	2,002	2,326	1,710	0	224	0	966
Portland State U.	203	6,668	5,582	7,108	134	0	0	3,441	1,758	21	682	125	947
Tulane U.	204	6,662	6,823	6,779	0	3,285	3,494	0	0	0	0	0	0
Lamar U.	205	2,437	3,536	6,659	0	0	1,526	2,829	205	1,457	642	0	0
Southern Illinois U., Edwardsville	206	1,786	8,439	6,427	0	5,486	0	405	0	174	349	0	13
Montana Technological U.	207	5,834	4,473	6,151	0	0	0	410	279	0	371	4,942	149
California State Polytechnic U., Humboldt	208	5,564	6,779	5,920	0	238	0	1,506	481	86	0	0	3,609
Brandeis U.	209	2,221	5,264	5,918	0	5,891	0	27	0	0	0	0	0
Northern Arizona U.	210	6,497	4,194	5,880	0	1,053	92	527	1,733	0	1,532	0	943
U.S. Naval Academy	211	6,719	6,342	5,848	679	0	0	0	594	0	1,428	0	3,147
U. Oregon	212	0	4,656	5,844	0	5,844	0	0	0	0	0	0	0
Idaho State U.	213	4,411	4,752	5,435	0	0	0	352	242	0	154	0	4,687
Marshall U.	214	2,475	3,333	5,227	0	23	0	4,000	0	0	447	63	694
Texas A&M U.-Kingsville	215	4,622	4,044	5,130	412	0	33	303	762	14	1,046	383	2,177
Prairie View A&M U.	216	4,687	5,305	5,101	183	127	717	428	1,728	43	1,400	41	434
Florida Institute of Technology	217	5,891	5,100	5,021	1,007	400	345	539	458	12	624	0	1,636
Wright State U.	218	8,129	6,843	4,819	0	281	0	0	3,102	0	1,365	69	2
Northern Illinois U.	219	4,134	4,132	4,565	0	0	0	0	248	3,544	460	0	313
Miami U.	220	4,356	4,474	4,562	0	639	1,357	0	1,619	128	643	0	176
SUNY, U. Albany	220	3,133	4,266	4,562	0	0	0	0	1,904	0	0	0	2,658

TABLE 56

Higher education R&D expenditures in engineering subfields, ranked by all FY 2023 engineering R&D: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
U. Colorado Denver	222	3,695	3,906	4,511	0	543	0	1,656	647	0	1,239	0	426
U. North Florida	223	2,119	2,472	4,313	0	0	0	801	375	0	3,044	0	93
Georgia Southern U.	224	4,052	3,302	4,200	27	47	21	845	720	740	1,738	57	5
U. Tennessee, Chattanooga	225	3,578	3,823	4,138	0	0	287	461	736	0	671	0	1,983
Alfred U.	226	2,654	3,458	4,076	0	0	0	0	0	0	0	4,076	0
U. Denver	227	3,558	3,632	3,612	0	584	0	224	737	0	1,378	332	357
New School	228	3,793	3,301	3,565	0	0	1,620	220	1	0	1,550	0	174
Kennesaw State U.	229	1,858	1,652	3,445	0	0	0	2,412	86	0	518	0	429
U. of the District of Columbia	230	3,134	5,725	3,342	7	114	0	484	205	597	1,935	0	0
Tuskegee U.	231	5,528	2,955	3,262	148	0	89	0	822	0	408	1,795	0
Catholic U. of America	232	3,926	3,076	3,217	0	1,334	0	546	897	0	440	0	0
Jackson State U.	233	2,236	2,512	3,214	0	0	0	1,786	1,341	0	0	0	87
Saint Louis U.	234	1,999	1,559	3,187	3	412	0	82	94	230	1,471	0	895
Southern Illinois U., Carbondale	235	3,120	2,308	3,183	0	58	0	298	1,253	91	837	107	539
California State U., Long Beach	236	4,574	3,671	3,160	173	538	502	594	467	0	459	0	427
Purdue U., Northwest	237	2,220	2,606	3,078	0	0	0	86	38	2,628	305	0	21
Tennessee State U.	238	1,768	1,278	3,026	0	0	0	0	0	0	0	0	3,026
Alabama A&M U.	239	1,787	1,925	3,018	1	0	0	589	1,180	217	720	311	0
East Carolina U.	240	3,069	2,737	3,013	0	0	0	434	0	0	0	0	2,579
U. Puerto Rico, Rio Piedras	241	1,152	4,135	2,930	0	2,930	0	0	0	0	0	0	0
Milwaukee School of Engineering	242	3,129	3,480	2,790	0	432	0	1,090	2	0	1,266	0	0
Santa Clara U.	243	1,588	1,741	2,617	0	750	0	32	772	0	1,063	0	0
Youngstown State U.	244	1,794	3,058	2,553	0	0	0	1,800	41	0	419	70	223
U. New Orleans	245	1,897	2,134	2,509	0	0	0	307	986	0	586	0	630
Pittsburg State U.	246	2,250	2,309	2,461	48	14	1,641	0	0	0	0	758	0
Southern U. and A&M C., Baton Rouge	247	2,282	1,938	2,338	0	0	0	0	194	0	2,122	0	22
North Carolina Central U.	248	1,773	2,074	2,317	0	2,317	0	0	0	0	0	0	0
Franklin W. Olin C. of Engineering	249	936	2,380	2,312	105	0	0	11	676	0	949	0	571
SUNY, Cobleskill	250	1,211	1,211	2,301	0	0	0	0	0	0	0	0	2,301
Norfolk State U.	251	1,413	1,656	2,218	0	0	0	0	0	0	0	0	2,218
California State U., Northridge	252	1,216	2,621	2,209	233	34	0	78	100	0	1,108	19	637
California State U., Los Angeles	253	1,486	1,423	2,149	0	0	0	1,045	130	0	974	0	0

TABLE 56

Higher education R&D expenditures in engineering subfields, ranked by all FY 2023 engineering R&D: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Morehead State U.	254	756	2,312	2,141	1,938	0	0	41	162	0	0	0	0
Virginia State U.	255	1,273	2,260	2,110	938	0	0	0	63	856	0	0	253
SUNY, C. of Environmental Science and Forestry	256	1,085	1,644	2,095	325	677	812	281	0	0	0	0	0
Bucknell U.	257	1,494	1,589	2,064	0	185	457	317	276	0	196	0	633
U. Arkansas, Little Rock	258	809	1,571	2,063	1,917	139	1	0	0	0	0	6	0
Chapman U.	259	348	539	2,041	0	0	0	0	228	0	0	0	1,813
San Francisco State U.	260	2,386	2,423	1,967	0	78	0	932	431	0	435	14	77
Kent State U.	261	3,732	1,847	1,904	230	156	16	0	417	128	38	11	908
Pennsylvania State U., Behrend	262	2,395	1,799	1,892	0	564	8	0	7	599	402	312	0
U. Alaska, Anchorage	263	1,674	1,957	1,878	206	0	0	746	434	0	398	83	11
U. Minnesota, Duluth	263	2,392	1,892	1,878	0	0	176	574	150	663	0	0	315
CUNY, Advanced Science Research Center	265	2,928	2,083	1,871	0	599	190	956	0	0	0	0	126
U. Nebraska, Omaha	266	1,051	1,510	1,782	317	783	49	633	0	0	0	0	0
California State Polytechnic U., Pomona	267	1,516	1,759	1,673	372	0	698	470	5	75	53	0	0
Wake Forest U.	268	1,204	1,427	1,499	0	0	0	0	0	0	0	0	1,499
California State U., Chico	269	1,236	1,192	1,465	0	0	0	750	355	0	251	0	109
California State U., Fresno	270	1,290	1,970	1,450	0	0	0	991	309	0	150	0	0
Benedict C.	271	ne	ne	1,428	0	0	0	968	219	241	0	0	0
Florida Polytechnic U.	272	829	1,310	1,404	0	0	0	0	364	0	197	599	244
California State U., Fullerton	273	661	1,062	1,355	0	0	0	315	322	0	423	0	295
Alcorn State U.	274	181	1,159	1,349	0	0	0	988	0	0	104	0	257
U. West Florida	275	709	450	1,322	0	2	0	0	0	0	63	0	1,257
U. North Carolina, Wilmington	276	1,064	537	1,317	32	0	0	200	331	0	0	0	754
U. Massachusetts, Boston	277	1,266	1,218	1,298	0	74	0	22	884	0	0	0	318
Albany State U.	278	14	ne	1,177	7	0	0	1,150	0	0	0	0	20
Minnesota State U., Mankato	279	996	871	1,166	0	0	0	95	291	0	326	0	454
U. South Dakota	280	1,429	1,447	1,153	0	1,153	0	0	0	0	0	0	0
U. of St. Thomas (MN)	281	3,212	862	1,145	0	0	0	12	508	90	182	0	353
U. Colorado Colorado Springs	282	902	1,883	1,144	25	0	0	0	597	0	500	0	22
California State U., San Bernardino	283	1,382	658	1,108	0	24	0	1,084	0	0	0	0	0
Oregon Institute of Technology	284	761	902	1,104	0	0	0	122	233	76	321	0	352
West Texas A&M U.	285	1,400	1,713	1,075	0	0	537	223	3	0	0	0	312

TABLE 56

Higher education R&D expenditures in engineering subfields, ranked by all FY 2023 engineering R&D: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
U. Hartford	286	963	752	1,067	932	3	0	107	18	0	7	0	0
U. Central Oklahoma	287	1 i	928 i	1,032 i	0 i	202 i	0 i	0 i	830 i	0 i	0 i	0 i	0 i
U. Oklahoma, Tulsa	288	1,289	1,368	1,026	0	272	0	0	754	0	0	0	0
U. Detroit Mercy	289	114	560	1,010	0	0	0	18	606	0	386	0	0
California State U., San Marcos	290	1,682	527	937	0	32	0	0	1	0	0	0	904
South Carolina State U.	291	652 i	787 i	924	0	200	0	157	0	200	175	0	192
Western Washington U.	292	587	560	884	0	0	0	0	0	0	0	0	884
Tarleton State U.	293	166	685	857	63	0	0	21	0	0	446	130	197
New York Institute of Technology	294	775	1,181	844	26	0	0	9	556	0	253	0	0
U. Colorado Anschutz Medical Campus	295	1,204	957	842	0	842	0	0	0	0	0	0	0
Hampton U.	296	827	1,215	837	0	0	9	0	828	0	0	0	0
Lawrence Technological U.	297	555	726	816	0	98	0	532	29	0	131	0	26
U. Texas, Tyler	298	537	542	812	0	0	154	58	362	2	188	0	48
CUNY, New York City C. of Technology	299	103	50	806	0	0	0	0	81	0	550	0	175
U. of the Virgin Islands	300	832	790	790	790	0	0	0	0	0	0	0	0
Harvey Mudd C.	301	515	608	774	10 i	73 i	94 i	82 i	162 i	2 i	172 i	9 i	170 i
Western Illinois U.	302	780	1,983	717	0	0	0	0	0	0	0	717	0
California State U., Bakersfield	303	839	440	711	0	0	0	0	272	0	0	0	439
Western New England U.	304	ne	1,464	686	0	52	0	181	155	75	223	0	0
Pace U.	305	706	529	684	0	0	0	137	0	0	547	0	0
U. Tennessee, Health Science Center	306	687	640	683	0	683	0	0	0	0	0	0	0
Utah Valley U.	307	ne	310	668	0	0	0	32	532	0	104	0	0
Arkansas State U., Jonesboro	308	384	508	660	0	216	0	270	3	0	171	0	0
Hofstra U.	309	528	521	642	1	249	84	27	253	11	5	0	12
Fort Lewis C.	310	605	623	628	51	30	58	0	0	0	0	0	489
Western Kentucky U.	311	604	510	615	0	0	109	51	89	0	332	0	34
Robert Morris U.	312	ne	555 i	612	0	467	39	0	25	81	0	0	0
U. San Diego	313	980	820	608	0	0	0	0	0	0	0	0	608
Boston C.	314	50	438	592	0	0	0	0	0	0	0	0	592
Liberty U.	315	208	ne	588	0	0	0	326	0	0	243	0	19
C. Charleston	316	72	158	583	29	0	205	33	0	68	100	148	0
Lafayette C.	317	201	384	581	0	18	266	266	4	0	12	0	15

TABLE 56

Higher education R&D expenditures in engineering subfields, ranked by all FY 2023 engineering R&D: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023										
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec	
James Madison U.	318	174	808	576	0	62	0	0	0	0	3	0	0	511
Smith C.	319	688	599	567	0	195	66	260	41	0	0	2	0	3
Christopher Newport U.	320	656	437	541	541	0	0	0	0	0	0	0	0	0
Eastern Michigan U.	321	427	407	534	0	72	42	215	87	37	23	0	0	58
U. Washington, Bothell	322	304	387	530	0	0	0	155	0	0	375	0	0	0
Union C., Schenectady	323	722	446	519	0	152	0	29	147	0	188	1	0	2
Savannah State U.	324	588	609	502	0	285	71	0	0	0	0	0	0	146
Hope C.	325	277	430	493	0	0	0	0	0	0	493	0	0	0
Citadel Military C. South Carolina	326	250	363	491	0	0	0	428	2	0	49	8	0	4
U. Wisconsin-Green Bay	327	327	465	484	0	0	0	144	208	0	132	0	0	0
Manhattan C.	328	1,122	899	447	0	0	43	371	0	0	33	0	0	0
United Tribes Technical C.	329	ne	ne	444	349	0	0	0	15	80	0	0	0	0
Pennsylvania State U., Altoona	330	ne	ne	425	0	0	0	276	0	0	149	0	0	0
Delaware State U.	331	308	207	419	0	0	0	0	9	0	410	0	0	0
U. Texas of the Permian Basin	332	792	797	416	0	0	52	0	227	0	12	0	0	125
CUNY, system office	333	1,137	2,447	413	0	0	0	0	0	0	0	0	0	413
Montclair State U.	334	104	1,129	402	0	7	94	301	0	0	0	0	0	0
Western Carolina U.	335	305	363	395	0	63	0	330	0	0	0	0	0	2
Central Michigan U.	336	412	499	377	185	0	0	187	0	5	0	0	0	0
Swarthmore C.	337	174	215	338	0	0	0	6	226	0	98	0	0	8
U. Washington, Tacoma	338	319	250	328	0	24	0	0	169	0	38	0	0	97
U. Southern Maine	339	159	228	301	173	7	0	0	0	37	0	84	0	0
U. of the Incarnate Word	340	186	339	289	0	14	0	0	0	0	275	0	0	0
CUNY, C. Staten Island	341	274	0	288	0	2	0	0	0	0	0	0	0	286
Seattle U.	342	62	137	282	0	0	0	18	187	0	77	0	0	0
C. New Jersey	343	283	265	278	0	113	0	17	85	0	11	0	0	52
Coastal Carolina U.	344	68	175	275	0	194	0	0	0	0	0	0	0	81
Pennsylvania State U., Harrisburg	345	386	160	272	0	36	0	17	10	0	196	13	0	0
Appalachian State U.	346	0	237	266	0	0	0	0	0	0	0	0	0	266
Northwest Indian C.	347	196	227	243	243	0	0	0	0	0	0	0	0	0
Grand Valley State U.	348	118	117	239	0	0	0	0	0	0	0	0	0	239
Fairfield U.	349	109	ne	225	35	81	0	0	84	0	22	0	0	3

TABLE 56

Higher education R&D expenditures in engineering subfields, ranked by all FY 2023 engineering R&D: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank			2023									
		2021	2022	All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
U. Wisconsin-Platteville	350	171	i 204	i 223	i 0	i 0	i 0	i 21	i 43	i 14	i 78	i 0	i 67
Florida Gulf Coast U.	351	145	222	221	0	9	0	70	0	63	0	0	79
U. Central Arkansas	351	0	0	221	0	0	0	0	0	221	0	0	0
CUNY, Graduate Center	353	6	0	206	0	206	0	0	0	0	0	0	0
Roger Williams U.	354	32	221	202	0	0	0	66	46	0	70	0	20
Middle Tennessee State U.	355	592	889	196	0	0	0	153	0	14	0	0	29
Purdue U., Fort Wayne	356	465	169	192	0	0	0	153	0	0	36	0	3
Bowling Green State U.	357	57	80	189	0	21	0	0	0	0	0	0	168
Duquesne U.	358	102	66	187	0	187	0	0	0	0	0	0	0
U. Houston-Clear Lake	359	0	21	184	0	0	0	0	0	0	175	0	9
Texas A&M International U.	360	241	127	175	0	2	0	0	0	0	0	0	173
Central Connecticut State U.	361	100	185	172	10	0	7	84	13	10	37	0	11
U. Wisconsin-Oshkosh	362	158	294	157	0	0	0	157	0	0	0	0	0
California State U., East Bay	363	306	133	155	0	155	0	0	0	0	0	0	0
Central State U.	363	211	314	155	0	0	0	155	0	0	0	0	0
Lipscomb U.	365	203	ne	153	12	0	0	65	0	0	0	0	76
Loyola U., Chicago	366	0	95	151	0	0	0	0	0	0	0	0	151
SUNY, Oswego	367	43	0	150	0	0	0	0	139	0	0	0	11
Dine C.	368	ne	0	147	0	147	0	0	0	0	0	0	0
Virginia Military Institute	368	ne	119	147	62	0	0	24	31	0	30	0	0
Fayetteville State U.	370	288	127	141	i 0	i 0	i 0	i 0	i 0	i 0	i 0	i 0	i 141
Southeastern Louisiana U.	371	16	24	140	0	0	0	0	0	140	0	0	0
Trinity U.	372	47	69	137	0	0	137	0	0	0	0	0	0
U. South Carolina, Beaufort	373	ne	ne	135	0	0	0	0	0	135	0	0	0
Xavier U. Louisiana	373	57	0	135	0	0	0	0	0	0	0	0	135
Calvin U.	375	107	i 129	i 134	i 0	i 0	i 0	i 42	i 0	i 0	i 71	i 0	i 21
U.S. Coast Guard Academy	376	ne	ne	133	32	0	0	9	54	0	9	0	29
Keck Graduate Institute	377	0	i 0	129	0	129	0	0	0	0	0	0	0
U. of the Pacific	378	228	135	128	0	128	0	0	0	0	0	0	0
U. South Carolina, Aiken	379	1,322	231	126	0	0	0	0	0	0	0	0	126
Norwich U.	380	ne	ne	124	0	0	0	109	0	0	12	0	3
U. New Haven	381	319	329	120	0	2	39	2	2	0	29	4	42

TABLE 56

Higher education R&D expenditures in engineering subfields, ranked by all FY 2023 engineering R&D: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Ball State U.	414	0	0	32	0	0	0	32	0	0	0	0	0
New C. Florida	414	ne	ne	32	0	0	0	0	0	0	0	0	32
Elon U.	416	29	18	30	0	0	0	0	0	0	0	0	30
California State U., Dominguez Hills	417	0	0	27	0	0	0	0	0	0	0	0	27
California State U., Monterey Bay	418	0	0	23	0	23	0	0	0	0	0	0	0
Azusa Pacific U.	419	5	10	21	0	0	0	0	0	0	0	0	21
Merrimack C.	420	ne	ne	16	0	0	0	16	0	0	0	0	0
Abilene Christian U.	421	45	29	15	15	0	0	0	0	0	0	0	0
Alabama State U.	422	366	483	14	0	0	0	0	0	0	0	0	14
St. Mary's C. Maryland	423	ne	ne	13	0	0	0	0	13	0	0	0	0
Austin Peay State U.	424	0	0	9	0	0	0	0	8	0	0	0	1
Northwestern State U. Louisiana	424	0	8	9 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	9 i
Colorado State U., Pueblo	426	64	0	8	0	0	0	0	0	0	0	0	8
U. San Francisco	427	3	3	4	0	0	0	0	4	0	0	0	0
U. Scranton	427	ne	ne	4	0	0	0	0	4	0	0	0	0
Salisbury U.	429	3	3	3	0	0	0	0	0	0	3	0	0
Tougaloo C.	430	0 i	0 i	2 i	0 i	0 i	0 i	1 i	1 i	0 i	0 i	0 i	0 i
U. North Carolina, Asheville	430	0	0	2	0	0	0	0	0	0	2	0	0
Carleton C.	432	0	0	1 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	1 i
Kean U.	432	0	32	1	0	0	0	1	0	0	0	0	0
All other surveyed institutions	-	69,804	71,197	0	0	0	0	0	0	0	0	0	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified.

^a Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$1,353,057 thousand imputed for total R&D expenditures in engineering in FY 2023. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^c The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 57

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2023 engineering R&D: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
All institutions	-	8,713,379	9,759,899	10,931,327	1,425,681	1,198,449	713,248	929,044	2,794,497	481,861	1,551,973	693,211	1,143,363
Johns Hopkins U. ^a	1	1,183,154	1,264,048	1,436,413	191,135	79,622	24,936	18,623	606,439	114,052	258,794	41,505	101,307
Georgia Institute of Technology	2	666,235	739,429	847,360	268,458	29,689	27,362	15,951	403,240	43,100	40,386	13,807	5,367
Pennsylvania State U., University Park and Hershey Medical Center	3	284,244	300,829	348,549	20,993	14,815	9,142	9,154	133,655	8,878	108,688	43,224	0
Utah State U.	4	228,986	239,736	280,768	263,160	1,319	0	3,761	10,292	0	1,732	0	504
U. Texas, Austin	5	194,110	216,881	249,098	15,736	7,260	19,206	10,362	78,185	0	76,963	19,119	22,267
Massachusetts Institute of Technology	6	193,246	215,477	226,746	24,187	71,768	27,211	4,824	27,327	0	21,545	13,601	36,283
U. Michigan, Ann Arbor	7	180,607	189,405	206,437	12,728	21,270	9,406	9,291	50,758	3,526	36,654	9,918	52,886
Purdue U., West Lafayette	8	137,052	163,895	188,696	31,700	9,113	14,239	9,759	40,265	4,177	32,131	11,089	36,223
U. Dayton	9	171,865	189,150	188,040	20,836	180	3,885	59	6,339	55,660	26,351	69,226	5,504
U. Illinois, Urbana-Champaign	10	139,887	144,390	176,925	11,674	13,148	17,075	23,847	34,075	0	25,086	18,125	33,895
Texas A&M U., College Station and Health Science Center	11	123,286	138,068	170,864	41,394	25,716	4,730	24,767	17,267	9,309	15,097	8,144	24,440
U. Colorado Boulder	12	132,769	148,185	140,779	73,910	10,892	9,708	15,791	12,066	0	11,067	2,077	5,268
U. Washington, Seattle	13	119,758	127,827	139,691	6,387	28,531	6,941	11,763	31,497	1,751	14,997	4,269	33,555
Wichita State U.	14	64,692	88,257	136,780	134,542	84	0	0	1,256	431	380	0	87
Virginia Polytechnic Institute and State U.	15	108,080	114,336	128,941	13,103	17,105	3,914	16,742	35,043	17,067	12,892	7,248	5,827
U. California, San Diego	16	100,212	129,923	114,380	0	17,408	0	7,801	47,061	0	18,872	23,238	0
Ohio State U.	17	88,435	103,560	113,636	891	3,843	8,318	7,143	21,646	8,432	38,054	13,284	12,025
U. Maryland ^b	18	95,898	104,247	112,818	11,272	18,198	11,171	18,011	9,639	462	15,773	6,472	21,820
North Carolina State U.	19	91,430	88,636	100,328	2,533	9,050	13,338	8,146	21,256	3,760	11,465	14,845	15,935
Stanford U.	20	89,861	89,919	100,033	12,959	22,047	9,117	7,401	16,355	6,089	18,304	6,355	1,406
Arizona State U.	21	73,746	85,208	98,381	0	9,566	5,272	19,205	32,200	7,881	7,935	3,345	12,977
Northeastern U.	22	69,550	72,409	96,495	0	6,707	5,171	11,076	42,122	8,567	19,420	0	3,432
Carnegie Mellon U.	23	63,083	84,680	95,826	1,505	16,937	5,286	3,667	20,344	5,488	29,598	5,645	7,356
U. Wisconsin-Madison	24	75,104	85,549	93,870	0	5,381	11,182	6,924	14,571	3,563	15,561	7,150	29,538
U. Utah	25	29,330	99,830	93,722	0	4,284	4,440	39,128	32,979	0	8,945	3,299	647
U. Minnesota, Twin Cities	26	78,808	84,060	92,997	8,664	28,149	13,638	8,209	12,255	204	16,455	5,423	0
U. California, Berkeley	27	78,026	93,638	92,895	0	0	4,221	6,035	70,333	0	0	0	12,306
U. Delaware	28	68,504	88,552	90,547	0	7,666	58,044	9,405	8,597	0	6,835	0	0
Duke U.	29	74,308	80,356	85,594	0	38,306	0	5,516	30,117	0	9,683	1,972	0
Cornell U.	30	72,771	73,646	84,312	1,720	15,548	14,776	8,692	12,336	2,469	13,470	12,736	2,565

TABLE 57

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2023 engineering R&D: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
U. Florida	31	72,191	79,991	84,288	3,526	15,303	4,603	15,551	24,044	1,447	13,263	6,077	474
Woods Hole Oceanographic Institution	32	93,266	82,286	84,259	8,099	0	0	9,801	44,009	0	22,350	0	0
SUNY, U. Buffalo	33	66,790	67,985	83,743	10,056	5,437	10,550	4,031	3,007	6,807	27,789	3,117	12,949
Columbia U. in the City of New York	34	64,962	73,487	80,040	2,139	26,469	11,168	2,674	3,901	875	2,824	0	29,990
U. California, Santa Barbara	35	44,958	67,267	77,243	0	18,300	6,710	0	36,456	0	6,860	8,472	445
Iowa State U.	36	62,113	66,024	73,907	5,199	12,220	5,824	11,961	3,401	0	3,160	6,531	25,611
U. Tennessee, Knoxville	37	66,556	70,892	70,876	19,121	852	4,302	5,624	12,229	3,044	0	5,421	20,283
U. Southern California	38	51,948	54,438	68,833	4,796	11,880	5,786	3,817	34,034	2,473	0	0	6,047
New Mexico Institute of Mining and Technology	39	10,164	45,940	68,220	519	2,809	0	0	338	0	2,041	762	61,751
Clemson U.	40	46,693	62,349	65,399	0	8,763	2,947	7,465	8,663	3,144	22,464	8,221	3,732
U. Virginia, Charlottesville	41	37,143	42,481	65,008	0	18,132	6,083	0	9,858	0	7,870	8,736	14,329
U. California, Los Angeles	42	53,761	65,455	62,859	0	6,185	5,362	5,398	24,104	0	13,345	4,391	4,074
Boston U.	43	48,537	54,675	62,597	2,402	25,862	0	0	10,860	5,565	8,502	0	9,406
Rice U.	44	46,799	53,851	61,759	10	20,319	7,031	6,660	19,838	0	3,168	4,124	609
U. California, Davis	45	43,175	56,254	59,180	0	23,755	101	9,102	11,720	0	8,439	0	6,063
U. Notre Dame	46	42,501	50,651	57,913	22,435	0	7,097	11,553	16,319	0	0	0	509
Northwestern U.	47	55,739	56,993	57,708	0	14,520	7,677	5,126	6,005	1,977	5,481	12,508	4,414
U. Pennsylvania	48	49,526	54,427	56,036	0	20,452	5,641	0	17,699	0	12,180	0	64
Oregon State U.	49	38,914	44,377	55,520	0	850	3,224	12,695	16,253	4,382	5,926	750	11,440
Mississippi State U.	50	44,188	48,255	54,768	13,915	682	4,890	1,388	5,405	3,425	3,959	389	20,715
Montana State U., Bozeman	51	39,190	42,936	54,709	0	4,736	1,000	4,426	3,974	0	6,128	0	34,445
U. Pittsburgh, Pittsburgh	52	37,749	43,571	54,013	0	19,158	7,278	3,290	7,850	2,005	14,432	0	0
Vanderbilt U. and Vanderbilt U. Medical Center	53	43,570	52,364	53,911	0	14,069	6,844	10,180	15,545	0	5,776	0	1,497
New Jersey Institute of Technology	54	50,822	48,863	53,008	0	5,446	5,658	35,071	1,522	0	749	0	4,562
Princeton U.	55	44,201	52,615	52,300	2,201	5,283	4,775	4,148	20,889	3,120	3,761	0	8,123
Auburn U., Auburn	56	40,288	47,059	50,218	2,338	630	4,424	10,053	4,381	8,892	10,986	478	8,036
George Mason U.	57	44,086	50,246	49,947	0	5,825	0	3,930	19,656	18,165	1,508	647	216
U. Arizona	58	34,360	42,072	49,493	2,132	4,784	4,117	385	23,315	3,832	2,558	4,265	4,105
U. Maine	59	27,452	44,010	46,933	0	0	5,300	832	1,751	129	656	38,224	41
U. Connecticut	60	37,988	42,418	46,010	0	6,522	5,869	12,419	6,611	0	7,089	7,489	11
U. California, Irvine	61	29,315	40,869	45,509	0	11,906	4,849	4,099	6,755	0	10,144	7,756	0
Case Western Reserve U.	62	30,483	31,686	43,497	0	18,182	5,991	896	2,719	0	7,079	8,105	525

TABLE 57

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2023 engineering R&D: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Florida State U.	63	34,492	37,798	43,395	1,270	842	728	2,735	14,704	4,347	17,307	1,085	377
U. Alabama, Huntsville	64	44,780	43,390	42,694	29,325	150	439	2,587	4,097	3,789	1,583	340	384
U. New Mexico	65	33,001	37,091	42,513	7,556	571	3,012	10,069	10,591	394	1,514	298	8,508
Harvard U.	66	50,918	47,017	42,222	0	24,834	1,410	1,511	2,796	0	538	11,133	0
U. California, Santa Cruz	67	33,002	43,539	42,217	0	0	0	0	5,640	0	0	0	36,577
California Institute of Technology	68	24,011	25,812	41,780	4,021	4,474	4,551	8,099	2,390	0	0	17,733	512
U. Massachusetts, Amherst	69	32,063	35,204	41,770	0	2,879	15,016	10,632	8,415	0	4,558	0	270
U. Central Florida	70	36,318	37,217	41,638	11,972	0	0	3,566	5,469	1,421	11,039	1,812	6,359
U. Chicago	71	25,909	35,751	40,732	0	0	0	0	0	0	0	0	40,732
Rutgers, State U. New Jersey, New Brunswick	72	35,691	35,877	40,402	0	2,925	4,597	1,975	5,519	387	4,913	2,319	17,767
Colorado School of Mines	73	37,909	42,745	39,767	1,868	1,912	2,461	6,193	612	2,655	3,953	10,194	9,919
Colorado State U., Fort Collins	74	30,424	36,428	39,358	0	590	3,369	12,549	9,879	1,194	9,707	0	2,070
U. Nebraska, Lincoln and Medical Center ^c	75	na	na	37,913	0	5,344	1,847	9,079	15,836	0	1,979	2,085	1,743
U. Kentucky	76	33,001	38,078	37,882	0	2,317	2,041	7,747	2,131	1,642	5,135	1,515	15,354
Florida International U.	77	23,801	31,994	37,670	0	3,439	0	13,028	10,273	0	8,762	50	2,118
Michigan State U.	78	31,314	34,356	37,598	0	4,013	5,334	6,772	10,479	0	5,192	0	5,808
Stevens Institute of Technology	79	26,766	34,630	36,535	0	2,033	1,060	5,903	3,339	20,429	2,599	0	1,172
U.S. Air Force Academy	80	28,914	32,709	35,804	4,481	231	203	0	160	0	74	30,509	146
U. South Florida	81	26,183	27,554	34,863	663	6,422	1,413	13,168	7,823	938	2,653	0	1,783
Rensselaer Polytechnic Institute	82	31,832	29,720	34,192	0	7,340	4,824	993	5,803	381	11,966	2,563	322
U. Alabama, Tuscaloosa	83	25,859	30,544	32,570	3,291	0	3,946	8,770	7,380	0	4,641	3,896	646
SUNY, Polytechnic Institute	84	24,019	30,702	32,487	0	0	0	54	0	0	27	0	32,406
U. Houston	85	26,599	28,251	31,432	1,387	9,037	6,198	3,503	6,387	282	3,750	507	381
Drexel U.	86	20,821	27,063	31,364	0	6,432	3,618	3,201	3,413	0	7,362	6,158	1,180
U. Oklahoma, Norman and Health Science Center	87	15,235	20,850	30,388	4,117	2,749	2,787	4,774	12,822	543	0	0	2,596
U. Illinois, Chicago	88	21,610	24,287	29,282	0	9,893	2,202	2,810	4,948	0	9,429	0	0
Air Force Institute of Technology	89	17,065	21,622	29,188	2,986	0	0	1,264	6,809	16,509	0	1,315	305
U. Texas, El Paso	90	15,602	26,326	28,605	0	755	0	2,491	5,512	1,305	16,751	822	969
SUNY, Stony Brook U.	91	17,613	25,968	28,320	0	6,258	0	1,258	11,357	0	1,423	7,736	288
Dartmouth C. and Dartmouth Hitchcock Medical Center	92	24,126	25,052	28,224	48	11,414	3,899	1,093	5,553	4	6,213	0	0
New Mexico State U.	93	19,957	29,723	28,215	5,597	0	1,493	3,933	11,416	78	1,835	0	3,863
Washington U., Saint Louis	94	22,291	24,042	28,140	0	10,780	6,102	69	5,734	0	0	5,005	450

TABLE 57

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2023 engineering R&D: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Missouri U. of Science and Technology	95	21,797	24,061	27,984	1,147	0	1,515	4,895	3,437	897	3,824	12,043	226
U. Arkansas, Fayetteville	96	17,980	22,533	27,734	25	4,826	2,386	5,963	9,646	1,944	1,539	0	1,405
U. North Dakota	97	35,155	33,233	27,690	0	0	894	18,526	1,383	0	1,734	203	4,950
U. Iowa	98	23,116	24,367	27,689	0	606	108	12,023	1,064	394	488	0	13,006
U. South Carolina, Columbia	99	16,470	21,003	27,685	0	0	3,821	3,323	9,192	0	9,876	0	1,473
Michigan Technological U.	100	26,289	27,496	27,248	0	1,817	2,909	1,976	5,277	0	14,254	846	169
Texas Tech U.	101	15,359	18,858	27,046	0	0	10,627	3,273	7,068	1,375	4,573	0	130
Mercer U.	102	31,923	29,959	26,989	10,209	0	0	0	852	0	7,495	8,433	0
U. Texas, Arlington	103	23,581	28,177	26,470	2,621	2,201	0	3,262	3,497	9,395	2,621	0	2,873
U. Massachusetts, Lowell	104	18,884	26,414	25,882	0	2,804	7,567	1,582	3,913	0	7,428	0	2,588
U. Texas, Dallas	105	24,793	24,404	25,609	0	9,038	0	0	4,869	572	7,272	2,328	1,530
Yale U.	106	23,578	23,926	24,446	0	8,435	5,148	0	5,718	0	5,145	0	0
U. North Carolina, Chapel Hill	107	19,983	22,510	24,138	0	9,109	0	13,594	0	1,435	0	0	0
New York U.	108	18,633	20,507	24,015	0	0	2,309	910	11,548	0	1,754	0	7,494
U. California, Riverside	109	18,541	21,080	23,236	0	2,226	6,597	2,425	8,083	0	3,129	92	684
West Virginia U.	110	18,042	21,919	23,114	1,663	0	4,486	2,410	4,202	2,193	3,226	4,659	275
Washington State U.	111	23,129	20,359	22,414	0	1,672	3,627	4,504	3,796	135	2,695	1,954	4,031
Oklahoma State U., Stillwater	112	15,319	16,574	21,997	5,541	0	3,027	3,304	2,556	657	2,055	909	3,948
Naval Postgraduate School	113	20,798	13,920	21,980	5,770	1,268	0	354	4,999	445	4,904	298	3,942
Lehigh U.	114	16,976	19,098	21,706	0	2,581	2,963	3,018	962	1,464	5,748	4,970	0
Tufts U.	115	19,362	19,796	20,965	335	10,012	2,170	2,542	3,165	0	2,347	0	394
Worcester Polytechnic Institute	116	16,095	18,401	20,579	1,180	1,022	1,975	289	1,461	0	13,224	0	1,428
Brown U.	117	15,963	18,304	20,340	0	6,258	2,585	0	2,395	0	3,216	2,966	2,920
U. Hawaii, Manoa	118	16,553	17,241	20,303	0	591	0	2,468	10,635	0	2,219	0	4,390
U. Rochester	119	14,213	17,031	18,978	0	6,238	744	0	6,262	0	5,734	0	0
Indiana U., Bloomington	120	5,752	7,149	18,033	0	8,347	0	0	9,686	0	0	0	0
U. Cincinnati	121	12,970	14,790	17,940	4,346	1,307	1,538	3,901	3,595	0	2,698	0	555
CUNY, City C.	122	18,078	19,125	17,700	0	4,995	2,482	953	6,678	0	2,279	0	313
Emory U.	123	8,356	10,545	17,322	0	17,322	0	0	0	0	0	0	0
U. Missouri, Columbia	124	15,905	17,346	16,700	0	1,282	548	3,392	5,927	168	3,711	42	1,630
U. Kansas	125	12,206	13,244	15,825	1,798	0	4,468	5,681	2,226	0	1,652	0	0
Louisiana State U., Baton Rouge	126	11,014	12,249	15,748	0	0	2,479	4,728	1,132	141	3,185	150	3,933

TABLE 57

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2023 engineering R&D: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
U. Alabama, Birmingham	127	43,477	22,205	15,320	4,955	6,736	103	491	504	0	2,531	0	0
Kansas State U.	128	13,810	15,266	15,212	672	0	1,412	2,947	3,172	708	3,173	0	3,128
U. Louisville	129	11,844	14,712	15,122	5	3,443	1,535	751	4,099	894	2,147	24	2,224
George Washington U.	130	15,052	13,339	14,653	1,354	2,429	0	1,748	4,782	1,772	1,331	71	1,166
U. Nevada, Reno	131	11,419	11,896	14,595	48	1,744	2,224	3,737	239	6	2,672	2,129	1,796
Brigham Young U., Provo	132	15,694	15,386	14,299	0	0	2,178	1,825	4,930	486	4,880	0	0
Boise State U.	133	9,596	11,149	14,082	30	6,329	902	393	1,841	148	978	2,788	673
North Carolina A&T State U.	134	9,071	10,157	14,059	0	1,035	0	1,889	4,033	1,375	2,906	0	2,821
U. New Hampshire	135	8,984	9,665	13,998	0	0	2,089	5,722	1,107	0	2,503	0	2,577
U. Alaska, Fairbanks	136	11,355	12,504	13,928	797	0	0	3,444	8,186	0	26	462	1,013
North Dakota State U.	137	4,341	10,191	13,852	710	0	111	8,311	1,106	154	1,578	243	1,639
U. North Texas, Denton	138	7,232	10,227	13,452	0	1,745	0	0	2,094	0	2,566	7,047	0
Florida Atlantic U.	139	11,045	9,749	12,770	156	0	36	1,157	35	0	0	0	11,386
U. Missouri, Kansas City	140	7,506	9,153	12,734	298	0	29	556	10,851	111	664	0	225
Embry-Riddle Aeronautical U.	141	9,272	14,083	12,190	11,773	0	0	68	0	0	325	0	24
Oregon Health and Science U.	142	10,841	10,647	12,097	0	12,097	0	0	0	0	0	0	0
Old Dominion U.	143	9,683	11,184	11,962	687	0	0	1,043	4,519	4,626	1,087	0	0
U. Georgia	144	8,139	10,503	11,735	0	35	2,764	6,866	2,070	0	0	0	0
Missouri State U.	145	6,872	8,396	11,680	0	0	0	0	0	0	0	11,680	0
SUNY, Binghamton U.	146	7,463	8,326	11,658	0	1,883	0	0	2,080	5,033	2,662	0	0
U. Rhode Island	147	7,962	9,997	11,545	0	621	715	1,384	2,138	0	2,632	17	4,038
Rochester Institute of Technology	148	10,659	10,560	11,359	0	1,813	1,054	59	2,959	526	1,184	0	3,764
U. Texas, San Antonio	149	7,346	10,333	11,142	0	1,452	0	1,153	1,529	960	1,599	0	4,449
South Dakota School of Mines and Technology	150	9,834	12,779	11,074	0	860	3,534	891	315	28	641	3,419	1,386
Illinois Institute of Technology	151	11,070	10,795	11,065	984	4,069	901	916	2,837	62	420	0	876
U. Louisiana, Lafayette	152	6,909	9,736	10,734	0	0	2,352	2,543	1,207	0	1,543	3,089	0
U. Wyoming	153	7,391	17,026	9,991	81	803	5,555	1,677	272	0	662	321	620
U. North Carolina, Charlotte	154	9,381	8,783	9,789	0	0	0	1,532	1,472	0	1,896	0	4,889
Rowan U.	155	8,035	9,274	9,769	0	2,524	3,865	2,289	490	0	177	0	424
Cleveland State U.	156	7,748	9,597	9,606	0	6,977	674	121	581	0	1,207	0	46
U. Vermont	157	5,537	5,794	9,208	1,797	0	0	2,928	546	0	1,554	0	2,383
Florida A&M U.	158	4,852	5,427	8,959	0	0	2,834	865	1,615	1,176	1,282	0	1,187

TABLE 57

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2023 engineering R&D: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Virginia Commonwealth U.	159	9,924	9,441	8,436	0	2,766	1,466	0	1,413	0	2,791	0	0
Syracuse U.	160	8,013	7,290	8,149	0	2,331	0	543	2,640	0	2,635	0	0
Marquette U.	161	3,866	5,605	7,361	0	2,063	0	1,313	1,374	0	2,611	0	0
U. California, Merced	162	4,627	5,007	7,349	0	2,132	138	247	0	0	1,485	655	2,692
U.S. Military Academy	163	7,334	6,086	7,214	0	0	151	209	1,704	1,362	2,307	0	1,481
California State U., Sacramento	164	2,687	3,718	7,114	0	0	0	6,943	168	0	3	0	0
Wayne State U.	165	5,695	6,722	7,106	0	1,279	1,299	1,338	1,377	1,037	235	0	541
U. Toledo	166	7,574	8,517	7,048	26	290	1,251	910	1,617	0	2,954	0	0
U. Texas Rio Grande Valley	167	2,885	4,536	6,988	29	102	0	28	490	1,343	2,245	317	2,434
U. Nevada, Las Vegas	168	4,037	5,031	6,771	0	0	0	2,492	1,462	0	2,749	0	68
Howard U.	169	7,420	8,156	6,744	0	0	474	1,406	3,318	0	1,204	0	342
San Diego State U.	170	4,553	5,143	6,656	826	47	0	1,782	1,018	0	2,983	0	0
U. Puerto Rico, Mayaguez	171	8,136	7,325	6,545	0	0	1,532	1,201	2,786	239	395	0	392
Clarkson U.	172	4,577	5,180	6,413	0	55	290	1,738	2,418	0	1,605	56	251
U. Idaho	173	6,705	7,063	6,244	1,423	493	295	896	424	24	1,126	185	1,378
Indiana U.-Purdue U., Indianapolis	174	4,040	4,375	6,049	0	1,421	0	0	1,510	0	2,588	0	530
Morgan State U.	175	5,001	5,514	5,962	0	0	0	2,631	1,661	41	0	0	1,629
U. Memphis	176	2,275	4,518	5,852	242	845	0	1,488	2,238	41	602	0	396
U.S. Naval Academy	177	6,604	6,197	5,788	679	0	0	0	594	0	1,428	0	3,087
U. South Alabama	178	3,209	4,296	5,784	0	0	1,503	1,851	1,281	0	224	0	925
Medical C. Wisconsin	179	5,221	5,046	5,735	0	5,735	0	0	0	0	0	0	0
U. Southern Mississippi	180	1,970	2,661	5,330	0	0	0	0	0	0	0	0	5,330
Montana Technological U.	181	4,639	3,779	5,051	0	0	0	267	252	0	171	4,230	131
U. Oregon	182	0	3,729	5,004	0	5,004	0	0	0	0	0	0	0
U. Miami	183	2,816	4,423	4,988	187	0	419	2,634	627	0	252	0	869
Ohio U.	184	5,340	5,209	4,985	2,221	0	446	1,461	10	0	78	45	724
Western Michigan U. and Homer Stryker M.D. School of Medicine	185	4,194	3,994	4,884	699	0	2,469	207	350	0	1,138	21	0
U. Akron	186	3,985	4,632	4,733	0	633	553	897	493	0	2,157	0	0
California Polytechnic State U., San Luis Obispo	187	2,636	5,436	4,584	3,246	100	0	841	56	15	233	0	93
Temple U.	188	4,734	4,494	4,482	0	1,599	0	1,405	379	0	795	0	304
Portland State U.	189	4,021	3,752	4,290	103	0	0	1,932	1,451	0	503	104	197
U. Mississippi	190	4,487	3,779	4,284	40	431	316	2,312	230	0	811	0	144

TABLE 57

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2023 engineering R&D: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Tennessee Technological U.	191	3,392	2,549	4,141	0	0	397	245	921	246	2,311	0	21
Louisiana Tech U.	192	4,117	3,120	4,122	0	998	638	735	72	220	1,459	0	0
U. Maryland, Baltimore County	193	4,657	4,079	4,065	20	1,076	272	441	1,186	41	633	82	314
Tulane U.	194	4,016	3,801	4,041	0	2,472	1,569	0	0	0	0	0	0
Marshall U.	195	1,671	2,375	3,993	0	9	0	3,507	0	0	426	49	2
U. Colorado Denver	196	3,152	3,398	3,868	0	504	0	1,294	635	0	1,167	0	268
South Dakota State U.	197	3,854	4,783	3,850	0	0	0	1,072	223	0	945	0	1,610
Prairie View A&M U.	198	2,885	3,849	3,799	125	0	711	422	1,000	0	1,171	41	329
Wright State U.	199	6,695	5,696	3,694	0	278	0	0	3,021	0	395	0	0
Texas A&M U.-Kingsville	200	2,923	2,819	3,690	379	0	0	76	537	0	681	383	1,634
Texas State U.	201	1,537	2,429	3,577	472	0	0	613	869	0	163	0	1,460
Northern Arizona U.	202	4,910	2,709	3,505	0	533	0	259	1,556	0	950	0	207
U. Wisconsin-Milwaukee	203	3,193	2,907	3,322	0	4	0	652	1,154	3	964	544	1
U. of the District of Columbia	204	3,134	5,725	3,314	7	114	0	476	185	597	1,935	0	0
Florida Institute of Technology	205	2,903	2,818	3,306	697	55	102	172	397	0	445	0	1,438
U. Massachusetts, Dartmouth	206	2,434	2,245	3,203	0	131	0	1,075	1,132	0	865	0	0
Villanova U.	207	2,122	1,949	3,147	0	0	316	1,038	887	0	906	0	0
U. Tennessee, Chattanooga	208	2,574	2,622	3,049	0	0	265	289	435	0	531	0	1,529
Baylor U.	209	1,598	2,307	2,815	53	69	0	23	1,538	0	1,130	0	2
Tennessee State U.	210	1,755	1,265	2,781	0	0	0	0	0	0	0	0	2,781
Jackson State U.	211	1,817	1,905	2,669	0	0	0	1,454	1,128	0	0	0	87
Idaho State U.	212	2,022	2,430	2,640	0	0	0	197	44	0	73	0	2,326
Southern Methodist U.	213	3,590	2,769	2,612	0	0	0	546	1,398	0	657	0	11
U. Michigan, Dearborn	214	1,907	2,030	2,599	0	0	0	0	1,805	313	481	0	0
U. Puerto Rico, Rio Piedras	215	1,152	3,900	2,580	0	2,580	0	0	0	0	0	0	0
Alabama A&M U.	216	1,500	1,861	2,462	1	0	0	415	1,015	165	607	259	0
U. Tulsa	216	2,410	1,557	2,462	0	0	619	0	257	0	1,488	0	98
Catholic U. of America	218	2,680	2,099	2,405	0	1,147	0	244	743	0	271	0	0
Tuskegee U.	219	4,213	2,099	2,326	148	0	0	0	139	0	308	1,731	0
Southern U. and A&M C., Baton Rouge	220	2,185	1,851	2,272	0	0	0	0	192	0	2,058	0	22
Youngstown State U.	221	1,261	2,525	2,208	0	0	0	1,728	0	0	257	0	223
Northern Illinois U.	222	1,856	2,039	2,193	0	0	0	0	160	1,654	303	0	76

TABLE 57

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2023 engineering R&D: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
U. Alaska, Anchorage	255	869	1,074	885	30	0	0	280	329	0	163	83	0
Southern Illinois U., Carbondale	256	606	587	865	0	0	0	7	304	0	497	57	0
Hampton U.	257	827	1,215	837	0	0	9	0	828	0	0	0	0
Benedict C.	258	ne	ne	815	0	0	0	465	219	131	0	0	0
U. Detroit Mercy	259	64	510	804	0	0	0	0	593	0	211	0	0
Miami U.	260	532	843	798	0	0	345	0	302	0	151	0	0
U. of the Virgin Islands	261	809	790	790	790	0	0	0	0	0	0	0	0
CUNY, New York City C. of Technology	262	93	33	782	0	0	0	0	62	0	547	0	173
Kennesaw State U.	263	289	351	776	0	0	0	71	0	0	506	0	199
U. Colorado Colorado Springs	264	488	1,134	762	20	0	0	0	274	0	468	0	0
New York Institute of Technology	265	666	1,082	742	26	0	0	0	463	0	253	0	0
California State U., Fresno	266	474	971	728	0	0	0	435	229	0	64	0	0
Western Illinois U.	267	780	1,983	717	0	0	0	0	0	0	0	717	0
U. Colorado Anschutz Medical Campus	268	1,189	730	707	0	707	0	0	0	0	0	0	0
U. Massachusetts, Boston	269	498	635	705	0	53	0	0	652	0	0	0	0
Bucknell U.	270	543	660	656	0	45	213	117	208	0	66	0	7
U. South Dakota	271	731	859	653	0	653	0	0	0	0	0	0	0
Pace U.	272	626	529	649	0	0	0	102	0	0	547	0	0
U. West Florida	273	265	14	647	0	2	0	0	0	0	0	0	645
Franklin W. Olin C. of Engineering	274	636	805	641	48	0	0	11	257	0	167	0	158
U. New Orleans	275	204	341	640	0	0	0	93	143	0	132	0	272
California State U., Fullerton	276	530	639	622	0	0	0	105	132	0	97	0	288
San Francisco State U.	277	990	1,174	613	0	78	0	435	12	0	11	0	77
Kent State U.	278	830	553	574	65	149	16	0	303	0	28	9	4
Fort Lewis C.	279	563	592	569	41	30	58	0	0	0	0	0	440
South Carolina State U.	280	464	506	549	0	0	0	157	0	200	0	0	192
Lawrence Technological U.	281	141	382	545	0	95	0	325	0	0	107	0	18
Christopher Newport U.	282	656	437	541	541	0	0	0	0	0	0	0	0
Florida Polytechnic U.	283	312	493	530	0	0	0	0	95	0	63	364	8
C. Charleston	284	72	158	524	0	0	205	3	0	68	100	148	0
U. Texas Medical Branch	285	425	555	507	0	507	0	0	0	0	0	0	0
Savannah State U.	286	588	609	502	0	285	71	0	0	0	0	0	146

TABLE 57

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2023 engineering R&D: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023																		
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec									
Robert Morris U.	287	ne	448	i	492	0	413	0	0	15	64	0	0	0								
Arkansas State U., Jonesboro	288	248	367		481	0	180	0	151	1	0	149	0	0								
SUNY, Cobleskill	289	ne	379		469	0	0	0	0	0	0	0	0	469								
West Texas A&M U.	290	673	915		458	0	0	176	0	0	0	0	0	282								
Utah Valley U.	291	ne	180		435	0	0	0	0	331	0	104	0	0								
U. Central Oklahoma	292	1	392	i	434	i	93	i	0	i	341	i	0	i	0	i						
Smith C.	293	571	426		421	0	145	0	249	27	0	0	0	0								
Western Washington U.	293	230	227		421	0	0	0	0	0	0	0	0	421								
Citadel Military C. South Carolina	295	136	222		416	0	0	0	408	0	0	0	8	0								
Hope C.	296	232	374		412	0	0	0	0	0	0	412	0	0								
United Tribes Technical C.	297	ne	ne		410	349	0	0	0	0	61	0	0	0								
Lafayette C.	298	84	222		403	0	0	210	193	0	0	0	0	0								
Harvey Mudd C.	299	256	237		394	6	31	i	81	i	45	i	93	i	2	i	99	i	9	i	28	i
Milwaukee School of Engineering	300	704	904		392	0	364	0	0	2	0	26	0	0								
California State U., Bakersfield	301	751	302		388	0	0	0	0	92	0	0	0	296								
Oregon Institute of Technology	301	71	96	i	388	i	0	i	0	i	16	i	44	i	16	i	247	i	0	i	65	i
Hofstra U.	303	478	352		376	0	123	0	0	253	0	0	0	0								
U. of St. Thomas (MN)	304	565	285		367	0	0	0	2	149	90	105	0	21								
Montclair State U.	305	5	49		360	0	0	94	266	0	0	0	0	0								
Western New England U.	306	ne	395		344	0	41	0	113	1	56	133	0	0								
U. San Diego	307	692	518		343	0	0	0	0	0	0	0	0	343								
U. Washington, Bothell	307	304	387		343	0	0	0	0	0	0	343	0	0								
U. Oklahoma, Tulsa	309	421	662		339	0	168	0	0	171	0	0	0	0								
U. Minnesota, Duluth	310	341	322		331	0	0	0	68	18	245	0	0	0								
U. Texas, Tyler	311	115	212		304	0	0	75	0	229	0	0	0	0								
Pennsylvania State U., Altoona	312	ne	ne		297	0	0	0	271	0	0	26	0	0								
CUNY, C. Staten Island	313	235	0		286	0	0	0	0	0	0	0	0	286								
Southern Illinois U., Edwardsville	314	208	204		273	0	175	0	98	0	0	0	0	0								
Union C., Schenectady	315	595	359		272	0	21	0	25	103	0	122	1	0								
U. North Carolina, Wilmington	316	297	182		265	0	0	0	110	0	0	0	0	155								
Northwest Indian C.	317	196	227	i	243	i	243	i	0	i	0	i	0	i	0	i	0	i	0	i		
U. of the Incarnate Word	318	139	331		235	0	14	0	0	0	0	221	0	0								

TABLE 57

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2023 engineering R&D: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank			2023										
		2021	2022	All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec	
U. Wisconsin-Green Bay	319	167	i 199	i 232	i 0	i 0	i 0	i 48	i 115	i 0	i 69	i 0	i 0	
U. Washington, Tacoma	320	314	250	231	0	24	0	0	169	0	38	0	0	
Chapman U.	321	8	82	228	0	0	0	0	228	0	0	0	0	
U. Texas of the Permian Basin	322	270	509	226	0	0	0	0	226	0	0	0	0	
U. Central Arkansas	323	0	0	221	0	0	0	0	0	221	0	0	0	
James Madison U.	324	54	161	209	0	58	0	0	0	3	0	0	148	
U. North Florida	325	316	258	208	0	0	0	0	206	0	0	0	2	
CUNY, Graduate Center	326	0	0	206	0	206	0	0	0	0	0	0	0	
Minnesota State U., Mankato	327	170	0	196	0	0	0	82	15	0	99	0	0	
Coastal Carolina U.	328	68	159	194	0	194	0	0	0	0	0	0	0	
C. New Jersey	329	133	133	193	0	86	0	0	67	0	0	0	40	
Central Michigan U.	330	95	48	187	0	0	0	187	0	0	0	0	0	
Delaware State U.	331	198	137	176	0	0	0	0	9	0	167	0	0	
Central State U.	332	211	314	155	0	0	0	155	0	0	0	0	0	
U. Wisconsin-Oshkosh	333	73	252	142	0	0	0	142	0	0	0	0	0	
Fayetteville State U.	334	288	127	141	i 0	i 0	i 0	i 0	i 0	i 0	i 0	i 0	i 141	
Middle Tennessee State U.	334	100	288	141	0	0	0	112	0	0	0	0	29	
Xavier U. Louisiana	336	57	0	135	0	0	0	0	0	0	0	0	135	
U. South Carolina, Beaufort	337	ne	ne	134	0	0	0	0	0	134	0	0	0	
Keck Graduate Institute	338	0	i 0	127	0	127	0	0	0	0	0	0	0	
Pennsylvania State U., Harrisburg	339	219	74	126	0	35	0	10	10	0	58	13	0	
U. South Carolina, Aiken	339	1,322	128	126	0	0	0	0	0	0	0	0	126	
SUNY, Oswego	341	9	0	123	0	0	0	0	123	0	0	0	0	
Roger Williams U.	342	17	44	117	0	0	0	15	32	0	70	0	0	
Bowling Green State U.	343	35	42	114	0	0	0	0	0	0	0	0	114	
Clark Atlanta U.	343	11	41	114	0	0	0	0	0	0	0	0	114	
Norwich U.	345	ne	ne	112	0	0	0	106	0	0	6	0	0	
Western Kentucky U.	346	82	135	109	0	0	94	0	0	0	0	0	15	
Central Connecticut State U.	347	71	143	108	0	0	0	77	10	0	21	0	0	
DePaul U.	348	0	76	106	0	0	0	0	0	0	0	0	106	
Texas A&M International U.	348	65	66	106	0	0	0	0	0	0	0	0	106	
U. Wisconsin-Platteville	348	80	i 99	i 106	i 0	i 0	i 0	i 4	i 12	i 4	i 67	i 0	i 19	

TABLE 57

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2023 engineering R&D: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023										
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec	
U. Houston-Clear Lake	351	0	13	100	0	0	0	0	0	0	0	91	0	9
U. Southern Maine	352	32	72	97	91	0	0	0	0	0	0	0	6	0
Lipscomb U.	353	203	ne	94	12	0	0	6	0	0	0	0	0	76
Dine C.	354	ne	0	93	0	93	0	0	0	0	0	0	0	0
Dillard U.	355	0	7	85	59	0	0	0	0	0	0	0	0	26
Seattle U.	355	10	48	85	0	0	0	16	69	0	0	0	0	0
Eastern Michigan U.	357	81	76	83	0	0	0	83	0	0	0	0	0	0
Manhattan C.	357	68	58	83	0	0	23	60	0	0	0	0	0	0
New School	359	422	294	81	0	0	0	44	0	0	0	0	0	37
Trinity U.	359	0	7	81	0	0	81	0	0	0	0	0	0	0
Sam Houston State U.	361	0	167	80	0	0	0	0	0	0	0	0	0	80
U. Houston-Downtown	362	189	71	79	0	0	38	0	0	0	0	0	0	41
Bentley U.	363	ne	0	72	0	0	0	0	0	0	0	0	0	72
Eastern Washington U.	364	0	0	71	0	0	0	0	0	0	0	0	0	71
Eastern Kentucky U.	365	56	ne	69	0	0	0	0	0	0	69	0	0	0
Texas Southern U.	365	27	7	69	0	0	0	0	0	0	0	0	0	69
Western Carolina U.	367	237	134	65	0	63	0	0	0	0	0	0	0	2
Calvin U.	368	34	33	64	0	0	0	0	0	0	0	64	0	0
Claflin U.	369	65	63	63	0	9	0	0	0	0	0	0	54	0
U. Maryland, Eastern Shore	369	125	59	63	63	0	0	0	0	0	0	0	0	0
Virginia Military Institute	371	ne	51	62	62	0	0	0	0	0	0	0	0	0
U. Wisconsin-Stevens Point	372	132	0	61	0	0	61	0	0	0	0	0	0	0
Texas Christian U.	373	8	84	59	0	0	0	0	0	0	0	0	0	59
Duquesne U.	374	0	21	52	0	52	0	0	0	0	0	0	0	0
Marymount U.	375	0	0	50	0	50	0	0	0	0	0	0	0	0
Wellesley C.	375	345	395	50	50	0	0	0	0	0	0	0	0	0
Southeastern Louisiana U.	377	8	6	49	0	0	0	0	0	0	49	0	0	0
Troy U.	378	0	56	47	0	0	0	0	0	0	0	0	0	47
Sonoma State U.	379	0	0	43	20	0	0	0	0	23	0	0	0	0
Andrews U.	380	50	ne	42	0	42	0	0	0	0	0	0	0	0
Central Washington U.	381	45	25	39	0	0	0	0	0	0	39	0	0	0
Fairfield U.	382	2	ne	34	25	6	0	0	0	2	0	0	0	1

TABLE 57

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2023 engineering R&D: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Indiana State U.	382	0	70	34	0	0	0	34	0	0	0	0	0
Thomas Jefferson U.	384	55	77	33	0	0	0	0	0	0	0	0	33
U. Wisconsin-River Falls	385	18	ne	27	0	0	0	0	0	0	0	0	27
Florida Gulf Coast U.	386	0	84	26	0	0	0	0	0	0	0	0	26
Lake Superior State U.	387	ne	0	25	0	0	0	0	0	0	0	0	25
U. New Haven	388	81	64	23	0	2	4	2	0	0	12	3	0
U. Alaska, Southeast	389	0	0	21	0	0	0	0	21	0	0	0	0
U. of the Pacific	389	228	135	21	0	21	0	0	0	0	0	0	0
Purdue U., Fort Wayne	391	125	92	17	0	0	0	15	0	0	2	0	0
Abilene Christian U.	392	45	29	15	15	0	0	0	0	0	0	0	0
Liberty U.	392	75	ne	15	0	0	0	0	0	0	15	0	0
Alabama State U.	394	73	267	14	0	0	0	0	0	0	0	0	14
St. Mary's C. Maryland	395	ne	ne	13	0	0	0	0	13	0	0	0	0
Merrimack C.	396	ne	ne	11	0	0	0	11	0	0	0	0	0
Austin Peay State U.	397	0	0	8	0	0	0	0	8	0	0	0	0
Azusa Pacific U.	398	0	0	7	0	0	0	0	0	0	0	0	7
California State Polytechnic U., Humboldt	399	208	197	6	0	0	0	6	0	0	0	0	0
Trinity C., Hartford	400	1	13	2	0	0	0	0	0	0	0	0	2
U. North Carolina, Asheville	400	0	0	2	0	0	0	0	0	0	2	0	0
Carleton C.	402	0	0	1 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	1 i
Swarthmore C.	402	50	51	1	0	0	0	1	0	0	0	0	0
All other surveyed institutions	-	32,774	33,766	0	0	0	0	0	0	0	0	0	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified.

^a Johns Hopkins University includes the Applied Physics Laboratory, with \$1,317,890 thousand in federally financed R&D expenditures in engineering in FY 2023.^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.^c The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 58

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2023 non-S&E fields: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023									
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec	
All institutions	-	5,118,609	5,862,482	6,904,991	1,218,052	253,609	2,042,372	846,919	430,807	416,735	283,750	1,412,747	
Arizona State U.	1	81,652	128,398	163,241	37,854	5,832	76,667	11,694	5,407	13,870	11,917	0	
U. Pennsylvania	2	139,396	139,339	146,054	79,067	11,225	15,332	11,402	12,108	0	3,921	12,999	
Harvard U.	3	109,083	111,157	138,179	36,108	3,687	47,420	22,073	24,364	0	4,527	0	
New York U.	4	76,810	115,115	124,024	8,788	0	31,012	26,973	40,785	5,849	1,734	8,883	
U. Wisconsin-Madison	5	85,191	95,771	115,891	13,381	8,154	39,358	19,710	6,555	951	3,153	24,629	
U. Kansas	6	80,837	86,502	114,437	1,594	1,085	89,662	1,771	34	18,065	847	1,379	
U. Michigan, Ann Arbor	7	118,228	121,582	110,536	17,515	1,989	12,852	26,770	8,961	9,378	4,334	28,737	
Vanderbilt U. and Vanderbilt U. Medical Center	8	50,702	77,399	105,876	11,318	0	59,988	2,370	9,254	0	10,060	12,886	
Florida State U.	9	77,689	88,449	103,341	15,532	3,103	45,173	11,743	4,709	14,763	5,504	2,814	
U. Utah	10	27,419	117,635	97,729	932	1,902	2,433	386	883	0	1,096	90,097	
U. Texas, Austin	11	70,185	65,855	96,169	7,436	13,623	29,939	7,839	2,080	11,364	446	23,442	
Virginia Commonwealth U.	12	72,243	82,129	95,945	7,461	64	27,287	17,221	0	2,652	13,415	27,845	
U. Virginia, Charlottesville	13	59,610	70,333	95,871	4,216	252	52,697	7,927	1,020	0	696	29,063	
U. California, Berkeley	14	52,025	74,758	87,562	23,571	8,606	22,839	4,962	26,173	0	581	830	
Syracuse U.	15	72,037	77,564	85,912	26,277	5,055	8,298	12,516	13,084	1,235	4,384	15,063	
U. California, Los Angeles	16	58,429	65,643	75,276	20,960	2,868	36,785	7,594	3,207	0	3,767	95	
U. Southern California	17	40,040	61,177	74,487	1,227	11,396	14,155	6,226	308	13,695	3,463	24,017	
U. Georgia	18	64,523	70,657	73,671	22,368	4,290	9,678	9,016	4,784	7,090	6,080	10,365	
U. North Carolina, Chapel Hill	19	45,359	56,417	73,449	3,237	2,315	18,326	6,323	207	19,167	1,867	22,007	
Georgia State U.	20	71,402	66,267	72,569	13,975	8,935	35,346	2,900	2,042	3,466	1,068	4,837	
Purdue U., West Lafayette	21	55,952	63,268	72,281	14,802	2,298	10,916	2,996	0	0	261	41,008	
Ohio State U.	22	59,506	73,945	71,409	6,451	372	28,063	3,231	2,259	10,083	2,023	18,927	
Texas State U.	23	31,997	52,359	71,212	5,041	0	10,165	3,898	43,956	0	0	8,152	
U. Maryland ^a	24	54,635	63,141	70,305	1,696	723	11,573	3,586	5,587	24,783	442	21,915	
U. Washington, Seattle	25	73,658	68,040	70,290	135	13,754	33,686	3,400	631	16,267	566	1,851	
U. South Florida	26	65,052	65,953	67,509	9,338	2,971	39,082	6,169	0	832	3,629	5,488	
George Washington U.	27	17,607	18,306	67,284	16,771	11	8,030	4,297	12,487	0	874	24,814	
Clemson U.	28	53,989	59,137	66,338	3,126	290	7,090	378	0	0	11	55,443	
Texas A&M U., College Station and Health Science Center	29	39,523	56,295	65,005	12,832	268	33,033	2,322	445	129	392	15,584	
Columbia U. in the City of New York	30	55,440	62,587	62,808	2,238	2,191	8,561	8,459	11,739	26,479	92	3,049	
U. Oklahoma, Norman and Health Science Center	31	45,990	54,089	62,775	11,976	2,157	19,608	5,551	1,746	2,016	4,466	15,255	
Cornell U.	32	40,205	49,756	59,047	20,570	7,256	457	3,039	1,195	0	337	26,193	

TABLE 58

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2023 non-S&E fields: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec
Michigan State U.	33	37,274	39,370	55,669	6,979	5,949	18,459	6,910	0	3,022	472	13,878
U. Notre Dame	34	25,936	38,564	54,778	6,220	0	75	9,657	3,013	0	835	34,978
Texas Tech U.	35	46,832	57,545	53,851	17,782	3,236	19,222	4,292	1,943	0	3,300	4,076
U. California, San Diego	36	40,402	26,391	53,426	7,971	1,076	15,476	3,211	0	0	1,813	23,879
U. Florida	37	40,461	44,949	52,838	3,096	3,447	24,176	6,905	173	2	3,047	11,992
Georgetown U.	38	30,603	44,734	52,739	15,598	311	912	4,199	30,362	0	0	1,357
U. Minnesota, Twin Cities	39	38,218	42,387	51,985	19,599	460	16,727	3,936	3,061	1,237	356	6,609
Massachusetts Institute of Technology	40	52,737	48,875	49,982	8,591	0	27,583	1,233	0	165	150	12,260
Stanford U.	41	44,474	44,597	48,715	549	831	44,601	629	1,778	0	255	72
U. Missouri, Columbia	42	34,279	34,489	47,845	613	2,678	29,269	589	186	892	381	13,237
U. South Carolina, Columbia	43	46,932	44,972	47,718	8,523	1,891	10,184	6,825	651	2,053	4,188	13,403
U. Illinois, Urbana-Champaign	44	35,349	38,841	46,838	4,621	445	6,389	5,829	1,327	8,660	1,922	17,645
Boston U.	45	26,605	34,597	46,736	7,238	743	15,922	12,128	4,380	5,062	421	842
Brigham Young U., Provo	46	4,163	4,876	46,372	12,233	189	4,831	15,055	2,507	342	3,646	7,569
Auburn U., Auburn	47	36,980	41,056	46,129	18,798	1,197	4,525	7,322	0	440	1	13,846
Washington State U.	48	33,017	45,834	44,791	10,765	5,474	25,115	1,501	197	695	75	969
U. Louisiana, Lafayette	49	32,651	40,623	44,707	13,885	1,362	14,497	10,219	0	261	2,640	1,843
Pennsylvania State U., University Park and Hershey Medical Center	50	34,537	37,651	44,362	7,865	1,933	25,309	5,123	2,113	959	1,060	0
Dartmouth C. and Dartmouth Hitchcock Medical Center	51	37,247	38,778	42,799	16,524	0	162	17,174	0	0	2,103	6,836
U. Texas, San Antonio	52	47,330	35,646	42,732	7,685	1,226	9,169	4,052	0	3,947	865	15,788
Indiana U., Bloomington	53	36,185	38,886	42,637	7,071	1,607	5,036	3,064	1,254	0	6,723	17,882
U. Alabama, Tuscaloosa	54	29,799	40,440	41,017	11,919	2,675	9,731	4,813	2,076	4,557	2,803	2,443
U. Nebraska, Lincoln and Medical Center ^b	55	na	na	40,293	10,061	1,236	5,254	7,620	3,353	0	5,593	7,176
American U.	56	36,404	35,931	40,180	6,441	4,990	3,826	2,498	10,116	0	689	11,620
Northwestern U.	57	25,077	32,235	39,291	15,511	3,353	12,464	4,761	1,509	0	1,693	0
Rutgers, State U. New Jersey, New Brunswick	58	28,675	30,129	38,303	3,973	1,685	13,108	4,978	0	4,965	142	9,452
Oklahoma State U., Stillwater	59	46,863	35,302	38,120	16,683	2,257	2,801	6,006	0	0	1,064	9,309
U. California, Irvine	60	36,272	31,745	36,821	1,038	0	24,019	8,202	1,472	0	2,090	0
U. Iowa	61	31,735	33,562	36,288	8,882	1,045	11,668	6,479	1,063	603	475	6,073
Washington U., Saint Louis	62	28,558	30,865	35,829	253	0	212	444	78	34,695	70	77
U. Colorado Boulder	63	28,679	36,566	35,426	1,850	835	29,644	1,319	334	105	0	1,339
U. Houston	64	24,693	31,473	35,336	2,080	724	8,475	3,313	1,466	7,271	621	11,386
San Diego State U.	65	21,399	27,673	35,318	8,089	1,730	8,097	5,693	0	4,790	2,509	4,410

TABLE 58

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2023 non-S&E fields: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023									
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec	
U. Arizona	66	28,655	30,072	34,451	10,608	557	7,794	4,539	3,647	0	5,012	2,294	
U. Tennessee, Knoxville	67	28,899	31,439	34,040	11,544	3,195	3,838	6,436	2,317	1,288	2,233	3,189	
Iowa State U.	68	25,604	24,896	32,542	17,186	822	2,654	7,180	0	0	1,829	2,871	
U. Memphis	69	16,971	17,033	32,482	3,297	379	2,783	3,119	886	1,029	1,882	19,107	
U. Cincinnati	70	20,882	23,750	31,433	3,618	151	7,338	4,379	228	0	208	15,511	
U. Oregon	71	30,203	31,289	30,648	3,784	1,626	15,173	881	1,178	0	504	7,502	
Northeastern U.	72	12,311	20,199	30,558	9,626	1,929	6,130	1,530	3,717	0	794	6,832	
U. North Texas, Denton	73	24,514	27,017	30,187	10,208	305	3,432	5,063	0	0	6,750	4,429	
U. Arkansas, Fayetteville	74	22,171	20,062	29,354	4,149	87	10,448	0	584	1,575	10	12,501	
U. Central Florida	75	36,435	35,796	28,938	12,125	1,008	7,946	2,906	317	1,736	1,311	1,589	
U. Mississippi	76	11,646	29,426	28,700	12,179	755	3,272	4,564	3,641	291	1,499	2,499	
Boston C.	77	19,430	22,395	27,605	258	81	17,200	712	192	8,160	70	932	
Georgia Institute of Technology	78	28,320	23,468	27,565	1,273	4,985	15,197	471	14	0	1,089	4,536	
George Mason U.	79	21,002	27,597	27,200	2,749	1,854	4,465	2,674	14,990	45	281	142	
U. Massachusetts, Boston	80	26,602	27,462	27,187	662	44	24,972	872	0	224	412	1	
SUNY, U. Buffalo	81	18,083	22,651	26,090	8,572	451	15,297	825	327	246	54	318	
Florida International U.	82	30,202	31,959	25,466	9,996	1,043	4,550	4,497	1,245	484	1,859	1,792	
Virginia Polytechnic Institute and State U.	83	10,563	18,633	24,597	4,983	103	2,639	306	0	0	743	15,823	
SUNY, U. Albany	84	14,148	24,923	24,414	5,055	1,248	6,319	5,787	0	2,512	1,156	2,337	
Montana State U., Bozeman	85	18,838	19,869	24,358	2,007	70	5,062	1,799	0	0	1,201	14,219	
U. Delaware	86	6,877	24,548	23,965	1,010	2,106	6,682	11,270	0	0	2,377	520	
U. Denver	87	17,378	20,867	23,859	0	32	6,544	507	292	14,695	774	1,015	
U. North Carolina, Charlotte	88	4,419	4,862	23,809	4,995	744	6,292	5,061	0	986	1,281	4,450	
Baylor U.	89	6,722	14,487	23,664	3,838	658	1,689	14,572	0	1,267	814	826	
CUNY, Graduate Center	90	913	3,628	23,377	1,049	0	3,196	12,030	0	359	4,455	2,288	
Louisiana State U., Baton Rouge	91	13,166	11,158	23,348	1,594	751	687	737	663	1,021	3,378	14,517	
U. West Florida	92	25,768	24,425	23,286	21,053	17	2,026	0	25	53	14	98	
Illinois State U.	93	16,488	17,699	23,274	111	29	20,573	187	0	780	61	1,533	
U. Texas, Arlington	94	20,484	20,034	22,730	4,337	109	1,927	809	0	6,195	222	9,131	
Southern Methodist U.	95	15,962	20,226	22,513	3,667	46	9,063	1,529	4,023	0	3,190	995	
U. Texas, El Paso	96	22,518	23,509	22,347	5,534	1,711	5,959	3,213	0	1,073	1,652	3,205	
East Tennessee State U.	97	1,053	967	22,267	253	0	244	0	0	0	0	21,770	
San Jose State U.	98	11,569	16,508	22,249	12,327	362	3,649	4,891	0	188	4	828	

TABLE 58

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2023 non-S&E fields: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec
U. Illinois, Chicago	99	17,681	17,810	22,085	714	357	4,476	8,933	6	3,783	638	3,178
U. Massachusetts, Amherst	100	12,637	21,731	21,006	1,649	505	5,455	2,625	15	0	507	10,250
Mississippi State U.	101	17,231	20,002	20,458	8,461	883	4,109	3,342	253	471	950	1,989
U. North Carolina, Greensboro	102	18,041	19,100	19,228	92	13	15,748	619	0	1,054	101	1,601
SUNY, Binghamton U.	103	14,075	20,383	19,194	1,784	331	2,474	9,164	0	285	2,565	2,591
CUNY, City C.	104	2,183	4,998	18,951	0	0	1,398	27	289	8,378	53	8,806
U. Nevada, Reno	105	16,820	15,943	18,178	5,123	284	3,750	1,024	3,986	260	1,773	1,978
Princeton U.	106	14,796	16,760	17,938	0	41	1	13,340	0	0	3,005	1,551
Duke U.	107	15,403	15,868	17,811	11,788	0	41	2,985	1,054	0	152	1,791
Carnegie Mellon U.	108	15,836	17,006	17,696	9,224	69	688	5,079	0	0	2,529	107
Brown U.	109	12,193	12,850	17,465	16	0	7,639	3,237	0	0	464	6,109
Florida Gulf Coast U.	110	3,140	3,879	17,395	1,467	0	12,913	30	0	0	60	2,925
Emory U.	111	9,982	20,078	17,360	673	454	923	9,135	1,305	0	3,785	1,085
Wichita State U.	112	17,381	16,009	16,960	1,812	134	444	1,575	0	133	1,214	11,648
North Carolina State U.	113	17,811	15,453	16,870	0	0	11,240	5,630	0	0	0	0
Kent State U.	114	14,368	15,735	16,693	5,298	1,392	4,713	2,110	47	0	1,211	1,922
Tulane U.	115	13,338	15,158	16,517	1	126	0	1,848	5,504	0	698	8,340
U. Nevada, Las Vegas	116	26,894	22,489	16,489	5,130	492	3,359	3,037	0	177	393	3,901
CUNY, John Jay C. of Criminal Justice	117	9,883	11,352	16,471	0	0	8	447	15,443	0	12	561
Temple U.	118	19,778	19,912	16,351	4,389	516	4,040	396	2,359	1,170	463	3,018
U. Vermont	119	13,013	14,448	16,080	3,960	577	3,089	6,434	0	239	1,624	157
U. California, Davis	120	12,023	13,147	15,898	206	763	8,871	647	263	0	5,146	2
Fordham U.	121	11,252	12,878	15,569	3,911	252	1,381	3,808	4,214	945	98	960
Yale U.	122	17,371	8,568	15,454	864	0	4,923	6,816	222	0	397	2,232
Kennesaw State U.	123	4,719	5,577	15,451	4,217	1	1,717	6,153	0	2,725	590	48
Florida A&M U.	124	11,179	8,850	15,443	685	0	3,591	0	576	0	0	10,591
California State U., East Bay	125	4,748	11,585	15,280	2,470	169	9,744	294	0	158	284	2,161
U. Kentucky	126	10,441	13,160	14,966	4,124	361	1,303	1,948	45	1,938	930	4,317
U. California, Santa Barbara	127	16,161	12,454	14,915	8,201	154	4,575	1,716	1	0	212	56
Kansas State U.	128	13,647	13,919	14,655	2,041	506	3,588	1,532	0	0	1,190	5,798
Colorado State U., Fort Collins	129	15,066	11,372	14,637	202	286	7,243	3,811	365	523	340	1,867
U. Connecticut	130	6,239	10,677	14,593	921	264	2,667	1,767	118	5,657	1,061	2,138
U. Louisville	131	12,590	12,133	14,407	3,222	392	3,126	959	357	3,367	883	2,101

TABLE 58

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2023 non-S&E fields: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023										
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec		
Indiana U.-Purdue U., Indianapolis	132	6,475	7,478	14,045	2,689	238	1,839	846	269	4,632	588	2,944		
Johns Hopkins U. ^c	133	6,448 i	10,120 i	13,955 i	0 i	0 i	0 i	13,819 i	0 i	0 i	0 i	136 i		
Chapman U.	134	9,226	12,712	13,896	805	402	2,708	461	337	0	1,176	8,007		
U. Texas, Dallas	135	9,866	10,177	13,762	10,684	0	1,722	1,356	0	0	0	0		
U. North Dakota	136	10,565	11,435	13,731	1,150	1,125	5,819	1,639	1,703	198	736	1,361		
U. New Hampshire	137	14,573	14,692	13,387	4,783	638	2,707	3,627	0	588	556	488		
Drexel U.	138	8,650	9,359	13,272	131	52	3,167	769	21	0	397	8,735		
Montclair State U.	139	5,920	11,396	13,215	2,621	674	3,338	3,777	47	557	1,523	678		
U. Texas Rio Grande Valley	140	9,737	11,699	13,155	3,143	393	2,092	947	0	671	1,446	4,463		
Wayne State U.	141	12,825	11,251	12,854	332	54	1,360	259	27	7,860	192	2,770		
Georgia Southern U.	142	11,909	12,207	12,553	3,736	251	3,335	2,560	464	16	1,572	619		
U. Chicago	143	8,646	13,451	12,443	1,991	0	4,387	698	362	4,646	61	298		
U. Maryland, Baltimore County	144	2,760	9,562	11,975	532	266	4,172	4,401	0	340	1,405	859		
Brandeis U.	145	14,906	15,399	11,447	2,973	48	767	3,373	45	0	871	3,370		
U. Montana, Missoula	146	9,277	11,706	11,422	981	301	2,218	1,153	781	4,295	2	1,691		
West Virginia U.	147	8,956	8,001	11,421	1,564	298	1,760	514	425	434	54	6,372		
U. Maine	148	10,082	10,851	11,238	1,992	1,038	2,122	2,291	0	761	594	2,440		
U. Alabama, Birmingham	149	7,879	11,712	11,221	0	1	8,745	0	0	0	0	2,475		
U. North Florida	150	10,424	9,343	11,042	3,660	32	6,618	324	0	0	180	228		
Marquette U.	151	7,718	9,767	10,993	1,317	1,146	164	3,040	1,125	0	1	4,200		
North Dakota State U.	152	14,067	8,936	10,955	6,850	662	490	1,048	0	0	569	1,336		
Rensselaer Polytechnic Institute	153	8,476	7,477	10,647	5,176	15	0	0	0	0	986	4,470		
U. Wyoming	154	972	7,226	10,226	2,612	389	1,524	840	1,325	234	1,368	1,934		
U. Pittsburgh, Pittsburgh	155	10,594	10,492	10,205	490	51	5,328	696	144	1,108	22	2,366		
William & Mary	156	10,738	11,811	10,192	830	0	5,354	1,578	1,641	0	44	745		
U. Rhode Island	157	9,030	13,913	10,148	1,816	1,885	3,185	737	391	790	0	1,344		
Western Michigan U. and Homer Stryker M.D. School of Medicine	158	7,642	6,918	10,147	47	0	6,249	3,142	0	175	58	476		
Saint Louis U.	159	3,535	3,175	10,096	262	205	4,615	1,752	265	719	8	2,270		
Cleveland State U.	160	5,477	7,970	10,080	2,354	232	1,796	3	169	1,354	0	4,172		
Florida Atlantic U.	161	3,491	3,155	9,983	5,048	1	793	19	0	118	0	4,004		
Tufts U.	162	3,927	4,449	9,972	13	0	1,375	2,731	1,908	0	236	3,709		
U. Alabama, Huntsville	163	7,902	8,906	9,928	3,213	119	5,321	893	4	0	378	0		
North Carolina A&T State U.	164	5,562	6,482	9,786	1,466	0	2,675	0	0	431	0	5,214		

TABLE 58

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2023 non-S&E fields: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023									
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec	
James Madison U.	165	6,000	5,976	9,645	1,572	815	2,678	1,372	0	0	1,931	1,277	
U. California, Santa Cruz	166	3,776	4,989	9,544	0	288	1,184	4,874	0	0	3,198	0	
Portland State U.	167	8,215	8,466	9,513	0	172	3,618	3	0	2,186	61	3,473	
U. Southern Mississippi	168	6,970	8,034	9,400	219	4	4,589	1,097	0	30	0	3,461	
California State U., Fullerton	169	2,643	4,242	8,931	2,131	758	1,117	2,455	0	747	429	1,294	
U. Miami	170	711	4,537	8,699	4,557	307	1,519	614	1,520	0	163	19	
New Jersey Institute of Technology	171	23,397	11,694	8,448	2,548	82	721	1,314	0	0	0	3,783	
Texas Christian U.	172	2,261	2,926	8,428	1,481	0	3,918	2,425	0	7	496	101	
U. Massachusetts, Lowell	173	7,397	8,832	8,411	2,049	0	523	2,748	0	0	320	2,771	
Salisbury U.	174	5,596	6,262	8,380	1,137	137	2,876	190	3	2,647	92	1,298	
Ohio U.	175	5,565	4,975	8,199	3,009	139	1,785	853	0	140	587	1,686	
U. California, Riverside	176	6,186	5,900	8,147	219	0	2,521	2,634	0	0	219	2,554	
CUNY, Hunter C.	177	2,962	7,692	8,108	0	0	1,827	1,883	269	137	313	3,679	
Wake Forest U.	178	5,051	7,369	7,985	0	211	285	6,489	113	0	556	331	
U. Puerto Rico, Rio Piedras	179	9,099	5,924	7,913	211	10	305	72	18	0	18	7,279	
Villanova U.	180	5,526	7,073	7,785	1,877	51	505	3,823	613	0	35	881	
U. New Mexico	181	5,184	5,803	7,587	2,373	931	1,477	522	663	0	214	1,407	
Catholic U. of America	182	8,991	8,156	7,438	397	0	300	3,507	260	734	334	1,906	
Rochester Institute of Technology	183	7,530	7,817	7,285	63	8	5,124	268	0	0	1,548	274	
Loyola Marymount U.	184	7,383	6,745	7,270	265	59	3,834	763	2,160	0	37	152	
U. Idaho	185	3,259	3,405	7,208	884	131	1,976	460	572	0	473	2,712	
U. California, Merced	186	6,097	4,702	7,174	450	103	829	1,426	0	42	712	3,612	
U. Wisconsin-Milwaukee	187	6,083	6,317	7,142	81	342	1,025	2,850	0	1,059	121	1,664	
U. New Orleans	188	3,581	7,222	6,979	222	0	296	1,046	0	9	470	4,936	
Rowan U.	189	372	226	6,955	1,806	256	441	26	442	0	1,688	2,296	
Morgan State U.	190	1,740	4,304	6,783	815	662	3,534	284	0	662	32	794	
Howard U.	191	970	948	6,714	1,565	4,420	516	0	0	213	0	0	
DePaul U.	192	1,382	2,233	6,702	907	25	833	936	438	294	192	3,077	
East Carolina U.	193	9,609	8,709	6,633	2,964	33	1,493	1,162	0	227	65	689	
SUNY, Stony Brook U.	194	4,113	4,347	6,620	269	465	1,404	2,723	0	1,027	683	49	
U. Colorado Anschutz Medical Campus	195	1,328	2,142	6,448	0	0	426	151	0	209	0	5,662	
Bowling Green State U.	196	6,202	5,979	6,425	59	0	4,501	331	0	0	542	992	
New School	197	4,119	6,625	6,386	0	129	2,766	1,093	0	402	1,169	827	

TABLE 58

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2023 non-S&E fields: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023									
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec	
Tennessee State U.	198	181	i 187	6,366	0	0	1	8	0	23	71	6,263	
U. San Diego	199	3,806	5,029	6,364	1,379	150	1,719	368	1,731	0	146	871	
Oregon State U.	200	5,737	5,928	6,360	0	0	0	0	0	0	0	6,360	
Miami U.	201	2,093	6,144	6,148	1,421	225	1,005	673	0	74	522	2,228	
U. Colorado Denver	202	4,972	4,957	6,059	361	16	3,354	0	25	37	160	2,106	
Northern Illinois U.	203	5,904	6,348	6,047	445	264	838	0	0	0	344	4,156	
Louisiana Tech U.	204	6,637	5,207	6,008	3,613	162	1,401	288	0	0	475	69	
High Tech High Graduate School of Ed.	205	5,032	6,203	5,939	0	0	5,939	0	0	0	0	0	
Naval Postgraduate School	206	6,861	5,161	5,719	1,263	236	779	0	0	0	0	3,441	
Rice U.	207	6,601	5,892	5,578	716	0	2,578	1,669	0	0	227	388	
Towson U.	208	504	2,563	5,376	1,091	566	1,252	1,098	3	0	781	585	
U. Toledo	209	1,540	4,834	5,371	389	0	3,997	4	0	595	0	386	
Northwest Indian C.	210	3,958	i 4,841	5,338	i 0	i 69	i 5,269	i 0	i 0	i 0	i 0	i 0	
California Polytechnic State U., San Luis Obispo	211	3,412	4,155	5,277	3,090	50	1,419	699	0	0	0	19	
Old Dominion U.	212	3,854	4,982	5,230	709	0	3,921	317	0	0	116	167	
Naval War C.	213	4,748	4,600	5,019	0	0	0	0	0	0	0	5,019	
U. Tulsa	214	761	960	4,944	111	0	540	1,129	21	0	21	3,122	
Utah State U.	215	3,084	4,887	4,877	6	27	2,474	611	0	23	13	1,723	
U. San Francisco	216	368	578	4,831	1,522	288	700	2,082	0	0	41	198	
Tarleton State U.	217	3,041	3,262	4,801	1,798	219	1,554	429	503	0	0	298	
Rutgers, State U. New Jersey, Newark	218	3,602	5,039	4,689	2,343	0	383	243	685	3	121	911	
Claremont Graduate U.	219	3,954	5,562	4,564	2,709	0	1,855	0	0	0	0	0	
Case Western Reserve U.	220	1,935	1,156	4,423	1,299	0	2,267	0	223	0	0	634	
Texas A&M U.-Corpus Christi	221	3,430	4,023	4,371	13	2	1,410	98	0	0	6	2,842	
Worcester Polytechnic Institute	222	1,452	3,377	4,315	1,856	0	648	745	0	0	0	1,066	
California State U., Sacramento	223	3,627	3,407	4,298	931	0	2,724	258	0	116	116	153	
Marshall U.	224	2,065	2,710	4,175	1,177	0	1,312	475	0	0	0	1,211	
Southern Connecticut State U.	225	2,883	2,983	4,095	1,357	12	359	1,269	0	282	543	273	
Pacific U.	226	923	1,414	4,071	0	0	3,707	302	0	0	0	62	
Southern Illinois U., Carbondale	227	0	0	4,059	551	308	1,385	194	26	140	414	1,041	
Western U. of Health Sciences	228	1,090	1,986	3,983	0	0	3,983	0	0	0	0	0	
U. Missouri, Kansas City	229	2,099	1,972	3,963	1,372	10	919	276	152	3	191	1,040	
Winston-Salem State U.	230	1,233	4,758	3,941	0	0	422	0	0	0	0	3,519	

TABLE 58

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2023 non-S&E fields: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec
U. Hawaii, Manoa	231	3,076	3,355	3,850	59	525	1,143	131	75	856	1	1,060
U. Northern Colorado	232	850	906	3,844	773	173	1,988	0	0	0	780	130
Kean U.	233	3,145	1,341	3,785	748	81	734	724	80	153	300	965
U. Dayton	234	1,487	2,058	3,759	533	18	2,766	58	0	126	192	66
Sam Houston State U.	235	6,893	4,219	3,713	86	0	493	3	0	0	0	3,131
Prairie View A&M U.	236	2,715	3,068	3,664	15	0	696	500	2,236	0	0	217
Long Island U.	237	4,407	3,505	3,645	1,041	0	761	1,204	0	420	0	219
Lawrence Technological U.	238	1,091	2,102	3,632	3,471	0	0	0	0	0	0	161
Hofstra U.	239	2,438	2,981	3,538	966	240	607	725	665	0	331	4
Providence C.	240	11	ne	3,519	0	0	3,006	41	0	0	109	363
Pepperdine U.	241	1,091	1,082	3,468	1,135	230	879	655	359	0	146	64
Lehigh U.	242	2,161	3,407	3,390	103	10	2,793	221	0	0	0	263
Bryn Mawr C.	243	4,184	3,584	3,363	0	0	64	2,626	0	436	237	0
Nova Southeastern U.	244	328	3,403	3,313	1,096	168	478	129	1,270	0	31	141
Michigan Technological U.	245	3,208	3,104	3,294	1,906	0	125	848	0	0	415	0
U. of the District of Columbia	246	1,050	1,304	3,286	220	470	384	0	20	254	0	1,938
Ball State U.	247	2,564	2,528	3,271	1,022	336	381	204	0	152	151	1,025
U. South Dakota	248	4,646	4,182	3,251	451	142	322	512	627	348	475	374
Western Washington U.	249	2,405	3,312	3,158	69	92	1,689	933	0	0	292	83
Wesleyan U.	250	2,413	2,867	3,142	0	756	1,296	758	0	0	302	30
U. Baltimore	251	11,757	3,761	3,111	0	0	5	0	52	0	0	3,054
Northern Arizona U.	252	1,571	2,397	3,054	1,128	38	1,738	77	48	23	0	2
U. Rochester	253	2,197	2,541	3,020	120	0	1,702	70	0	0	17	1,111
Colorado School of Mines	254	1,979	7,540	3,007	83	0	2,225	6	0	0	0	693
Augusta U.	255	65	2,187	2,963	655	13	661	0	0	0	1,560	74
U. Oklahoma, Tulsa	256	3,753	4,006	2,961	0	0	2,227	0	0	557	0	177
Boise State U.	257	2,898	2,921	2,938	987	39	1,025	314	0	99	205	269
Middle Tennessee State U.	258	8,291	7,900	2,919	332	74	364	1,225	0	0	890	34
Duquesne U.	259	2,932	3,565	2,915	1,052	0	511	123	555	0	0	674
California State U., Long Beach	260	924	2,026	2,836	44	91	326	321	0	1,277	115	662
California State U., Bakersfield	261	1,645	2,119	2,819	391	0	1,920	145	25	76	60	202
Grinnell C.	262	1,993	3,026	2,811	0	0	346	1,628	0	0	627	210
Suffolk U.	263	1,408	1,022	2,754	928	0	0	6	1,820	0	0	0

TABLE 58

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2023 non-S&E fields: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023									
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec	
New Mexico Institute of Mining and Technology	264	258	2,373	2,702	185	0	0	4	0	0	0	2,513	
U. North Carolina, Asheville	264	1,695	2,241	2,702	69	3	724	277	0	805	0	824	
California State Polytechnic U., Pomona	266	133	909	2,688	0	5	439	0	0	0	0	2,244	
West Chester U. Pennsylvania	267	2,056	2,717	2,579	446	43	500	265	0	120	139	1,066	
Clarkson U.	268	1,253	2,338	2,577	794	150	536	59	0	1	1	1,036	
Eastern Michigan U.	269	2,391	3,516	2,537	665	63	583	479	112	307	310	18	
North Carolina Central U.	270	2,265	2,186	2,453	i 86	i 0	i 2,323	i 0	i 0	i 44	i 0	i 0	
Indiana U. Pennsylvania	271	2,931	2,243	2,441	965	224	255	812	59	0	7	119	
Erikson Institute	272	1,723	2,068	2,414	0	0	2,414	0	0	0	0	0	
La Sierra U.	273	1,511	2,165	2,405	i 144	i 1	i 1,215	i 467	i 0	i 0	i 98	i 480	
U. Tennessee, Chattanooga	274	1,812	2,294	2,401	1,966	18	180	115	0	0	6	116	
San Francisco State U.	275	2,886	2,558	2,352	232	179	876	57	7	202	361	438	
Sacred Heart U.	276	798	ne	2,342	971	78	423	2	0	325	91	452	
Texas A&M International U.	277	1,404	1,785	2,315	299	0	522	1	0	0	18	1,475	
Purdue U., Northwest	278	1,387	1,768	2,308	795	0	675	115	0	0	198	525	
Texas A&M U.-Commerce	279	1,796	1,381	2,287	177	36	886	65	0	22	105	996	
Winthrop U.	280	1,145	2,263	2,206	16	3	2,139	0	0	2	45	1	
U. Missouri, Saint Louis	281	3,148	3,068	2,154	201	14	914	112	0	326	6	581	
Pennsylvania State U., Harrisburg	282	286	1,095	2,136	426	0	1,316	4	0	390	0	0	
U. Ana G. Mendez, Gurabo	283	52	115	i 2,132	0	1,318	814	0	0	0	0	0	
Yeshiva U.	284	1,369	1,086	2,040	81	0	662	0	944	353	0	0	
Sul Ross State U.	285	1,193	i 1,615	i 2,037	0	0	1,038	0	0	0	0	999	
St. Cloud State U.	286	1,200	1,510	2,010	5	1	1,963	22	0	0	3	16	
New Mexico State U.	287	1,060	1,408	2,003	212	36	567	54	0	256	41	837	
CUNY, system office	288	0	40	1,978	0	0	46	0	0	0	0	1,932	
Seattle U.	289	1,053	816	1,906	471	81	536	141	503	68	71	35	
Hope C.	290	782	859	1,828	0	4	644	811	0	0	36	333	
Azusa Pacific U.	291	2,852	1,498	1,801	338	0	211	617	0	190	7	438	
U. Nebraska, Omaha	292	1,452	1,366	1,793	140	6	771	112	0	0	21	743	
Loyola U., Chicago	293	1,694	1,987	1,789	27	0	503	74	67	260	15	843	
Creighton U.	294	1,604	i 1,759	i 1,788	i 410	i 69	i 449	i 241	i 190	i 112	i 56	i 261	
Rutgers, State U. New Jersey, Camden	295	1,259	1,288	1,771	0	0	8	13	91	0	1,659	0	
Virginia State U.	296	1,339	2,174	1,766	1	0	1,435	0	0	0	0	330	

TABLE 58

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2023 non-S&E fields: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023									
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec	
Tennessee Technological U.	297	771	1,150	1,743	194	0	409	15	0	0	5	1,120	
Stevens Institute of Technology	298	2,073	1,575	1,738	497	0	1,012	229	0	0	0	0	
California State U., San Bernardino	299	3,608	3,608	1,703	16	8	1,255	38	0	10	12	364	
Norfolk State U.	300	8	359	1,686	0	131	945	0	0	0	0	610	
Saint Joseph's U.	301	1,524	1,732	1,660	781	7	839	28	0	0	5	0	
Fayetteville State U.	302	1,661	1,461	1,629	i 217	i 285	i 1,070	i 0	i 1	i 0	i 56	i 0	
CUNY, Baruch C.	303	224	934	1,626	56	39	10	301	0	0	23	1,197	
Swarthmore C.	304	900	1,342	1,621	0	0	240	476	0	0	867	38	
Williams C.	305	i 1,342	i 1,408	i 1,607	i 0	i 0	i 0	i 1,001	i 46	i 0	i 560	i 0	
Reed C.	306	i 1,450	i 1,397	i 1,596	i 0	i 0	i 0	i 1,596	i 0	i 0	i 0	i 0	
Texas Tech U., Health Sciences Center	307	1,016	1,613	1,566	0	0	1,441	0	0	0	0	125	
Pratt Institute	308	2,547	2,325	1,558	0	0	0	0	0	0	0	1,558	
U. Washington, Bothell	309	6,065	4,831	1,536	110	12	1,390	0	0	0	0	24	
U. Alaska, Fairbanks	310	2,034	1,856	1,535	32	47	996	3	0	0	0	457	
Hamilton C.	311	966	1,064	1,517	0	0	484	502	0	0	402	129	
U. Central Oklahoma	312	i 4,508	i 1,358	i 1,513	i 824	i 0	i 0	i 599	i 0	i 0	i 90	i 0	
Lewis and Clark C.	313	1,345	1,448	1,508	0	2	50	122	1,324	0	10	0	
Trinity C., Hartford	314	55	147	1,491	0	0	0	1,126	0	0	206	159	
U. Illinois, Springfield	315	326	799	1,490	1	0	256	39	0	0	0	1,194	
U. Massachusetts, Dartmouth	316	743	1,284	1,488	4	4	1,054	0	0	0	157	269	
Hartford International U. for Religion and Peace	317	ne	ne	1,485	0	0	0	1,485	0	0	0	0	
CUNY, Brooklyn C.	318	550	788	1,465	4	0	223	76	0	0	74	1,088	
U. Arkansas, Little Rock	319	501	796	1,460	31	0	681	4	566	0	0	178	
Texas A&M U.-Kingsville	320	2,298	1,593	1,451	11	0	1,312	4	0	1	0	123	
Babson C.	321	i 1,286	i 1,270	i 1,430	i 303	i 0	i 0	i 732	i 21	i 0	i 374	i 0	
Lipscomb U.	322	19	ne	1,427	392	0	819	169	0	0	0	47	
Seton Hall U.	323	4,317	4,535	1,396	127	84	699	41	423	22	0	0	
Wellesley C.	324	1,551	1,812	1,375	0	0	1,125	75	0	0	0	175	
Southern Illinois U., Edwardsville	325	4,441	959	1,370	39	0	0	432	19	0	291	589	
SUNY, C. of Environmental Science and Forestry	326	295	i 1,281	i 1,364	89	0	409	0	0	260	0	606	
Central Michigan U.	327	1,336	1,101	1,363	353	40	82	29	0	0	10	849	
Pace U.	328	1,303	1,370	1,361	180	0	919	26	168	0	0	68	
Texas Tech U., Health Sciences Center, El Paso	329	805	1,133	1,360	0	0	1,120	0	0	0	0	240	

TABLE 58

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2023 non-S&E fields: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec
U. Puerto Rico, Mayaguez	330	2,046	2,360	1,344	541	0	318	94	0	182	0	209
Texas Southern U.	331	1,248	1,544	1,315	0	0	0	0	0	0	0	1,315
Arcadia U.	332	604	ne	1,278	0	0	1,183	0	0	0	95	0
U. Colorado Colorado Springs	333	843	981	1,272	10	63	505	53	0	20	11	610
California State U., Northridge	334	1,353	1,914	1,264	152	0	886	34	192	0	0	0
Embry-Riddle Aeronautical U.	335	776	1,268	1,242	59	955	0	0	0	0	0	228
Franklin and Marshall C.	336	1,523	1,611	1,234	12	3	211	117	0	0	59	832
MGH Institute of Health Professions	337	537	1,177	1,226	0	0	1,226	0	0	0	0	0
Elon U.	338	1,111	865	1,225	403	222	124	265	0	0	189	22
U. South Alabama	339	1,110	1,571	1,214	0	0	1,209	0	0	0	5	0
U. Texas of the Permian Basin	340	1,236	1,203	1,208	133	31	770	270	0	0	4	0
Calvin U.	341	1,253 i	1,642 i	1,207 i	0 i	286 i	73 i	806 i	0 i	0 i	9 i	33 i
California State Polytechnic U., Humboldt	342	454	627	1,170	0	0	891	0	0	11	3	265
Johnson C. Smith U.	343	2,157 i	2,291	1,153	0	0	60	0	0	634	0	459
Amherst C.	344	410 i	723	1,098	0	0	0	903	0	0	195	0
Appalachian State U.	345	859	888	1,088	119	0	473	118	0	10	0	368
U. Alaska, Anchorage	346	742	1,399	1,083	105	0	487	0	0	214	0	277
South Carolina State U.	347	594 i	830 i	1,067	177	890	0	0	0	0	0	0
U. Houston-Downtown	348	834	937	1,060	0	63	930	0	0	0	0	67
C. Charleston	349	1,252	1,192	1,024	259	24	214	289	0	0	65	173
U. South Carolina, Aiken	350	48	639	1,010	15	1	10	984	0	0	0	0
Purdue U., Fort Wayne	351	1,178	771	1,006	69	0	79	89	0	0	19	750
U. Central Arkansas	352	2,051	1,057	992	30	0	916	33	0	0	5	8
Drake U.	353	704	792	967	0	0	590	0	357	0	0	20
Eastern Connecticut State U.	354	795	822	952	43	0	214	531	0	0	164	0
Colgate U.	355	499	952	939	0	0	69	778	0	0	92	0
South Dakota State U.	356	389	526	936	0	92	199	6	0	0	0	639
U. North Georgia	357	819	783	910	20	0	759	37	0	0	0	94
Fort Lewis C.	358	20	573	906	0	0	168	372	0	0	0	366
Smith C.	359	452	795	891	0	0	69	454	0	4	297	67
Jackson State U.	360	1,335	1,363	872	0	0	695	175	0	0	2	0
Roger Williams U.	361	384	467	858	138	0	261	0	54	184	15	206
Coastal Carolina U.	362	183	769	851	176	35	242	149	0	0	249	0

TABLE 58

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2023 non-S&E fields: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec
Stephen F. Austin State U.	362	684	777	851	9	0	393	74	0	200	36	139
Western Kentucky U.	364	852	617	840	130	42	191	151	0	241	75	10
East Stroudsburg U. Pennsylvania	365	ne	550	828	3	2	811	0	0	0	4	8
CUNY, C. Staten Island	366	134	347	820	9	0	26	17	25	0	26	717
U. Richmond	367	177	323	810	359	168	0	166	10	0	46	61
Lamar U.	368	1,580	1,082	808	291	51	353	63	0	0	4	46
Trinity U.	369	307	581	800	34	85	25	639	0	0	17	0
Alabama A&M U.	370	455 i	386 i	798 i	115 i	30 i	336 i	60 i	0 i	64 i	20 i	173 i
Colorado C.	371	4,781	2,119	797	0	8	43	377	0	0	369	0
Oakland U.	372	598	953	790	32	28	730	0	0	0	0	0
California State U., San Marcos	373	993	854	789	52	0	479	65	0	0	0	193
CUNY, New York City C. of Technology	374	338	431	781	9	19	27	33	0	0	3	690
CUNY, Queens C.	375	1,117	407	776	2	61	487	114	0	0	10	102
U. Washington, Tacoma	375	429	562	776	0	0	705	0	0	71	0	0
Santa Clara U.	377	352	659	774	34	1	519	71	130	0	0	19
CUNY, Lehman C.	378	1,213	719	770	4	0	244	27	0	0	7	488
Gallaudet U.	378	10	273	770	0	400	0	0	0	0	0	370
California State U., Los Angeles	380	490	519	769	0	0	641	5	0	0	0	123
California State U., Chico	381	575	606	766	0	0	517	0	0	128	0	121
California State U., Dominguez Hills	382	705	1,299	763	68	22	323	237	0	0	21	92
U. Nebraska, Kearney	383	334	813	748	0	405	214	8	0	0	8	113
U. Akron	384	593	494	747	111	47	59	105	192	49	77	107
U. Maryland Center for Environmental Science	384	879	904	747	0	0	747	0	0	0	0	0
U. Wisconsin-Oshkosh	384	224	501	747	12	21	416	93	0	0	171	34
Marymount U.	387	495	303	735	268	0	102	278	0	0	87	0
Texas A&M U.-San Antonio	387	ne	73	735	7	0	238	45	0	0	0	445
Bucknell U.	389	340	385	730	117	0	7	418	0	0	123	65
Delaware State U.	390	3,999	5,582	725	0	0	371	0	0	319	0	35
Willamette U.	391	1,007	945	724	72	4	0	78	321	0	2	247
Austin Peay State U.	392	657	758	710	0	0	9	0	0	0	651	50
Northwestern State U. Louisiana	393	419	614	685 i	225 i	261 i	125 i	0 i	0 i	6 i	61 i	7 i
U. Virginia's C. Wise	394	1,964	1,721	680	282	0	238	0	0	0	0	160
U. of Mary Washington	395	687	806	670	485	0	5	172	0	0	6	2

TABLE 58

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2023 non-S&E fields: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec
Southern U. and A&M C., Baton Rouge	396	1,044	671	662	0	0	20	592	0	0	0	50
Troy U.	397	154	246	658	62	0	375	0	0	85	0	136
Indiana State U.	398	365	426	654	5	0	639	0	0	0	0	10
Missouri U. of Science and Technology	399	2,768	2,115	651	0	50	182	22	0	0	0	397
Elizabeth City State U.	400	398	544	641	0	0	462	179	0	0	0	0
Sonoma State U.	401	79	318	640	0	5	601	33	0	0	0	1
Southeastern Louisiana U.	402	652	707	638	592	0	21	0	0	0	25	0
Bowie State U.	403	418	239	635	0	0	143	0	0	0	0	492
Biola U.	404	570 i	619	633	0	0	0	633	0	0	0	0
Fairfield U.	404	392	ne	633	244	27	60	254	0	16	32	0
Saginaw Valley State U.	406	42 i	546 i	606 i	52 i	11 i	398 i	45 i	93 i	0 i	7 i	0 i
U. North Carolina, Wilmington	406	1,605	2,419	606	248	0	245	0	0	0	24	89
California State U., Fresno	408	929	541	602	49	0	246	235	0	14	0	58
U. Michigan, Dearborn	409	298	414	592	217	0	78	61	0	0	0	236
Mercer U.	410	94	149	584	55	0	491	38	0	0	0	0
U. Minnesota, Duluth	411	491	425	582	206	0	81	31	0	17	52	195
Marian U., Indianapolis	412	ne	ne	581	0	0	520	61	0	0	0	0
Christopher Newport U.	413	283	385	574	101	150	0	183	0	0	140	0
U. Guam	414	454	773	573	0	0	573	0	0	0	0	0
Citadel Military C. South Carolina	415	557	868	571	17	22	498	0	0	0	0	34
West Texas A&M U.	416	906	694	570	0	0	533	0	0	0	0	37
Andrews U.	417	30	ne	568	0	2	5	561	0	0	0	0
Barnard C.	418	508	295	565	0	0	115	171	0	0	97	182
Pennsylvania State U., Behrend	419	407	479	547	146	0	222	173	0	3	3	0
Western Carolina U.	420	406	505	532	0	0	84	4	0	379	0	65
Bowdoin C.	421	305	358	530	0	0	259	161	0	0	57	53
Radford U.	422	ne	ne	528	64	0	207	20	0	4	15	218
Haverford C.	423	411 i	526 i	520 i	0 i	0 i	0 i	520 i	0 i	0 i	0 i	0 i
Indiana U., South Bend	423	184	ne	520	5	0	211	24	0	0	1	279
Colby C.	425	539	449	508	0	0	7	413	0	0	59	29
Mount Holyoke C.	426	181	244	506	0	56	117	203	0	0	77	53
Connecticut C.	427	0	192	488	0	0	0	213	0	0	0	275
Robert Morris U.	428	ne	433 i	486	273	30	111	26	0	0	37	9

TABLE 58

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2023 non-S&E fields: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec
U. Arkansas, Pine Bluff	429	0	0	482	0	0	0	256	0	226	0	0
Southern U., New Orleans	430	ne	ne	468	0	460	0	0	0	8	0	0
Saint John's U.	431	352 i	406 i	463 i	36 i	7 i	221 i	144 i	0 i	0 i	55 i	0 i
Northeastern Illinois U.	432	543	561	455	0	0	455	0	0	0	0	0
Claremont McKenna C.	433	311	348	442	0	0	0	442	0	0	0	0
C. of Saint Benedict	434	322 i	372 i	425 i	36 i	6 i	203 i	129 i	0 i	0 i	51 i	0 i
Grand Valley State U.	435	494	512	413	11	0	0	0	0	0	0	402
Nevada State C.	436	ne	0	404	0	0	404	0	0	0	0	0
Carleton C.	437	816	687	395 i	0 i	0 i	0 i	215 i	0 i	0 i	180 i	0 i
Northern Michigan U.	438	237	288	392	107	0	13	180	0	0	33	59
Pomona C.	439	268	262	386	0	31	13	171	0	0	171	0
Morehouse C.	440	431	608	379	201	0	0	0	0	0	175	3
Bentley U.	441	ne	286	377	0	0	376	0	0	0	0	1
Hampton U.	442	488	413	371	324	0	0	0	0	0	0	47
U. Wisconsin-La Crosse	443	154	164	360	110	3	0	81	0	0	27	139
U. Tennessee, Health Science Center	444	0	0	359	0	0	0	0	0	0	0	359
Dine C.	445	ne	0	356	0	0	306	0	0	0	0	50
Northern Kentucky U.	446	137	111	353	0	3	0	233	0	15	97	5
Minnesota State U., Mankato	447	136	40	344	10	0	0	82	0	0	0	252
Spelman C.	448	396	277	319	0	0	0	0	0	0	0	319
Black Hills State U.	449	76	80	317	8	0	289	0	0	0	0	20
Dillard U.	450	795	524	304	0	0	178	115	11	0	0	0
Texas Woman's U.	451	1,093	1,371	302	8	0	294	0	0	0	0	0
U. of St. Thomas (MN)	452	675	540	297	0	0	15	9	2	0	0	271
U. Hawaii, Maui C.	453	110	ne	295	0	0	295	0	0	0	0	0
Davidson C.	454	187	200	294	0	10	149	88	0	0	0	47
Idaho State U.	455	207	254	293	0	0	195	8	3	0	16	71
Northland C.	456	215 i	254 i	291 i	66 i	0 i	157 i	68 i	0 i	0 i	0 i	0 i
Lincoln U.	457	ne	ne	286	0	0	52	0	0	158	0	76
California Institute of Technology	458	16,133 i	30,663	279 i	0 i	0 i	0 i	279 i	0 i	0 i	0 i	0 i
Tougaloo C.	459	0 i	238 i	271 i	17 i	0 i	152 i	14 i	0 i	21 i	1 i	66 i
Wheaton C., Wheaton	460	51	ne	270	0	0	16	254	0	0	0	0
Central Connecticut State U.	461	307	204	268	22	0	171	64	0	5	6	0

TABLE 58

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2023 non-S&E fields: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec
U. of the Incarnate Word	462	87	275	267	36	0	0	0	0	0	0	231
U. California, Office of the President	463	386	72	265	0	0	0	0	0	0	0	265
Macalester C.	464	147	268	260	0	0	0	255	0	0	5	0
Western Illinois U.	464	138	145	260	0	0	157	0	0	0	0	103
Florida Polytechnic U.	466	103	159	258	258	0	0	0	0	0	0	0
Eastern Kentucky U.	467	89	ne	250	250	0	0	0	0	0	0	0
U. Wisconsin-Platteville	467	194 i	226 i	250 i	68 i	0 i	140 i	34 i	0 i	0 i	8 i	0 i
U. Texas, Tyler	469	165	261	249	36	5	178	0	0	0	0	30
Clark U.	470	181	243	246	0	0	184	0	0	0	0	62
SUNY, Geneseo	470	223	232	246	23	13	5	174	0	0	8	23
U.S. Military Academy	470	656	402	246	0	0	0	246	0	0	0	0
Abilene Christian U.	473	185	237	241	0	0	10	177	0	2	0	52
Florida Institute of Technology	473	957	778	241	174	0	7	0	0	0	0	60
Alabama State U.	475	0	32	240	0	155	0	0	0	0	0	85
St. John's U., New York	476	244	347	237	0	2	72	40	11	0	0	112
Middlebury C.	477	0	136	233	0	0	0	205	0	0	28	0
Teachers C., Columbia U.	477	32	57	233	0	0	233	0	0	0	0	0
U. Wisconsin-River Falls	479	162	ne	232	0	0	10	0	0	0	0	222
U. Northern Iowa	480	79	43	228	0	0	169	27	0	20	4	8
Union C., Schenectady	481	43	170	217	0	0	0	131	0	0	86	0
United Tribes Technical C.	482	ne	ne	216	0	0	216	0	0	0	0	0
Liberty U.	483	215	ne	215	44	52	0	113	0	0	0	6
Lafayette C.	484	156	256	213	0	0	0	126	0	0	36	51
Norwich U.	485	ne	ne	210	0	0	0	2	0	0	0	208
Clark Atlanta U.	486	180	12	207	0	0	199	0	0	8	0	0
U. Scranton	487	ne	ne	202	24	5	0	168	0	0	0	5
California State U., Channel Islands	488	79	85	201	6	0	99	36	0	0	2	58
U. Southern Maine	488	139	200	201	0	0	3	0	0	0	87	111
U. Wisconsin-Superior	490	4	14	198	0	0	0	0	0	0	0	198
Oberlin C.	491	74	ne	197	0	20	0	83	0	0	92	2
U. Wisconsin-Green Bay	492	127 i	197 i	195 i	37 i	8 i	66 i	22 i	0 i	12 i	0 i	50 i
C. Wooster	493	246 i	274	193	0	21	0	81	0	0	75	16
Illinois Institute of Technology	494	156	81	187	83	0	42	0	0	0	0	62

TABLE 58

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2023 non-S&E fields: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec
SUNY, Polytechnic Institute	495	124	161	180	0	0	0	180	0	0	0	0
U. Puerto Rico, Ponce	495	ne	ne	180	0	0	0	0	0	0	0	180
St. Olaf C.	497	89	ne	177	0	0	29	82	0	0	40	26
Gettysburg C.	498	ne	ne	176	0	0	0	137	0	0	39	0
Whitman C.	498	ne	169	176	0	0	0	156	0	0	20	0
Langston U.	500	255	233	174	0	0	73	0	0	57	0	44
U. South Carolina, Beaufort	500	ne	ne	174	5	0	0	164	0	0	0	5
Vassar C.	502	108	366	170	0	0	3	138	0	0	29	0
William Paterson U.	503	3,867	3,635	167	95	0	39	17	0	2	2	12
U. Detroit Mercy	504	156	94	156	8	3	0	48	0	0	0	97
Skidmore C.	505	66	129	152	42	0	1	0	0	11	52	46
U.S. Coast Guard Academy	505	ne	ne	152	0	0	0	66	0	0	0	86
Gustavus Adolphus C.	507	ne	ne	148	0	46	64	19	0	0	19	0
U. Houston-Clear Lake	508	317	88	147	0	0	75	2	0	0	0	70
Ithaca C.	509	64	91	145	0	11	20	16	0	0	29	69
Franklin W. Olin C. of Engineering	510	691	174	138	0	0	138	0	0	0	0	0
U. New Haven	510	54	147	138	39	0	99	0	0	0	0	0
California State U., Monterey Bay	512	38	61	129	0	1	5	0	0	87	28	8
Manhattan C.	512	342	323	129	0	0	113	0	0	0	16	0
CUNY, York C.	514	73	107	128	11	0	79	3	0	0	0	35
Virginia Military Institute	515	ne	60	127	0	0	0	127	0	0	0	0
Butler U.	516	ne	198	126	18	52	0	0	0	0	8	48
U.S. Air Force Academy	516	0	2	126	65	0	0	0	0	0	0	61
SUNY, Cobleskill	518	ne	0	125	125	0	0	0	0	0	0	0
Hobart and William Smith Colleges	519	55	144	117	3	7	13	51	0	0	29	14
U. Puget Sound	520	ne	62	116	0	0	0	4	0	0	2	110
Arkansas State U., Jonesboro	521	43	73	114	81	0	16	1	0	0	16	0
Des Moines U.	521	253	227	114	0	0	53	19	7	0	0	35
SUNY, Oswego	523	37	24	110	24	4	44	3	0	0	35	0
Monmouth U.	524	0	10	104	9	0	72	5	0	18	0	0
Grambling State U.	525	886	150	102	0	0	0	102	0	0	0	0
Bryant U.	526	ne	ne	101	86	0	0	10	0	0	5	0
U. Alaska, Southeast	527	0	0	99	0	0	99	0	0	0	0	0

TABLE 58

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2023 non-S&E fields: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec
Merrimack C.	528	ne	ne	95	6	2	12	11	0	0	0	64
Bates C.	529	43	91	82	0	0	40	10	0	0	32	0
Alaska Pacific U.	530	2	39	81	0	0	81	0	0	0	0	0
Occidental C.	531	64	71	80	0	0	80	0	0	0	0	0
Wright State U.	531	407	223	80	65	0	0	0	0	0	0	15
California State U., Stanislaus	533	29	83	76	0	0	0	33	0	8	33	2
Furman U.	534	655	33	74	0	0	68	0	0	0	0	6
New C. Florida	535	ne	ne	73	0	0	0	65	0	0	8	0
U. Wisconsin-Eau Claire	536	75	34	66	0	0	23	22	0	21	0	0
Ferris State U.	537	ne	ne	64	0	0	64	0	0	0	0	0
C. New Jersey	538	84	163	63	8	4	22	19	0	0	10	0
Pennsylvania State U., Altoona	539	ne	ne	62	0	0	0	62	0	0	0	0
Harvey Mudd C.	540	31	55	49	0	0	0	49	0	0	0	0
U. Hartford	540	5	35	49	0	14	0	26	0	0	9	0
Kenyon C.	542	ne	69	46	0	0	0	36	0	0	10	0
CUNY, Advanced Science Research Center	543	3	8	35	0	0	12	0	0	0	1	22
Central Washington U.	544	10	42	34	15	5	8	0	3	0	0	3
SUNY, Buffalo State U.	545	27	52	33	0	0	33	0	0	0	0	0
SUNY, C. Brockport	546	3	53	30	0	0	0	0	0	0	0	30
U. Louisiana, Monroe	546	63	41	30	0	0	0	0	0	0	0	30
Murray State U.	548	87	26	24	0	0	0	13	0	0	0	11
Xavier U. Louisiana	549	139	15	22	0	0	0	4	0	0	0	18
Northeast Ohio Medical U.	550	0	0	21	0	0	0	12	0	9	0	0
Thomas Jefferson U.	550	29	6	21	0	0	0	0	0	0	0	21
Lincoln Memorial U.	552	ne	ne	19	0	0	0	0	0	0	0	19
Oklahoma State U., Center for Health Sciences	552	6	61	19	19	0	0	0	0	0	0	0
Tuskegee U.	554	0	44	17	0	0	0	0	0	17	0	0
U. New England	555	5	23	16	6	0	0	10	0	0	0	0
Milwaukee School of Engineering	556	0	0	14	14	0	0	0	0	0	0	0
New Mexico Highlands U.	556	15	14	14	0	0	0	0	0	0	0	14
U. Hawaii, Hilo	556	32	46	14	0	0	0	14	0	0	0	0
Albany State U.	559	182	ne	12	0	0	12	0	0	0	0	0
New York Institute of Technology	559	76	78	12	0	0	12	0	0	0	0	0

TABLE 58

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2023 non-S&E fields: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023										
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec		
St. Mary's C. Maryland	559	ne	ne	12	0	0	12	0	0	0	0	0	0	
Framingham State U.	562	288 i	148 i	7	0	4	3	0	0	0	0	0	0	
Youngstown State U.	562	485	83	7	0	0	0	3	0	0	0	4	0	
Utah Valley U.	564	ne	45	6	0	0	0	6	0	0	0	0	0	
Loma Linda U.	565	241	19	5	5	0	0	0	0	0	0	0	0	
Touro U., New York ^d	565	ne	ne	5	0	0	0	0	0	0	0	0	5	
Hawaii Pacific U.	567	32	828	3	0	0	0	0	0	0	0	0	3	
Fisk U.	568	177	123	2	0	0	0	2	0	0	0	0	0	
West Virginia School of Osteopathic Medicine	568	10	2	2 i	0 i	0 i	2 i	0 i	0 i	0 i	0 i	0 i	0 i	
Lincoln U., Jefferson City	570	0	0	1 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	1 i	
All other surveyed institutions	-	61,081	54,577	0	0	0	0	0	0	0	0	0	0	

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified; S&E = science and engineering.

^a The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^b The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

^c Johns Hopkins University includes the Applied Physics Laboratory (APL), with zero imputed for total non-S&E R&D expenditures in FY 2023. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

^d Touro University, New York includes the Lovelace Biomedical Research Institute. In FY 2023, the Lovelace Biomedical Research Institute joined the Touro University System.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 59
Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2023 non-S&E fields: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec
All institutions	-	1,355,900	1,491,165	1,724,799	109,626	58,280	890,786	65,170	35,110	205,510	20,717	339,600
U. Virginia, Charlottesville	1	14,801	25,882	43,949	48	16	36,587	2,193	101	0	25	4,979
U. Kansas	2	30,542	35,791	40,003	317	660	23,649	879	0	13,384	425	689
U. Washington, Seattle	3	46,225	49,224	39,722	0	5,248	18,206	3,015	50	11,578	189	1,436
U. Texas, Austin	4	24,298	29,763	39,549	1,598	2,036	21,143	538	0	7,489	40	6,705
U. North Carolina, Chapel Hill	5	20,850	30,311	35,576	835	279	8,381	280	16	11,815	139	13,831
Arizona State U.	6	17,666	20,599	35,314	3,607	201	20,481	682	70	7,487	2,786	0
Florida State U.	7	22,599	24,597	31,072	0	1,703	28,235	225	0	686	43	180
Ohio State U.	8	35,971	42,579	30,212	303	45	13,777	649	73	5,369	327	9,669
U. California, San Diego	9	27,633	12,527	29,890	3,271	319	8,746	899	0	0	93	16,562
Columbia U. in the City of New York	10	27,114	28,963	29,703	557	0	8,347	187	408	19,614	0	590
U. Missouri, Columbia	11	18,506	20,709	28,754	116	76	19,204	214	186	325	0	8,633
U. Maryland ^a	12	19,989	19,789	27,044	1,076	296	8,297	294	226	13,073	0	3,782
Washington State U.	13	17,081	23,985	26,619	4,045	1,515	19,407	616	0	569	2	465
Stanford U.	14	26,065	24,794	26,395	57	540	25,611	43	136	0	0	8
U. South Florida	15	24,086	19,061	25,518	383	189	24,041	225	0	190	63	427
Washington U., Saint Louis	16	17,410	19,218	25,299	0	0	0	231	6	25,054	0	8
Vanderbilt U. and Vanderbilt U. Medical Center	17	19,390	21,318	25,137	0	0	24,885	21	9	0	11	211
U. Wisconsin-Madison	18	15,444	19,870	23,837	0	1,608	19,805	1,276	204	21	0	923
U. Louisiana, Lafayette	19	17,648	20,572	22,635	7,971	0	9,503	4,787	0	0	125	249
Texas A&M U., College Station and Health Science Center	20	15,927	20,456	22,569	827	0	18,190	573	9	0	0	2,970
Virginia Commonwealth U.	21	19,474	21,941	22,076	0	14	20,288	276	0	441	8	1,049
U. Pennsylvania	22	16,017	19,812	21,371	912	6,956	5,428	1,281	980	0	332	5,482
Texas State U.	23	15,180	20,181	21,115	0	0	5,619	260	14,575	0	0	661
U. Southern California	24	15,153	18,166	19,884	512	438	3,033	152	179	5,111	3,169	7,290
New York U.	25	12,475	15,767	19,638	307	0	12,518	39	620	3,037	36	3,081
U. Florida	26	18,722	17,766	19,340	2,305	720	12,693	249	46	0	570	2,757
Purdue U., West Lafayette	27	17,615	17,765	18,608	1,150	533	4,534	141	0	0	21	12,229
U. California, Los Angeles	28	14,850	20,027	18,369	2,152	378	14,802	144	131	0	667	95
Georgia State U.	29	18,398	16,205	17,965	638	1,945	12,034	234	37	1,914	0	1,163
Georgia Institute of Technology	30	14,134	13,768	16,872	324	2,499	11,590	361	10	0	574	1,514
U. Illinois, Urbana-Champaign	31	12,238	13,675	16,184	692	35	3,356	268	24	2,365	135	9,309
U. California, Irvine	32	17,136	14,611	16,109	156	0	15,641	182	125	0	5	0

TABLE 59
Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2023 non-S&E fields: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec
Michigan State U.	33	10,275	12,202	15,909	1,640	2,219	8,746	913	0	1,035	30	1,326
Pennsylvania State U., University Park and Hershey Medical Center	34	16,343	16,991	15,458	3,066	794	8,832	1,089	809	836	32	0
U. Colorado Boulder	35	15,435	15,952	15,430	1,334	765	11,686	205	0	105	0	1,335
Virginia Polytechnic Institute and State U.	36	2,442	9,161	14,747	223	86	1,443	73	0	0	0	12,922
U. Oklahoma, Norman and Health Science Center	37	12,251	13,473	14,411	174	140	12,463	15	0	432	6	1,181
U. Oregon	38	13,625	14,397	14,287	17	582	11,087	105	30	0	36	2,430
U. North Carolina, Greensboro	39	12,066	14,360	13,862	57	0	12,127	131	0	643	0	904
U. Denver	40	9,902	10,496	13,229	0	28	3,514	46	0	9,527	0	114
Florida A&M U.	41	5,092	5,534	12,405	399	0	2,640	0	576	0	0	8,790
U. Notre Dame	42	4,986	6,852	12,163	70	0	0	404	134	0	34	11,521
U. California, Berkeley	43	6,331	9,024	11,675	2,057	867	7,137	448	1,128	0	0	38
Louisiana State U., Baton Rouge	44	5,193	2,794	11,613	0	136	411	14	0	628	2,600	7,824
Montana State U., Bozeman	45	8,284	9,710	11,445	136	0	1,887	1	0	0	0	9,421
U. Utah	46	10,897	8,505	11,358	166	1,736	1,377	41	15	0	977	7,046
Rutgers, State U. New Jersey, New Brunswick	47	6,982	8,213	11,047	2,371	485	3,721	532	0	2,353	19	1,566
Harvard U.	48	7,279	8,186	10,734	0	0	8,183	2,284	267	0	0	0
Boston U.	49	5,758	6,951	10,662	209	0	7,883	15	15	2,540	0	0
Clemson U.	50	6,152	10,391	10,329	3	182	3,418	46	0	0	0	6,680
U. Michigan, Ann Arbor	51	8,958	9,046	10,014	377	0	5,880	352	0	3,165	114	126
U. West Florida	52	9,624	11,381	9,796	8,825	0	971	0	0	0	0	0
U. Alabama, Tuscaloosa	53	7,491	8,283	9,417	1,114	47	4,520	18	0	3,565	0	153
U. Minnesota, Twin Cities	54	8,249	9,022	9,355	456	58	7,049	719	269	558	0	246
U. Massachusetts, Boston	55	8,735	8,308	9,345	0	0	9,086	0	0	0	259	0
Syracuse U.	56	4,846	5,487	9,160	3,900	534	265	38	2,844	422	0	1,157
U. Georgia	57	3,604	5,838	8,973	267	414	2,486	77	39	4,265	0	1,425
Colorado State U., Fort Collins	58	7,834	6,723	8,534	19	180	4,842	2,570	307	196	221	199
San Diego State U.	59	3,086	4,624	8,223	676	48	3,748	83	0	3,065	0	603
U. Illinois, Chicago	60	7,809	8,085	8,139	93	0	2,558	2,234	0	920	6	2,328
Indiana U., Bloomington	61	5,735	7,113	7,735	144	263	3,444	322	0	0	107	3,455
Drexel U.	62	5,319	6,305	7,697	24	0	2,281	250	0	0	20	5,122
Temple U.	63	7,215	5,177	7,356	2,387	1	2,150	1	464	795	25	1,533
Northeastern U.	64	4,780	5,771	7,150	479	275	3,515	324	942	0	667	948
Boston C.	65	5,519	5,720	7,027	0	0	3,491	0	0	3,536	0	0

TABLE 59
Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2023 non-S&E fields: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec
American U.	66	3,012	4,407	6,843	331	835	741	0	1,161	0	0	3,775
Florida Gulf Coast U.	67	2,057	2,474	6,802	748	0	4,155	4	0	0	0	1,895
Portland State U.	68	5,745	5,746	6,539	0	0	2,323	0	0	1,264	0	2,952
Illinois State U.	69	4,593	2,876	6,503	0	10	6,185	27	0	0	0	281
U. Arkansas, Fayetteville	70	2,860	3,164	6,479	104	0	1,887	0	35	944	3	3,506
California State U., East Bay	71	1,858	6,615	6,407	0	0	6,309	0	0	98	0	0
U. South Carolina, Columbia	72	5,702	5,779	6,281	474	63	2,208	188	38	856	7	2,447
U. California, Davis	73	4,488	5,429	6,266	1	416	3,345	105	0	0	2,399	0
U. Chicago	74	4,177	7,350	6,172	611	0	1,745	423	0	3,353	40	0
Oregon State U.	75	5,648	5,865	6,099	0	0	0	0	0	0	0	6,099
U. Iowa	76	5,148	6,812	6,085	910	352	1,702	2,686	223	206	0	6
Cornell U.	77	4,358	4,677	5,983	48	1,864	417	266	137	0	23	3,228
Florida International U.	78	4,839	4,517	5,957	3,237	0	2,499	168	0	0	50	3
Howard U.	79	536	635	5,891	1,186	4,129	516	0	0	60	0	0
U. Delaware	80	5,060	5,401	5,879	856	461	4,381	91	0	0	0	90
U. Houston	81	4,255	5,608	5,737	0	102	2,853	100	34	2,421	0	227
U. Central Florida	82	6,711	7,494	5,614	130	7	3,911	0	38	995	0	533
Yale U.	83	6,126	3,226	5,542	128	0	4,517	722	0	0	69	106
Naval Postgraduate School	84	5,489	4,316	5,289	933	236	679	0	0	0	0	3,441
Naval War C.	85	4,748	4,600	5,019	0	0	0	0	0	0	0	5,019
U. Connecticut	86	2,604	3,401	4,999	25	30	1,635	153	0	2,644	48	464
U. Nebraska, Lincoln and Medical Center ^b	87	na	na	4,809	103	7	2,448	794	15	0	23	1,419
North Carolina State U.	88	4,934	5,423	4,781	0	0	2,161	2,620	0	0	0	0
U. North Dakota	89	1,721	2,549	4,772	0	790	2,718	10	0	8	0	1,246
Rochester Institute of Technology	90	3,484	4,953	4,760	0	0	4,049	107	0	0	569	35
Massachusetts Institute of Technology	91	3,434	3,211	4,716	1,805	0	737	242	0	0	14	1,918
Iowa State U.	92	8,657	8,013	4,690	989	157	735	754	0	0	546	1,509
Morgan State U.	93	1,112	3,931	4,688	191	62	3,303	117	0	501	0	514
U. Pittsburgh, Pittsburgh	94	5,243	4,480	4,622	306	0	2,491	0	6	539	22	1,258
U. Kentucky	95	2,137	3,700	4,513	1,040	91	585	0	0	1,344	0	1,453
Northwestern U.	96	3,100	3,608	4,440	1,160	984	1,902	177	217	0	0	0
U. North Florida	97	5,350	4,449	4,413	1,270	0	3,100	0	0	0	0	43
Salisbury U.	98	2,855	3,265	4,391	629	0	2,041	39	0	1,348	0	334

TABLE 59
Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2023 non-S&E fields: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec
U. Montana, Missoula	99	3,846	4,961	4,374	21	108	877	0	0	2,857	0	511
U. Tennessee, Knoxville	100	2,129	3,607	4,326	300	1,532	1,368	33	0	101	0	992
George Mason U.	101	3,802	5,963	4,317	719	63	3,037	498	0	0	0	0
Wayne State U.	102	6,268	4,360	4,214	0	0	69	46	8	2,919	0	1,172
SUNY, U. Buffalo	103	3,033	3,672	4,206	44	429	3,387	304	0	12	30	0
U. Arizona	104	2,630	3,005	4,184	35	3	2,817	219	337	0	11	762
U. Massachusetts, Amherst	105	4,203	5,446	4,050	32	80	2,211	104	15	0	15	1,593
Kansas State U.	106	2,849	3,312	4,049	37	0	1,831	42	0	0	0	2,139
U. Memphis	107	4,040	3,657	4,040	29	0	1,513	0	0	248	0	2,250
George Washington U.	108	2,874	2,495	4,026	691	0	901	84	480	0	0	1,870
Southern Methodist U.	109	3,083	2,882	3,994	0	0	3,994	0	0	0	0	0
Mississippi State U.	110	2,221	3,427	3,992	3,419	0	28	0	67	0	0	478
Winston-Salem State U.	111	651	4,461	3,906	0	0	420	0	0	0	0	3,486
U. Colorado Denver	112	2,808	2,423	3,894	361	0	2,333	0	0	0	160	1,040
West Virginia U.	113	4,085	3,273	3,834	341	212	1,065	23	0	84	2	2,107
Northwest Indian C.	114	3,021	3,507	3,749	0	69	3,680	0	0	0	0	0
Auburn U., Auburn	115	771	3,220	3,748	0	0	607	242	0	0	0	2,899
Pacific U.	116	544	769	3,672	0	0	3,513	157	0	0	0	2
U. Rhode Island	117	1,931	3,072	3,606	699	616	560	603	0	464	0	664
U. Cincinnati	118	2,686	3,071	3,544	129	0	2,368	88	0	0	0	959
U. Texas, Arlington	119	2,812	3,083	3,505	126	0	939	49	0	1,065	0	1,326
U. Mississippi	120	2,831	3,168	3,492	40	3	857	2	925	0	0	1,665
North Carolina A&T State U.	121	3,920	4,297	3,415	979	0	0	0	0	292	0	2,144
Western Michigan U. and Homer Stryker M.D. School of Medicine	122	6,091	5,159	3,395	0	0	3,395	0	0	0	0	0
U. Texas, San Antonio	123	1,775	3,309	3,358	29	13	1,532	1	0	930	22	831
Johns Hopkins U. ^C	124	2,121	3,641	3,286	0	0	0	3,286	0	0	0	0
U. Toledo	125	190	2,929	3,264	156	0	2,723	3	0	300	0	82
U. North Texas, Denton	126	1,892	1,257	3,127	560	0	1,074	0	0	0	90	1,403
U. Baltimore	127	10,844	3,761	3,079	0	0	0	0	25	0	0	3,054
William & Mary	128	5,395	5,751	3,070	216	0	2,347	20	450	0	10	27
U. North Carolina, Charlotte	129	1,341	1,906	3,062	173	0	1,632	257	0	360	16	624
Rensselaer Polytechnic Institute	130	2,629	1,655	2,945	990	0	0	0	0	0	0	1,955
Providence C.	131	0	ne	2,940	0	0	2,801	0	0	0	7	132

TABLE 59
Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2023 non-S&E fields: FYs 2021–23 and by subfield for FY 2023
 (Dollars in thousands)

Institution	Rank	2021	2022	2023								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec
U. of the District of Columbia	132	1,050	1,304	2,834	220	470	256	0	0	0	0	1,888
Utah State U.	133	1,234	2,009	2,784	0	0	1,256	387	0	0	0	1,141
U. Southern Mississippi	134	1,323	2,113	2,721	101	0	226	498	0	0	0	1,896
U. California, Merced	135	1,641	2,003	2,583	51	57	349	11	0	6	0	2,109
Lehigh U.	136	1,568	2,726	2,567	91	0	2,397	71	0	0	0	8
U. New Mexico	137	2,625	2,787	2,565	382	0	1,145	46	28	0	60	904
Oklahoma State U., Stillwater	138	2,185	2,801	2,540	498	41	662	163	0	0	0	1,176
U. Nevada, Las Vegas	138	1,414	1,623	2,540	10	27	1,976	1	0	12	0	514
Case Western Reserve U.	140	780	821	2,535	266	0	2,048	0	221	0	0	0
Old Dominion U.	141	2,356	2,380	2,491	20	0	2,369	102	0	0	0	0
U. Texas, El Paso	142	1,545	2,096	2,483	52	4	1,647	134	0	511	10	125
Texas Tech U.	143	1,809	2,122	2,478	1,064	324	606	249	0	0	37	198
U. Dayton	144	966	1,308	2,437	0	0	2,283	0	0	0	113	41
Bowling Green State U.	145	2,074	2,481	2,434	0	0	2,023	4	0	0	0	407
California State Polytechnic U., Pomona	146	129	764	2,415	0	0	275	0	0	0	0	2,140
U. Maine	147	1,999	2,185	2,406	135	0	266	340	0	91	0	1,574
Wichita State U.	148	4,940	1,610	2,365	7	0	15	227	0	0	0	2,116
U. Louisville	149	5,251	2,735	2,363	0	297	704	0	0	1,362	0	0
Indiana U.-Purdue U., Indianapolis	150	1,749	2,184	2,351	115	31	599	0	0	985	0	621
Brown U.	151	3,272	2,168	2,252	0	0	1,812	179	0	0	0	261
New Mexico Institute of Mining and Technology	152	258	2,024	2,246	178	0	0	4	0	0	0	2,064
Saint Louis U.	153	783	545	2,217	0	205	1,221	368	117	306	0	0
U. New Hampshire	154	3,744	2,681	2,212	198	0	1,661	155	0	184	0	14
U. Maryland, Baltimore County	155	1,565	2,032	2,186	298	140	1,669	67	0	0	0	12
SUNY, Binghamton U.	156	1,213	1,475	2,185	496	0	671	0	0	0	0	1,018
Cleveland State U.	157	564	881	2,174	0	0	1,071	0	6	1,089	0	8
U. Ana G. Mendez, Gurabo	158	0	115	2,132	0	1,318	814	0	0	0	0	0
U. California, Riverside	159	1,702	1,481	2,098	0	0	1,769	282	0	0	47	0
CUNY, John Jay C. of Criminal Justice	160	2,769	1,615	2,059	0	0	0	23	2,036	0	0	0
SUNY, Stony Brook U.	161	1,420	1,942	2,029	4	145	191	736	0	943	0	10
U. Massachusetts, Lowell	162	1,209	1,973	2,027	99	0	0	169	0	0	0	1,759
Western U. of Health Sciences	163	600	929	2,023	0	0	2,023	0	0	0	0	0
Texas A&M U.-Corpus Christi	164	1,185	1,607	1,943	0	0	1,118	62	0	0	1	762

TABLE 59
Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2023 non-S&E fields: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec
Kent State U.	165	1,559	1,967	1,918	0	0	1,113	0	0	0	0	805
U. California, Santa Barbara	166	2,965	1,547	1,906	268	122	1,268	248	0	0	0	0
U. Rochester	167	1,221	2,201	1,881	95	0	1,661	0	0	0	11	114
Winthrop U.	168	816	1,914	1,847	0	0	1,846	0	0	0	0	1
U. Wisconsin-Milwaukee	169	453	555	1,722	0	0	495	0	0	261	2	964
East Carolina U.	170	3,180	2,835	1,714	146	0	872	489	0	35	0	172
U. Hawaii, Manoa	171	819	1,051	1,670	0	372	60	0	0	495	0	743
Kennesaw State U.	172	542	537	1,653	3	0	799	841	0	0	10	0
Worcester Polytechnic Institute	173	964	1,452	1,635	769	0	306	0	0	0	0	560
U. Alabama, Birmingham	174	2,081	2,556	1,620	0	0	709	0	0	0	0	911
Boise State U.	175	1,304	1,456	1,581	613	0	703	87	0	0	0	178
California State U., Bakersfield	176	660	990	1,558	34	0	1,524	0	0	0	0	0
U. Alaska, Fairbanks	177	1,982	1,813	1,496	32	8	996	3	0	0	0	457
Duke U.	178	1,586	1,587	1,437	454	0	26	153	411	0	53	340
Montclair State U.	179	1,330	1,272	1,416	0	0	621	292	0	0	0	503
U. Idaho	180	1,715	1,579	1,388	0	0	1,159	0	0	0	0	229
Miami U.	181	558	1,130	1,387	567	166	102	0	0	28	130	394
CUNY, Hunter C.	182	1,891	2,202	1,378	0	0	1,290	40	0	1	17	30
Rice U.	182	2,534	3,038	1,378	42	0	1,151	105	0	0	47	33
San Jose State U.	184	1,021	1,496	1,371	1,246	0	36	0	0	54	0	35
Northern Arizona U.	185	854	1,528	1,356	0	38	1,295	0	0	23	0	0
Loyola Marymount U.	186	831	1,038	1,344	0	0	1,057	161	0	0	0	126
California Polytechnic State U., San Luis Obispo	187	378	912	1,320	0	17	1,130	173	0	0	0	0
Fordham U.	188	963	1,472	1,316	0	24	399	60	79	754	0	0
New Jersey Institute of Technology	189	5,197	4,137	1,294	295	0	317	156	0	0	0	526
North Carolina Central U.	190	845	1,148	1,272	0	0	1,228	0	0	44	0	0
Emory U.	191	931	1,047	1,269	90	129	551	87	168	0	88	156
Florida Atlantic U.	192	1,031	924	1,252	13	0	308	0	0	61	0	870
Erikson Institute	193	772	815	1,245	0	0	1,245	0	0	0	0	0
California State U., San Bernardino	194	2,604	2,362	1,232	0	0	876	0	0	0	0	356
Rutgers, State U. New Jersey, Newark	195	1,390	1,458	1,220	1,198	0	0	22	0	0	0	0
Sul Ross State U.	196	637	911	1,185	0	0	1,038	0	0	0	0	147
Brigham Young U., Provo	197	1,825	1,792	1,176	60	0	404	602	0	0	0	110

TABLE 59
Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2023 non-S&E fields: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec
U. Miami	197	369	846	1,176	0	100	809	267	0	0	0	0
CUNY, system office	199	0	34	1,173	0	0	0	0	0	0	0	1,173
Norfolk State U.	200	0	316	1,136	0	126	768	0	0	0	0	242
Embry-Riddle Aeronautical U.	201	601	1,164	1,132	20	955	0	0	0	0	0	157
Pennsylvania State U., Harrisburg	202	19	677	1,125	0	0	1,125	0	0	0	0	0
SUNY, U. Albany	203	947	1,021	1,111	450	0	582	5	0	15	0	59
U. Puerto Rico, Mayaguez	203	390	2,300	1,111	521	0	318	94	0	178	0	0
Johnson C. Smith U.	205	1,644	1,498	1,105	0	0	60	0	0	634	0	411
U. California, Santa Cruz	206	376	648	1,094	0	0	811	231	0	0	52	0
Texas A&M U.-Kingsville	207	1,443	1,391	1,089	0	0	1,089	0	0	0	0	0
Wesleyan U.	208	580	877	1,087	0	113	974	0	0	0	0	0
U. Washington, Bothell	209	1,053	864	1,083	45	0	1,038	0	0	0	0	0
La Sierra U.	210	812	972	1,066	0	0	1,066	0	0	0	0	0
U. South Alabama	211	834	1,176	1,065	0	0	1,065	0	0	0	0	0
U. Texas Rio Grande Valley	212	663	584	1,062	26	0	779	0	0	87	0	170
Lawrence Technological U.	213	32	521	1,057	1,013	0	0	0	0	0	0	44
Texas Southern U.	214	610	782	1,041	0	0	0	0	0	0	0	1,041
U. Nevada, Reno	215	1,006	727	1,040	93	0	783	8	40	116	0	0
U. Arkansas, Little Rock	216	501	632	1,004	0	0	681	0	145	0	0	178
U. Missouri, Kansas City	217	419	563	993	31	0	174	75	0	0	0	713
Louisiana Tech U.	218	194	166	984	396	0	588	0	0	0	0	0
Tennessee State U.	219	0	0	980	0	0	0	0	0	0	0	980
Catholic U. of America	220	242	159	975	0	0	55	39	93	570	0	218
California State U., Sacramento	221	1,263	762	970	0	0	872	9	0	9	0	80
Villanova U.	221	721	885	970	0	0	0	100	54	0	0	816
Princeton U.	223	570	885	963	0	9	0	801	0	0	0	153
Southern Illinois U., Edwardsville	224	1,044	621	958	39	0	0	309	19	0	219	372
U. Massachusetts, Dartmouth	225	597	923	939	0	4	935	0	0	0	0	0
Pace U.	226	1,014	1,062	904	0	0	904	0	0	0	0	0
DePaul U.	227	52	673	891	0	0	779	0	0	40	0	72
Tufts U.	228	1,587	1,414	879	0	0	566	72	0	0	0	241
Virginia State U.	229	855	1,364	873	0	0	546	0	0	0	0	327
North Dakota State U.	230	5,177	1,089	860	0	37	449	0	0	0	0	374

TABLE 59
Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2023 non-S&E fields: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec
U. Vermont	231	436	336	855	0	201	554	0	0	0	0	100
U. Colorado Colorado Springs	232	261	739	845	0	0	308	0	0	0	0	537
Western Washington U.	233	327	687	817	0	17	800	0	0	0	0	0
East Stroudsburg U. Pennsylvania	234	ne	470	809	0	0	809	0	0	0	0	0
Claremont Graduate U.	235	526	961	805	0	0	805	0	0	0	0	0
CUNY, Graduate Center	236	245	1,246	799	0	0	607	190	0	2	0	0
U. Alabama, Huntsville	237	530	617	797	330	2	351	112	1	0	1	0
Arcadia U.	238	193	ne	754	0	0	754	0	0	0	0	0
U. Houston-Downtown	239	665	558	750	0	0	750	0	0	0	0	0
U. Maryland Center for Environmental Science	240	830	869	747	0	0	747	0	0	0	0	0
U. Colorado Anschutz Medical Campus	241	668	497	746	0	0	0	0	0	209	0	537
California State U., Los Angeles	242	410	459	744	0	0	641	5	0	0	0	98
California State U., Northridge	243	626	854	737	152	0	467	23	95	0	0	0
California State U., San Marcos	244	905	793	729	14	0	479	65	0	0	0	171
Kean U.	244	120	327	729	133	0	341	18	0	2	0	235
Tulane U.	246	385	554	719	0	0	0	0	0	0	0	719
U. Oklahoma, Tulsa	247	586	706	679	0	0	448	0	0	231	0	0
Fayetteville State U.	248	1,009	607	673	0	0	673	0	0	0	0	0
Loyola U., Chicago	249	969	967	666	0	0	195	0	57	134	0	280
Suffolk U.	250	0	0	660	0	0	0	0	660	0	0	0
Texas Tech U., Health Sciences Center, El Paso	251	265	588	658	0	0	653	0	0	0	0	5
CUNY, New York City C. of Technology	252	313	386	649	0	0	0	0	0	0	0	649
Texas A&M U.-Commerce	253	198	282	647	3	0	425	0	0	0	0	219
Drake U.	254	645	686	630	0	0	590	0	20	0	0	20
Carnegie Mellon U.	255	250	126	621	0	0	528	81	0	0	0	12
U. Illinois, Springfield	256	15	329	617	0	0	5	18	0	0	0	594
Dartmouth C. and Dartmouth Hitchcock Medical Center	257	886	824	613	233	0	0	273	0	0	106	1
Marquette U.	258	448	433	609	0	0	47	0	0	0	0	562
Marshall U.	259	332	494	605	10	0	595	0	0	0	0	0
Gallaudet U.	260	10	273	597	0	335	0	0	0	0	0	262
U. Washington, Tacoma	261	329	222	575	0	0	575	0	0	0	0	0
Duquesne U.	262	585	747	574	481	0	7	0	0	0	0	86
U. Guam	263	454	763	573	0	0	573	0	0	0	0	0

TABLE 59
Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2023 non-S&E fields: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec
Texas A&M U.-San Antonio	264	ne	0	572	0	0	120	7	0	0	0	445
Fort Lewis C.	265	16	537	571	0	0	168	38	0	0	0	365
Santa Clara U.	266	174	411	568	34	0	519	0	0	0	0	15
U. North Carolina, Asheville	267	547	547	559	69	0	338	40	0	0	0	112
Purdue U., Northwest	268	115	550	550	0	0	180	0	0	0	99	271
U. Texas, Dallas	269	471	633	547	58	0	458	31	0	0	0	0
U. Alaska, Anchorage	270	227	440	544	0	0	409	0	0	61	0	74
Hope C.	271	35	223	542	0	0	540	0	0	0	2	0
Elizabeth City State U.	272	337	517	537	0	0	462	75	0	0	0	0
Middle Tennessee State U.	273	52	259	524	45	0	213	241	0	0	0	25
Hofstra U.	274	306	298	518	0	0	518	0	0	0	0	0
California State U., Chico	275	552	587	517	0	0	517	0	0	0	0	0
Indiana State U.	276	290	315	516	0	0	516	0	0	0	0	0
Jackson State U.	277	1,099	784	509	0	0	507	0	0	0	2	0
CUNY, City C.	278	118	568	501	0	0	32	0	289	0	0	180
South Dakota State U.	279	102	191	498	0	35	199	1	0	0	0	263
U. New Orleans	279	108	2,506	498	60	0	0	39	0	0	0	399
Northern Illinois U.	281	66	115	497	0	163	238	0	0	0	60	36
St. Cloud State U.	282	304	311	493	0	0	493	0	0	0	0	0
Bowie State U.	283	418	239	492	0	0	0	0	0	0	0	492
Ball State U.	284	370	667	484	0	29	121	0	0	52	0	282
Saint Joseph's U.	284	506	398	484	0	0	484	0	0	0	0	0
Sonoma State U.	286	0	159	480	0	0	480	0	0	0	0	0
U. Nebraska, Omaha	286	554	168	480	46	0	409	3	0	0	0	22
Colorado School of Mines	288	1,874	682	478	0	0	71	0	0	0	0	407
Stevens Institute of Technology	289	1,373	789	462	242	0	220	0	0	0	0	0
Alabama A&M U.	290	280 i	347 i	458 i	37 i	12 i	249 i	16 i	0 i	46 i	3 i	95 i
Northeastern Illinois U.	291	543	561	455	0	0	455	0	0	0	0	0
Roger Williams U.	292	230	369	451	50	0	256	0	49	0	0	96
Chapman U.	293	693	644	440	6	0	31	0	66	0	0	337
U. Tulsa	294	352	328	433	0	0	123	92	12	0	0	206
Saginaw Valley State U.	295	0 i	401 i	428 i	15 i	5 i	346 i	22 i	37 i	0 i	3 i	0 i
Western Carolina U.	296	72	265	421	0	0	42	0	0	379	0	0

TABLE 59
Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2023 non-S&E fields: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec
U. Arkansas, Pine Bluff	297	0	0	419	0	0	0	193	0	226	0	0
California State U., Long Beach	298	329	607	417	0	65	292	17	0	24	0	19
New Mexico State U.	298	464	341	417	115	0	190	0	0	0	0	112
Sam Houston State U.	300	3,160	1,720	416	0	0	182	0	0	0	0	234
Nevada State C.	301	ne	0	404	0	0	404	0	0	0	0	0
CUNY, Queens C.	302	607	145	403	0	0	369	0	0	0	0	34
U. Wisconsin-Oshkosh	302	44	222	403	0	0	403	0	0	0	0	0
Prairie View A&M U.	304	251	240	385	0	0	235	24	0	0	0	126
U. San Diego	305	557	407	384	0	0	366	0	18	0	0	0
Mercer U.	306	0	0	383	0	0	359	24	0	0	0	0
California State Polytechnic U., Humboldt	307	0	0	381	0	0	381	0	0	0	0	0
Morehouse C.	308	431	608	379	201	0	0	0	0	0	175	3
Tennessee Technological U.	309	364	544	378	0	0	269	0	0	0	0	109
Georgetown U.	310	1,621	588	377	190	114	0	58	13	0	0	2
Bentley U.	311	ne	286	376	0	0	376	0	0	0	0	0
West Texas A&M U.	312	280	273	375	0	0	338	0	0	0	0	37
U. Central Arkansas	313	505	249	366	0	0	366	0	0	0	0	0
U. Northern Colorado	314	580	392	364	0	0	364	0	0	0	0	0
Clarkson U.	315	374	492	362	85	0	110	0	0	0	0	167
Ohio U.	316	116	227	347	0	0	310	0	0	0	15	22
Seattle U.	316	840	691	347	0	0	347	0	0	0	0	0
Citadel Military C. South Carolina	318	456	629	346	7	0	339	0	0	0	0	0
Georgia Southern U.	318	75	249	346	0	0	346	0	0	0	0	0
U. North Carolina, Wilmington	320	738	1,031	328	168	0	151	0	0	0	0	9
Marian U., Indianapolis	321	ne	ne	322	0	0	322	0	0	0	0	0
Appalachian State U.	322	381	195	320	0	0	0	0	0	0	0	320
U. Tennessee, Health Science Center	322	0	0	320	0	0	0	0	0	0	0	320
U. Missouri, Saint Louis	324	513	295	312	8	0	228	0	0	76	0	0
Baylor U.	325	146	344	305	0	15	231	58	0	1	0	0
U. Hawaii, Maui C.	326	110	ne	295	0	0	295	0	0	0	0	0
Texas Christian U.	327	464	189	283	0	0	25	258	0	0	0	0
San Francisco State U.	328	323	408	281	0	0	281	0	0	0	0	0
C. Charleston	329	287	180	278	85	0	152	34	0	0	7	0

TABLE 59
Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2023 non-S&E fields: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023									
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec	
Pepperdine U.	330	425	519	272	0	0	269	3	0	0	0	0	
Tougaloo C.	331	0 i	238 i	269 i	17 i	0 i	151 i	14 i	0 i	21 i	0 i	66 i	
Sacred Heart U.	332	572	ne	268	0	0	221	0	0	47	0	0	
Idaho State U.	333	157	155	263	0	0	187	2	0	0	3	71	
California Institute of Technology	334	5,387	4,294	257	0	0	0	257	0	0	0	0	
U. of Mary Washington	334	239	264	257	149	0	0	108	0	0	0	0	
Wake Forest U.	336	78	73	253	0	0	54	6	14	0	0	179	
Black Hills State U.	337	76	76	252	0	0	252	0	0	0	0	0	
SUNY, C. of Environmental Science and Forestry	338	116	88	251	8	0	53	0	0	79	0	111	
Bowdoin C.	339	69	165	248	0	0	248	0	0	0	0	0	
Reed C.	340	181 i	218 i	247 i	0 i	0 i	0 i	247 i	0 i	0 i	0 i	0 i	
Florida Polytechnic U.	341	35	75	241	241	0	0	0	0	0	0	0	
Southern Connecticut State U.	341	100	141	241	0	0	107	21	0	111	0	2	
U.S. Military Academy	341	51	364	241	0	0	0	241	0	0	0	0	
Towson U.	344	15	35	240	0	0	2	0	0	0	0	238	
U. South Dakota	344	123	199	240	0	0	0	0	0	193	0	47	
Creighton U.	346	159 i	223 i	235 i	11 i	8 i	102 i	16 i	8 i	53 i	3 i	34 i	
California State U., Fresno	347	508	90	224	0	0	166	58	0	0	0	0	
U. Central Oklahoma	348	187 i	201 i	223 i	77 i	0 i	0 i	126 i	0 i	0 i	20 i	0 i	
Babson C.	349	0	29	222	222	0	0	0	0	0	0	0	
Pennsylvania State U., Behrend	350	272	412	219	7	0	205	7	0	0	0	0	
California State U., Dominguez Hills	351	473	1,013	210	0	0	210	0	0	0	0	0	
Eastern Michigan U.	352	208	518	206	0	23	111	17	0	55	0	0	
United Tribes Technical C.	353	ne	ne	200	0	0	200	0	0	0	0	0	
Clark Atlanta U.	354	73	0	199	0	0	199	0	0	0	0	0	
Texas Woman's U.	354	505	597	199	0	0	199	0	0	0	0	0	
East Tennessee State U.	356	48	1	198	0	0	198	0	0	0	0	0	
Troy U.	357	147	146	196	0	0	196	0	0	0	0	0	
Delaware State U.	358	3,999	5,342	193	0	0	193	0	0	0	0	0	
Lamar U.	358	716	555	193	154	0	21	0	0	0	0	18	
Southern Illinois U., Carbondale	360	0	0	182	0	0	94	4	0	0	0	84	
Dillard U.	361	416	430	180	0	0	90	79	11	0	0	0	
Coastal Carolina U.	362	4	54	177	0	0	177	0	0	0	0	0	

TABLE 59
Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2023 non-S&E fields: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023										
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec		
South Carolina State U.	362	149 i	163 i	177	177	0	0	0	0	0	0	0	0	0
CUNY, Baruch C.	364	9	75	174	0	0	0	0	0	0	0	0	0	174
CUNY, Lehman C.	365	776	376	166	0	0	166	0	0	0	0	0	0	0
U. Nebraska, Kearney	366	41	106	159	0	31	44	0	0	0	0	0	0	84
U. Puerto Rico, Rio Piedras	367	155	189	156	5	0	72	3	0	0	0	0	0	76
Spelman C.	368	0	130	154	0	0	0	0	0	0	0	0	0	154
Lipscomb U.	369	19	ne	150	0	0	150	0	0	0	0	0	0	0
Connecticut C.	370	0	66	147	0	0	0	147	0	0	0	0	0	0
U. Detroit Mercy	371	102	23	145	0	0	0	48	0	0	0	0	0	97
Eastern Connecticut State U.	372	0	84	140	0	0	140	0	0	0	0	0	0	0
U. Tennessee, Chattanooga	373	91	183	139	0	0	47	0	0	0	0	0	0	92
U. South Carolina, Beaufort	374	ne	ne	137	0	0	0	137	0	0	0	0	0	0
Williams C.	374	0 i	121 i	137 i	0 i	0 i	0 i	46 i	19 i	0 i	0 i	72 i	0 i	0 i
Northern Kentucky U.	376	1	11	136	0	0	0	130	0	6	0	0	0	0
Texas A&M International U.	377	40	13	135	0	0	130	0	0	0	0	0	0	5
James Madison U.	378	190	160	132	0	2	116	14	0	0	0	0	0	0
SUNY, Cobleskill	379	ne	0	125	125	0	0	0	0	0	0	0	0	0
U. Northern Iowa	380	17	0	115	0	0	115	0	0	0	0	0	0	0
Southeastern Louisiana U.	381	213	211	112	112	0	0	0	0	0	0	0	0	0
U. North Georgia	382	62	137	110	0	0	110	0	0	0	0	0	0	0
Central Connecticut State U.	383	155	41	108	0	0	96	12	0	0	0	0	0	0
Langston U.	384	190	132	106	0	0	50	0	0	22	0	0	0	34
Northland C.	385	82 i	92 i	104 i	49 i	0 i	53 i	2 i	0 i	0 i	0 i	0 i	0 i	0 i
Gustavus Adolphus C.	386	ne	ne	103	0	42	61	0	0	0	0	0	0	0
Grambling State U.	387	295	150 i	102	0	0	0	102	0	0	0	0	0	0
Swarthmore C.	387	85	121	102	0	0	89	13	0	0	0	0	0	0
U. Texas, Tyler	387	0	0	102	31	0	71	0	0	0	0	0	0	0
U. Akron	390	71	21	100	69	0	0	0	0	0	0	0	0	31
Trinity U.	391	0	0	99	0	4	2	93	0	0	0	0	0	0
U. Alaska, Southeast	391	0	0	99	0	0	99	0	0	0	0	0	0	0
Elon U.	393	0	67	98	51	0	47	0	0	0	0	0	0	0
Indiana U., South Bend	394	75	ne	97	0	0	97	0	0	0	0	0	0	0
Abilene Christian U.	395	70	98	95	0	0	0	95	0	0	0	0	0	0

TABLE 59
Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2023 non-S&E fields: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec
U. Wyoming	396	261	127	91	0	0	9	62	0	0	0	20
Seton Hall U.	397	1,134	907	89	89	0	0	0	0	0	0	0
Lincoln U.	398	ne	ne	88	0	0	0	0	0	84	0	4
Brandeis U.	399	746	335	87	0	0	0	0	0	0	0	87
California State U., Monterey Bay	399	0	0	87	0	0	0	0	0	87	0	0
Western Kentucky U.	401	42	0	84	0	0	74	0	0	0	0	10
Colby C.	402	127	79	82	0	0	0	82	0	0	0	0
CUNY, Brooklyn C.	402	170	175	82	0	0	0	23	0	0	59	0
Alaska Pacific U.	404	2	39	81	0	0	81	0	0	0	0	0
Occidental C.	405	64	71	80	0	0	80	0	0	0	0	0
U. Texas of the Permian Basin	406	152	0	78	0	0	78	0	0	0	0	0
Michigan Technological U.	407	382	266	75	0	0	75	0	0	0	0	0
U. Richmond	408	12	13	71	0	41	0	0	0	0	20	10
U. Scranton	409	ne	ne	70	0	0	0	70	0	0	0	0
Long Island U.	410	148	63	68	0	0	0	5	0	63	0	0
Southern U. and A&M C., Baton Rouge	411	375	50	67	0	0	20	0	0	0	0	47
U. Houston-Clear Lake	412	0	0	66	0	0	66	0	0	0	0	0
Rowan U.	413	189	111	62	0	0	0	9	53	0	0	0
Florida Institute of Technology	414	663	541	60	0	0	0	0	0	0	0	60
California State U., Fullerton	415	16	12	57	0	0	54	2	0	0	1	0
St. Olaf C.	415	6	ne	57	0	0	7	50	0	0	0	0
Skidmore C.	417	0	65	55	40	0	0	0	0	0	15	0
California State U., Channel Islands	418	40	17	53	0	0	0	0	0	0	0	53
Texas Tech U., Health Sciences Center	418	34	18	53	0	0	27	0	0	0	0	26
Wellesley C.	420	0	0	51	0	0	51	0	0	0	0	0
Macalester C.	421	0	91	50	0	0	0	50	0	0	0	0
Nova Southeastern U.	421	0	61	50	50	0	0	0	0	0	0	0
Pratt Institute	421	294	228	50	0	0	0	0	0	0	0	50
U. Puerto Rico, Ponce	421	ne	ne	50	0	0	0	0	0	0	0	50
Northern Michigan U.	425	0	58	49	0	0	6	43	0	0	0	0
Smith C.	426	184	151	48	0	0	13	35	0	0	0	0
St. John's U., New York	426	19	40	48	0	0	48	0	0	0	0	0
West Chester U. Pennsylvania	426	122	19	48	10	0	38	0	0	0	0	0

TABLE 59
Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2023 non-S&E fields: FYs 2021–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2021	2022	2023									
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec	
Carleton C.	462	6	7	10 i	0 i	0 i	0 i	10 i	0 i	0 i	0 i	0 i	0 i
Northeast Ohio Medical U.	463	0	0	9	0	0	0	0	0	9	0	0	0
Utah Valley U.	464	ne	0	6	0	0	0	6	0	0	0	0	0
C. of Saint Benedict	465	4 i	4 i	5 i	3 i	0 i	1 i	0 i	0 i	0 i	1 i	0 i	0 i
Central Washington U.	465	0	14	5	0	5	0	0	0	0	0	0	0
William Paterson U.	465	653	578	5	0	0	5	0	0	0	0	0	0
Hamilton C.	468	27	9	4	0	0	0	4	0	0	0	0	0
SUNY, Polytechnic Institute	468	0	21	4	0	0	0	4	0	0	0	0	0
Hawaii Pacific U.	470	0	819	3	0	0	0	0	0	0	0	0	3
Xavier U. Louisiana	470	139	15	3	0	0	0	3	0	0	0	0	0
Christopher Newport U.	472	10	27	2	0	0	0	2	0	0	0	0	0
Tarleton State U.	473	0	0	1	0	0	1	0	0	0	0	0	0
U. Wisconsin-La Crosse	473	0	0	1	0	0	0	1	0	0	0	0	0
All other surveyed institutions	-	19,222	11,603	0	0	0	0	0	0	0	0	0	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified; S&E = science and engineering.

^a The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^b The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

^c Johns Hopkins University includes the Applied Physics Laboratory, with zero in federally financed non-S&E R&D expenditures in FY 2023.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 60

Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	9,047,729	1,089,161	321,866	1,632,039	185,496	739,426	80,354	101,687	110,168	4,687,204	100,328
Johns Hopkins U. ^a	1	1,628,821	228,975	16,325	63,808	113,989	219,781	218	6,108	57,297	922,320	0
Georgia Institute of Technology	2	811,759	131,705	697	3,254	181	2,825	939	429	0	662,212	9,517
Uniformed Services U. of the Health Sciences	3	396,092	0	0	356,715	0	0	39,377	0	0	0	0
Pennsylvania State U., University Park and Hershey Medical Center	4	343,365	57,476	5,889	5,782	13,812	18,228	542	1,107	0	236,862	3,667
U. Texas, Austin	5	252,267	46,718	153	3,468	1,217	44,525	450	211	6	153,701	1,818
U. Dayton	6	204,029	22,876	91	256	0	207	0	0	0	179,859	740
Utah State U.	7	170,044	0	0	1,248	0	361	0	3	0	167,769	663
U. Maryland ^b	8	146,036	22,727	835	25,314	1,230	18,080	363	21,730	16,459	39,298	0
U. Southern California	9	132,806	89,224	0	9,103	267	3,318	309	731	0	29,822	32
Massachusetts Institute of Technology	10	130,434	34,288	1,055	5,818	1,699	16,713	0	196	738	68,975	952
U. California, San Diego	11	126,228	0	66,087	18,640	9	9,408	1,697	748	0	28,000	1,639
U. Washington, Seattle	12	126,010	5,671	41,115	35,176	711	4,312	592	1,795	0	36,292	346
Carnegie Mellon U.	13	121,019	73,856	0	201	1,924	821	1,704	726	0	41,787	0
Wichita State U.	14	112,906	0	0	0	0	0	0	0	0	111,317	1,589
Colorado State U., Fort Collins	15	106,769	1,081	2,543	90,037	705	1,346	188	4,976	762	5,131	0
Texas A&M U., College Station and Health Science Center	16	88,719	3,879	1,195	11,707	375	1,236	56	1,122	24	68,199	926
Stanford U.	17	87,775	5,736	2,178	25,449	1,084	18,833	613	1,612	0	31,851	419
Purdue U., West Lafayette	18	86,728	4,234	15	3,009	344	4,859	0	0	0	70,631	3,636
U. Michigan, Ann Arbor	19	79,110	179	370	12,753	965	4,426	0	5,130	0	55,287	0
Virginia Polytechnic Institute and State U.	20	71,734	5,095	0	2,778	4,464	2,357	7	0	0	43,779	13,254
U. Pittsburgh, Pittsburgh	21	70,896	3,129	8	51,685	777	5,006	0	14	171	10,038	68
U. Alabama, Huntsville	22	67,527	36,476	159	64	0	450	157	1,580	0	28,538	103
SUNY, U. Buffalo	23	62,081	1,463	0	6,233	46	1,645	51	0	0	52,391	252
Duke U.	24	61,598	489	2,527	33,567	764	1,748	38	638	0	21,827	0
U. Illinois, Urbana-Champaign	25	59,094	7,256	215	5,724	91	7,970	231	268	45	36,612	682
Columbia U. in the City of New York	26	58,296	9,761	989	20,844	0	5,501	312	293	0	20,582	14
Ohio State U.	27	57,248	762	712	19,031	354	2,112	370	241	1,672	30,474	1,520
Naval Postgraduate School	28	56,875	7,091	8,493	366	1,925	4,038	356	5,008	4,272	20,170	5,156
George Mason U.	29	54,139	7,007	2,310	4,384	552	953	579	1,060	0	36,588	706
U. California, Los Angeles	30	53,640	2,850	1,776	18,754	2,698	3,226	161	1,535	415	21,748	477
U. Pennsylvania	31	53,246	7,878	95	14,681	656	5,749	642	5,319	0	16,667	1,559
Montana State U., Bozeman	32	52,929	620	258	2,752	0	3,676	0	0	0	37,654	7,969
Northwestern U.	33	51,407	2,207	0	30,427	0	5,749	212	106	1,043	10,348	1,315

TABLE 60

Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. California, Santa Barbara	34	51,327	3,513	94	0	520	11,005	366	332	176	35,285	36
Cornell U.	35	50,537	5,532	44	12,743	64	15,006	110	438	0	16,600	0
Harvard U.	36	49,624	1,669	17	12,114	129	20,051	479	4,259	0	10,906	0
U. Florida	37	49,481	3,551	173	16,551	85	1,573	194	2,056	0	25,165	133
Arizona State U.	38	46,290	13,108	425	3,771	429	908	981	1,891	92	23,570	1,115
Woods Hole Oceanographic Institution	39	46,139	0	19,173	0	0	0	0	0	0	26,966	0
U. Wisconsin-Madison	40	44,782	3,698	2,003	10,508	615	4,575	223	0	2,615	20,347	198
U. California, Berkeley	41	44,502	0	0	2,765	671	9,639	669	678	1,366	28,714	0
U. Hawaii, Manoa	42	43,913	17,451	8,941	2,165	0	1,746	0	0	0	13,610	0
U.S. Air Force Academy	43	43,793	1,260	46	4,130	0	1,579	0	106	1,014	35,658	0
Northeastern U.	44	43,759	4,139	0	237	0	2,065	373	171	0	36,113	661
U. Nebraska, Lincoln and Medical Center ^c	45	42,877	574	125	21,354	25	3,304	93	401	0	16,561	440
U. Colorado Boulder	46	41,391	3,049	1,753	1,994	699	14,737	24	253	0	18,766	116
U. Alaska, Fairbanks	47	41,062	0	30,607	657	0	2,176	0	119	3,205	4,277	21
Air Force Institute of Technology	48	41,057	7,354	1,103	0	352	6,124	0	0	0	26,124	0
U. California, San Francisco	49	41,031	0	0	34,361	0	6,670	0	0	0	0	0
U. Minnesota, Twin Cities	50	39,589	720	0	16,318	309	1,517	58	345	0	20,322	0
U. Central Florida	51	37,555	9,751	0	1,434	79	15,560	1,292	248	212	8,979	0
Yale U.	52	37,473	1,672	46	17,040	222	12,428	231	0	0	5,834	0
U. Notre Dame	53	35,688	2,148	0	3,524	345	1,130	0	0	2,441	26,100	0
Vanderbilt U. and Vanderbilt U. Medical Center	54	35,148	5,726	26	16,864	72	0	0	0	0	12,454	6
U. Arizona	55	35,142	3,112	498	7,455	5	3,838	124	293	0	19,721	96
U. Virginia, Charlottesville	56	34,976	8,559	8	5,024	101	716	52	424	0	19,272	820
Mississippi State U.	57	34,737	5,473	11	277	0	249	158	2,221	0	26,348	0
North Carolina State U.	58	33,966	2,558	445	2,669	849	1,341	20	400	7,470	18,214	0
California Institute of Technology	59	30,414	5,373	708	2,339	0	4,079	100	0	0	17,815	0
Stevens Institute of Technology	60	29,801	1,904	0	0	219	448	0	0	0	27,230	0
U. Miami	61	28,129	21	13,750	12,553	0	257	960	0	0	588	0
Rice U.	62	27,925	1,229	19	1,545	510	4,741	853	0	0	19,004	24
New Mexico Institute of Mining and Technology	63	27,914	12,121	0	0	0	5,837	0	0	0	9,956	0
U. Chicago	64	27,455	2,667	64	5,409	612	6,109	510	291	0	11,793	0
SUNY, Polytechnic Institute	65	27,332	18	0	349	0	0	0	0	0	26,965	0
U. Tennessee, Knoxville	66	26,963	341	141	5,789	111	895	0	3	859	18,821	3
Mercer U.	67	26,952	0	0	0	0	0	0	0	0	26,952	0

TABLE 60

Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. North Carolina, Chapel Hill	68	26,942	1,902	753	19,506	30	3,012	0	371	0	1,088	280
Indiana U., Bloomington	69	26,468	3,074	177	18,485	308	492	403	15	0	1,963	1,551
U. Maine	70	25,645	0	21	69	0	52	0	0	0	25,474	29
Washington U., Saint Louis	71	25,612	772	29	19,608	33	1,633	88	13	0	3,436	0
Icahn School of Medicine at Mount Sinai	72	25,359	0	0	25,359	0	0	0	0	0	0	0
Princeton U.	73	25,234	2,592	97	1,990	1,126	2,942	193	796	0	15,498	0
U. Delaware	74	24,933	662	2,588	1,739	376	3,161	547	4	0	15,754	102
U. California, Davis	75	24,576	1,196	113	11,146	272	729	0	808	0	10,261	51
Florida State U.	76	24,311	500	3,001	532	251	633	1,534	81	0	17,779	0
U. New Mexico	77	24,162	363	225	5,047	0	2,249	60	301	0	15,917	0
Auburn U., Auburn	78	23,535	595	0	1,719	129	305	21	0	106	20,623	37
U. Utah	79	23,494	0	631	13,235	159	1,863	1,174	340	0	5,911	181
Florida International U.	80	23,309	1,399	322	1,321	58	9,213	0	1,496	0	9,451	49
U. Connecticut	81	22,360	307	238	2,574	143	1,732	0	0	0	17,366	0
New York U.	82	21,849	4,575	0	7,185	1,683	3,813	321	0	0	3,766	506
U. Massachusetts, Lowell	83	20,980	1,752	0	247	151	7,703	0	500	0	9,949	678
Boston U.	84	20,847	2,984	29	6,389	246	447	500	0	0	10,197	55
Clemson U.	85	20,118	1,131	0	628	265	354	0	0	0	17,740	0
Brown U.	86	19,737	3,075	36	3,094	3,370	110	0	34	154	9,864	0
New Mexico State U.	87	19,315	147	0	3,396	90	664	0	0	0	15,018	0
Rutgers, State U. New Jersey, New Brunswick	88	19,246	192	1,124	8,615	271	784	0	316	22	7,922	0
Oregon State U.	89	18,957	0	4,177	1,754	0	287	101	0	180	12,458	0
U. California, Irvine	90	18,949	2,333	0	7,349	507	599	359	0	0	7,802	0
U. South Florida	91	18,617	2,262	2,660	1,160	269	103	256	25	0	11,610	272
U.S. Military Academy	92	18,493	3,417	138	120	1,516	408	109	5,331	0	7,213	241
Michigan Technological U.	93	18,081	3,303	2,363	0	0	159	0	0	0	12,256	0
Baylor C. of Medicine	94	17,986	0	0	17,986	0	0	0	0	0	0	0
U. Oklahoma, Norman and Health Science Center	95	17,814	448	797	2,312	0	929	0	349	0	12,904	75
U. Texas M. D. Anderson Cancer Center	96	17,584	0	0	17,210	0	63	0	311	0	0	0
U. Illinois, Chicago	97	17,074	630	0	6,710	0	1,208	0	585	363	6,136	1,442
U. Cincinnati	98	16,982	35	0	12,314	79	0	0	433	0	3,874	247
SUNY, Stony Brook U.	99	16,848	3,399	498	1,816	204	1,977	0	116	190	8,648	0
U. Iowa	100	16,153	157	0	6,220	0	1,347	0	4	0	8,113	312
Michigan State U.	101	15,763	1,958	159	2,390	700	2,695	342	116	96	6,010	1,297

TABLE 60

Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. South Carolina, Columbia	102	15,506	449	210	713	51	0	0	315	0	13,561	207
U. Colorado Anschutz Medical Campus	103	15,486	0	0	15,486	0	0	0	0	0	0	0
Louisiana State U., Baton Rouge	104	15,251	2,747	1,756	1,077	305	433	0	0	0	2,302	6,631
Case Western Reserve U.	105	15,146	3	0	6,633	0	259	306	118	0	7,827	0
Drexel U.	106	15,008	1,226	0	1,404	22	0	79	0	0	12,155	122
U. Massachusetts, Amherst	107	14,781	3,774	0	691	313	158	0	0	0	9,801	44
U. Kentucky	108	14,714	207	151	7,263	0	222	0	0	0	5,980	891
U. Rochester	109	14,305	494	0	5,300	0	4,595	0	36	1,122	2,758	0
U. Missouri, Columbia	110	14,006	5,153	529	2,214	54	2,741	184	10	0	3,121	0
U. Alabama, Birmingham	111	13,923	124	0	9,884	0	214	971	0	0	2,730	0
U. Texas Medical Branch	112	13,840	0	0	13,840	0	0	0	0	0	0	0
Temple U.	113	13,822	0	0	6,527	0	4,391	0	0	0	1,138	1,766
U. Alabama, Tuscaloosa	114	13,447	277	2	9	0	1,831	126	75	0	11,113	14
U. Hawaii, system office	115	13,426	0	13,426	0	0	0	0	0	0	0	0
Tufts U.	116	13,073	693	0	1,073	2,866	462	4,402	0	146	3,382	49
U. Arkansas, Fayetteville	117	13,068	531	306	471	0	4,132	392	0	0	7,067	169
U. Texas Southwestern Medical Center	118	13,067	0	0	13,067	0	0	0	0	0	0	0
U. Texas, Dallas	119	12,884	2,645	0	2,350	53	1,940	186	0	0	5,710	0
George Washington U.	120	12,721	748	0	2,778	0	1,089	263	1,618	8	6,140	77
U. Texas, El Paso	121	12,633	312	46	352	33	178	0	0	0	11,658	54
Iowa State U.	122	12,259	587	0	927	132	222	0	0	0	10,235	156
Colorado School of Mines	123	12,241	1,568	112	48	63	738	11	0	0	9,701	0
U. Rhode Island	124	12,127	0	2,716	286	0	1,322	0	27	98	6,904	774
U. Southern Mississippi	125	12,088	199	4,024	725	0	6,345	0	66	0	0	729
Georgetown U.	126	12,035	1,096	0	10,387	46	15	0	491	0	0	0
U. Missouri, Kansas City	127	11,816	215	0	29	0	231	0	0	0	11,230	111
Oregon Health and Science U.	128	11,688	0	0	11,500	0	0	0	0	0	188	0
Missouri State U.	129	11,623	0	0	33	0	0	0	0	0	11,590	0
U. California, Riverside	130	11,529	1,053	117	1,961	26	1,672	67	62	50	6,521	0
Virginia Commonwealth U.	131	11,522	249	0	9,666	2	241	96	0	0	1,268	0
Emory U.	132	11,443	185	0	7,244	154	1,677	0	29	0	1,986	168
Rensselaer Polytechnic Institute	133	11,163	2,725	0	0	205	141	2,064	0	0	5,843	185
Dartmouth C. and Dartmouth Hitchcock Medical Center	134	11,106	818	0	2,960	2,741	835	432	0	0	3,320	0
U. Texas, Arlington	135	11,021	137	0	102	54	1,170	229	0	0	9,329	0

TABLE 60

Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Wake Forest U.	136	10,658	0	0	10,509	0	149	0	0	0	0	0
Worcester Polytechnic Institute	137	10,249	640	0	0	416	274	0	0	0	8,830	89
Wright State U.	138	10,171	4,607	0	788	0	276	1,113	0	17	3,353	17
U. Texas Health Science Center, Houston	139	10,005	0	0	10,005	0	0	0	0	0	0	0
New Jersey Institute of Technology	140	9,550	267	0	0	154	165	0	66	0	8,853	45
U.S. Naval Academy	141	9,512	696	438	0	989	1,684	0	91	0	5,614	0
U. California, Santa Cruz	142	9,431	818	3,334	248	0	355	0	0	0	4,676	0
Florida Atlantic U.	143	9,229	611	109	638	168	467	54	0	0	7,182	0
U. North Texas, Denton	144	9,215	1,155	0	50	36	382	0	0	0	7,592	0
North Dakota State U.	145	8,962	447	1	6	0	5,537	0	0	0	2,784	187
U. Houston	146	8,886	3,160	0	369	44	1,052	831	0	193	3,222	15
U. Georgia	147	8,571	1,093	269	2,363	0	338	0	598	0	3,722	188
Texas Tech U.	148	8,205	0	68	905	46	288	182	0	0	6,593	123
U. Texas, San Antonio	149	8,071	2,665	872	721	0	1,124	335	52	0	2,289	13
U. Kansas	150	8,006	788	926	1,834	210	150	277	122	0	3,144	555
Wayne State U.	151	7,942	289	0	5,249	0	864	6	0	0	1,534	0
U. Mississippi	152	7,862	0	0	1,171	0	4,102	0	0	0	2,472	117
Washington State U.	153	7,770	1,319	686	2,627	0	1,205	213	44	0	1,676	0
Northern Arizona U.	154	7,717	1,104	0	4,775	0	556	92	0	0	1,190	0
Oklahoma State U., Stillwater	155	7,661	0	0	451	26	191	0	0	0	6,889	104
Missouri U. of Science and Technology	156	7,640	78	0	117	0	325	1	0	0	7,119	0
Medical C. Wisconsin	157	7,510	0	0	6,723	0	0	0	0	0	787	0
U. Toledo	158	7,381	0	0	912	0	2,815	0	0	0	2,609	1,045
U. Texas Health Science Center, San Antonio	159	7,197	0	0	7,197	0	0	0	0	0	0	0
Rowan U.	160	6,945	0	0	239	99	55	0	0	0	6,552	0
San Diego State U.	161	6,924	320	507	2,258	161	314	146	33	0	3,151	34
Rochester Institute of Technology	162	6,907	562	0	0	50	2,224	0	0	0	4,071	0
Boston C.	163	6,761	39	5,446	0	0	1,276	0	0	0	0	0
Old Dominion U.	164	6,643	232	22	141	12	0	93	150	0	5,916	77
Montana Technological U.	165	6,621	0	2,616	0	0	0	0	0	0	4,005	0
U. Massachusetts, Medical School	166	6,450	0	0	6,450	0	0	0	0	0	0	0
Albert Einstein C. of Medicine	167	6,328	0	0	6,328	0	0	0	0	0	0	0
U. New Hampshire	168	6,308	0	4,676	231	0	63	229	0	0	1,064	45
U. Maryland, Baltimore County	169	6,005	3,443	167	34	0	692	0	0	0	1,371	298

TABLE 60

Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Louisiana, Lafayette	204	3,401	418	102	2,219	0	0	0	0	0	0	662
Kansas State U.	205	3,311	712	0	566	0	287	422	252	0	1,072	0
U. Oregon	206	3,179	682	0	369	21	1,705	204	0	0	131	67
Delaware State U.	207	3,092	143	0	0	11	2,938	0	0	0	0	0
U. Nebraska, Omaha	208	2,956	2,678	0	278	0	0	0	0	0	0	0
U. North Carolina, Charlotte	209	2,923	277	0	495	0	942	171	113	0	911	14
U. Arkansas for Medical Sciences	210	2,845	0	0	2,845	0	0	0	0	0	0	0
Georgia State U.	211	2,828	521	0	228	95	953	35	5	0	0	991
U. Guam	212	2,748	0	306	2,358	84	0	0	0	0	0	0
California State U., San Marcos	213	2,679	0	17	0	0	0	0	0	2,662	0	0
CUNY, City C.	214	2,629	144	25	108	0	912	0	0	0	1,440	0
U. Tennessee, Health Science Center	215	2,549	0	0	2,549	0	0	0	0	0	0	0
National Defense U.	216	2,494	143	0	400	0	0	0	1,951	0	0	0
William & Mary	217	2,485	0	847	313	149	651	0	508	0	0	17
East Carolina U.	218	2,437	324	631	839	0	0	0	0	0	163	480
Cold Spring Harbor Laboratory	219	2,362	0	0	2,362	0	0	0	0	0	0	0
SUNY, U. Albany	220	2,319	225	1,124	186	0	184	0	281	0	0	319
Portland State U.	221	2,302	255	332	64	64	0	152	254	0	1,181	0
U. Arkansas, Little Rock	222	2,069	961	0	1,108	0	0	0	0	0	0	0
Indiana U.-Purdue U., Indianapolis	223	2,065	254	0	95	0	724	0	0	0	971	21
Tuskegee U.	224	2,003	0	0	0	0	0	0	5	0	1,998	0
Augusta U.	225	1,989	141	0	1,848	0	0	0	0	0	0	0
U. Akron	226	1,988	0	0	53	0	1,465	0	0	0	470	0
Baylor U.	227	1,973	0	0	268	0	12	33	0	0	1,660	0
Chapman U.	228	1,950	0	0	559	0	919	0	287	0	185	0
Clarkson U.	229	1,942	0	0	45	120	65	0	0	0	1,642	70
Marquette U.	230	1,924	0	0	971	0	0	0	0	0	953	0
Jackson State U.	231	1,912	58	0	12	0	865	0	0	0	977	0
Alabama A&M U.	232	1,861	187	0	427	15	125	16	22	0	1,054	15
Youngstown State U.	233	1,845	0	0	0	0	0	22	0	0	1,823	0
U. California, Merced	234	1,839	76	0	171	51	407	0	94	105	402	533
SUNY, Downstate Health Sciences U.	235	1,760	0	0	1,760	0	0	0	0	0	0	0
Citadel Military C. South Carolina	236	1,742	1,737	0	5	0	0	0	0	0	0	0
U. San Diego	237	1,663	0	0	0	1,577	86	0	0	0	0	0

TABLE 60

Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
SUNY, Upstate Medical U.	238	1,630	0	0	1,630	0	0	0	0	0	0	0
U. of the District of Columbia	239	1,624	13	0	0	0	0	0	0	0	1,155	456
Louisiana Tech U.	240	1,613	371	0	0	37	101	0	0	0	1,085	19
U. Texas Rio Grande Valley	241	1,569	4	0	14	0	153	0	0	0	1,398	0
U. New Orleans	242	1,529	851	0	0	183	273	0	143	0	79	0
Florida A&M U.	243	1,501	138	207	0	0	7	0	0	0	1,149	0
U. Colorado Colorado Springs	244	1,435	1,096	125	0	52	0	0	0	0	162	0
Virginia Military Institute	245	1,422	1,422	0	0	0	0	0	0	0	0	0
Towson U.	246	1,419	880	375	128	0	0	0	0	36	0	0
Rutgers, State U. New Jersey, Newark	247	1,393	844	352	0	0	0	0	0	0	0	197
Saint Louis U.	248	1,378	0	57	659	0	62	6	0	0	594	0
American U.	249	1,333	0	0	0	250	36	0	26	879	0	142
North Carolina Central U.	250	1,316	0	0	0	0	1,316	0	0	0	0	0
Dakota State U.	251	1,273	1,273	0	0	0	0	0	0	0	0	0
Duquesne U.	252	1,242	0	0	1,159	0	0	0	0	0	0	83
Creighton U.	253	1,235	410	0	377	96	314	14	15	0	0	9
Southern Illinois U., Carbondale	254	1,217	0	0	886	13	165	0	0	0	153	0
Alfred U.	255	1,204	0	0	0	0	0	0	0	0	1,204	0
California State U., Northridge	255	1,204	0	10	54	182	535	0	0	0	271	152
Medical U. South Carolina	257	1,201	0	0	1,201	0	0	0	0	0	0	0
Illinois Institute of Technology	258	1,194	89	0	124	0	54	0	0	0	927	0
U. Nevada, Las Vegas	259	1,127	0	558	111	0	294	26	0	0	138	0
Prairie View A&M U.	260	1,092	0	0	76	0	514	0	0	0	476	26
SUNY, C. of Environmental Science and Forestry	261	1,091	0	0	818	0	0	0	0	0	273	0
U. Wyoming	262	1,056	0	241	805	0	0	0	1	0	0	9
Texas A&M U.-Kingsville	263	1,048	528	0	0	0	43	0	0	0	477	0
Texas A&M U.-Corpus Christi	264	1,036	0	221	19	0	99	0	0	197	500	0
Spelman C.	265	996	21	0	58	917	0	0	0	0	0	0
Van Andel Research Institute	266	990	0	0	990	0	0	0	0	0	0	0
West Texas A&M U.	267	984	71	162	155	0	0	0	0	0	284	312
Toyota Technological Institute, Chicago	268	964	964	0	0	0	0	0	0	0	0	0
Virginia State U.	269	963	0	0	0	0	0	0	0	0	963	0
U. Alaska, Anchorage	270	948	0	171	698	0	0	0	0	0	79	0
Miami U.	271	915	27	0	0	0	400	263	0	0	123	102

TABLE 60

Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Ohio U.	272	889	0	0	192	0	70	0	0	0	627	0
U. Maryland, Eastern Shore	273	882	0	0	882	0	0	0	0	0	0	0
Southern Illinois U., Edwardsville	274	870	0	141	228	0	376	0	86	0	0	39
U. Wisconsin-Milwaukee	275	859	0	0	47	0	0	0	0	0	812	0
Oakland U.	276	858	232	0	7	0	264	0	0	0	355	0
Morehouse School of Medicine	277	854	0	0	854	0	0	0	0	0	0	0
Rush U.	278	843	0	0	576	0	0	267	0	0	0	0
Loyola U., Chicago	279	826	215	0	611	0	0	0	0	0	0	0
U. Tennessee, Chattanooga	279	826	31	0	0	0	0	0	0	0	795	0
CUNY, Hunter C.	281	813	75	0	83	0	655	0	0	0	0	0
Louisiana State U., Health Sciences Center, New Orleans	282	800	0	0	800	0	0	0	0	0	0	0
Rockefeller U.	283	797	0	0	797	0	0	0	0	0	0	0
U. Puerto Rico, Mayaguez	284	791	89	30	0	0	1	0	0	0	671	0
South Dakota State U.	285	785	0	0	5	0	63	0	0	0	717	0
CUNY, New York City C. of Technology	286	717	66	0	0	0	104	0	0	0	547	0
Western Illinois U.	286	717	0	0	0	0	0	0	0	0	717	0
U. Massachusetts, Boston	288	687	0	273	219	0	0	0	0	0	195	0
Kent State U.	289	682	0	0	328	6	320	0	0	0	28	0
CUNY, Queens C.	290	672	0	0	0	0	65	0	607	0	0	0
Santa Clara U.	290	672	0	0	0	0	0	0	0	0	672	0
U. Colorado Denver	292	669	0	0	241	0	0	0	0	0	427	1
U. North Carolina, Wilmington	293	648	43	0	201	0	204	0	45	0	155	0
Tennessee Technological U.	294	635	373	0	32	0	0	0	0	0	230	0
Central Michigan U.	295	612	0	0	10	0	159	0	0	427	16	0
U. Northern Iowa	296	610	0	0	0	0	610	0	0	0	0	0
Brandeis U.	297	609	57	0	241	0	252	0	9	50	0	0
Langston U.	298	600	0	0	600	0	0	0	0	0	0	0
U. Idaho	299	589	23	0	417	0	0	0	0	0	37	112
Norfolk State U.	300	580	60	0	0	0	520	0	0	0	0	0
U. Detroit Mercy	301	577	0	0	0	0	0	0	0	0	577	0
Catholic U. of America	302	570	0	0	27	0	141	0	0	0	379	23
U. Denver	302	570	122	23	400	0	0	0	0	0	25	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	304	557	0	0	114	0	0	0	0	0	381	62
Clark Atlanta U.	305	555	0	0	0	0	555	0	0	0	0	0

TABLE 60

Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Villanova U.	306	545	0	0	0	0	0	0	0	0	545	0
Purdue U., Northwest	307	540	327	0	0	0	0	0	0	0	194	19
U. Central Oklahoma	307	540 i	91 i	0 i	25 i	19 i	42 i	6 i	75 i	0 i	260 i	22 i
U. Washington, Bothell	307	540	115	0	37	0	0	0	0	0	343	45
Western U. of Health Sciences	310	530	0	0	530	0	0	0	0	0	0	0
Seton Hall U.	311	519	0	0	0	0	519	0	0	0	0	0
U.S. Army War C.	312	494 i	0 i	0 i	0 i	0 i	0 i	0 i	494 i	0 i	0 i	0 i
California State U., Dominguez Hills	313	489	0	0	0	0	489	0	0	0	0	0
Fisk U.	314	486	0	0	0	0	486	0	0	0	0	0
New York Medical C.	315	482	0	0	482	0	0	0	0	0	0	0
U. of the Incarnate Word	316	470	0	0	64	0	171	0	0	0	235	0
SUNY, Cobleskill	317	469	0	0	0	0	0	0	0	0	469	0
Robert Morris U.	318	463	0	0	0	0	0	0	0	0	463	0
San Jose State U.	319	453	0	343	106	0	0	0	0	0	0	4
California State Polytechnic U., Pomona	320	438	38	0	0	0	0	0	0	0	400	0
U. Puerto Rico, Medical Sciences Campus	321	437	0	0	437	0	0	0	0	0	0	0
Albany Medical C.	322	434	0	0	434	0	0	0	0	0	0	0
Oregon Institute of Technology	323	432 i	44 i	4 i	40 i	16 i	0 i	0 i	0 i	0 i	328 i	0 i
U. South Carolina, Beaufort	324	431	431	0	0	0	0	0	0	0	0	0
Indiana U. Pennsylvania	325	424	244	20	0	0	106	0	54	0	0	0
U. Hawaii, Hilo	326	415	0	161	254	0	0	0	0	0	0	0
U. North Carolina, Greensboro	327	400	0	0	52	0	310	0	0	0	0	38
Savannah State U.	328	394	0	181	142	0	0	0	0	0	71	0
Liberty U.	329	384	369	0	0	0	0	0	0	0	15	0
Haverford C.	330	382	0	0	0	0	382	0	0	0	0	0
U. New Haven	330	382	382	0	0	0	0	0	0	0	0	0
Rosalind Franklin U. of Medicine and Science	332	371	0	0	371	0	0	0	0	0	0	0
Central Washington U.	333	363	363	0	0	0	0	0	0	0	0	0
Kennesaw State U.	334	361	60	0	0	0	0	15	0	0	286	0
California State U., Chico	335	358	0	0	0	0	0	0	0	0	358	0
Texas Christian U.	336	355	0	30	8	0	0	0	0	0	59	258
Bowie State U.	337	348	340	0	0	8	0	0	0	0	0	0
Saginaw Valley State U.	338	347 i	173 i	0 i	0 i	0 i	0 i	0 i	158 i	0 i	0 i	16 i
U. Minnesota, Duluth	339	325	0	0	266	25	0	0	0	0	34	0

TABLE 60

Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Middle Tennessee State U.	373	155	0	0	0	0	0	0	155	0	0	0
Reed C.	375	152	i 1	0	102	22	26	0	1	0	0	0
U. of the Virgin Islands	376	150	150	0	0	0	0	0	0	0	0	0
U. of St. Thomas (MN)	377	140	0	0	0	0	0	0	0	0	140	0
U. Wisconsin-Platteville	377	140	i 11	0	10	2	10	0	13	0	90	4
Central State U.	379	138	0	57	0	0	64	0	0	0	17	0
U. Michigan, Dearborn	379	138	0	0	0	72	0	0	0	0	66	0
Gallaudet U.	381	132	132	0	0	0	0	0	0	0	0	0
CUNY, York C.	382	130	0	0	0	97	31	0	0	0	0	2
U. North Georgia	382	130	122	0	0	0	8	0	0	0	0	0
Louisiana State U., Health Sciences Center, Shreveport	384	125	0	0	125	0	0	0	0	0	0	0
Texas A&M International U.	384	125	0	0	0	0	125	0	0	0	0	0
East Tennessee State U.	386	124	0	0	57	0	67	0	0	0	0	0
Monmouth U.	386	124	0	98	26	0	0	0	0	0	0	0
Rutgers, State U. New Jersey, Camden	388	122	122	0	0	0	0	0	0	0	0	0
U. Arkansas, Pine Bluff	389	121	0	0	0	0	121	0	0	0	0	0
Sonoma State U.	390	120	0	0	120	0	0	0	0	0	0	0
U. Texas Health Science Center, Tyler	391	110	0	0	110	0	0	0	0	0	0	0
Claremont McKenna C.	392	109	0	0	0	0	109	0	0	0	0	0
Christopher Newport U.	393	108	0	0	81	0	27	0	0	0	0	0
Idaho State U.	394	106	0	0	0	0	0	0	0	0	106	0
Lafayette C.	395	99	99	0	0	0	0	0	0	0	0	0
Rhode Island C.	396	98	98	0	0	0	0	0	0	0	0	0
Florida Gulf Coast U.	397	97	0	0	23	0	0	10	0	0	0	64
U.S. Coast Guard Academy	398	93	0	0	0	0	19	0	74	0	0	0
CUNY, C. Staten Island	399	92	0	0	0	0	92	0	0	0	0	0
Morehouse C.	399	92	92	0	0	0	0	0	0	0	0	0
Williams C.	401	91	i 0	0	65	12	12	1	1	0	0	0
Smith C.	402	88	73	0	0	15	0	0	0	0	0	0
Manhattan C.	403	86	0	0	0	86	0	0	0	0	0	0
Pepperdine U.	404	84	0	0	84	0	0	0	0	0	0	0
Sam Houston State U.	405	81	0	0	0	0	80	0	1	0	0	0
U. Baltimore	406	75	0	0	0	0	0	75	0	0	0	0
U. Washington, Tacoma	406	75	3	30	42	0	0	0	0	0	0	0

TABLE 60

Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
SUNY, C. Brockport	442	26	0	0	19	0	7	0	0	0	0	0
Lake Superior State U.	443	25	0	0	0	0	0	0	0	0	25	0
Texas A&M U.-Commerce	444	24	0	0	0	0	0	24	0	0	0	0
Whitman C.	444	24	0	0	24	0	0	0	0	0	0	0
Western Carolina U.	446	23	0	0	0	0	23	0	0	0	0	0
Yeshiva U.	446	23	0	0	23	0	0	0	0	0	0	0
Claremont Graduate U.	448	22	0	0	0	22	0	0	0	0	0	0
Eastern Michigan U.	448	22	0	0	0	0	22	0	0	0	0	0
New C. Florida	450	21	0	0	21	0	0	0	0	0	0	0
U. Alaska, Southeast	450	21	0	0	0	0	0	0	0	0	21	0
Drake U.	452	20	0	0	0	0	0	0	0	0	0	20
Clafin U.	453	19	0	0	19	0	0	0	0	0	0	0
Florida Polytechnic U.	453	19	0	0	0	0	0	0	0	0	19	0
Pace U.	453	19	19	0	0	0	0	0	0	0	0	0
U. of the Pacific	456	18	0	0	18	0	0	0	0	0	0	0
West Virginia State U.	456	18	0	0	18	0	0	0	0	0	0	0
Franklin W. Olin C. of Engineering	458	16	0	0	0	0	0	0	0	0	16	0
Seattle U.	458	16	0	0	0	0	0	0	0	0	16	0
Fairfield U.	460	15	0	0	0	0	0	0	0	0	15	0
SUNY, Oswego	460	15	0	0	0	0	0	0	0	0	15	0
Alabama State U.	462	14	0	0	0	0	0	0	0	0	14	0
California State U., Channel Islands	462	14	0	0	0	0	14	0	0	0	0	0
CUNY, John Jay C. of Criminal Justice	462	14	0	0	0	0	0	0	0	14	0	0
St. Mary's C. Maryland	465	13	0	0	0	0	0	0	0	0	13	0
U. Northern Colorado	466	10	0	0	10	0	0	0	0	0	0	0
Austin Peay State U.	467	8	0	0	0	0	0	0	0	0	8	0
St. Cloud State U.	467	8	8	0	0	0	0	0	0	0	0	0
Loma Linda U.	469	7	0	0	7	0	0	0	0	0	0	0
Ursinus C.	469	7	0	0	7	0	0	0	0	0	0	0
Winston-Salem State U.	469	7	0	0	0	0	7	0	0	0	0	0
Albany State U.	472	6	0	0	6	0	0	0	0	0	0	0
Clark U.	473	4	0	0	0	0	4	0	0	0	0	0
C. of Saint Benedict	474	3	i	0	i	0	1	0	0	0	0	0
U. of Health Sciences and Pharmacy in St. Louis	474	3		0		0	3	0	0	0	0	0

TABLE 60

Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Loyola Marymount U.	476	2	0	0	0	0	0	0	0	0	0	2
Hofstra U.	477	1	1	0	0	0	0	0	0	0	0	0
Long Island U.	477	1	0	0	1	0	0	0	0	0	0	0
Western Kentucky U.	477	1	0	0	1	0	0	0	0	0	0	0

i = imputed.

DOD = Department of Defense; nec = not elsewhere classified; S&E = science and engineering.

^a Johns Hopkins University includes the Applied Physics Laboratory, with \$1,540,628 thousand in R&D expenditures financed by DOD in FY 2023.^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.^c The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.**Note(s):**Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 61

Federally financed higher education R&D expenditures, financed by the Department of Energy, ranked by DOE R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	DOE R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	2,671,326	71,235	123,855	236,841	10,810	977,109	744	17,502	28,646	1,190,092	14,492
Michigan State U.	1	156,742	73	161	19,101	377	129,934	0	112	0	6,923	61
U. Rochester	2	106,915	10	0	197	0	104,370	0	0	0	2,338	0
U. Illinois, Urbana-Champaign	3	95,415	3,736	7,057	23,653	290	11,343	554	673	29	47,510	570
U. Wisconsin-Madison	4	90,201	1,478	2,257	28,308	18	22,713	0	0	229	35,198	0
Massachusetts Institute of Technology	5	89,574	1,785	1,164	295	443	44,218	0	627	718	40,096	228
U. Texas, Austin	6	59,115	1,820	10,004	4,108	1,194	12,852	3	0	0	28,664	470
U. Tennessee, Knoxville	7	57,048	3,723	79	3,730	174	9,550	0	0	3,661	34,639	1,492
U. Utah	8	54,890	0	1,739	149	0	4,786	0	0	0	48,215	1
U. California, Berkeley	9	51,123	377	2,110	6,677	297	15,632	0	390	3,435	22,188	17
U. Michigan, Ann Arbor	10	48,259	14	137	2,006	0	8,546	0	20	0	37,536	0
Texas A&M U., College Station and Health Science Center	11	47,421	353	1,694	3,550	135	13,841	0	567	144	26,447	690
U. California, Los Angeles	12	45,265	193	3,185	3,226	10	15,708	0	39	13,028	9,865	11
Pennsylvania State U., University Park and Hershey Medical Center	13	44,141	1,065	4,312	3,161	604	6,934	101	1,118	0	26,553	293
U. Washington, Seattle	14	41,413	106	2,306	5,428	54	20,441	0	0	0	12,782	296
U. California, San Diego	15	38,680	326	2,202	3,814	0	22,112	0	476	0	8,289	1,461
Purdue U., West Lafayette	16	35,887	1,681	251	1,988	0	9,270	0	263	0	22,294	140
U. Colorado Boulder	17	34,983	443	3,580	47	376	13,851	0	0	28	16,658	0
Iowa State U.	18	34,045	0	716	3,427	119	17,374	0	0	0	12,235	174
Northwestern U.	19	33,607	898	97	1,447	0	16,747	0	4,383	433	9,602	0
Ohio State U.	20	32,099	723	231	1,695	23	8,692	0	144	297	20,264	30
Stanford U.	21	31,180	1,657	2,034	1,909	0	7,401	0	0	0	18,179	0
Cornell U.	22	31,129	402	173	1,639	34	12,931	0	0	0	15,950	0
North Carolina State U.	23	29,033	413	224	1,562	209	6,071	0	0	0	20,536	18
Princeton U.	24	28,060	470	1,080	1,155	0	11,854	0	0	0	13,501	0
U. Minnesota, Twin Cities	25	28,058	186	87	3,194	0	13,334	0	157	17	11,069	14
New Mexico Institute of Mining and Technology	26	27,550	305	1,442	55	0	172	0	0	0	25,557	19
U. Maryland ^a	27	26,542	2,509	829	528	0	10,193	0	74	0	12,409	0
Georgia Institute of Technology	28	26,089	283	630	620	0	1,431	0	0	0	22,888	237
Colorado School of Mines	29	25,289	424	1,205	293	53	6,565	0	445	236	16,068	0
Columbia U. in the City of New York	30	25,171	1,049	1,741	500	0	7,081	0	108	0	14,692	0
U. California, Santa Barbara	31	24,864	647	172	0	0	6,355	0	91	374	17,225	0
SUNY, Stony Brook U.	32	24,003	297	1,494	320	279	13,574	0	0	2,234	5,805	0
California Institute of Technology	33	23,660	324	1,180	0	0	13,348	0	0	0	8,808	0

TABLE 61

Federally financed higher education R&D expenditures, financed by the Department of Energy, ranked by DOE R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	DOE R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Arizona State U.	34	23,210	80	47	3,191	186	6,329	2	892	141	12,255	87
Washington State U.	35	21,866	95	2,078	3,141	66	8,532	0	0	527	7,143	284
U. California, Irvine	36	21,818	237	2,291	933	0	11,642	0	0	0	6,715	0
Colorado State U., Fort Collins	37	21,728	0	1,739	2,622	0	6,279	0	64	31	10,993	0
U. California, Davis	38	21,400	847	286	6,755	260	5,769	0	225	0	7,049	209
U. North Dakota	39	20,901	0	85	0	0	61	0	23	0	20,732	0
Oregon State U.	40	20,667	0	1,363	1,744	38	805	0	0	0	16,707	10
Harvard U.	41	20,120	317	542	3,713	0	14,228	0	227	0	1,093	0
Virginia Polytechnic Institute and State U.	42	19,297	1,039	277	559	106	2,445	0	0	0	14,871	0
U. Chicago	43	19,106	2,264	758	321	186	7,132	0	188	0	8,257	0
Duke U.	44	18,482	16	1,172	1,178	102	10,718	0	0	0	5,296	0
U. Georgia	45	16,977	0	114	15,216	35	387	0	386	0	839	0
Carnegie Mellon U.	46	16,363	2,035	197	0	0	5,434	0	17	0	8,680	0
U. Notre Dame	47	15,960	35	0	333	0	7,726	0	150	0	7,716	0
U. Florida	48	15,711	466	129	3,575	0	5,373	0	0	0	6,168	0
U. Delaware	49	15,436	169	517	510	23	2,468	0	0	521	11,228	0
U. Pennsylvania	50	15,424	0	0	216	0	12,415	0	0	0	2,526	267
U. New Mexico	51	15,295	1,190	263	1,443	452	2,172	28	23	0	9,592	132
U. Maine	52	14,654	0	0	22	0	1,458	0	0	0	13,174	0
West Virginia U.	53	13,777	0	1,336	853	0	2,719	0	67	0	8,802	0
U. Virginia, Charlottesville	54	13,314	323	110	133	0	6,272	0	111	0	6,299	66
U. Pittsburgh, Pittsburgh	55	13,238	0	143	165	1	3,679	0	0	0	9,250	0
U. Illinois, Chicago	56	12,844	47	397	0	0	6,773	0	0	0	5,627	0
U. Nebraska, Lincoln and Medical Center ^b	57	12,226	144	0	3,555	20	3,731	0	0	0	4,776	0
U. Wyoming	58	12,148	377	4,295	265	0	334	0	0	0	6,877	0
Vanderbilt U. and Vanderbilt U. Medical Center	59	11,932	1,273	0	141	0	1,953	0	0	0	8,475	90
Rensselaer Polytechnic Institute	60	11,714	131	0	0	159	1,218	0	0	0	9,232	974
Johns Hopkins U. ^c	61	11,671	634	331	19	168	3,979	0	208	219	6,113	0
Rice U.	62	11,116	1,526	1,843	255	139	3,958	0	0	0	3,395	0
U. Arizona	63	10,952	171	505	2,156	240	3,130	0	17	0	4,543	190
U. Central Florida	64	10,896	1,610	3,273	0	0	1,024	0	79	0	4,904	6
Florida State U.	65	10,765	129	27	0	137	6,344	0	0	101	4,010	17
U. North Carolina, Chapel Hill	66	10,693	242	259	478	0	9,630	0	0	0	84	0
Yale U.	67	10,539	0	218	1,109	0	8,034	0	0	0	1,169	9

TABLE 61

Federally financed higher education R&D expenditures, financed by the Department of Energy, ranked by DOE R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	DOE R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Southern California	68	10,477	2,842	278	1,202	0	2,690	0	108	0	3,357	0
U. Kentucky	69	10,455	44	105	299	0	2,133	0	0	66	7,751	57
Florida International U.	70	10,226	0	8	0	0	1,660	0	0	0	8,558	0
U. South Carolina, Columbia	71	10,157	88	0	3,589	217	216	0	869	0	5,098	80
Case Western Reserve U.	72	9,990	61	0	56	0	853	0	0	0	8,980	40
CUNY, Queens C.	73	9,893	0	51	9,468	0	374	0	0	0	0	0
U. Texas, San Antonio	74	9,876	5,745	122	0	0	643	0	4	0	3,362	0
U. Oklahoma, Norman and Health Science Center	75	9,640	144	2,406	888	0	1,442	0	765	0	3,971	24
SUNY, U. Buffalo	76	9,551	2,316	170	308	0	1,208	0	0	0	5,549	0
U. Alaska, Fairbanks	77	9,402	0	4,163	484	0	259	0	66	6	4,424	0
Kansas State U.	78	9,349	71	0	970	0	5,850	0	0	0	2,458	0
U. Nevada, Reno	79	9,314	0	1,770	272	0	3,619	0	19	29	3,605	0
Rutgers, State U. New Jersey, New Brunswick	80	9,245	0	304	1,263	90	3,806	0	0	0	3,710	72
Mississippi State U.	81	9,088	0	124	1,403	0	1,246	0	0	0	6,315	0
U. Oregon	82	9,006	3,314	137	623	0	4,828	0	0	0	0	104
U. Connecticut	83	8,592	18	0	282	34	3,183	0	22	0	5,053	0
Washington U., Saint Louis	84	8,503	116	550	697	0	2,638	0	0	0	4,502	0
U. Houston	85	8,303	127	930	19	0	1,632	0	0	69	5,321	205
Clemson U.	86	8,141	31	0	1,522	26	458	0	0	0	6,104	0
Boston U.	87	8,055	772	307	1,114	0	3,552	0	0	0	2,310	0
U. Massachusetts, Amherst	88	7,985	0	251	814	0	4,353	0	62	0	2,505	0
Missouri U. of Science and Technology	89	7,851	89	0	0	0	301	0	0	0	7,461	0
Brown U.	90	7,733	0	72	0	862	4,410	0	0	82	2,307	0
U. California, Riverside	91	7,693	617	278	787	117	2,459	0	0	0	3,435	0
New Mexico State U.	92	7,663	270	253	163	0	851	0	0	0	6,105	21
Texas Tech U.	93	7,136	5	582	39	21	999	0	0	0	5,490	0
U. California, Santa Cruz	94	6,895	123	720	3	0	4,938	0	0	0	1,111	0
Michigan Technological U.	95	6,662	0	1,263	348	0	137	0	10	0	4,904	0
Lehigh U.	96	6,430	94	0	0	0	426	0	560	0	5,350	0
Illinois Institute of Technology	97	6,361	881	0	60	37	2,247	0	0	0	3,136	0
Indiana U., Bloomington	98	6,277	0	580	259	0	4,379	0	504	0	555	0
Louisiana State U., Baton Rouge	99	6,220	689	77	381	0	3,373	0	76	66	1,558	0
Desert Research Institute	100	6,210	0	6,210	0	0	0	0	0	0	0	0
U. Toledo	100	6,210	0	1,864	0	0	2,776	0	0	0	1,414	156

TABLE 61

Federally financed higher education R&D expenditures, financed by the Department of Energy, ranked by DOE R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	DOE R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Auburn U., Auburn	102	6,113	353	0	351	97	2,560	0	0	0	2,752	0
Oklahoma State U., Stillwater	103	6,090	0	660	1,082	0	1,479	0	13	0	2,823	33
U. Kansas	104	6,051	80	1,376	372	0	2,131	0	38	0	2,012	42
U. Arkansas, Fayetteville	105	5,913	634	648	66	0	589	0	0	0	3,976	0
U. Hawaii, Manoa	106	5,895	479	1,324	136	0	2,380	0	0	599	977	0
Northeastern U.	107	5,837	23	0	17	35	1,462	0	0	0	4,300	0
U. Nevada, Las Vegas	108	5,695	175	283	225	0	2,772	0	0	0	2,240	0
Dartmouth C. and Dartmouth Hitchcock Medical Center	109	5,618	0	0	366	17	630	0	79	0	4,526	0
U. Alabama, Tuscaloosa	110	5,599	120	276	188	123	1,934	0	0	0	2,958	0
U. New Hampshire	111	5,360	0	1,344	5	0	986	0	753	0	2,272	0
Montana State U., Bozeman	112	5,355	0	1,238	2,477	0	484	0	0	0	1,156	0
U. Texas, El Paso	113	5,238	417	95	162	13	1,223	0	0	0	3,324	4
U. Massachusetts, Lowell	114	5,058	106	0	0	0	1,719	0	0	0	3,222	11
U. Missouri, Columbia	115	4,912	0	32	993	0	2,115	0	0	0	1,772	0
U. Idaho	116	4,777	479	293	2,293	0	296	24	34	0	1,358	0
Old Dominion U.	117	4,621	142	0	0	114	3,078	0	0	0	1,195	92
U. North Carolina, Charlotte	118	4,525	0	0	0	0	52	0	0	0	4,473	0
U. Iowa	119	4,514	153	0	1	0	3,765	0	0	0	595	0
U. Cincinnati	120	4,401	0	21	48	0	1,676	0	0	0	2,656	0
New York U.	121	4,386	314	0	256	231	2,564	0	0	0	977	44
Ohio U.	122	4,303	0	1,505	109	0	2,622	0	0	0	67	0
U. Texas, Dallas	123	4,243	0	0	0	15	567	8	0	0	3,522	131
Boise State U.	124	4,229	5	54	41	0	2,889	0	66	0	1,174	0
Catholic U. of America	125	4,193	0	0	0	0	4,193	0	0	0	0	0
Utah State U.	126	4,134	0	0	307	0	703	0	0	0	3,124	0
Brigham Young U., Provo	127	4,032	134	3	0	0	714	0	0	0	3,181	0
U. North Texas, Denton	128	3,793	53	0	1,125	0	810	0	0	0	1,805	0
Idaho State U.	129	3,593	414	277	109	0	265	24	0	0	2,504	0
Northern Illinois U.	130	3,536	331	56	0	0	2,860	0	0	0	260	29
U. Texas, Arlington	131	3,474	0	0	0	0	2,732	0	0	0	742	0
Temple U.	132	3,408	281	0	3	48	2,628	0	85	0	363	0
Florida A&M U.	133	3,360	0	11	0	28	1,782	0	0	0	1,539	0
Wayne State U.	134	3,296	0	0	13	0	2,804	0	0	0	468	11
Western Michigan U. and Homer Stryker M.D. School of Medicine	135	3,292	0	5	0	0	32	0	0	0	3,255	0

TABLE 61

Federally financed higher education R&D expenditures, financed by the Department of Energy, ranked by DOE R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	DOE R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
William & Mary	136	3,284	698	185	0	0	2,112	0	0	0	0	289
Tufts U.	137	3,281	0	0	0	71	1,556	0	0	0	1,654	0
Worcester Polytechnic Institute	138	3,200	0	0	0	0	0	0	0	0	3,200	0
North Carolina A&T State U.	139	3,132	232	0	199	0	880	0	0	85	1,736	0
Syracuse U.	140	2,964	0	0	24	0	954	0	10	0	1,379	597
Marquette U.	141	2,952	0	0	0	0	83	0	0	0	2,869	0
U. South Florida	142	2,748	0	28	0	0	768	0	10	0	1,601	341
George Washington U.	143	2,739	168	0	61	0	2,012	0	0	0	492	6
U. Wisconsin-Milwaukee	144	2,698	0	482	1,020	89	330	0	0	0	777	0
CUNY, City C.	145	2,683	0	0	228	0	481	0	0	0	1,783	191
Woods Hole Oceanographic Institution	146	2,666	0	1,900	0	0	0	0	0	0	766	0
Northern Arizona U.	147	2,659	53	97	1,903	0	0	0	0	0	606	0
U. Louisiana, Lafayette	148	2,600	0	87	0	0	47	0	0	0	2,466	0
Rochester Institute of Technology	149	2,565	247	0	0	0	733	0	0	0	1,585	0
Tennessee Technological U.	150	2,460	33	0	0	0	286	0	0	0	1,872	269
Emory U.	151	2,346	0	156	29	114	1,958	0	0	0	89	0
South Dakota School of Mines and Technology	152	2,290	0	0	0	0	1,460	0	0	0	830	0
Illinois State U.	153	2,286	0	0	2,286	0	0	0	0	0	0	0
Drexel U.	154	2,239	68	0	0	0	568	0	0	0	1,603	0
Brandeis U.	155	2,055	49	0	0	0	2,006	0	0	0	0	0
U. Maryland, Baltimore County	156	2,044	0	438	0	0	1,431	0	0	0	4	171
U. Alabama, Birmingham	157	1,949	0	0	858	0	783	0	0	0	308	0
U. California, Merced	158	1,927	0	125	0	158	879	0	42	301	422	0
U. Miami	159	1,772	42	682	112	0	91	0	0	0	845	0
U. Texas Rio Grande Valley	160	1,709	0	89	0	0	217	0	0	0	1,403	0
Virginia Commonwealth U.	161	1,708	234	0	88	0	605	0	0	0	781	0
U. Rhode Island	162	1,652	0	543	525	0	414	0	0	0	170	0
Central Michigan U.	163	1,651	0	10	0	0	1,641	0	0	0	0	0
Baylor U.	164	1,647	0	341	374	132	690	0	0	0	110	0
Air Force Institute of Technology	165	1,607	0	0	0	0	946	0	0	0	661	0
SUNY, U. Albany	166	1,498	0	363	0	0	499	0	0	0	636	0
Portland State U.	167	1,479	25	0	77	169	0	0	0	0	1,208	0
U. Louisville	168	1,455	0	0	0	0	130	0	0	0	1,325	0
Naval Postgraduate School	169	1,357	207	461	0	13	0	0	524	0	152	0

TABLE 61

Federally financed higher education R&D expenditures, financed by the Department of Energy, ranked by DOE R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	DOE R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields	
Stevens Institute of Technology	170	1,345	0	0	0	0	147	0	88	0	1,110	0	
U. Akron	171	1,335	0	5	9	0	1,209	0	0	0	77	35	
San Diego State U.	172	1,334	0	40	62	0	737	0	0	0	429	66	
U. Ana G. Mendez, Gurabo	173	1,318	0	0	0	0	0	0	0	0	0	1,318	
Southern Methodist U.	174	1,302	0	0	0	92	864	0	0	0	346	0	
U. California, San Francisco	175	1,296	0	0	567	0	729	0	0	0	0	0	
SUNY, Binghamton U.	176	1,282	0	0	0	0	491	0	0	0	791	0	
Georgetown U.	177	1,253	0	0	85	0	1,168	0	0	0	0	0	
North Carolina Central U.	178	1,236	i	0	i	0	i	0	i	0	i	0	i
Indiana U.-Purdue U., Indianapolis	179	1,205	126	0	0	0	0	0	32	0	932	115	
Tulane U.	180	1,202	55	0	25	22	516	0	0	0	168	416	
Purdue U., Northwest	181	1,199	0	0	0	0	0	0	0	0	1,199	0	
U. Alabama, Huntsville	182	1,177	0	569	0	0	446	0	0	0	162	0	
SUNY, Polytechnic Institute	183	1,149	0	0	0	0	0	0	0	0	1,149	0	
Kent State U.	184	1,142	0	169	0	0	948	0	0	0	25	0	
U. Tennessee, Chattanooga	185	1,136	0	0	0	0	0	0	0	789	347	0	
Hampton U.	186	1,122	0	0	94	490	512	0	0	0	26	0	
George Mason U.	187	1,057	20	95	0	0	194	0	0	0	748	0	
Georgia State U.	188	1,022	0	44	0	0	945	0	33	0	0	0	
North Dakota State U.	189	1,011	0	0	0	0	670	0	0	0	337	4	
U. Dayton	190	987	4	0	0	0	0	0	0	0	983	0	
New Jersey Institute of Technology	191	974	204	0	35	0	84	0	0	0	475	176	
Boston C.	192	952	0	0	0	0	952	0	0	0	0	0	
San Jose State U.	193	909	0	226	80	36	221	0	0	0	290	56	
U. Mississippi	194	901	0	0	0	0	829	0	0	0	72	0	
U. Vermont	195	886	82	0	0	0	28	0	0	0	776	0	
Tennessee State U.	196	879	0	0	60	0	223	0	0	0	216	380	
U. Montana, Missoula	197	878	72	551	201	0	54	0	0	0	0	0	
U. Maryland Center for Environmental Science	198	855	0	280	575	0	0	0	0	0	0	0	
U. Puerto Rico, Mayaguez	199	843	0	0	0	0	11	0	0	0	832	0	
Abilene Christian U.	200	836	0	0	0	0	836	0	0	0	0	0	
CUNY, Hunter C.	201	828	0	0	0	0	828	0	0	0	0	0	
U. Tulsa	202	819	0	0	0	0	0	0	0	0	819	0	
Wichita State U.	203	749	0	0	0	0	121	0	0	0	628	0	

TABLE 61

Federally financed higher education R&D expenditures, financed by the Department of Energy, ranked by DOE R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	DOE R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Alabama A&M U.	204	747	18	0	94	0	259	0	0	0	370	6
Lamar U.	205	678	0	0	0	0	20	0	0	0	658	0
Florida Atlantic U.	206	642	0	60	0	0	0	0	0	0	582	0
Norfolk State U.	207	641	35	0	0	0	0	0	0	0	606	0
Prairie View A&M U.	208	622	0	0	2	0	406	0	0	0	214	0
Howard U.	209	610	0	0	0	0	484	0	0	0	118	8
East Carolina U.	210	591	0	591	0	0	0	0	0	0	0	0
Florida Institute of Technology	211	583	0	69	0	0	514	0	0	0	0	0
Saginaw Valley State U.	212	581	1	0	580	0	0	0	0	0	0	0
California Polytechnic State U., San Luis Obispo	213	573	0	0	13	0	242	0	0	0	318	0
Clafin U.	214	571	306	1	0	0	264	0	0	0	0	0
Texas State U.	214	571	295	0	0	0	27	0	0	0	249	0
U. of the District of Columbia	216	565	0	0	0	0	0	0	0	0	305	260
South Carolina State U.	217	558	7	0	467	0	0	0	0	0	84	0
U. Minnesota, Duluth	218	554	0	0	554	0	0	0	0	0	0	0
SUNY, Geneseo	219	553	0	0	0	0	553	0	0	0	0	0
Pace U.	220	547	0	0	0	0	0	0	0	0	547	0
U. Memphis	221	536	0	143	0	0	0	0	0	0	393	0
CUNY, Advanced Science Research Center	222	488	0	0	2	0	444	0	0	0	42	0
Alfred U.	223	477	0	0	0	0	0	0	0	0	477	0
Benedict C.	224	467	0	0	0	0	1	0	0	0	466	0
Montana Technological U.	225	457	0	136	0	0	0	0	0	0	321	0
Wake Forest U.	226	446	24	0	0	20	386	0	0	0	16	0
Jackson State U.	227	435	0	0	0	0	391	0	0	0	44	0
U. South Dakota	228	433	0	0	0	0	433	0	0	0	0	0
Louisiana Tech U.	229	405	0	0	112	0	8	0	0	0	285	0
Cold Spring Harbor Laboratory	230	397	0	0	397	0	0	0	0	0	0	0
Cleveland State U.	231	396	0	0	0	0	219	0	0	0	177	0
Meharry Medical C.	231	396	0	0	396	0	0	0	0	0	0	0
U. Texas Medical Branch	233	389	0	0	389	0	0	0	0	0	0	0
Scripps Research Institute	234	388	0	0	388	0	0	0	0	0	0	0
Southern Illinois U., Carbondale	235	383	0	124	5	0	197	0	0	0	57	0
Bowling Green State U.	236	373	0	0	0	0	373	0	0	0	0	0
U. South Alabama	237	365	0	0	0	0	120	0	0	0	245	0

TABLE 61

Federally financed higher education R&D expenditures, financed by the Department of Energy, ranked by DOE R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	DOE R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Florida Polytechnic U.	238	364	0	0	0	0	0	0	0	0	364	0
Morehouse C.	239	358	0	0	0	0	358	0	0	0	0	0
CUNY, York C.	240	349	0	349	0	0	0	0	0	0	0	0
United Tribes Technical C.	240	349	0	0	0	0	0	0	0	0	349	0
CUNY, Baruch C.	242	347	0	0	0	0	347	0	0	0	0	0
U. Alaska, Anchorage	243	339	0	61	123	0	0	0	9	0	146	0
U. Colorado Denver	244	330	0	0	236	0	94	0	0	0	0	0
San Francisco State U.	245	319	98	0	0	0	221	0	0	0	0	0
Albert Einstein C. of Medicine	246	314	0	0	314	0	0	0	0	0	0	0
Creighton U.	247	308	14	0	13	1	272	0	3	0	0	5
U. Southern Mississippi	248	306	0	0	0	0	306	0	0	0	0	0
Clarkson U.	249	294	0	0	0	0	1	0	0	0	293	0
Savannah State U.	250	292	0	146	0	0	0	0	0	0	146	0
California State U., East Bay	251	290	0	180	0	0	110	0	0	0	0	0
Georgia Southern U.	252	287	0	0	0	0	0	0	0	0	287	0
South Dakota State U.	253	283	0	0	95	0	0	0	0	0	188	0
Saint Louis U.	254	282	38	0	244	0	0	0	0	0	0	0
Clark Atlanta U.	255	266	0	0	0	0	152	0	0	0	114	0
Virginia State U.	256	265	0	0	0	0	97	0	0	0	168	0
U. Puerto Rico, Rio Piedras	257	263	0	55	0	0	208	0	0	0	0	0
California State U., Northridge	258	240	0	0	0	0	163	0	0	0	77	0
California State U., Long Beach	259	236	0	82	0	0	122	0	0	0	32	0
Coastal Carolina U.	260	231	207	24	0	0	0	0	0	0	0	0
U. Colorado Colorado Springs	261	230	22	0	17	0	0	0	0	0	191	0
California State Polytechnic U., Pomona	262	227	0	0	0	0	72	0	0	0	155	0
Wright State U.	263	226	211	0	0	0	0	0	0	0	15	0
Rutgers, State U. New Jersey, Newark	264	225	0	28	0	0	197	0	0	0	0	0
Van Andel Research Institute	265	217	0	0	217	0	0	0	0	0	0	0
Christopher Newport U.	266	216	0	0	0	0	216	0	0	0	0	0
U. Texas Southwestern Medical Center	267	212	0	0	212	0	0	0	0	0	0	0
Eastern Washington U.	268	210	0	0	210	0	0	0	0	0	0	0
U. Michigan, Dearborn	268	210	0	0	0	0	0	0	0	0	210	0
Minnesota State U., Mankato	270	206	124	0	0	0	0	0	0	0	82	0
Fisk U.	271	194	193	0	1	0	0	0	0	0	0	0

TABLE 61

Federally financed higher education R&D expenditures, financed by the Department of Energy, ranked by DOE R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	DOE R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Southern U. and A&M C., Baton Rouge	272	191	171	0	0	0	0	0	0	0	20	0
U. Arkansas, Little Rock	273	189	189	0	0	0	0	0	0	0	0	0
Embry-Riddle Aeronautical U.	274	187	0	0	0	0	187	0	0	0	0	0
U. Massachusetts, Medical School	274	187	0	0	187	0	0	0	0	0	0	0
CUNY, Brooklyn C.	276	182	0	0	0	0	182	0	0	0	0	0
Western Illinois U.	277	180	0	0	180	0	0	0	0	0	0	0
U. Texas Health Science Center, Tyler	278	178	0	0	178	0	0	0	0	0	0	0
Chicago State U.	279	170	0	0	0	0	0	0	170	0	0	0
American U.	280	162	0	0	0	130	0	0	32	0	0	0
Texas A&M U.-Commerce	281	152	0	0	0	0	152	0	0	0	0	0
U. Missouri, Kansas City	282	150	4	0	0	0	109	0	33	0	4	0
CUNY, Lehman C.	283	149	0	0	0	0	149	0	0	0	0	0
Texas Christian U.	284	143	0	143	0	0	0	0	0	0	0	0
U. Central Oklahoma	285	142 i	0 i	0 i	120 i	0 i	17 i	0 i	3 i	0 i	1 i	1 i
Villanova U.	285	142	0	0	0	0	0	0	0	0	142	0
U. Maryland, Eastern Shore	287	135	0	0	135	0	0	0	0	0	0	0
Texas A&M U.-Corpus Christi	288	132	0	0	8	0	0	0	0	0	124	0
Morgan State U.	289	131	0	0	0	0	51	0	0	0	80	0
Arkansas State U., Jonesboro	290	130	0	0	0	0	0	0	0	0	130	0
U. Denver	290	130	0	0	0	0	0	0	0	0	130	0
U. South Carolina, Aiken	292	126	0	0	0	0	0	0	0	0	126	0
California State U., Channel Islands	293	125	125	0	0	0	0	0	0	0	0	0
Claremont Graduate U.	294	122	0	0	0	122	0	0	0	0	0	0
U. Richmond	294	122	0	0	0	0	122	0	0	0	0	0
California State U., Los Angeles	296	119	0	0	0	0	62	0	0	0	57	0
SUNY, C. of Environmental Science and Forestry	296	119	0	33	0	0	0	0	0	0	86	0
Thomas Jefferson U.	296	119	0	0	119	0	0	0	0	0	0	0
Oregon Health and Science U.	299	118	0	0	118	0	0	0	0	0	0	0
Murray State U.	300	116	0	116	0	0	0	0	0	0	0	0
U. North Carolina, Wilmington	301	114	0	0	69	0	45	0	0	0	0	0
Southern Illinois U., Edwardsville	302	107	0	0	0	0	107	0	0	0	0	0
Pennsylvania State U., Behrend	303	105	0	0	44	0	8	0	0	0	53	0
DePaul U.	304	101	0	0	101	0	0	0	0	0	0	0
U. Guam	305	95	0	0	0	0	95	0	0	0	0	0

TABLE 61

Federally financed higher education R&D expenditures, financed by the Department of Energy, ranked by DOE R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	DOE R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Southern Connecticut State U.	339	37	0	0	0	0	37	0	0	0	0	0
U. San Diego	339	37	0	0	37	0	0	0	0	0	0	0
Wesleyan U.	339	37	0	0	0	0	37	0	0	0	0	0
Davidson C.	343	35	0	0	0	0	35	0	0	0	0	0
Appalachian State U.	344	32	0	0	32	0	0	0	0	0	0	0
U. Hawaii, Hilo	345	31	0	0	31	0	0	0	0	0	0	0
Middlebury C.	346	30	0	6	0	0	24	0	0	0	0	0
C. New Jersey	347	29	0	0	0	0	25	0	0	0	4	0
Oakland U.	348	27	0	0	0	0	27	0	0	0	0	0
Smith C.	348	27	0	0	0	0	0	0	0	0	27	0
U. New England	348	27	0	27	0	0	0	0	0	0	0	0
U. Texas Health Science Center, Houston	351	25	0	0	25	0	0	0	0	0	0	0
SUNY, Oswego	352	24	0	24	0	0	0	0	0	0	0	0
Williams C.	352	24 i	6 i	1 i	0 i	0 i	17 i	0 i	0 i	0 i	0 i	0 i
U. Wisconsin-Platteville	354	23 i	0 i	0 i	15 i	1 i	3 i	0 i	0 i	0 i	4 i	0 i
Duquesne U.	355	21	0	0	0	0	21	0	0	0	0	0
Wheaton C., Wheaton	355	21	0	21	0	0	0	0	0	0	0	0
Xavier U. Louisiana	357	20	0	0	0	0	20	0	0	0	0	0
Bucknell U.	358	19	0	0	0	0	0	0	0	0	19	0
U. Hartford	359	17	0	0	0	0	17	0	0	0	0	0
U.S. Naval Academy	359	17	0	0	0	0	0	0	0	0	17	0
Dillard U.	361	16	0	0	0	0	16	0	0	0	0	0
Indiana State U.	361	16	0	0	0	0	16	0	0	0	0	0
Lafayette C.	361	16	0	0	0	0	0	0	0	0	16	0
CUNY, New York City C. of Technology	364	15	0	0	0	0	0	0	0	0	0	15
Drake U.	364	15	0	0	15	0	0	0	0	0	0	0
Robert Morris U.	364	15	0	0	0	0	0	0	0	0	15	0
Albany State U.	367	14	0	0	14	0	0	0	0	0	0	0
Harvey Mudd C.	367	14	0	0	0	0	0	0	0	0	14	0
Loma Linda U.	367	14	0	0	14	0	0	0	0	0	0	0
U. Southern Maine	367	14	0	0	0	0	0	0	0	0	14	0
Ursinus C.	367	14	0	0	14	0	0	0	0	0	0	0
Chapman U.	372	13	0	0	0	0	13	0	0	0	0	0
U.S. Coast Guard Academy	372	13	0	0	0	0	0	0	13	0	0	0

TABLE 61

Federally financed higher education R&D expenditures, financed by the Department of Energy, ranked by DOE R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	DOE R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. West Florida	374	12	0	0	12	0	0	0	0	0	0	0
Swarthmore C.	375	11	0	0	0	0	10	0	0	0	1	0
U. Arkansas, Pine Bluff	376	10	0	0	0	0	10	0	0	0	0	0
U. Central Arkansas	376	10	0	0	0	0	10	0	0	0	0	0
Bates C.	378	9	0	0	0	0	9	0	0	0	0	0
Rockefeller U.	378	9	0	0	9	0	0	0	0	0	0	0
Youngstown State U.	380	8	8	0	0	0	0	0	0	0	0	0
James Madison U.	381	7	0	0	0	0	7	0	0	0	0	0
Marshall U.	381	7	0	5	0	0	2	0	0	0	0	0
Bowie State U.	383	6	0	0	0	6	0	0	0	0	0	0
U. Hawaii, Maui C.	383	6	0	0	0	0	6	0	0	0	0	0
California State U., Stanislaus	385	5	0	0	0	0	5	0	0	0	0	0
U. North Carolina, Asheville	386	4	0	4	0	0	0	0	0	0	0	0
U. Wisconsin-Stevens Point	386	4	0	0	4	0	0	0	0	0	0	0
C. Charleston	388	3	0	0	0	0	0	0	0	0	3	0
Colgate U.	388	3	0	0	0	3	0	0	0	0	0	0
Oberlin C.	388	3	0	0	0	0	3	0	0	0	0	0
Western New England U.	388	3	0	0	0	0	0	0	0	0	3	0
Carleton C.	392	1 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	1 i	0 i
Northland C.	392	1 i	0 i	0 i	0 i	1 i	0 i	0 i	0 i	0 i	0 i	0 i
U.S. Military Academy	392	1	0	0	0	0	0	0	0	0	1	0

i = imputed.

DOE = Department of Energy; nec = not elsewhere classified; S&E = science and engineering.

^a The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^b The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

^c Johns Hopkins University includes the Applied Physics Laboratory, with \$577 thousand in R&D expenditures financed by DOE in FY 2023.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 62
Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	33,097,927	194,801	59,854	28,903,440	73,821	729,009	713,565	505,495	137,975	1,346,015	433,952
Johns Hopkins U. ^a	1	919,852	16,143	5,652	816,245	623	6,108	6,311	1,890	0	66,608	272
Duke U.	2	833,339	1,864	0	758,843	1,397	4,647	6,731	19,835	0	39,979	43
U. California, San Francisco	3	795,553	0	0	765,476	0	30,077	0	0	0	0	0
U. Pennsylvania	4	784,145	732	0	733,734	1,790	10,982	6,059	4,750	0	20,738	5,360
U. Pittsburgh, Pittsburgh	5	777,420	2,313	7,863	722,640	1,451	5,168	13,250	842	1,381	20,875	1,637
U. Washington, Seattle	6	770,184	1,458	1,862	685,712	1,414	13,730	6,905	3,068	0	36,369	19,666
Columbia U. in the City of New York	7	766,707	609	473	710,903	16	6,211	2,264	315	0	26,233	19,683
U. North Carolina, Chapel Hill	8	729,970	15,860	2,543	631,640	863	9,296	14,133	20,163	0	14,028	21,444
U. Michigan, Ann Arbor	9	728,763	3,206	249	594,626	1,280	11,051	6,873	81,047	0	27,163	3,268
Stanford U.	10	712,159	658	313	652,803	1,192	22,662	8,539	994	0	24,610	388
New York U.	11	696,483	1,788	0	654,950	1,274	5,277	18,783	1,705	0	2,549	10,157
Washington U., Saint Louis	12	689,724	313	0	633,138	22	12,118	6,681	40	0	12,738	24,674
U. California, San Diego	13	688,073	805	4,078	602,838	0	23,414	7,283	34	0	32,999	16,622
U. California, Los Angeles	14	652,981	1,333	28	604,928	434	9,439	12,085	6,472	3,365	11,481	3,416
Vanderbilt U. and Vanderbilt U. Medical Center	15	647,384	532	0	598,701	39	11,362	8,722	71	0	21,255	6,702
Yale U.	16	639,636	165	0	614,818	155	8,238	5,728	1,726	0	8,806	0
Emory U.	17	630,229	1,347	1,391	600,930	149	7,308	3,387	579	0	14,540	598
Icahn School of Medicine at Mount Sinai	18	629,952	0	0	629,952	0	0	0	0	0	0	0
Northwestern U.	19	521,988	121	37	488,417	0	8,585	1,166	3,550	1,386	18,047	679
Harvard U.	20	490,149	4,408	10,553	394,186	13,543	12,522	1,967	32,397	190	16,980	3,403
U. Minnesota, Twin Cities	21	479,309	2,312	282	413,682	957	4,939	18,488	16,345	3	18,509	3,792
U. Wisconsin-Madison	22	465,199	68	57	390,187	33	8,677	3,887	22,065	27,566	11,037	1,622
U. Southern California	23	456,503	6,682	115	364,954	0	2,768	4,465	52,969	0	14,450	10,100
U. Colorado Anschutz Medical Campus	24	447,861	0	75	445,566	0	97	829	56	0	567	671
Ohio State U.	25	428,792	343	87	387,411	511	1,500	3,059	3,809	8,419	11,506	12,147
Cornell U.	26	423,066	1,051	0	379,894	33	20,141	2,781	1,459	0	16,578	1,129
U. Alabama, Birmingham	27	417,750	0	0	402,390	0	531	6,756	387	0	6,946	740
Case Western Reserve U.	28	388,194	3,064	0	359,607	217	1,792	898	3,250	175	17,026	2,165
U. Maryland ^b	29	382,208	2,428	652	324,603	221	3,942	9,108	7,017	749	17,788	15,700
Baylor C. of Medicine	30	377,953	0	0	377,953	0	0	0	0	0	0	0
Oregon Health and Science U.	31	359,424	0	0	347,979	0	13	0	0	0	11,432	0
U. Cincinnati	32	346,063	0	0	331,100	81	1,807	8,909	1,684	0	1,534	948

TABLE 62
Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Chicago	33	333,843	10,301	0	290,731	457	13,744	3,611	4,403	0	7,150	3,446
Indiana U., Bloomington	34	331,669	1,421	0	299,613	465	5,805	7,613	3,144	263	11,821	1,524
Boston U.	35	319,715	0	0	257,250	1,765	10,445	13,056	61	253	32,987	3,898
U. Texas Southwestern Medical Center	36	317,632	0	0	317,632	0	0	0	0	0	0	0
U. Florida	37	304,254	1,378	693	261,089	387	10,660	11,181	1,944	0	15,222	1,700
U. California, Davis	38	303,877	266	411	267,700	485	7,140	2,538	10,141	0	15,048	148
U. Utah	39	277,075	0	33	240,341	457	3,341	2,780	11,911	0	10,556	7,656
Rutgers, State U. New Jersey, New Brunswick	40	270,149	534	167	250,557	503	1,573	6,566	167	0	6,320	3,762
Scripps Research Institute	41	269,196	0	0	269,196	0	0	0	0	0	0	0
U. Texas M. D. Anderson Cancer Center	42	239,726	0	0	206,431	11,268	11,668	4,908	5,451	0	0	0
U. Virginia, Charlottesville	43	233,253	781	0	185,467	0	4,616	4,324	8	0	19,496	18,561
U. Iowa	44	232,801	954	53	214,829	250	1,178	6,574	47	3	5,209	3,704
Albert Einstein C. of Medicine	45	223,495	0	0	223,495	0	0	0	0	0	0	0
U. California, Irvine	46	221,676	2,946	0	190,540	402	6,166	4,620	96	0	13,632	3,274
U. Rochester	47	221,412	101	0	199,343	0	1,681	5,203	0	7,272	7,812	0
U. Arizona	48	219,085	965	0	197,610	528	2,851	8,000	1,443	822	6,444	422
U. Massachusetts, Medical School	49	214,698	0	0	214,698	0	0	0	0	0	0	0
U. Miami	50	210,961	1,566	873	194,594	0	585	11,514	188	0	1,641	0
U. Illinois, Chicago	51	205,543	814	0	187,496	108	4,059	882	528	219	10,006	1,431
U. Kentucky	52	191,087	0	23	175,056	352	1,265	5,135	1,354	92	5,852	1,958
Wake Forest U.	53	186,595	43	0	185,697	3	286	119	0	0	441	6
Pennsylvania State U., University Park and Hershey Medical Center	54	186,358	2,043	170	130,774	2,233	3,822	23,486	7,571	0	13,776	2,483
U. Texas Health Science Center, Houston	55	179,002	0	0	179,002	0	0	0	0	0	0	0
Brown U.	56	165,621	3,088	0	118,886	885	1,035	9,450	22,796	7,132	2,349	0
U. California, Berkeley	57	164,520	223	1,112	110,961	354	9,297	6,125	4,016	23,613	8,654	165
Massachusetts Institute of Technology	58	163,137	8,663	209	71,206	0	12,990	342	1,466	703	67,139	419
Medical U. South Carolina	59	160,174	0	0	160,174	0	0	0	0	0	0	0
Medical C. Wisconsin	60	143,675	0	0	139,884	0	0	0	0	0	3,791	0
U. South Florida	61	139,899	311	0	123,203	0	2,104	1,967	8,959	0	2,735	620
U. Nebraska, Lincoln and Medical Center ^c	62	138,888	0	0	122,612	313	4,348	6,354	2,258	0	2,347	656
Virginia Commonwealth U.	63	138,334	67	0	120,975	39	1,074	7,327	429	0	2,847	5,576
SUNY, U. Buffalo	64	137,564	6	0	120,828	331	2,320	4,092	270	260	9,278	179
U. Connecticut	65	135,171	556	72	112,090	92	2,359	11,350	498	0	5,520	2,634

TABLE 62
Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Kansas	66	134,942	0	0	108,627	0	4,722	5,259	278	0	1,414	14,642
U. Texas Health Science Center, San Antonio	67	133,227	0	0	133,227	0	0	0	0	0	0	0
U. Texas Medical Branch	68	133,123	0	0	132,616	0	0	0	0	0	507	0
U. Texas, Austin	69	128,822	1,464	0	76,472	521	4,138	9,582	10,877	0	14,838	10,930
Tulane U.	70	128,199	6	650	121,935	24	219	1,695	1,235	0	2,303	132
Texas A&M U., College Station and Health Science Center	71	123,004	642	2,374	84,737	1,112	4,965	5,147	5,193	1,018	15,600	2,216
U. New Mexico	72	120,363	40	0	109,709	221	1,370	6,109	1,887	0	1,013	14
Temple U.	73	118,846	0	0	105,060	64	2,081	7,567	521	0	1,592	1,961
Dartmouth C. and Dartmouth Hitchcock Medical Center	74	118,308	489	593	95,760	96	3,072	7,703	164	0	10,256	175
Michigan State U.	75	118,142	1,097	43	89,378	1,265	4,508	7,410	1,515	18	9,206	3,702
U. Missouri, Columbia	76	114,981	0	0	102,709	38	1,318	3,591	526	79	2,793	3,927
George Washington U.	77	114,480	240	0	106,332	161	890	2,722	712	995	2,056	372
Wayne State U.	78	103,377	342	0	88,039	0	6,806	2,373	135	239	1,476	3,967
Thomas Jefferson U.	79	102,067	0	0	102,067	0	0	0	0	0	0	0
Rockefeller U.	80	99,873	0	0	97,253	86	2,534	0	0	0	0	0
U. Georgia	81	98,339	535	0	77,986	144	1,979	14,841	339	0	1,437	1,078
Georgetown U.	82	96,381	29	0	92,776	0	959	898	1,704	0	0	15
U. Illinois, Urbana-Champaign	83	95,343	1,019	3	43,709	37	13,055	3,605	197	17	26,324	7,377
U. Oklahoma, Norman and Health Science Center	84	92,264	382	169	77,103	0	5,912	1,658	243	0	5,860	937
Rush U.	85	92,007	0	0	88,254	0	0	3,753	0	0	0	0
SUNY, Stony Brook U.	86	90,679	1,636	30	72,604	1,808	3,856	3,441	157	132	5,938	1,077
Arizona State U.	87	88,827	679	0	50,766	102	4,190	6,001	4,630	369	15,586	6,504
Tufts U.	88	88,814	107	0	60,281	432	3,766	655	295	14,704	8,328	246
U. Arkansas for Medical Sciences	89	88,064	0	0	88,064	0	0	0	0	0	0	0
Purdue U., West Lafayette	90	83,845	113	11	57,134	604	7,505	3,026	702	0	12,880	1,870
California Institute of Technology	91	81,652	295	0	59,397	0	11,948	931	1,118	0	7,963	0
U. Louisville	92	80,972	0	0	73,497	92	299	1,593	268	5	3,656	1,562
U. Vermont	93	80,259	16	0	77,088	120	401	2,069	0	0	352	213
U. North Texas, Health Science Center	94	73,730	0	0	73,124	0	0	0	606	0	0	0
U. Colorado Boulder	95	70,737	548	0	40,448	254	883	11,323	3,578	513	13,019	171
U. South Carolina, Columbia	96	66,974	450	0	58,143	289	29	6,114	78	0	528	1,343
Drexel U.	97	66,855	520	0	53,993	0	97	2,307	0	0	5,212	4,726
Colorado State U., Fort Collins	98	66,714	0	275	49,896	450	2,925	2,158	834	6,169	3,746	261

TABLE 62
Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Tennessee, Health Science Center	99	66,422	0	0	66,102	0	0	0	0	0	0	320
Washington State U.	100	65,634	1,320	0	54,826	0	1,037	2,062	1,458	451	1,329	3,151
Virginia Polytechnic Institute and State U.	101	61,996	1,496	0	43,864	190	1,681	1,369	681	0	12,703	12
Northeastern U.	102	61,331	4,100	136	21,700	33	11,316	6,049	675	0	16,153	1,169
Augusta U.	103	61,257	0	0	61,082	0	82	93	0	0	0	0
U. Mississippi	104	59,848	0	0	58,884	0	179	49	15	0	272	449
Georgia State U.	105	58,933	12	0	41,329	337	4,000	3,486	6,718	0	0	3,051
Princeton U.	106	58,218	1,004	227	45,353	338	5,261	1,062	2,468	0	2,505	0
U. California, Santa Cruz	107	56,807	0	3,622	12,850	0	8,873	83	55	0	31,324	0
West Virginia U.	108	55,509	196	55	52,162	77	928	701	17	13	855	505
U. Delaware	109	53,333	1,832	0	25,157	0	7,779	5,575	1,238	524	10,604	624
Georgia Institute of Technology	110	52,938	5,797	0	7,793	215	7,637	704	225	0	29,963	604
Florida International U.	111	52,808	733	0	26,515	0	3,379	18,015	989	0	3,127	50
North Carolina State U.	112	52,326	437	1,153	26,747	2,745	5,033	273	605	1,034	13,324	975
U. Oregon	113	51,917	0	127	27,557	0	845	16,729	209	0	4,216	2,234
Louisiana State U., Baton Rouge	114	50,097	0	524	45,077	1	2,571	325	164	0	844	591
U. Hawaii, Manoa	115	49,521	0	0	47,957	0	102	424	20	76	205	737
Carnegie Mellon U.	116	47,817	15,606	43	8,875	1,018	2,532	5,062	285	74	14,241	81
U. Houston	117	47,430	889	0	20,982	87	2,916	7,833	184	0	11,717	2,822
U. Massachusetts, Amherst	118	46,582	3,022	0	25,555	304	6,069	5,205	172	0	5,930	325
Florida State U.	119	46,547	53	0	30,808	500	1,974	7,302	1,546	644	983	2,737
Cleveland State U.	120	46,511	0	0	40,335	66	356	0	325	0	5,334	95
SUNY, U. Albany	121	46,250	15	0	41,575	19	2,251	1,223	1,136	0	14	17
Cold Spring Harbor Laboratory	122	44,859	0	0	44,859	0	0	0	0	0	0	0
U. Puerto Rico, Medical Sciences Campus	123	43,095	0	0	43,095	0	0	0	0	0	0	0
U. California, Riverside	124	42,967	140	196	29,377	630	4,872	3,824	324	1,461	2,103	40
San Diego State U.	125	40,732	0	0	19,592	19	2,304	15,174	61	0	0	3,582
Touro U., New York	126	40,008	0	0	40,008	0	0	0	0	0	0	0
Morehouse School of Medicine	127	39,186	0	0	39,186	0	0	0	0	0	0	0
U. Montana, Missoula	128	36,918	116	4	27,237	59	5,091	310	0	0	0	4,101
Saint Louis U.	129	36,662	0	34	33,378	100	2,353	74	140	0	224	359
U. Louisiana, Lafayette	130	36,026	9,362	0	26,082	0	17	0	30	0	0	535
Brandeis U.	131	35,566	102	0	21,706	0	2,852	2,889	7,104	913	0	0

TABLE 62
Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Louisiana State U., Health Sciences Center, New Orleans	132	34,595	0	0	34,595	0	0	0	0	0	0	0
Howard U.	133	33,942	4,245	0	19,742	0	3,678	94	712	0	1,182	4,289
Rice U.	134	32,746	874	0	4,568	1,217	2,725	2,336	1,374	0	19,652	0
U. Notre Dame	135	31,968	361	0	7,445	79	11,613	3,507	40	3,066	5,556	301
Iowa State U.	136	31,326	28	0	23,217	69	2,324	0	170	0	4,932	586
Oregon State U.	137	30,512	0	249	23,050	74	876	117	800	0	5,345	1
U. California, Santa Barbara	138	29,897	376	586	9,353	0	5,375	1,198	1,588	4,275	7,030	116
Van Andel Research Institute	139	29,476	0	0	29,476	0	0	0	0	0	0	0
U. Nevada, Reno	140	29,312	0	0	24,836	0	291	2,862	0	41	994	288
SUNY, Upstate Medical U.	141	28,151	0	0	28,151	0	0	0	0	0	0	0
U. Texas, Dallas	142	28,004	142	0	14,181	184	2,614	1,523	86	0	9,274	0
SUNY, Downstate Health Sciences U.	143	26,430	0	0	26,430	0	0	0	0	0	0	0
U. Rhode Island	144	26,068	150	1,860	16,504	57	132	3,085	1,407	1,761	525	587
Loyola U., Chicago	145	24,329	210	0	23,471	0	364	210	61	0	0	13
George Mason U.	146	24,211	582	90	11,025	35	840	1,506	6,246	0	3,885	2
U. Central Florida	147	23,008	571	0	11,944	48	1,049	4,412	235	0	3,647	1,102
Indiana U.-Purdue U., Indianapolis	148	22,924	402	0	12,788	47	806	2,719	3,509	0	1,718	935
U. Denver	149	22,422	0	0	5,073	0	330	6,317	1,088	0	366	9,248
U. North Dakota	150	21,948	0	0	19,358	0	200	199	0	0	204	1,987
U. New Hampshire	151	21,742	149	1	12,249	0	283	51	7,831	0	994	184
U. Texas, El Paso	152	21,672	88	0	14,152	719	3,200	2,292	275	0	666	280
Clemson U.	153	20,724	0	0	11,542	0	760	985	5	0	7,353	79
U. Texas, San Antonio	154	20,698	117	3	15,955	0	1,213	210	891	0	1,693	616
Montana State U., Bozeman	155	19,246	0	0	9,651	389	2,216	575	34	3,317	2,484	580
Auburn U., Auburn	156	18,920	0	0	11,636	0	1,399	270	330	74	2,448	2,763
Syracuse U.	157	18,297	117	0	6,670	0	3,755	894	2,200	0	1,380	3,281
CUNY, Hunter C.	158	18,145	1,156	0	6,799	129	2,295	6,482	151	0	0	1,133
Louisiana State U., Health Sciences Center, Shreveport	159	18,080	0	0	18,080	0	0	0	0	0	0	0
U. Alabama, Tuscaloosa	160	17,648	66	0	7,035	66	2,048	2,694	0	0	1,512	4,227
Boston C.	161	17,454	55	1,023	6,983	0	4,553	1,015	46	0	0	3,779
Meharry Medical C.	162	17,321	0	0	17,321	0	0	0	0	0	0	0
East Carolina U.	163	17,090	13	0	16,132	0	503	195	22	0	168	57
U. Maryland, Baltimore County	164	17,085	101	0	6,673	0	2,009	489	6,855	0	958	0

TABLE 62
Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Wyoming	165	16,804	0	0	15,964	247	0	19	0	5	563	6
U. Massachusetts, Lowell	166	16,578	1,827	0	8,815	0	414	202	1,993	0	3,228	99
U. Toledo	167	15,343	0	150	13,064	0	1,608	139	0	0	119	263
Kansas State U.	168	15,011	0	0	10,551	0	1,068	2,663	7	155	438	129
Northern Arizona U.	169	14,539	116	0	13,866	0	44	0	0	21	444	48
Rensselaer Polytechnic Institute	170	14,228	356	0	3,114	162	2,423	0	0	0	8,173	0
Texas Tech U., Health Sciences Center	171	13,810	0	0	13,789	0	0	0	0	0	0	21
Albany Medical C.	172	13,759	0	0	13,759	0	0	0	0	0	0	0
U. Texas, Arlington	173	13,742	849	0	7,691	202	1,453	424	0	0	2,198	925
U. Arkansas, Fayetteville	174	13,584	355	0	2,065	0	1,926	216	1,361	0	4,024	3,637
U. North Carolina, Greensboro	175	13,358	53	0	6,788	0	3,075	2,319	132	0	0	991
U. Tennessee, Knoxville	176	13,316	0	0	8,095	0	1,483	1,049	484	204	1,464	537
Charles R. Drew U. of Medicine and Science	177	13,297	0	0	13,297	0	0	0	0	0	0	0
Illinois Institute of Technology	178	13,250	258	0	9,129	0	0	0	0	0	3,863	0
CUNY, City C.	179	13,221	0	0	5,791	19	1,609	1,178	0	0	4,624	0
U. Nevada, Las Vegas	180	13,063	0	0	10,985	0	786	640	90	28	201	333
SUNY, Binghamton U.	181	12,847	46	0	2,944	0	2,853	4,823	0	0	2,125	56
U. Missouri, Kansas City	182	12,707	131	0	12,184	0	81	170	0	0	111	30
CUNY, Graduate School of Public Health and Health Policy	183	12,396	0	0	11,621	0	0	775	0	0	0	0
U. Texas Health Science Center, Tyler	184	12,267	0	0	12,267	0	0	0	0	0	0	0
Marshall U.	185	11,438	0	0	10,622	0	815	0	0	0	0	1
Oklahoma State U., Stillwater	186	11,340	0	0	7,708	93	1,196	1,503	158	0	646	36
Loma Linda U.	187	11,258	0	0	10,051	0	0	1,207	0	0	0	0
U. Massachusetts, Boston	188	11,250	301	0	4,438	284	205	1,617	1,415	0	36	2,954
Utah State U.	189	10,845	0	0	7,272	0	870	1,641	13	0	556	493
Florida Atlantic U.	190	10,689	1,026	0	6,502	91	993	1,091	47	0	643	296
U. Texas Rio Grande Valley	191	10,558	40	0	9,801	0	417	131	67	0	102	0
U. North Carolina, Charlotte	192	10,351	2,829	105	4,205	252	2,318	206	0	0	102	334
U. Memphis	193	10,336	1,013	28	3,299	0	341	813	1,689	345	350	2,458
U. Wisconsin-Milwaukee	194	10,328	54	728	4,225	0	274	3,926	466	0	383	272
Marquette U.	195	10,104	189	0	7,234	108	408	111	0	0	1,722	332
U. South Alabama	196	10,008	8	86	8,624	1	0	1,153	0	0	12	124
Xavier U. Louisiana	197	9,845	347	0	3,543	0	5,954	0	0	0	1	0

TABLE 62
Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Creighton U.	198	9,786	57	0	9,124	25	255	134	110	0	0	81
Mississippi State U.	199	9,637	0	0	4,808	0	745	384	2,749	45	906	0
U. South Dakota	200	9,481	0	0	8,195	0	145	859	0	0	89	193
Portland State U.	201	9,367	0	0	6,151	169	922	725	82	0	0	1,318
U. Idaho	202	9,337	0	0	9,197	28	0	26	16	0	63	7
Rutgers, State U. New Jersey, Newark	203	9,325	0	0	7,497	0	576	417	263	0	0	572
Kent State U.	204	9,106	0	0	4,090	0	1,434	2,034	670	13	58	807
New Mexico State U.	205	9,105	0	0	7,685	0	647	30	65	0	663	15
North Dakota State U.	206	9,047	7	0	6,812	14	339	982	238	204	403	48
Lehigh U.	207	8,985	318	0	5,049	0	1,860	195	13	0	1,373	177
Eastern Virginia Medical School	208	8,650	0	0	8,650	0	0	0	0	0	0	0
East Tennessee State U.	209	8,632	0	0	8,632	0	0	0	0	0	0	0
San Francisco State U.	210	8,627	0	0	6,687	56	305	171	687	631	90	0
Morgan State U.	211	8,464	235	0	5,797	0	249	0	0	0	0	2,183
U. Colorado Denver	212	8,429	166	11	2,623	776	768	658	210	0	1,863	1,354
California State U., Northridge	213	8,418	0	0	3,716	0	3,770	390	318	193	31	0
Brigham Young U., Provo	214	8,287	0	0	5,128	0	927	0	41	0	1,969	222
Delaware State U.	215	8,286	549	0	7,047	0	0	352	338	0	0	0
Northeast Ohio Medical U.	216	8,146	0	0	8,078	0	0	0	0	59	0	9
North Carolina Central U.	217	8,125	0	0	6,730	0	1	0	0	70	1,105	219
Ohio U.	218	8,034	72	0	6,882	0	293	168	149	0	470	0
U. Alaska, Fairbanks	219	8,005	0	12	7,857	0	0	3	0	0	132	1
California State U., Long Beach	220	7,752	0	0	4,269	0	1,187	1,288	137	0	769	102
New York Medical C.	221	7,744	0	0	7,744	0	0	0	0	0	0	0
Uniformed Services U. of the Health Sciences	222	7,579	0	0	7,579	0	0	0	0	0	0	0
Florida A&M U.	223	7,576	0	0	7,314	0	0	23	0	0	239	0
Boise State U.	224	7,292	31	0	2,769	19	145	247	0	1	4,080	0
Southern Illinois U., Carbondale	225	7,244	0	0	6,572	0	155	59	0	95	269	94
Wright State U.	226	7,150	81	0	6,662	8	11	123	0	0	265	0
Texas State U.	227	7,148	0	0	1,312	0	1,158	149	2,512	0	0	2,017
U. California, Merced	228	7,004	0	420	3,532	13	641	0	0	1,459	331	608
Rowan U.	229	6,790	0	0	3,926	278	749	806	115	0	916	0
Rosalind Franklin U. of Medicine and Science	230	6,648	0	0	6,211	0	0	437	0	0	0	0

TABLE 62
Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
New Jersey Institute of Technology	231	6,630	274	0	495	50	536	0	0	190	5,032	53
Alabama A&M U.	232	6,502	30	0	5,733	16	207	183	132	0	107	94
Baylor U.	233	6,242	245	107	2,907	0	1,578	765	506	0	52	82
MGH Institute of Health Professions	234	6,200	0	0	6,200	0	0	0	0	0	0	0
Texas Tech U.	235	5,927	0	0	2,681	0	938	431	0	0	1,831	46
Jackson State U.	236	5,846	17	0	4,891	19	745	0	172	0	0	2
South Dakota State U.	237	5,649	0	0	3,272	153	1,949	183	0	0	57	35
Rochester Institute of Technology	238	5,597	1,243	0	429	126	845	144	1	0	1,580	1,229
Chapman U.	239	5,558	0	0	4,690	0	15	853	0	0	0	0
Worcester Polytechnic Institute	240	5,543	709	0	959	790	1,031	0	0	0	1,741	313
Oakland U.	241	5,465	0	0	4,121	0	1,174	142	0	0	0	28
U. North Texas, Denton	242	5,427	624	0	997	270	0	1,519	0	0	1,628	389
Western U. of Health Sciences	243	5,092	0	0	3,069	0	0	0	0	0	0	2,023
U. Nebraska, Omaha	244	4,908	269	0	4,267	0	0	10	244	0	0	118
Michigan Technological U.	245	4,905	24	80	850	17	552	98	0	0	3,284	0
North Carolina A&T State U.	246	4,856	0	0	1,856	0	496	87	0	20	1,171	1,226
Texas Christian U.	247	4,590	0	0	427	0	356	232	0	3,575	0	0
Old Dominion U.	248	4,467	382	0	1,338	89	416	743	17	0	845	637
U. New England	249	4,328	0	0	4,328	0	0	0	0	0	0	0
Oklahoma State U., Center for Health Sciences	250	4,291	0	0	2,208	0	0	2,083	0	0	0	0
Tuskegee U.	251	4,243	0	0	4,205	0	21	0	0	0	0	17
CUNY, Queens C.	252	4,122	0	0	2,089	0	368	1,665	0	0	0	0
U. Southern Mississippi	253	4,114	0	12	3,440	0	139	17	288	0	0	218
Ball State U.	254	4,028	0	0	3,738	0	283	0	0	0	0	7
CUNY, Advanced Science Research Center	255	4,019	0	0	3,421	0	5	0	0	0	593	0
Duquesne U.	256	3,996	0	0	3,693	0	214	0	84	0	0	5
Miami U.	257	3,991	280	0	1,371	0	1,461	692	0	0	123	64
CUNY, Brooklyn C.	258	3,790	0	0	617	0	1,748	1,425	0	0	0	0
Nova Southeastern U.	259	3,786	0	42	3,500	0	0	244	0	0	0	0
Southern Methodist U.	260	3,721	0	0	1,378	133	386	1,611	27	0	150	36
Central Michigan U.	261	3,643	0	0	3,481	0	0	8	92	62	0	0
Texas Southern U.	262	3,616	0	0	2,869	0	0	610	0	0	0	137
U. North Florida	263	3,533	0	0	22	0	0	1,324	19	0	104	2,064

TABLE 62
Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Detroit Mercy	264	3,457	0	0	3,140	0	5	7	0	0	208	97
Pacific U.	265	3,408	0	0	3,008	0	0	9	0	0	0	391
U. Puerto Rico, Rio Piedras	266	3,358	0	0	1,122	0	452	76	0	1,708	0	0
Stevens Institute of Technology	267	3,275	800	0	104	0	612	0	0	0	1,759	0
Gallaudet U.	268	3,271	1,125	0	1,630	0	130	0	386	0	0	0
Clark Atlanta U.	269	3,234	0	0	3,234	0	0	0	0	0	0	0
San Jose State U.	270	3,223	0	0	2,123	0	847	1	0	0	189	63
California State U., Los Angeles	271	3,154	226	0	395	0	2,356	0	0	0	30	147
Fordham U.	272	3,132	0	0	368	0	1	2,235	0	0	0	528
U. of Health Sciences and Pharmacy in St. Louis	273	3,107	0	0	3,107	0	0	0	0	0	0	0
U. Alaska, Anchorage	274	2,985	0	0	2,832	0	0	0	96	0	0	57
U. Central del Caribe	275	2,929	0	0	2,929	0	0	0	0	0	0	0
U. Maine	276	2,878	0	0	1,940	0	217	92	0	212	265	152
Kennesaw State U.	277	2,818	54	0	1,296	509	0	0	266	0	173	520
DePaul U.	278	2,807	0	0	2,804	0	0	0	0	0	0	3
Colorado School of Mines	279	2,769	15	0	319	149	62	0	0	0	2,224	0
Pennsylvania State U., Harrisburg	280	2,762	0	0	1,534	0	0	33	0	0	70	1,125
U. Guam	281	2,759	0	0	2,678	0	0	0	81	0	0	0
Missouri U. of Science and Technology	282	2,729	0	0	0	0	220	164	0	0	2,345	0
CUNY, John Jay C. of Criminal Justice	283	2,606	0	0	0	0	513	2,093	0	0	0	0
California State U., San Marcos	284	2,533	0	0	929	0	0	393	0	1,173	0	38
Mercer U.	285	2,494	0	0	2,494	0	0	0	0	0	0	0
California State U., Fullerton	286	2,486	0	0	2,337	0	9	0	0	140	0	0
SUNY, C. of Optometry	287	2,469	0	0	2,469	0	0	0	0	0	0	0
Catholic U. of America	288	2,416	0	0	252	0	0	394	0	0	1,215	555
U. Missouri, Saint Louis	289	2,364	0	0	1,676	0	238	303	131	0	0	16
U. Dayton	290	2,274	0	0	1,123	0	0	138	0	0	21	992
American U.	291	2,241	28	0	212	0	167	209	931	461	0	233
Salisbury U.	292	2,214	0	0	0	0	102	0	0	0	0	2,112
Midwestern U.	293	2,210	0	0	2,210	0	0	0	0	0	0	0
Villanova U.	294	2,187	0	103	1,167	0	169	0	0	0	748	0
U. Southern Maine	295	2,172	0	17	38	0	0	0	2,117	0	0	0
St. John's U., New York	296	2,163	0	0	1,749	0	7	407	0	0	0	0

TABLE 62
Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Wesleyan U.	297	2,133	0	0	1,348	0	540	125	0	0	0	120
Bowling Green State U.	298	2,120	0	282	966	0	0	0	730	0	0	142
Texas A&M U.-Corpus Christi	299	2,092	0	0	1,412	0	0	0	0	0	0	680
CUNY, Lehman C.	300	2,088	0	0	583	0	1,409	95	1	0	0	0
Winston-Salem State U.	301	2,077	0	0	1,929	43	105	0	0	0	0	0
New York Institute of Technology	302	2,075	0	0	2,075	0	0	0	0	0	0	0
Keck Graduate Institute	303	1,978	0	0	1,978	0	0	0	0	0	0	0
New England C. of Optometry	304	1,946	0	0	1,946	0	0	0	0	0	0	0
New Mexico Institute of Mining and Technology	305	1,939	162	0	82	112	0	0	0	0	1,579	4
Barnard C.	306	1,912	0	0	819	0	349	744	0	0	0	0
U. North Carolina, Asheville	307	1,884	235	0	1,409	0	137	0	0	0	0	103
William & Mary	308	1,800	81	0	888	12	755	56	0	0	0	8
Idaho State U.	309	1,795	0	0	1,795	0	0	0	0	0	0	0
Montclair State U.	310	1,763	0	0	604	0	529	177	453	0	0	0
Western Kentucky U.	311	1,731	0	0	1,224	0	62	309	61	0	0	75
Texas Tech U., Health Sciences Center, El Paso	312	1,714	0	0	1,714	0	0	0	0	0	0	0
Tennessee State U.	313	1,701	112	0	0	0	23	0	0	0	1,566	0
California State U., Fresno	314	1,694	97	0	767	0	830	0	0	0	0	0
Northern Kentucky U.	315	1,688	0	0	1,016	0	199	467	0	0	0	6
Hampton U.	316	1,682	0	0	1,191	0	342	0	139	0	0	10
California Polytechnic State U., San Luis Obispo	317	1,667	46	0	1,486	0	0	0	52	0	83	0
Woods Hole Oceanographic Institution	318	1,638	0	1,638	0	0	0	0	0	0	0	0
Wellesley C.	319	1,614	0	0	505	0	722	170	217	0	0	0
CUNY, C. Staten Island	320	1,572	0	0	763	0	666	132	0	0	11	0
Wichita State U.	321	1,559	0	0	938	0	492	0	0	0	61	68
U. of the Virgin Islands	322	1,523	0	0	1,523	0	0	0	0	0	0	0
California State U., San Bernardino	323	1,518	11	0	250	0	79	1,025	0	0	0	153
Western Michigan U. and Homer Stryker M.D. School of Medicine	324	1,509	0	0	1,180	0	157	107	9	0	0	56
Palmer C. of Chiropractic, Davenport	325	1,500	0	0	1,500	0	0	0	0	0	0	0
Florida Gulf Coast U.	326	1,489	0	278	1,041	0	168	0	0	0	0	2
Morehouse C.	327	1,419	0	0	0	0	1,324	0	0	95	0	0
Eastern Michigan U.	328	1,400	0	0	1,224	0	121	0	0	0	0	55
Texas A&M U.-Kingsville	329	1,322	0	0	1,024	0	76	55	0	0	167	0

TABLE 62
Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Puerto Rico, Mayaguez	330	1,320	37	0	80	0	712	0	0	0	491	0
U. Louisiana, Monroe	331	1,313	0	0	1,150	0	163	0	0	0	0	0
Northern Illinois U.	332	1,268	0	0	294	0	517	306	0	0	151	0
Albany C. of Pharmacy and Health Sciences	333	1,256	i 0 i	0 i	1,256 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Touro U., California	334	1,251	0	0	1,251	0	0	0	0	0	0	0
Long Island U.	335	1,226	0	0	1,153	0	0	10	0	0	0	63
Seton Hall U.	335	1,226	0	0	1,226	0	0	0	0	0	0	0
Louisiana Tech U.	337	1,210	26	0	872	0	0	0	0	0	312	0
U. Central Arkansas	337	1,210	0	9	330	0	288	0	0	0	221	362
Trinity U.	339	1,182	0	0	364	0	275	519	0	0	24	0
Desert Research Institute	340	1,174	0	1,174	0	0	0	0	0	0	0	0
Northeastern Illinois U.	341	1,147	0	0	1,147	0	0	0	0	0	0	0
U. Nebraska, Kearney	342	1,132	0	0	1,017	0	31	0	0	0	0	84
U. Oklahoma, Tulsa	343	1,128	0	0	287	0	0	0	0	0	163	678
Teachers C., Columbia U.	344	1,113	0	0	990	0	0	123	0	0	0	0
Alabama State U.	345	1,104	0	0	1,104	0	0	0	0	0	0	0
Dine C.	346	1,091	0	0	1,076	0	0	0	0	0	0	15
SUNY, Polytechnic Institute	347	1,087	0	0	1,087	0	0	0	0	0	0	0
Middlebury C.	348	1,081	24	0	495	35	321	107	71	0	0	28
Ferris State U.	349	1,054	0	0	937	0	117	0	0	0	0	0
California State Polytechnic U., Pomona	350	1,048	0	0	1,048	0	0	0	0	0	0	0
Norwich U.	351	1,028	0	0	291	149	196	196	0	196	0	0
Black Hills State U.	352	1,025	0	0	1,025	0	0	0	0	0	0	0
Saint Joseph's U.	353	1,022	0	0	570	0	422	30	0	0	0	0
Illinois State U.	354	1,011	0	0	931	0	50	0	0	0	0	30
Reed C.	355	951	i 3 i	0 i	775 i	8 i	84 i	63 i	18 i	0 i	0 i	0 i
Clarkson U.	356	948	0	70	428	6	199	0	0	0	245	0
Loyola Marymount U.	357	936	0	0	88	0	124	724	0	0	0	0
Smith C.	358	923	0	0	663	0	55	123	0	0	82	0
Hawaii Pacific U.	359	921	0	38	883	0	0	0	0	0	0	0
U. West Florida	359	921	35	0	503	0	383	0	0	0	0	0
Saginaw Valley State U.	361	916	i 12 i	0 i	893 i	0 i	0 i	0 i	2 i	0 i	0 i	9 i
Southern Illinois U., Edwardsville	362	914	0	0	739	0	0	0	0	0	175	0

TABLE 62
Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Texas Woman's U.	363	912	0	0	513	0	0	349	50	0	0	0
Northwest Indian C.	364	908	i 0 i	i 0 i	539	i 0 i	i 0 i	i 0 i	i 0 i	i 0 i	i 0 i	369
Tougaloo C.	365	890	i 3 i	i 0 i	653	i 9 i	i 91 i	i 68 i	i 6 i	i 0 i	i 0 i	60
U. Akron	366	879	0	1	267	0	131	33	0	0	447	0
Spelman C.	367	871	0	0	237	0	41	568	25	0	0	0
Merrimack C.	368	865	0	0	865	0	0	0	0	0	0	0
National U. of Natural Medicine	369	862	0	0	862	0	0	0	0	0	0	0
Providence C.	370	858	0	17	606	0	130	105	0	0	0	0
South Carolina State U.	371	830	0	0	830	0	0	0	0	0	0	0
U. Massachusetts, Dartmouth	372	829	310	0	0	0	448	0	0	0	71	0
Amherst C.	373	822	0	0	654	84	84	0	0	0	0	0
Bucknell U.	373	822	0	0	763	0	59	0	0	0	0	0
U.S. Military Academy	375	817	300	0	0	517	0	0	0	0	0	0
Florida Institute of Technology	376	815	0	0	465	0	57	262	0	0	31	0
Nevada State C.	376	815	0	0	738	0	0	77	0	0	0	0
U. Hawaii, Hilo	378	811	0	0	811	0	0	0	0	0	0	0
U. North Carolina, Wilmington	379	806	0	0	356	0	208	208	0	0	0	34
U. of the Pacific	380	799	0	0	778	0	0	0	0	0	21	0
California State U., Dominguez Hills	381	777	0	0	0	0	81	469	173	0	0	54
U. Michigan, Dearborn	382	747	0	0	223	21	0	0	0	0	471	32
Haverford C.	383	715	0	0	715	0	0	0	0	0	0	0
Winthrop U.	384	703	0	0	150	0	145	0	0	0	0	408
Towson U.	385	683	0	0	463	0	26	192	0	0	0	2
U. Alabama, Huntsville	386	671	0	0	364	0	0	0	0	0	307	0
Hofstra U.	387	670	0	0	243	0	0	0	0	0	123	304
U. Wisconsin-Green Bay	388	660	i 2 i	i 0 i	589	i 1 i	i 18 i	i 16 i	i 13 i	i 0 i	i 13 i	8
Bowdoin C.	389	657	0	0	514	0	111	32	0	0	0	0
U. Colorado Colorado Springs	390	653	0	0	220	0	103	237	0	0	0	93
U. Northern Iowa	391	650	0	0	0	0	0	0	650	0	0	0
U. Texas, Tyler	392	645	0	0	633	0	0	0	6	0	0	6
Arkansas State U., Jonesboro	393	643	0	0	458	0	24	30	0	0	131	0
CUNY, York C.	394	641	0	0	366	0	141	91	0	0	0	43
Davidson C.	395	640	0	0	149	0	50	441	0	0	0	0

TABLE 62
Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2023
 (Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Edward Via C. of Osteopathic Medicine	396	639	0	0	639	0	0	0	0	0	0	0
U. Central Oklahoma	397	638	i 7 i	0 i	507 i	2 i	52 i	42 i	0 i	0 i	25 i	3 i
Rhode Island C.	398	627	0	0	297	0	326	4	0	0	0	0
Grand Valley State U.	399	626	51	0	453	0	122	0	0	0	0	0
U. Arkansas, Little Rock	400	619	377	0	0	0	223	0	19	0	0	0
Western Carolina U.	400	619	0	0	240	0	0	0	0	0	0	379
Southeastern Louisiana U.	402	613	225	0	261	0	103	0	2	0	22	0
Fort Lewis C.	403	612	0	0	550	0	32	0	0	0	30	0
Swarthmore C.	404	606	0	0	258	0	348	0	0	0	0	0
Fayetteville State U.	405	593	i 0 i	0 i	484 i	0 i	0 i	0 i	62 i	47 i	0 i	0 i
Drake U.	406	590	0	0	0	0	0	0	0	0	0	590
Sam Houston State U.	406	590	0	0	145	0	0	0	445	0	0	0
C. Charleston	408	584	0	35	447	0	56	0	0	0	0	46
CUNY, Baruch C.	409	583	0	0	452	0	0	48	0	0	0	83
California State U., Monterey Bay	410	575	0	0	488	0	0	0	0	0	0	87
Montana Technological U.	411	567	0	0	433	0	0	0	0	0	134	0
Yeshiva U.	412	559	0	0	559	0	0	0	0	0	0	0
Georgia Southern U.	413	555	0	0	104	0	0	0	451	0	0	0
Savannah State U.	414	538	0	0	163	0	0	0	0	164	211	0
U. Wisconsin-Oshkosh	414	538	0	0	440	0	98	0	0	0	0	0
New School	416	535	0	0	0	0	0	498	37	0	0	0
James Madison U.	417	533	0	0	401	0	132	0	0	0	0	0
U. Washington, Bothell	418	509	0	0	509	0	0	0	0	0	0	0
South Dakota School of Mines and Technology	419	502	0	0	0	0	123	0	0	0	379	0
West Virginia School of Osteopathic Medicine	420	500	i 0 i	0 i	500 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
U. Texas of the Permian Basin	421	495	0	0	495	0	0	0	0	0	0	0
Clark U.	422	488	0	0	278	0	160	0	50	0	0	0
Vassar C.	423	486	0	0	165	0	89	232	0	0	0	0
U. San Francisco	424	477	0	0	477	0	0	0	0	0	0	0
Franklin and Marshall C.	425	476	0	0	323	51	102	0	0	0	0	0
U. Washington, Tacoma	426	475	31	0	400	0	0	0	0	0	24	20
U. Puerto Rico, Cayey	427	474	0	0	45	0	0	0	0	429	0	0
U. of the Incarnate Word	428	471	0	0	471	0	0	0	0	0	0	0

TABLE 62
Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Santa Clara U.	429	470	0	0	202	0	118	41	0	0	109	0
Claflin U.	430	463	0	0	448	0	15	0	0	0	0	0
Southern Connecticut State U.	431	458	0	0	326	0	0	0	0	0	0	132
Williams C.	432	431	i 2	i 2	i 333	i 5	i 43	i 35	i 10	i 0	i 0	i 1
Des Moines U.	433	430	0	0	322	0	0	0	73	0	0	35
U. Maryland, Eastern Shore	434	427	0	0	427	0	0	0	0	0	0	0
Bowie State U.	435	422	0	0	353	0	0	0	69	0	0	0
U. Puerto Rico, Humacao	436	420	0	0	0	0	420	0	0	0	0	0
Coastal Carolina U.	437	400	0	0	30	0	0	0	0	0	194	176
Florida Polytechnic U.	437	400	400	0	0	0	0	0	0	0	0	0
California State U., Channel Islands	439	394	0	0	394	0	0	0	0	0	0	0
Fort Valley State U.	439	394	0	0	394	0	0	0	0	0	0	0
U. Puerto Rico, Ponce	441	391	0	0	382	0	9	0	0	0	0	0
Toyota Technological Institute, Chicago	442	379	379	0	0	0	0	0	0	0	0	0
U. Ana G. Mendez, Gurabo	442	379	0	0	0	0	0	0	0	0	0	379
SUNY, Oswego	444	378	21	0	0	0	204	133	0	0	20	0
Oregon Institute of Technology	445	377	i 4	i 4	i 340	i 0	i 0	i 25	i 0	i 0	i 4	i 0
Embry-Riddle Aeronautical U.	446	376	0	179	23	0	0	0	81	0	93	0
Butler U.	447	375	0	0	375	0	0	0	0	0	0	0
Fisk U.	448	374	36	0	307	0	31	0	0	0	0	0
Marshall B. Ketchum U.	449	361	i 0	i 0	i 361	i 0	i 0	i 0	i 0	i 0	i 0	i 0
Northland C.	450	360	i 0	i 0	i 294	i 3	i 0	i 39	i 13	i 0	i 0	i 11
U. Wisconsin-Eau Claire	450	360	0	0	0	0	121	239	0	0	0	0
West Chester U. Pennsylvania	452	352	0	0	152	0	0	200	0	0	0	0
Seattle U.	453	350	0	0	308	42	0	0	0	0	0	0
Johnson C. Smith U.	454	348	0	0	98	0	0	0	0	0	0	250
Pomona C.	455	335	0	0	27	0	308	0	0	0	0	0
Murray State U.	456	333	0	0	333	0	0	0	0	0	0	0
U. Tennessee, Chattanooga	457	332	0	0	52	167	113	0	0	0	0	0
Western Washington U.	458	330	0	0	0	0	262	68	0	0	0	0
Tennessee Technological U.	459	320	80	0	213	0	0	0	27	0	0	0
Appalachian State U.	460	319	0	0	125	0	157	37	0	0	0	0
Bates C.	460	319	0	0	319	0	0	0	0	0	0	0

TABLE 62
Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Youngstown State U.	494	195	0	0	149	0	1	0	45	0	0	0
U. Richmond	496	193	0	0	178	0	5	0	0	0	0	10
Mount Holyoke C.	497	187	0	0	168	0	0	19	0	0	0	0
Oberlin C.	497	187	0	0	131	0	56	0	0	0	0	0
U. Tulsa	497	187	0	0	0	0	187	0	0	0	0	0
U. of the District of Columbia	500	185	0	0	0	0	0	0	0	0	185	0
Pepperdine U.	501	184	0	0	133	0	0	24	27	0	0	0
Morehead State U.	502	181	0	0	181	0	0	0	0	0	0	0
Western Illinois U.	503	176	0	0	0	0	0	0	176	0	0	0
New Mexico Highlands U.	504	173	0	0	173	0	0	0	0	0	0	0
Skidmore C.	505	169	0	0	0	9	0	160	0	0	0	0
Wheaton C., Wheaton	506	160	0	0	160	0	0	0	0	0	0	0
Colgate U.	507	157	0	0	157	0	0	0	0	0	0	0
U. South Carolina, Aiken	507	157	0	0	157	0	0	0	0	0	0	0
Occidental C.	509	156	0	0	0	0	154	0	2	0	0	0
Purdue U., Northwest	510	150	0	0	150	0	0	0	0	0	0	0
Liberty U.	511	148	0	0	148	0	0	0	0	0	0	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	511	148	0	0	148	0	0	0	0	0	0	0
Grambling State U.	513	145	0	0	44	0	0	101	0	0	0	0
Texas A&M International U.	513	145	0	0	92	0	53	0	0	0	0	0
CUNY, Graduate Center	515	142	0	0	0	0	0	53	7	0	0	82
Pittsburg State U.	516	136	0	0	97	0	39	0	0	0	0	0
Missouri State U.	517	135	0	0	135	0	0	0	0	0	0	0
Calvin U.	518	134	0	0	134	0	0	0	0	0	0	0
U. Houston-Downtown	519	129	0	0	50	0	38	41	0	0	0	0
Franklin W. Olin C. of Engineering	520	126	0	0	0	0	0	0	0	0	126	0
U. Northern Colorado	521	125	0	0	74	0	0	0	24	0	0	27
Lamar U.	522	117	105	0	2	0	0	0	10	0	0	0
Utah Valley U.	523	115	115	0	0	0	0	0	0	0	0	0
Azusa Pacific U.	524	114	0	0	7	0	0	107	0	0	0	0
Willamette U.	524	114	0	0	0	0	114	0	0	0	0	0
Langston U.	526	111	0	0	1	0	88	0	0	0	0	22

TABLE 62
Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2023
 (Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Lafayette C.	527	109	0	0	82	0	0	27	0	0	0	0
Southern U. and A&M C., Baton Rouge	528	106	0	0	106	0	0	0	0	0	0	0
Suffolk U.	529	103	0	0	0	0	0	103	0	0	0	0
U. Houston-Clear Lake	529	103	0	0	0	0	0	103	0	0	0	0
Bentley U.	531	99	0	0	76	0	0	0	23	0	0	0
California State U., Stanislaus	531	99	0	0	0	0	99	0	0	0	0	0
Gettysburg C.	533	98	0	0	0	0	98	0	0	0	0	0
Sacred Heart U.	534	97	0	0	42	0	0	8	0	0	0	47
Dillard U.	535	96	0	0	96	0	0	0	0	0	0	0
Claremont McKenna C.	536	94	0	0	94	0	0	0	0	0	0	0
U. of St. Thomas (MN)	537	93	0	0	0	0	0	0	0	0	93	0
U. Wisconsin-Platteville	538	89	1	0	66	0	12	5	3	1	1	0
Lincoln U.	539	88	0	0	0	0	0	0	0	0	0	88
Macalester C.	539	88	0	0	0	7	81	0	0	0	0	0
Norfolk State U.	541	87	0	0	0	0	0	0	0	0	87	0
Marymount U.	542	83	0	0	33	0	0	0	0	0	50	0
Western New England U.	542	83	0	0	83	0	0	0	0	0	0	0
SUNY, Geneseo	544	82	0	0	4	0	0	78	0	0	0	0
St. Edward's U.	545	78	0	0	78	0	0	0	0	0	0	0
U. New Orleans	545	78	18	0	0	0	0	0	0	0	0	60
United Tribes Technical C.	547	76	0	0	76	0	0	0	0	0	0	0
Claremont Graduate U.	548	75	0	0	25	0	0	0	50	0	0	0
Ithaca C.	549	74	0	0	53	0	21	0	0	0	0	0
Stockton U.	549	74	0	0	74	0	0	0	0	0	0	0
Bryn Mawr C.	551	72	0	0	0	0	72	0	0	0	0	0
U. Baltimore	551	72	0	0	0	0	0	0	72	0	0	0
U. Hartford	553	71	0	0	0	0	0	24	47	0	0	0
Chicago State U.	554	68	8	0	0	0	0	0	60	0	0	0
Prairie View A&M U.	554	68	0	0	38	0	0	0	30	0	0	0
U. Puget Sound	556	66	0	0	66	0	0	0	0	0	0	0
Lipscomb U.	557	65	0	0	65	0	0	0	0	0	0	0
Eastern Kentucky U.	558	64	0	0	64	0	0	0	0	0	0	0
U. San Diego	559	62	0	0	0	0	53	0	9	0	0	0

TABLE 62
Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Tarleton State U.	591	1	0	0	0	0	0	0	0	0	0	1

i = imputed.

HHS = Department of Health and Human Services; nec = not elsewhere classified; S&E = science and engineering.

^a Johns Hopkins University includes the Applied Physics Laboratory, with \$31,846 thousand in R&D expenditures financed by HHS in FY 2023.

^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^c The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 63
Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	2,295,593	30,726	538,770	91,364	101,103	769,296	16,442	15,219	7,513	713,488	11,672
Johns Hopkins U. ^a	1	515,047	11,481	39,163	1,800	95,859	68,429	0	0	272	298,043	0
U. Colorado Boulder	2	166,802	220	35,642	418	82	67,605	0	0	284	62,547	4
U. California, Berkeley	3	100,825	0	1,076	795	0	94,976	0	28	1,816	2,134	0
U. Maryland ^b	4	83,337	735	26,425	1,073	0	46,937	0	5,722	0	2,445	0
California Institute of Technology	5	72,312	0	16,671	671	0	54,158	0	6	0	806	0
U. Arizona	6	70,176	0	2,050	704	0	62,937	0	625	0	3,860	0
U. New Hampshire	7	64,820	99	63,914	99	0	235	0	0	0	160	313
U. Iowa	8	49,232	0	0	0	0	47,632	0	156	0	1,444	0
Arizona State U.	9	43,106	0	35,671	682	0	838	0	2,610	0	3,297	8
U. Maryland, Baltimore County	10	42,341	698	26,010	23	0	15,582	0	0	0	20	8
Massachusetts Institute of Technology	11	38,045	104	5,221	0	64	19,579	0	0	611	12,411	55
Utah State U.	12	37,647	0	0	925	0	1,160	0	0	0	35,562	0
U. Alabama, Huntsville	13	36,648	4,079	18,454	39	38	6,671	0	0	0	7,367	0
U. Michigan, Ann Arbor	14	31,693	0	518	560	0	3,240	16	0	0	27,359	0
U. California, Los Angeles	15	30,978	0	24,150	215	0	2,974	0	844	0	2,795	0
U. Oklahoma, Norman and Health Science Center	16	27,360	0	26,680	12	0	633	0	0	0	7	28
U. Texas, Austin	17	26,172	485	2,848	360	2,262	7,943	0	0	0	12,226	48
Catholic U. of America	18	25,243	0	0	0	0	24,788	0	0	0	455	0
U. Alaska, Fairbanks	19	25,141	35	19,828	235	0	4,012	0	0	0	1,031	0
Columbia U. in the City of New York	20	24,482	0	14,518	273	0	6,621	0	0	0	3,070	0
Princeton U.	21	22,689	0	398	0	0	21,442	0	0	0	849	0
U. Washington, Seattle	22	22,518	129	10,051	2,474	0	3,485	0	0	0	6,379	0
Stanford U.	23	22,178	0	1,637	924	0	13,259	0	69	0	5,274	1,015
Pennsylvania State U., University Park and Hershey Medical Center	24	20,924	87	4,095	197	41	10,412	35	0	0	6,013	44
Georgia Institute of Technology	25	17,355	160	1,412	84	17	4,189	0	2	0	11,293	198
San Jose State U.	26	17,145	0	983	0	0	400	15,743	0	0	19	0
U. California, San Diego	27	16,704	404	9,391	545	0	3,268	0	0	0	3,096	0
U. Wisconsin-Madison	28	16,235	506	7,358	4,267	0	3,253	0	0	1	850	0
Purdue U., West Lafayette	29	15,323	3	3,469	372	0	550	0	0	0	10,929	0
Baylor C. of Medicine	30	15,272	0	0	15,272	0	0	0	0	0	0	0
U. Florida	31	14,102	36	405	2,989	0	2,092	0	11	0	8,353	216
U. Central Florida	32	12,752	767	0	98	0	5,742	0	0	13	6,132	0
U. Hawaii, Manoa	33	12,685	0	6,254	184	0	6,081	0	0	0	166	0

TABLE 63
Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Colorado State U., Fort Collins	34	12,578	0	8,258	2,108	31	0	0	0	347	1,834	0
U. Illinois, Urbana-Champaign	35	12,335	251	1,451	466	9	3,752	0	90	79	6,063	174
Cornell U.	36	11,790	57	1,012	1,153	0	7,044	0	0	0	2,524	0
Boston U.	37	11,762	0	3,067	0	0	6,370	0	0	0	1,988	337
Woods Hole Oceanographic Institution	38	10,949	0	10,178	0	0	0	0	0	0	771	0
Washington U., Saint Louis	39	10,851	90	4,069	0	0	5,451	0	0	0	1,241	0
Texas A&M U., College Station and Health Science Center	40	10,485	98	2,835	1,002	232	2,032	0	0	0	4,137	149
U. Chicago	41	9,904	0	2,383	0	0	7,521	0	0	0	0	0
U. Minnesota, Twin Cities	42	9,283	0	747	2,110	69	4,511	0	69	0	1,777	0
George Mason U.	43	9,030	0	6,514	0	0	2,226	0	0	0	244	46
Montana State U., Bozeman	44	8,720	1	709	603	0	4,521	0	0	2,594	221	71
Morgan State U.	45	8,502	0	8,259	8	0	44	0	0	0	164	27
U. California, Davis	46	8,390	0	411	1,257	0	952	0	0	0	5,770	0
Virginia Polytechnic Institute and State U.	47	8,028	0	729	377	0	2,379	0	47	0	4,496	0
Ohio State U.	48	8,020	0	1,021	153	9	2,232	0	0	90	4,497	18
Harvard U.	49	7,992	0	3,161	443	0	3,706	0	31	0	651	0
Auburn U., Auburn	50	7,446	24	0	69	0	1,951	0	0	0	5,402	0
U. California, Santa Barbara	51	7,085	2,067	253	0	0	3,369	0	0	254	1,142	0
Louisiana State U., Baton Rouge	52	6,837	121	709	115	2	2,286	0	0	0	328	3,276
U. Delaware	53	6,369	4	711	307	0	3,253	0	42	0	2,052	0
Oregon State U.	54	6,084	35	3,432	1,798	0	138	11	0	0	604	66
Carnegie Mellon U.	55	5,753	1,652	750	0	0	506	0	0	0	2,845	0
Brown U.	56	5,747	35	3,829	0	0	1,143	0	0	145	595	0
Michigan Technological U.	57	5,735	53	2,108	5	0	39	0	8	0	3,522	0
U. California, Santa Cruz	58	5,617	0	1,051	101	0	4,346	0	0	0	119	0
U. California, Irvine	59	5,564	0	2,541	913	0	1,103	0	0	0	1,007	0
West Virginia U.	60	5,500	0	159	195	0	2,065	0	0	0	3,081	0
U. Massachusetts, Amherst	61	5,263	132	99	245	0	1,469	0	0	0	3,318	0
Northern Arizona U.	62	5,096	0	1,370	1,047	0	2,679	0	0	0	0	0
New Mexico State U.	63	5,073	0	505	70	0	3,043	0	0	139	1,267	49
U. Virginia, Charlottesville	64	4,779	319	501	442	0	2,085	0	0	0	1,408	24
Dartmouth C. and Dartmouth Hitchcock Medical Center	65	4,760	98	653	570	0	2,257	0	101	11	1,070	0
SUNY, Stony Brook U.	66	4,743	79	3,070	577	0	651	0	0	258	42	66
U. Utah	67	4,649	0	1,661	1,133	0	489	0	0	0	1,366	0

TABLE 63
Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Iowa State U.	68	4,612	35	136	163	4	233	0	3	0	4,034	4
U. Notre Dame	69	4,448	260	0	180	0	758	0	0	0	3,250	0
U. Miami	70	4,350	0	3,111	116	0	1,045	0	0	0	78	0
Rice U.	71	4,323	0	1,234	52	17	1,994	111	0	0	915	0
U. South Carolina, Columbia	72	4,304	116	24	359	0	190	0	86	0	3,529	0
U. Alabama, Birmingham	73	4,278	0	0	34	0	89	0	0	0	4,155	0
Northwestern U.	74	4,253	0	160	276	0	2,074	0	0	0	1,516	227
Rutgers, State U. New Jersey, New Brunswick	75	4,150	0	1,667	445	0	1,547	0	0	0	491	0
Michigan State U.	76	4,094	0	84	579	92	670	0	1,394	0	1,247	28
Colorado School of Mines	77	3,975	134	867	54	0	967	0	0	0	1,953	0
U. Houston	78	3,862	244	719	335	0	296	0	0	0	2,268	0
Case Western Reserve U.	79	3,836	0	431	0	0	330	0	0	0	3,075	0
Oklahoma State U., Stillwater	80	3,823	0	0	1	0	129	0	165	0	3,178	350
Vanderbilt U. and Vanderbilt U. Medical Center	81	3,815	404	345	251	0	358	0	0	0	2,457	0
Florida State U.	82	3,808	53	1,500	72	0	137	0	46	0	2,000	0
U. Toledo	83	3,682	0	0	0	0	759	0	0	0	1,551	1,372
U. Southern California	84	3,560	185	255	82	0	297	0	0	0	2,741	0
U. Pittsburgh, Pittsburgh	85	3,546	80	826	691	0	740	0	0	0	1,141	68
New Jersey Institute of Technology	86	3,516	0	0	0	7	3,357	0	0	0	152	0
Hampton U.	87	3,496	0	828	0	0	2,668	0	0	0	0	0
U. Idaho	88	3,494	33	517	484	0	662	0	214	0	1,584	0
Texas State U.	89	3,376	0	311	394	0	228	0	0	0	665	1,778
U. Connecticut	90	3,343	10	575	690	0	513	0	102	240	1,213	0
Wichita State U.	91	3,233	0	0	17	0	458	0	0	0	2,747	11
Rochester Institute of Technology	92	3,210	0	0	5	423	2,713	0	0	0	69	0
U. California, Riverside	93	3,008	0	1,976	0	0	805	0	0	0	227	0
American U.	94	2,965	58	118	0	0	2,789	0	0	0	0	0
Missouri U. of Science and Technology	95	2,951	0	0	0	0	44	0	0	0	2,907	0
U. Pennsylvania	96	2,941	0	145	1,321	0	1,009	0	0	0	466	0
Florida International U.	97	2,929	55	580	44	0	0	0	187	0	2,063	0
U. Texas, Dallas	98	2,861	0	1	0	86	2,745	0	0	0	29	0
U. Maine	99	2,837	19	1,285	666	0	0	0	0	77	321	469
U. Massachusetts, Lowell	100	2,770	0	103	0	8	1,765	0	0	0	894	0
Mississippi State U.	101	2,751	0	275	13	0	42	0	0	0	2,421	0

TABLE 63
Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Vermont	136	1,797	0	0	0	0	0	0	0	0	1,797	0
U. Rochester	137	1,766	0	474	630	0	622	0	0	0	40	0
U. Missouri, Columbia	138	1,763	0	0	1,165	143	369	0	0	0	86	0
Florida Institute of Technology	139	1,728	87	674	64	0	605	0	0	0	298	0
SUNY, U. Buffalo	139	1,728	0	1,030	0	0	0	0	0	0	698	0
U. Texas Southwestern Medical Center	141	1,717	0	0	1,717	0	0	0	0	0	0	0
California State U., Monterey Bay	142	1,714	0	56	1,658	0	0	0	0	0	0	0
Sonoma State U.	143	1,570	0	1,553	0	0	0	0	0	0	17	0
U. Oregon	144	1,566	0	936	33	0	220	0	377	0	0	0
Naval Postgraduate School	145	1,483	0	34	0	0	0	0	0	0	1,449	0
Morehead State U.	146	1,388	0	0	0	0	0	0	0	0	1,388	0
Desert Research Institute	147	1,376	0	1,376	0	0	0	0	0	0	0	0
U. Akron	148	1,364	0	0	4	0	154	0	0	0	1,206	0
California State U., Northridge	149	1,345	0	70	7	0	156	0	0	0	1,112	0
San Diego State U.	150	1,209	3	0	227	0	98	0	97	0	784	0
Tufts U.	151	1,192	0	0	133	0	230	0	0	0	829	0
U. Georgia	152	1,184	0	160	47	0	569	84	324	0	0	0
South Dakota School of Mines and Technology	153	1,159	2	0	0	12	5	0	0	0	1,140	0
U. Louisiana, Lafayette	154	1,145	0	65	211	0	3	0	0	0	866	0
Stevens Institute of Technology	155	1,131	0	0	0	0	753	0	0	0	376	2
Loma Linda U.	156	1,125	0	0	1,125	0	0	0	0	0	0	0
U. Maryland Center for Environmental Science	157	1,090	0	529	561	0	0	0	0	0	0	0
South Dakota State U.	158	1,089	11	511	0	313	73	0	0	0	161	20
Scripps Research Institute	159	1,084	0	0	1,084	0	0	0	0	0	0	0
U. Arkansas, Fayetteville	160	1,038	2	186	0	0	398	0	0	0	452	0
U. Wyoming	161	1,022	0	123	10	0	398	0	0	2	489	0
Washington State U.	162	1,021	0	130	323	0	270	0	12	0	155	131
Indiana U., Bloomington	163	977	72	241	294	0	305	1	64	0	0	0
Villanova U.	164	973	0	0	0	0	973	0	0	0	0	0
New Mexico Institute of Mining and Technology	165	946	0	240	0	0	63	0	0	0	610	33
U. of the Virgin Islands	166	938	0	148	0	0	0	0	0	0	790	0
Emory U.	167	937	0	0	824	0	113	0	0	0	0	0
U. California, Merced	168	910	0	24	116	0	68	0	0	0	702	0
Wake Forest U.	169	901	164	0	583	0	0	0	0	0	154	0

TABLE 63
Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Virginia Commonwealth U.	170	885	0	22	227	0	0	0	0	0	636	0
U. Hartford	171	879	0	0	0	0	0	0	0	0	879	0
Florida Atlantic U.	172	873	0	19	726	0	20	0	0	0	108	0
U. Mississippi	173	867	0	274	69	0	204	0	0	0	248	72
Georgia State U.	174	860	70	0	0	0	790	0	0	0	0	0
U. Texas Medical Branch	175	851	0	0	851	0	0	0	0	0	0	0
Prairie View A&M U.	176	816	0	2	10	0	0	0	0	0	804	0
U. Massachusetts, Boston	176	816	0	216	294	0	0	0	0	0	0	306
U. Nebraska, Lincoln and Medical Center ^c	178	805	170	0	185	0	13	0	0	0	426	11
Southern Methodist U.	179	795	293	386	0	0	116	0	0	0	0	0
Tulane U.	180	793	0	591	141	0	61	0	0	0	0	0
Florida A&M U.	181	778	0	0	0	0	15	0	0	0	763	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	182	776	0	187	0	0	269	0	0	0	320	0
U. Rhode Island	183	763	0	471	0	0	142	0	0	0	150	0
U. New Orleans	184	753	638	0	0	0	13	0	0	0	56	46
SUNY, U. Albany	185	748	0	427	0	172	0	0	0	0	149	0
Kansas State U.	186	746	148	0	20	0	94	0	200	66	218	0
U. Cincinnati	187	745	0	85	250	111	105	0	15	0	158	21
California State U., San Marcos	188	719	0	66	0	0	590	0	0	0	0	63
U. Guam	189	682	0	511	0	0	171	0	0	0	0	0
Eastern Virginia Medical School	190	671	0	0	671	0	0	0	0	0	0	0
U. of the District of Columbia	191	632	0	0	0	0	0	0	0	0	632	0
U. Arkansas for Medical Sciences	192	629	0	0	629	0	0	0	0	0	0	0
Portland State U.	193	610	0	311	141	0	30	0	0	0	128	0
U. California, San Francisco	194	606	0	0	606	0	0	0	0	0	0	0
U. North Carolina, Greensboro	195	595	0	0	22	0	573	0	0	0	0	0
U. Colorado Anschutz Medical Campus	196	580	0	0	580	0	0	0	0	0	0	0
Worcester Polytechnic Institute	197	577	0	0	0	39	0	0	0	0	538	0
Baylor U.	198	570	30	236	15	0	6	0	0	0	283	0
U. North Texas, Denton	199	558	29	0	0	0	74	0	54	0	289	112
Howard U.	200	554	0	0	0	0	547	0	0	0	0	7
Wesleyan U.	201	551	0	270	0	0	281	0	0	0	0	0
Christopher Newport U.	202	541	0	0	0	0	0	0	0	0	541	0
Louisiana State U., Health Sciences Center, Shreveport	203	528	0	0	528	0	0	0	0	0	0	0

TABLE 63
Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Xavier U. Louisiana	204	516	0	0	0	0	506	0	0	0	10	0
U. Wisconsin-Milwaukee	205	503	0	330	0	0	146	0	0	0	27	0
U. Alaska, Anchorage	206	485	58	96	0	0	95	0	0	44	192	0
Icahn School of Medicine at Mount Sinai	207	460	0	0	460	0	0	0	0	0	0	0
Texas A&M U.-Kingsville	208	454	0	0	0	0	0	0	0	0	454	0
U. Illinois, Chicago	209	448	26	266	0	0	37	0	0	0	119	0
Drexel U.	210	434	0	0	0	0	6	0	0	0	428	0
East Carolina U.	211	425	0	390	0	0	0	0	35	0	0	0
Ohio U.	212	424	0	0	260	0	0	0	0	0	147	17
Texas A&M U.-Corpus Christi	213	416	0	355	0	0	0	0	0	0	61	0
U. Louisville	214	415	0	0	96	0	30	0	17	0	267	5
Lehigh U.	215	391	0	140	0	0	239	0	0	0	12	0
Illinois Institute of Technology	216	390	0	0	0	0	0	0	0	0	390	0
U. Texas Health Science Center, Houston	217	371	0	0	371	0	0	0	0	0	0	0
Cleveland State U.	218	361	0	0	271	0	0	0	40	0	50	0
Alabama State U.	219	354	255	0	99	0	0	0	0	0	0	0
U. South Alabama	220	349	0	61	117	0	31	0	0	0	140	0
DePaul U.	221	345	0	345	0	0	0	0	0	0	0	0
U. Dayton	222	341	0	92	0	0	0	0	0	0	249	0
Boston C.	223	332	0	312	0	0	20	0	0	0	0	0
Brandeis U.	224	326	0	0	293	0	0	0	33	0	0	0
CUNY, Hunter C.	225	324	0	244	0	0	50	0	0	0	0	30
SUNY, C. of Environmental Science and Forestry	226	314	236	0	78	0	0	0	0	0	0	0
Western Kentucky U.	227	311	0	0	0	0	311	0	0	0	0	0
Syracuse U.	228	305	0	195	0	0	0	0	0	0	91	19
Andrews U.	229	304	0	0	0	0	304	0	0	0	0	0
Louisiana Tech U.	230	292	0	0	163	0	27	0	0	0	102	0
U. South Carolina, Aiken	231	287	0	0	287	0	0	0	0	0	0	0
Southern Illinois U., Carbondale	232	285	0	177	25	0	58	0	0	0	21	4
Central Washington U.	233	278	0	266	0	0	12	0	0	0	0	0
Haverford C.	234	277	0	0	0	0	277	0	0	0	0	0
SUNY, C. Plattsburgh	235	270	0	0	0	0	270	0	0	0	0	0
U. Texas M. D. Anderson Cancer Center	236	267	0	0	267	0	0	0	0	0	0	0
Western Washington U.	236	267	0	99	0	0	0	0	0	168	0	0

TABLE 63
Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Houston-Clear Lake	306	113	0	0	0	0	112	0	0	0	1	0
Bowdoin C.	307	111	0	61	0	0	50	0	0	0	0	0
U. Colorado Denver	307	111	0	0	0	0	0	0	0	0	106	5
U. Northern Iowa	307	111	0	0	0	4	107	0	0	0	0	0
Youngstown State U.	310	107	0	0	0	0	5	0	0	0	102	0
Hope C.	311	104	0	5	27	3	14	0	0	0	55	0
Delaware State U.	312	101	0	0	0	0	101	0	0	0	0	0
Clark U.	313	97	0	96	1	0	0	0	0	0	0	0
Mount Holyoke C.	314	95	0	0	0	0	95	0	0	0	0	0
Wellesley C.	315	92	0	0	0	0	42	0	0	0	50	0
Barnard C.	316	90	0	0	0	0	90	0	0	0	0	0
Jackson State U.	316	90	0	0	0	41	25	0	0	0	24	0
U. North Florida	318	86	0	0	65	0	21	0	0	0	0	0
Louisiana State U., Health Sciences Center, New Orleans	319	85	0	0	85	0	0	0	0	0	0	0
Spelman C.	319	85	0	85	0	0	0	0	0	0	0	0
U. Richmond	319	85	0	85	0	0	0	0	0	0	0	0
Tennessee Technological U.	322	82	51	31	0	0	0	0	0	0	0	0
Appalachian State U.	323	79	0	0	0	0	44	0	35	0	0	0
Virginia State U.	323	79	0	0	0	0	0	0	0	0	79	0
Butler U.	325	76	0	0	0	0	76	0	0	0	0	0
Oregon Health and Science U.	326	74	0	0	74	0	0	0	0	0	0	0
Oregon Institute of Technology	327	68 i	0 i	48 i	20 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
U. Colorado Colorado Springs	327	68	50	0	0	0	0	0	0	0	18	0
Montclair State U.	329	67	0	67	0	0	0	0	0	0	0	0
Pomona C.	330	65	0	5	0	0	60	0	0	0	0	0
Albany State U.	331	64	57	0	0	0	0	0	0	0	7	0
U. Massachusetts, Dartmouth	332	63	0	28	0	0	35	0	0	0	0	0
James Madison U.	333	62	0	0	0	0	62	0	0	0	0	0
U. South Dakota	333	62	0	0	62	0	0	0	0	0	0	0
Virginia Military Institute	333	62	0	0	0	0	0	0	0	0	62	0
Oakland U.	336	61	26	0	0	0	16	0	0	0	19	0
Alaska Pacific U.	337	60	0	60	0	0	0	0	0	0	0	0
Occidental C.	337	60 i	0 i	0 i	0 i	0 i	60 i	0 i	0 i	0 i	0 i	0 i
Union C., Schenectady	337	60	0	0	0	0	60	0	0	0	0	0

TABLE 63
Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Dillard U.	340	59	0	0	0	0	0	0	0	0	59	0
Tennessee State U.	340	59	0	0	0	0	0	0	0	0	0	59
SUNY, Geneseo	342	57	0	47	0	0	10	0	0	0	0	0
Northern Kentucky U.	343	56	0	0	0	0	56	0	0	0	0	0
U. San Francisco	343	56	0	41	0	0	15	0	0	0	0	0
Chicago State U.	345	55	0	0	0	0	55	0	0	0	0	0
Drake U.	345	55	1	0	54	0	0	0	0	0	0	0
Murray State U.	345	55	0	55	0	0	0	0	0	0	0	0
West Virginia State U.	348	52	0	0	52	0	0	0	0	0	0	0
Florida Gulf Coast U.	349	51	0	51	0	0	0	0	0	0	0	0
SUNY, C. Brockport	350	50	0	0	0	0	50	0	0	0	0	0
U. Central Arkansas	350	50	0	29	8	0	13	0	0	0	0	0
U. San Diego	350	50	0	0	0	0	50	0	0	0	0	0
U.S. Naval Academy	350	50	0	0	0	0	50	0	0	0	0	0
West Chester U. Pennsylvania	350	50	0	0	0	0	50	0	0	0	0	0
Franklin W. Olin C. of Engineering	355	48	0	0	0	0	0	0	0	0	48	0
Pittsburg State U.	355	48	0	0	0	0	0	0	0	0	48	0
U. Baltimore	355	48	48	0	0	0	0	0	0	0	0	0
U. Central Oklahoma	358	47 i	1 i	0 i	27 i	0 i	10 i	0 i	0 i	0 i	9 i	0 i
Bucknell U.	359	46	0	0	0	0	39	0	0	0	7	0
Thomas Jefferson U.	359	46	0	0	46	0	0	0	0	0	0	0
Colorado C.	361	44	0	0	0	0	44	0	0	0	0	0
Williams C.	362	43 i	0 i	16 i	11 i	0 i	16 i	0 i	0 i	0 i	0 i	0 i
CUNY, C. Staten Island	363	42	0	0	42	0	0	0	0	0	0	0
Carleton C.	364	41 i	0 i	0 i	0 i	0 i	41 i	0 i	0 i	0 i	0 i	0 i
Fort Lewis C.	364	41	0	0	0	0	0	0	0	0	41	0
Marquette U.	364	41	0	0	0	0	23	0	0	0	18	0
SUNY, Polytechnic Institute	364	41	0	0	0	0	0	0	0	0	41	0
U. Denver	364	41	0	0	0	0	41	0	0	0	0	0
U. New Haven	364	41	0	13	5	0	0	0	0	0	23	0
U. Northern Colorado	364	41	0	6	0	0	35	0	0	0	0	0
Central Michigan U.	371	40	0	40	0	0	0	0	0	0	0	0
Lincoln U.	371	40	0	0	26	0	14	0	0	0	0	0
Central Connecticut State U.	373	38	0	0	0	0	6	0	0	0	31	1

TABLE 63
Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Towson U.	404	20	0	0	0	0	20	0	0	0	0	0
U. Minnesota, Duluth	404	20	0	0	20	0	0	0	0	0	0	0
Citadel Military C. South Carolina	410	19	0	0	0	0	11	0	0	0	8	0
U. Wisconsin-Superior	410	19	0	0	0	0	19	0	0	0	0	0
Bryn Mawr C.	412	18	0	0	18	0	0	0	0	0	0	0
Central State U.	412	18	0	0	0	0	0	0	0	0	18	0
Florida Polytechnic U.	412	18	0	0	0	0	0	0	0	0	18	0
Northland C.	415	17 i	0 i	13 i	3 i	0 i	0 i	0 i	0 i	0 i	0 i	1 i
Grambling State U.	416	16	0	16	0	0	0	0	0	0	0	0
Abilene Christian U.	417	15	0	0	0	0	0	0	0	0	15	0
Alcorn State U.	417	15	0	0	15	0	0	0	0	0	0	0
Arkansas State U., Jonesboro	417	15	0	0	8	0	0	0	0	0	7	0
U. Maryland, Eastern Shore	417	15	0	0	0	0	15	0	0	0	0	0
Skidmore C.	421	14	0	0	0	0	14	0	0	0	0	0
Swarthmore C.	421	14	0	0	0	0	14	0	0	0	0	0
CUNY, Baruch C.	423	13	0	0	0	0	0	0	0	0	0	13
Saginaw Valley State U.	423	13 i	3 i	0 i	10 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
East Tennessee State U.	425	12	0	0	0	0	12	0	0	0	0	0
Lipscomb U.	425	12	0	0	0	0	0	0	0	0	12	0
Austin Peay State U.	427	11	0	0	0	0	11	0	0	0	0	0
Rockefeller U.	427	11	0	0	11	0	0	0	0	0	0	0
U. Arkansas, Pine Bluff	427	11	0	0	0	0	11	0	0	0	0	0
Vassar C.	427	11	0	0	0	0	11	0	0	0	0	0
Coastal Carolina U.	431	10	0	9	0	0	0	0	0	0	0	1
Davidson C.	431	10	0	0	0	0	0	0	10	0	0	0
U. of the Pacific	431	10	0	0	0	0	10	0	0	0	0	0
U. Puget Sound	431	10	0	10	0	0	0	0	0	0	0	0
Azusa Pacific U.	435	9	0	0	0	0	9	0	0	0	0	0
Ball State U.	435	9	0	0	0	0	9	0	0	0	0	0
Eastern Connecticut State U.	435	9	4	0	3	2	0	0	0	0	0	0
Trinity U.	435	9	0	0	0	0	9	0	0	0	0	0
Alfred U.	439	8	0	0	0	0	8	0	0	0	0	0
Purdue U., Northwest	439	8	0	0	5	0	3	0	0	0	0	0
U. Wisconsin-Platteville	439	8 i	0 i	0 i	4 i	0 i	3 i	0 i	0 i	1 i	0 i	0 i

TABLE 63
Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
CUNY, Queens C.	442	7	0	0	0	0	7	0	0	0	0	0
Macalester C.	442	7	0	0	0	0	7	0	0	0	0	0
U. Wisconsin-Stevens Point	442	7	0	0	0	0	7	0	0	0	0	0
Norwich U.	445	6	0	0	0	0	0	0	0	0	6	0
Rosalind Franklin U. of Medicine and Science	445	6	0	0	6	0	0	0	0	0	0	0
Trinity C., Hartford	445	6	4	0	0	0	0	0	0	0	2	0
U. Nebraska, Omaha	445	6	0	0	6	0	0	0	0	0	0	0
Hobart and William Smith Colleges	449	5	0	0	0	0	5	0	0	0	0	0
St. Cloud State U.	450	4	0	4	0	0	0	0	0	0	0	0
U. Texas, Tyler	450	4	0	0	0	0	0	0	0	0	4	0
Bryant U.	452	3	0	3	0	0	0	0	0	0	0	0
Gettysburg C.	452	3	0	0	0	0	3	0	0	0	0	0
Kennesaw State U.	452	3	0	0	0	0	0	0	0	0	0	3
U. Missouri, Saint Louis	452	3	0	0	0	0	3	0	0	0	0	0
U. North Georgia	456	2	0	0	0	0	2	0	0	0	0	0
U. of St. Thomas (MN)	456	2	0	0	0	0	0	0	0	0	2	0
U. Oklahoma, Tulsa	456	2	0	0	0	0	0	0	0	0	2	0
North Carolina Central U.	459	1 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	1 i	0 i
SUNY, Oswego	459	1	0	1	0	0	0	0	0	0	0	0

i = imputed.

NASA = National Aeronautics and Space Administration; nec = not elsewhere classified; S&E = science and engineering.

^a Johns Hopkins University includes the Applied Physics Laboratory, with \$503,280 thousand in R&D expenditures financed by NASA in FY 2023.^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.^c The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.**Note(s):**Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 64

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	6,699,546	844,522	886,194	907,224	251,663	1,284,351	83,291	192,977	128,831	1,731,109	389,384
U. California, San Diego	1	163,266	32,831	58,371	5,309	3,034	12,606	2,020	5,376	0	37,286	6,433
Woods Hole Oceanographic Institution	2	148,403	0	96,848	0	0	0	0	0	0	51,555	0
U. Washington, Seattle	3	142,970	9,174	40,631	9,423	6,181	21,605	1,027	4,068	0	37,094	13,767
Texas A&M U., College Station and Health Science Center	4	142,660	9,754	79,271	7,460	4,125	8,978	0	1,400	66	30,208	1,398
U. Illinois, Urbana-Champaign	5	137,092	41,009	4,802	15,716	2,751	21,299	1,835	1,206	77	42,999	5,398
Cornell U.	6	125,089	11,335	3,190	19,165	2,721	50,580	979	4,889	145	30,265	1,820
U. Texas, Austin	7	122,660	45,198	11,871	11,352	1,744	6,495	1,420	2,032	0	34,827	7,721
U. Colorado Boulder	8	119,866	15,138	27,695	7,635	2,400	26,032	774	5,938	307	22,939	11,008
Massachusetts Institute of Technology	9	117,488	22,875	9,963	7,967	3,765	38,242	178	1,311	2,054	29,225	1,908
U. Wisconsin-Madison	10	113,712	15,324	13,032	14,675	4,190	33,559	769	1,728	3,644	18,477	8,314
U. Michigan, Ann Arbor	11	109,808	3,716	3,028	13,471	4,687	15,046	2,068	18,191	646	43,700	5,255
Columbia U. in the City of New York	12	105,818	12,760	42,449	6,057	2,634	16,263	942	1,205	0	14,497	9,011
U. California, Berkeley	13	101,951	1,230	3,100	9,437	5,154	22,553	1,357	1,240	27,385	26,920	3,575
California Institute of Technology	14	96,199	3,096	6,298	2,435	489	77,322	0	508	63	5,881	107
Arizona State U.	15	87,368	5,652	4,841	15,930	796	14,464	536	5,493	1,443	31,022	7,191
Pennsylvania State U., University Park and Hershey Medical Center	16	84,781	11,636	10,053	10,754	3,474	18,612	1,672	2,561	0	20,260	5,759
Purdue U., West Lafayette	17	84,597	10,782	2,012	9,246	490	10,046	264	1,861	91	46,763	3,042
U. Minnesota, Twin Cities	18	81,018	5,595	9,590	17,666	4,003	9,537	1,090	3,230	37	28,848	1,422
Stanford U.	19	79,757	7,584	5,578	7,667	3,015	15,749	1,001	2,325	0	15,270	21,568
Georgia Institute of Technology	20	79,048	10,600	3,044	4,013	4,194	5,193	279	1,663	0	46,475	3,587
U. Chicago	21	75,499	17,097	6,136	4,268	3,271	26,849	2,473	1,709	0	12,159	1,537
Florida State U.	22	75,363	2,444	3,972	4,151	1,332	43,486	398	735	3	16,628	2,214
U. California, Los Angeles	23	74,397	6,346	8,023	5,147	5,262	12,609	1,597	2,179	10,761	14,879	7,594
Carnegie Mellon U.	24	73,377	39,202	108	696	3,395	5,517	1,559	836	3,930	17,594	540
Princeton U.	25	70,709	12,425	8,464	5,131	4,684	18,027	555	1,566	0	19,576	281
Ohio State U.	26	68,295	11,879	3,479	11,609	2,378	12,559	1,097	3,580	3,452	16,741	1,521
Oregon State U.	27	68,243	1,553	32,584	11,399	678	4,916	155	991	2,167	10,086	3,714
U. Maryland ^a	28	66,780	14,825	5,458	6,418	2,692	15,123	13	2,196	242	16,469	3,344
North Carolina State U.	29	66,411	11,149	3,170	8,301	5,559	4,241	629	203	655	29,869	2,635
Michigan State U.	30	61,082	3,112	1,712	18,063	5,736	16,395	822	1,984	717	7,250	5,291
U. Florida	31	60,602	6,142	8,434	9,905	1,276	8,922	128	1,609	0	18,703	5,483
U. Pennsylvania	32	59,837	5,428	345	5,468	2,138	19,059	1,362	2,100	144	14,982	8,811

TABLE 64

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Southern California	33	58,556	15,662	8,645	5,319	1,481	4,269	383	994	0	16,559	5,244
Virginia Polytechnic Institute and State U.	34	58,394	6,373	2,641	12,360	1,744	5,681	221	1,373	0	27,022	979
Northeastern U.	35	57,624	8,897	2,172	2,535	853	6,003	895	3,465	0	30,615	2,189
U. California, Santa Barbara	36	57,467	6,819	8,882	3,058	849	17,860	693	1,338	826	16,539	603
U. Arizona	37	57,350	2,883	8,642	12,534	2,087	13,113	78	2,965	1,776	11,629	1,643
Northwestern U.	38	56,367	4,665	618	3,385	1,310	15,630	439	2,530	9,723	17,520	547
Harvard U.	39	54,965	4,798	4,099	10,996	2,122	14,798	694	2,665	254	12,073	2,466
U. California, Irvine	40	53,841	7,386	2,871	7,583	3,429	10,318	1,406	1,582	0	15,368	3,898
U. Utah	41	51,343	0	4,059	5,082	2,511	10,375	259	640	0	25,395	3,022
Indiana U., Bloomington	42	50,384	23,205	1,485	6,539	1,241	7,240	1,454	2,113	1,010	2,394	3,703
U. North Carolina, Chapel Hill	43	48,106	14,525	3,544	5,923	2,082	9,772	655	3,253	0	2,841	5,511
Rutgers, State U. New Jersey, New Brunswick	44	47,501	4,831	6,380	11,828	4,371	5,438	390	267	0	10,288	3,708
U. California, Davis	45	46,849	3,575	3,793	19,026	3,180	4,624	417	1,065	24	9,364	1,781
U. Alaska, Fairbanks	46	46,220	0	26,930	9,110	336	2,944	0	938	3,792	1,471	699
Duke U.	47	45,599	8,788	1,293	7,792	2,903	7,565	247	1,696	9	14,538	768
SUNY, Stony Brook U.	48	44,682	6,577	4,287	2,903	2,243	17,965	527	661	2,242	7,113	164
New York U.	49	43,877	4,175	56	4,795	6,575	6,226	1,907	2,954	0	13,154	4,035
U. Delaware	50	42,731	1,496	7,649	2,574	1,286	10,717	418	2,730	1,917	10,997	2,947
U. Notre Dame	51	41,477	4,759	0	1,707	3,058	15,718	786	881	601	13,457	510
U. Virginia, Charlottesville	52	41,133	7,386	3,482	2,263	1,246	5,877	432	397	0	13,559	6,491
Johns Hopkins U. ^b	53	40,834	3,394	2,529	4,703	1,641	12,705	1,044	210	5	14,477	126
Rice U.	54	40,654	4,159	1,632	4,206	1,984	8,521	638	833	492	17,061	1,128
Yale U.	55	39,036	5,182	1,814	8,526	1,613	7,391	512	1,638	0	7,490	4,870
U. Massachusetts, Amherst	56	38,784	8,507	1,685	4,631	1,549	6,671	985	1,756	0	11,291	1,709
U. Pittsburgh, Pittsburgh	57	38,493	2,298	896	8,140	1,638	6,940	338	933	3,217	11,660	2,433
U. Hawaii, Manoa	58	38,423	4,143	21,447	2,985	483	5,434	5	273	581	2,658	414
U. Nebraska, Lincoln and Medical Center ^c	59	38,292	3,619	1,375	9,606	1,007	15,574	279	519	7	3,753	2,553
Colorado State U., Fort Collins	60	37,561	1,463	8,537	10,086	1,432	4,947	472	437	378	7,834	1,975
Iowa State U.	61	35,809	2,250	1,372	7,367	732	2,800	240	461	0	18,209	2,378
Brown U.	62	34,145	3,929	3,325	6,238	7,044	5,608	16	1,026	1,991	4,659	309
Boston U.	63	33,870	3,724	1,852	2,877	742	5,438	991	756	1,301	13,547	2,642
U. New Mexico	64	33,744	1,937	4,593	5,473	211	3,658	52	1,533	116	14,143	2,028
SUNY, U. Buffalo	65	33,542	8,920	2,377	2,745	508	4,757	214	203	0	12,679	1,139

TABLE 64

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Georgia	66	32,580	769	4,882	15,594	1,104	1,479	1,512	1,423	52	3,284	2,481
Florida International U.	67	31,761	10,157	5,565	3,336	575	2,429	330	609	651	8,052	57
U. Connecticut	68	31,244	2,129	3,040	9,653	1,548	3,833	2,260	237	58	7,317	1,169
U. California, Riverside	69	29,853	4,020	1,373	7,451	1,022	5,643	947	396	48	8,514	439
Vanderbilt U. and Vanderbilt U. Medical Center	70	29,839	6,332	1,003	2,784	582	2,812	945	533	0	7,033	7,815
U. Kansas	71	28,554	3,195	2,577	9,216	365	5,863	475	701	0	5,525	637
U. Illinois, Chicago	72	27,352	4,236	29	3,015	3,022	8,113	216	68	376	6,212	2,065
U. Central Florida	73	26,673	3,409	0	1,011	741	3,730	9	390	392	15,710	1,281
U. Oklahoma, Norman and Health Science Center	74	23,986	4,266	5,909	3,720	546	2,429	567	1,957	0	4,210	382
Clemson U.	75	23,552	2,345	0	1,361	1,008	2,162	215	1,030	0	13,662	1,769
U. Tennessee, Knoxville	76	23,328	1,522	728	5,446	736	3,861	493	230	910	8,170	1,232
Dartmouth C. and Dartmouth Hitchcock Medical Center	77	23,150	3,259	1,662	1,872	941	2,886	1,857	1,246	750	8,676	1
U. Wyoming	78	22,534	629	8,094	9,604	520	1,737	63	874	0	1,013	0
U. Arkansas, Fayetteville	79	22,471	2,356	942	4,209	80	5,302	314	571	497	7,471	729
Montana State U., Bozeman	80	22,324	751	1,197	3,286	845	10,765	0	14	974	4,186	306
U. Houston	81	22,004	1,400	1,728	1,334	3,075	3,235	679	1,007	695	7,620	1,231
Washington U., Saint Louis	82	21,715	3,482	1,521	4,351	1,063	3,525	211	1,629	113	5,449	371
U. Rochester	83	21,335	1,859	1,892	2,247	292	5,871	372	428	463	6,030	1,881
U. California, Santa Cruz	84	21,029	2,925	6,813	1,943	203	3,559	207	427	0	4,534	418
U. Oregon	85	20,542	1,234	2,298	2,492	1,420	6,771	443	894	0	657	4,333
U. New Hampshire	86	20,540	554	6,491	4,104	581	1,218	170	557	0	6,037	828
U. Kentucky	87	20,442	1,929	400	4,662	829	3,125	46	283	315	8,440	413
U. Nevada, Reno	88	20,342	3,324	1,919	5,481	109	2,888	238	259	0	6,041	83
Louisiana State U., Baton Rouge	89	20,103	1,594	2,493	3,200	1,309	5,153	91	566	32	5,201	464
U. Texas, El Paso	90	19,551	4,907	2,308	3,284	340	1,621	400	642	0	5,005	1,044
Colorado School of Mines	91	19,536	1,297	3,297	402	483	7,040	18	447	109	6,139	304
U. Missouri, Columbia	92	18,383	39	744	6,256	626	965	541	134	1,731	5,273	2,074
U. Alabama, Tuscaloosa	93	18,364	1,597	436	3,000	264	1,615	41	882	0	8,931	1,598
U. Idaho	94	17,921	2,841	719	11,265	18	202	0	447	0	1,460	969
Washington State U.	95	17,645	1,259	1,808	4,910	86	2,225	219	665	714	4,439	1,320
U. Maine	96	17,637	686	4,490	4,315	52	1,080	0	18	4,063	2,784	149
U. Texas, Dallas	97	17,448	4,167	276	1,032	624	3,196	99	886	0	6,758	410
Drexel U.	98	16,875	2,876	0	1,280	445	929	111	665	43	8,242	2,284

TABLE 64

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. South Florida	99	16,541	1,400	3,106	1,390	580	1,456	352	811	191	7,015	240
Utah State U.	100	16,532	1,711	918	3,552	251	1,021	284	0	0	7,745	1,050
U. South Carolina, Columbia	101	16,472	1,750	1,401	4,735	861	901	0	369	0	3,825	2,630
George Mason U.	102	16,347	4,217	1,576	1,251	898	1,614	359	704	88	4,261	1,379
George Washington U.	103	16,167	1,816	392	2,887	154	965	640	2,626	351	4,190	2,146
Kansas State U.	104	15,892	965	0	4,802	479	1,828	170	465	3	5,237	1,943
Auburn U., Auburn	105	15,636	446	737	3,790	486	2,843	0	273	95	6,338	628
U. Rhode Island	106	15,519	881	8,498	1,626	0	932	0	15	751	2,185	631
U. Cincinnati	107	14,900	673	722	1,988	578	2,834	110	461	0	6,629	905
Lehigh U.	108	14,720	1,315	801	1,103	355	1,559	461	0	0	8,860	266
Oklahoma State U., Stillwater	109	14,273	508	308	3,518	632	683	161	163	3,865	3,402	1,033
Rensselaer Polytechnic Institute	109	14,273	1,557	396	1,368	718	800	80	133	0	8,214	1,007
West Virginia U.	111	14,155	1,306	247	1,604	128	4,323	124	408	422	4,785	808
U. Miami	112	13,748	556	8,205	1,125	368	1,364	284	181	0	1,223	442
Syracuse U.	113	13,639	727	1,164	794	353	5,004	79	830	674	3,628	386
U. Maryland, Baltimore County	114	13,537	5,205	1,281	2,038	325	1,505	0	178	1,130	1,183	692
New Jersey Institute of Technology	115	13,523	3,215	0	844	882	4,268	0	82	64	3,933	235
Georgia State U.	116	13,377	1,671	717	1,870	500	4,243	261	1,420	0	0	2,695
Mississippi State U.	117	13,209	1,112	139	2,070	108	1,361	2	177	0	7,477	763
Texas Tech U.	118	13,143	1,303	1,082	1,861	899	1,354	112	24	0	5,451	1,057
Worcester Polytechnic Institute	119	13,042	4,396	0	436	504	877	0	202	0	5,400	1,227
New Mexico State U.	120	12,984	3,785	370	1,827	21	2,186	0	131	1,476	3,062	126
Temple U.	121	12,823	4,267	430	1,753	627	2,964	1,037	401	0	519	825
U. Texas, Arlington	122	12,822	2,611	42	1,735	645	3,786	28	76	0	3,439	460
Emory U.	123	12,370	1,543	285	2,519	1,125	5,066	57	987	0	589	199
U. Montana, Missoula	124	12,241	140	1,502	8,192	414	1,204	0	742	0	0	47
San Diego State U.	125	12,196	609	593	2,545	1,347	2,249	711	869	0	1,849	1,424
Tufts U.	126	12,117	1,496	240	2,280	962	2,146	142	220	10	4,203	418
U. Iowa	127	12,035	963	911	1,760	456	2,990	255	671	27	2,859	1,143
Boise State U.	128	11,813	1,133	1,085	3,488	478	749	0	298	182	3,276	1,124
CUNY, City C.	129	11,770	137	239	1,085	217	6,159	0	0	4	3,683	246
U. North Carolina, Charlotte	130	11,761	4,101	356	708	969	1,444	91	591	0	2,140	1,361
Northern Arizona U.	131	11,658	1,527	1,949	4,849	0	1,190	0	130	141	986	886

TABLE 64

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Rochester Institute of Technology	132	11,449	3,514	0	321	1,182	2,339	389	137	0	2,555	1,012
U. California, San Francisco	133	10,746	0	0	6,641	0	4,105	0	0	0	0	0
U. California, Merced	134	10,735	524	857	2,377	571	2,524	0	272	411	2,856	343
U. Alabama, Huntsville	135	10,710	1,870	705	346	4	7,122	0	0	0	660	3
North Dakota State U.	136	10,647	759	143	2,893	0	1,190	94	201	2,200	2,953	214
U. Vermont	137	10,563	598	840	4,505	92	1,366	11	681	850	1,391	229
Case Western Reserve U.	138	10,356	1,515	150	1,050	415	1,257	41	61	0	5,654	213
Wayne State U.	139	10,093	2,145	53	680	490	3,260	134	333	199	2,741	58
North Carolina A&T State U.	140	9,842	0	0	2,153	964	1,538	0	0	196	4,213	778
Michigan Technological U.	141	9,785	1,547	4,137	1,257	175	704	130	214	227	1,319	75
U. Louisville	142	9,497	0	46	620	19	841	353	68	0	7,477	73
Tulane U.	143	9,465	827	2,906	185	410	3,080	50	362	0	1,570	75
SUNY, Binghamton U.	144	9,406	1,510	186	332	191	2,449	140	314	0	3,574	710
Brigham Young U., Provo	145	9,148	1,214	291	963	744	1,531	49	133	0	4,067	156
Boston C.	146	9,110	541	632	474	1,121	3,001	1,428	300	0	0	1,613
U. Nevada, Las Vegas	147	8,972	1,125	428	1,914	261	1,538	0	277	0	2,515	914
Indiana U.-Purdue U., Indianapolis	148	8,876	2,661	659	648	412	883	0	363	677	2,032	541
U. Puerto Rico, Rio Piedras	149	8,653	299	1,576	1,211	35	1,294	0	72	1,492	2,580	94
U. of the Virgin Islands	150	8,640	117	5,575	837	679	1,130	0	302	0	0	0
U. Wisconsin-Milwaukee	151	8,497	0	633	315	43	5,670	0	143	0	917	776
Portland State U.	152	8,319	1,338	625	2,108	1,075	333	66	448	53	1,040	1,233
William & Mary	153	8,199	1,522	3,171	619	108	2,066	52	11	0	0	650
U. Texas, San Antonio	154	8,173	3,081	635	378	316	998	7	568	23	2,015	152
U. Massachusetts, Lowell	155	8,163	1,683	569	485	122	538	70	63	0	4,426	207
New Mexico Institute of Mining and Technology	156	8,111	889	5,296	336	39	923	0	0	0	582	46
U. Alabama, Birmingham	157	7,969	691	0	2,937	169	2,630	0	0	0	705	837
Brandeis U.	158	7,849	902	0	1,030	540	5,207	0	170	0	0	0
U. North Texas, Denton	159	7,489	1,843	0	1,090	227	1,885	71	221	0	1,933	219
California State U., Northridge	160	7,385	192	1,561	1,981	189	2,628	50	176	0	381	227
U. Texas Rio Grande Valley	161	7,382	116	378	8	1,279	1,355	0	95	0	3,272	879
Old Dominion U.	162	7,351	484	1,709	1,736	233	721	62	88	0	1,830	488
Florida A&M U.	163	7,064	82	1,155	1,455	0	365	10	0	0	3,539	458
Virginia Commonwealth U.	164	6,997	1,091	29	1,068	482	1,404	95	161	0	2,239	428

TABLE 64

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Texas State U.	165	6,987	805	28	412	1,484	1,784	0	451	45	340	1,638
East Carolina U.	166	6,791	571	1,805	1,643	77	757	0	566	0	966	406
SUNY, U. Albany	167	6,624	923	2,911	757	137	381	36	392	0	520	567
U. Louisiana, Lafayette	168	6,541	1,958	727	1,428	174	142	0	11	0	1,719	382
Georgetown U.	169	6,527	1,248	0	1,714	53	1,813	474	1,173	0	0	52
South Dakota School of Mines and Technology	170	6,263	145	0	0	0	1,292	0	0	0	4,826	0
Stevens Institute of Technology	171	6,241	1,439	0	0	191	246	0	86	0	4,037	242
U. Massachusetts, Boston	172	6,106	444	316	1,070	0	1,720	751	807	0	474	524
Florida Atlantic U.	173	6,028	1,453	120	1,077	273	357	0	0	0	2,562	186
Howard U.	174	5,937	411	0	1,142	189	805	64	195	0	3,131	0
San Francisco State U.	175	5,871	963	563	2,347	203	114	0	339	538	523	281
U. Memphis	176	5,771	2,378	737	350	375	599	0	155	0	842	335
Western Washington U.	177	5,695	90	1,148	364	342	1,695	8	204	623	421	800
Kent State U.	178	5,691	1,108	158	642	129	1,938	214	271	60	450	721
American U.	179	5,629	6	328	133	73	293	0	370	0	0	4,426
Western Michigan U. and Homer Stryker M.D. School of Medicine	180	5,536	83	166	770	10	487	0	62	73	672	3,213
Baylor C. of Medicine	181	5,527	0	0	5,527	0	0	0	0	0	0	0
Southern Methodist U.	182	5,520	105	260	0	1,060	1,408	0	260	568	986	873
U. South Alabama	183	5,486	559	1,032	506	493	232	0	73	0	1,676	915
Missouri U. of Science and Technology	184	5,360	514	0	24	193	1,322	70	6	0	3,231	0
Jackson State U.	185	5,241	113	0	222	31	3,898	107	158	0	597	115
U. Guam	186	5,195	0	4,551	0	71	0	0	0	0	0	573
Clarkson U.	187	5,081	746	0	124	135	1,010	0	55	0	2,886	125
Texas A&M U.-Corpus Christi	188	4,994	381	2,576	348	35	319	0	294	0	809	232
U. Puerto Rico, Mayaguez	189	4,972	170	156	120	0	466	0	0	0	3,818	242
Rutgers, State U. New Jersey, Newark	190	4,904	152	1,513	411	0	2,066	0	333	0	0	429
San Jose State U.	191	4,847	0	1,694	346	243	1,195	18	67	0	1,174	110
U. Mississippi	192	4,799	107	245	1,307	169	1,911	0	148	0	783	129
California State U., Los Angeles	193	4,755	187	100	805	10	1,309	15	207	0	1,715	407
Morgan State U.	194	4,738	404	29	366	310	735	236	43	0	1,113	1,502
Illinois Institute of Technology	195	4,722	2,064	79	88	354	129	0	7	152	1,849	0
Baylor U.	196	4,529	367	244	831	511	1,816	0	35	0	710	15
Cold Spring Harbor Laboratory	197	4,522	0	0	4,522	0	0	0	0	0	0	0

TABLE 64

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
California State U., San Bernardino	198	4,485	649	172	150	188	2,761	326	31	0	0	208
U. Denver	199	4,403	0	25	1,131	64	1,081	535	166	84	481	836
Marquette U.	200	4,396	501	0	1,147	303	745	0	0	0	1,423	277
U. Akron	201	4,369	80	131	366	58	1,884	0	0	0	1,785	65
U. Colorado Denver	202	4,345	153	689	370	757	947	0	78	0	963	388
Tuskegee U.	203	4,314	919	0	82	616	2,114	0	0	472	111	0
Villanova U.	204	4,300	59	276	812	107	492	294	0	0	1,425	835
California Polytechnic State U., San Luis Obispo	205	4,267	92	203	381	1,274	1,145	0	29	0	534	609
Miami U.	206	4,056	11	553	1,181	70	1,206	7	0	0	447	581
U. Massachusetts, Dartmouth	207	3,949	592	988	53	292	32	0	10	0	1,047	935
U. North Carolina, Greensboro	208	3,856	107	31	1,422	382	336	117	219	0	0	1,242
U. North Dakota	209	3,841	260	225	1,029	0	987	0	82	24	562	672
U. Nebraska, Omaha	210	3,766	1,224	44	542	513	446	129	25	0	506	337
Southern U. and A&M C., Baton Rouge	211	3,730	107	0	1,057	100	395	0	10	0	1,994	67
U. Maryland Center for Environmental Science	212	3,719	0	1,951	983	0	76	0	172	0	0	537
U. Alaska, Anchorage	213	3,691	4	202	952	0	149	0	612	1,171	274	327
Embry-Riddle Aeronautical U.	214	3,619	981	174	80	604	1,338	0	0	0	442	0
Illinois State U.	215	3,570	104	353	695	197	1,661	0	0	0	0	560
Rowan U.	216	3,562	63	64	387	43	1,048	0	39	139	1,779	0
U. Southern Mississippi	217	3,557	0	924	441	0	1,811	0	14	0	0	367
California State U., Long Beach	218	3,518	165	317	433	265	1,102	130	179	0	674	253
Chicago State U.	219	3,463	0	0	1,984	0	1,479	0	0	0	0	0
Clark Atlanta U.	220	3,377	60	0	297	710	2,115	0	0	0	0	195
Morehouse C.	221	3,350	549	0	280	0	1,131	46	0	1,344	0	0
Northern Illinois U.	222	3,345	270	740	260	78	1,609	113	43	0	72	160
U. Colorado Anschutz Medical Campus	223	3,343	0	0	3,000	0	182	0	0	0	86	75
U. of the District of Columbia	224	3,333	338	0	24	227	0	284	0	0	1,028	1,432
California State Polytechnic U., Pomona	225	3,329	359	0	593	106	1,244	19	82	0	345	581
Loyola U., Chicago	226	3,318	381	0	1,086	25	824	502	141	0	0	359
U. South Dakota	227	3,275	226	0	541	0	1,889	0	8	0	564	47
Bowling Green State U.	228	3,273	153	951	52	39	785	0	0	0	114	1,179
Saint Louis U.	229	3,267	614	215	823	99	482	1	164	0	596	273
U. Tennessee, Chattanooga	230	3,219	512	0	581	193	0	0	7	198	1,589	139

TABLE 64

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Louisiana Tech U.	231	3,190	0	0	109	242	372	121	22	0	2,126	198
North Carolina Central U.	232	3,164	0	96	41	0	2,394	0	0	0	370	263
Oakland U.	232	3,164	585	0	796	63	930	147	0	0	643	0
South Dakota State U.	234	3,067	0	0	1,783	65	295	0	38	0	495	391
Idaho State U.	235	3,050	255	977	1,381	38	217	0	56	0	1	125
Montclair State U.	236	3,038	316	367	207	456	380	20	87	0	118	1,087
CUNY, Queens C.	237	3,015	209	291	1,137	189	641	0	179	0	0	369
New Mexico Highlands U.	238	3,005	1,095	151	1,505	242	12	0	0	0	0	0
Wake Forest U.	239	2,939	259	0	1,209	269	661	111	80	0	326	24
Norfolk State U.	240	2,931	77	0	54	123	531	0	0	0	1,152	994
CUNY, system office	241	2,901	0	0	45	0	0	0	0	1,683	0	1,173
Teachers C., Columbia U.	242	2,873	1,482	0	124	0	0	0	1,267	0	0	0
Hampton U.	243	2,825	409	928	460	0	376	0	0	0	652	0
Wichita State U.	244	2,787	0	0	215	133	585	0	0	0	1,790	64
U. Toledo	245	2,771	0	166	449	42	928	48	0	0	1,056	82
Tennessee Technological U.	246	2,736	1,526	0	57	0	181	0	0	0	972	0
California State U., Fullerton	247	2,733	285	190	514	157	976	42	25	0	490	54
U. North Carolina, Wilmington	248	2,718	101	1,323	797	32	0	0	103	0	110	252
James Madison U.	249	2,716	7	149	1,027	81	1,164	0	0	0	209	79
U. Tulsa	250	2,712	946	0	227	0	23	0	156	0	1,188	172
Desert Research Institute	251	2,628	0	2,628	0	0	0	0	0	0	0	0
Catholic U. of America	252	2,580	0	0	286	202	1,765	71	0	0	256	0
Ohio U.	253	2,568	0	72	496	0	1,072	35	217	0	382	294
Wesleyan U.	254	2,546	0	223	12	185	531	715	20	0	0	860
U. Minnesota, Duluth	255	2,476	172	388	1,218	67	366	0	165	0	100	0
Kennesaw State U.	256	2,472	378	0	244	166	234	0	84	0	246	1,120
Prairie View A&M U.	257	2,469	127	0	110	40	94	0	74	0	1,808	216
California State U., Chico	258	2,456	0	424	663	0	230	0	0	0	632	507
SUNY, Polytechnic Institute	259	2,448	0	0	389	0	0	0	0	0	2,059	0
U. Colorado Colorado Springs	260	2,438	990	65	97	0	137	6	0	0	391	752
CUNY, Graduate Center	261	2,385	0	15	0	6	659	92	568	301	206	538
Cleveland State U.	262	2,375	0	0	254	73	5	163	0	0	1,339	541
U. Washington, Bothell	263	2,369	195	182	177	75	808	0	0	0	0	932

TABLE 64

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Carleton C.	264	2,366	117	1,627	127	79	317	0	99	0	0	0
Texas A&M U.-Kingsville	265	2,329	256	0	0	0	0	0	24	0	2,049	0
SUNY, C. of Environmental Science and Forestry	266	2,311	0	289	954	0	267	26	61	0	574	140
Scripps Research Institute	267	2,301	0	0	2,301	0	0	0	0	0	0	0
Spelman C.	268	2,261	6	229	574	195	623	373	257	0	0	4
Barnard C.	269	2,233	135	209	496	0	1,046	284	39	0	0	24
Texas Southern U.	270	2,232	89	0	153	118	1,642	0	0	0	68	162
Rutgers, State U. New Jersey, Camden	271	2,203	2,117	0	0	0	0	0	86	0	0	0
Southern Illinois U., Carbondale	272	2,190	27	892	189	11	688	0	104	21	258	0
Occidental C.	273	2,159	354	187	353	122	446	445	172	0	0	80
Pacific U.	274	2,131	0	0	139	0	34	0	86	0	0	1,872
California State U., Sacramento	275	2,115	134	91	201	26	352	98	62	17	224	910
DePaul U.	276	2,114	768	111	136	136	0	0	78	0	106	779
California State U., Monterey Bay	277	2,096	609	807	157	190	333	0	0	0	0	0
Naval Postgraduate School	278	2,092	0	1,707	0	43	0	0	0	0	209	133
U. Texas Southwestern Medical Center	279	2,091	0	0	2,091	0	0	0	0	0	0	0
California State U., San Marcos	280	2,081	412	0	217	52	177	351	0	543	0	329
Delaware State U.	281	2,039	267	106	1,082	17	195	0	28	0	176	168
California State U., East Bay	282	2,033	0	0	85	0	553	0	150	0	0	1,245
U. Missouri, Kansas City	283	1,990	59	281	49	0	213	0	0	0	729	659
Appalachian State U.	284	1,978	410	396	770	29	293	6	74	0	0	0
U. Michigan, Dearborn	285	1,976	0	0	25	211	169	0	0	0	1,571	0
Tennessee State U.	286	1,899	37	0	733	0	49	129	0	0	439	512
Harvey Mudd C.	287	1,898	476	0	393	251	326	0	0	72	380	0
Amherst C.	288	1,882	104	204	172	731	671	0	0	0	0	0
U. Texas Health Science Center, Houston	289	1,861	0	0	1,861	0	0	0	0	0	0	0
CUNY, Lehman C.	290	1,839	396	0	0	167	726	0	426	0	0	124
California State U., Fresno	291	1,830	87	156	47	514	290	144	1	0	407	184
Pace U.	292	1,824	776	0	42	0	0	0	0	0	102	904
CUNY, Hunter C.	293	1,787	377	10	0	69	658	13	503	0	0	157
CUNY, New York City C. of Technology	294	1,758	145	0	154	151	439	0	0	0	235	634
CUNY, Advanced Science Research Center	295	1,656	0	91	357	0	521	0	0	0	687	0
Fisk U.	296	1,637	713	0	638	52	234	0	0	0	0	0

TABLE 64

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Middle Tennessee State U.	297	1,613	312	0	305	221	508	68	0	0	0	199
U. Puerto Rico, Medical Sciences Campus	298	1,579	0	0	1,579	0	0	0	0	0	0	0
U. Arkansas, Little Rock	299	1,575	851	0	325	0	200	0	0	0	0	199
Oregon Health and Science U.	300	1,537	0	0	1,060	0	0	0	0	0	477	0
U. Dayton	301	1,533	0	98	285	61	135	0	0	0	681	273
Xavier U. Louisiana	302	1,520	38	0	260	0	1,042	0	91	0	89	0
CUNY, C. Staten Island	303	1,488	0	0	264	65	356	528	0	0	275	0
Santa Clara U.	303	1,488	0	0	230	8	391	0	41	0	803	15
Smith C.	305	1,485	374	8	198	327	293	0	0	12	273	0
Swarthmore C.	306	1,451	69	0	922	123	228	0	20	0	0	89
Alabama A&M U.	307	1,449	201	0	236	60	302	22	43	0	488	97
Utah Valley U.	308	1,421	0	96	218	159	355	0	0	152	435	6
Central Washington U.	309	1,401	0	962	28	178	233	0	0	0	0	0
U. West Florida	310	1,396	948	0	65	0	0	0	0	0	4	379
Georgia Southern U.	311	1,384	3	42	384	50	304	0	0	3	439	159
Alabama State U.	312	1,376	0	0	1,376	0	0	0	0	0	0	0
Fort Lewis C.	313	1,356	0	0	95	0	633	0	0	0	474	154
U. New Orleans	314	1,341	107	83	129	107	435	0	41	0	439	0
CUNY, Brooklyn C.	315	1,328	163	0	176	71	561	230	45	0	0	82
Florida Institute of Technology	316	1,307	0	568	174	120	107	0	0	0	338	0
Bowdoin C.	317	1,297	53	241	359	92	286	10	8	0	0	248
Hofstra U.	318	1,291	0	161	389	216	24	34	0	0	253	214
Central Michigan U.	319	1,285	0	475	391	16	150	62	20	0	171	0
Colgate U.	320	1,270	75	656	55	71	361	33	19	0	0	0
U. Massachusetts, Medical School	320	1,270	0	0	1,270	0	0	0	0	0	0	0
Tougaloo C.	322	1,257	84	0	521	69	423	51	48	0	0	61
Bucknell U.	323	1,251	109	0	173	118	364	0	0	0	487	0
U. San Diego	324	1,245	0	33	16	309	491	0	0	0	226	170
Winston-Salem State U.	325	1,235	307	0	281	0	439	195	13	0	0	0
Icahn School of Medicine at Mount Sinai	326	1,230	0	0	1,230	0	0	0	0	0	0	0
U. Puget Sound	327	1,224	0	53	1,058	0	86	0	27	0	0	0
Wellesley C.	328	1,215	137	212	343	292	0	0	180	0	0	51
Ball State U.	329	1,196	18	0	428	44	565	62	50	0	0	29

TABLE 64

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
California State U., Channel Islands	330	1,186	0	0	78	377	0	0	118	560	0	53
Bryn Mawr C.	331	1,184	80	40	570	72	360	0	62	0	0	0
U. Arkansas for Medical Sciences	331	1,184	0	0	1,184	0	0	0	0	0	0	0
Sonoma State U.	333	1,180	0	40	283	719	1	57	0	54	26	0
Dakota State U.	334	1,164	1,083	0	81	0	0	0	0	0	0	0
U. Missouri, Saint Louis	335	1,162	63	0	451	120	135	0	190	0	0	203
Virginia State U.	336	1,151	0	0	127	36	47	29	0	0	39	873
Murray State U.	337	1,148	0	298	368	164	318	0	0	0	0	0
Christopher Newport U.	338	1,131	0	0	0	154	977	0	0	0	0	0
U. North Florida	339	1,130	154	0	292	0	427	0	0	0	102	155
Gallaudet U.	340	1,105	324	0	185	40	19	160	42	0	0	335
U. Puerto Rico, Humacao	341	1,104	0	105	55	0	944	0	0	0	0	0
Grinnell C.	342	1,082	129	0	509	0	412	0	18	0	0	14
C. Charleston	343	1,067	241	170	366	0	138	0	0	0	0	152
Northeastern Illinois U.	344	1,064	481	44	73	0	0	0	11	0	0	455
Hope C.	345	1,048	0	0	164	0	527	0	0	0	357	0
Reed C.	346	1,043	i 76 i	0 i	325 i	62 i	390 i	46 i	30 i	0 i	0 i	114 i
Middlebury C.	347	1,035	0	574	280	0	110	0	71	0	0	0
Mount Holyoke C.	348	1,022	113	53	346	173	161	176	0	0	0	0
Fayetteville State U.	349	1,019	i 50 i	0 i	0 i	0 i	183 i	0 i	0 i	0 i	113 i	673 i
U. Northern Iowa	350	1,015	0	0	0	0	39	0	963	13	0	0
CUNY, John Jay C. of Criminal Justice	351	1,006	0	0	180	335	41	149	110	20	0	171
Tarleton State U.	352	991	0	0	0	0	0	37	0	954	0	0
Bates C.	353	990	0	28	909	0	52	0	1	0	0	0
U. Texas M. D. Anderson Cancer Center	354	988	0	0	825	26	127	10	0	0	0	0
Kean U.	355	979	722	0	99	0	0	0	0	0	0	158
Haverford C.	356	960	85	9	147	77	365	272	5	0	0	0
Citadel Military C. South Carolina	357	959	662	0	0	0	25	15	0	0	170	87
Chapman U.	358	953	0	10	249	0	564	0	50	0	43	37
Morehouse School of Medicine	359	952	0	0	952	0	0	0	0	0	0	0
Northwest Indian C.	360	942	i 0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	942 i
Sam Houston State U.	360	942	64	75	124	455	224	0	0	0	0	0
Arkansas State U., Jonesboro	362	931	31	0	637	0	163	0	38	0	62	0

TABLE 64

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Clark U.	363	923	30	308	145	0	415	0	25	0	0	0
Bowie State U.	364	906	479	0	427	0	0	0	0	0	0	0
Southern Illinois U., Edwardsville	365	901	0	169	122	0	152	0	126	4	0	328
Purdue U., Northwest	366	896	131	0	0	0	172	0	0	48	545	0
Macalester C.	367	882	0	206	112	55	459	0	0	0	0	50
New York Institute of Technology	368	872	108	0	137	0	164	0	0	0	463	0
U. Alaska, Southeast	369	868	0	205	38	0	0	0	0	526	0	99
Towson U.	370	858	82	107	112	231	326	0	0	0	0	0
Augusta U.	371	856	713	0	29	94	0	0	0	0	0	20
Colby C.	372	855	13	52	412	72	160	8	56	0	0	82
U. Washington, Tacoma	373	850	78	207	0	182	0	0	96	0	0	287
Texas A&M U.-Commerce	374	849	176	0	0	108	565	0	0	0	0	0
Black Hills State U.	375	839	396	0	132	0	113	0	0	0	0	198
Creighton U.	376	835	192	0	127	54	327	21	42	0	0	72
Claremont McKenna C.	377	832	166	4	145	138	82	297	0	0	0	0
C. New Jersey	378	826	211	0	113	65	310	0	24	0	103	0
California State U., Dominguez Hills	378	826	307	0	220	1	0	65	77	0	0	156
Eastern Michigan U.	380	820	0	92	408	131	44	0	11	0	0	134
CUNY, Baruch C.	381	813	0	0	156	515	0	96	0	0	0	46
Florida Gulf Coast U.	382	812	0	775	0	2	9	0	0	0	26	0
Kenyon C.	383	811	0	0	373	0	438	0	0	0	0	0
Trinity U.	383	811	2	164	0	43	432	0	113	0	57	0
East Stroudsburg U. Pennsylvania	385	809	0	0	0	0	0	0	0	0	0	809
St. Olaf C.	386	806	109	73	591	8	25	0	0	0	0	0
Lafayette C.	387	805	0	57	14	105	314	2	0	0	313	0
Texas Woman's U.	388	804	43	0	760	0	1	0	0	0	0	0
Dine C.	389	802	0	0	709	0	0	0	0	0	93	0
U. Hawaii, Maui C.	390	801	0	0	451	0	55	0	0	0	0	295
Colorado State U., Pueblo	391	798	123	0	671	0	0	0	4	0	0	0
U. Northern Colorado	392	794	0	341	31	66	19	0	337	0	0	0
Toyota Technological Institute, Chicago	393	784	784	0	0	0	0	0	0	0	0	0
Furman U.	394	776	0	0	46	0	620	110	0	0	0	0
Seattle U.	395	759	54	10	47	0	198	0	34	0	69	347

TABLE 64

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Pomona C.	396	755	68	61	143	328	155	0	0	0	0	0
Franklin and Marshall C.	397	752	0	0	249	0	403	100	0	0	0	0
Pennsylvania State U., Behrend	398	736	0	0	0	0	342	1	0	0	184	209
U. Texas Medical Branch	399	735	0	0	735	0	0	0	0	0	0	0
Salisbury U.	400	730	198	0	188	0	0	0	0	0	0	344
Elizabeth City State U.	401	722	58	0	494	0	0	3	0	0	0	167
Lewis and Clark C.	402	714	0	105	449	21	139	0	0	0	0	0
Williams C.	403	713	i 43	i 82	i 264	i 36	i 213	i 26	i 17	i 0	i 0	i 32
Vassar C.	404	707	26	183	179	157	159	0	3	0	0	0
Rockefeller U.	405	706	0	0	527	0	179	0	0	0	0	0
West Chester U. Pennsylvania	406	705	0	1	83	0	570	0	13	0	0	38
Marshall U.	407	694	265	2	136	0	115	0	43	0	133	0
U.S. Naval Academy	408	681	272	0	0	27	225	0	0	0	157	0
U. Richmond	409	680	0	0	313	5	265	83	14	0	0	0
Oberlin C.	410	678	58	8	195	46	318	53	0	0	0	0
Providence C.	411	673	0	49	465	0	118	0	41	0	0	0
Skidmore C.	412	672	0	16	241	0	353	22	0	0	0	40
U. Hawaii, Hilo	413	671	286	19	253	0	62	0	51	0	0	0
California State U., Stanislaus	414	670	122	0	115	271	30	119	13	0	0	0
Fordham U.	415	647	54	0	350	10	72	79	0	0	0	82
Wright State U.	415	647	69	132	337	0	109	0	0	0	0	0
SUNY, Buffalo State U.	417	645	0	373	0	192	47	0	0	0	0	33
Union C., Schenectady	418	643	4	309	0	24	53	0	0	0	253	0
Fort Valley State U.	419	634	0	70	429	17	118	0	0	0	0	0
Davidson C.	420	629	85	0	164	0	244	0	126	0	0	10
West Texas A&M U.	421	627	192	151	0	0	183	0	0	0	101	0
Langston U.	422	625	0	0	169	21	6	429	0	0	0	0
Saint Joseph's U.	423	624	0	0	412	4	0	0	0	0	0	208
Bentley U.	424	620	8	138	19	0	0	0	7	0	72	376
South Carolina State U.	424	620	92	0	8	0	520	0	0	0	0	0
Butler U.	426	616	0	0	364	0	241	11	0	0	0	0
Coastal Carolina U.	427	602	0	358	137	0	107	0	0	0	0	0
East Tennessee State U.	428	601	0	0	346	19	236	0	0	0	0	0

TABLE 64

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Eastern Kentucky U.	429	596	0	0	218	0	309	0	0	0	69	0
Texas Christian U.	430	594	83	173	63	1	249	0	0	0	0	25
U. Texas, Tyler	431	593	25	0	196	87	75	0	17	0	168	25
U. Arkansas, Pine Bluff	432	590	0	0	16	0	574	0	0	0	0	0
New School	433	585	0	239	0	0	0	279	23	0	44	0
Texas A&M U.-San Antonio	434	581	107	0	318	27	0	83	46	0	0	0
U. Scranton	435	568	35	327	138	0	68	0	0	0	0	0
Colorado C.	436	567	62	132	141	128	104	0	0	0	0	0
SUNY, Geneseo	437	564	0	0	172	0	392	0	0	0	0	0
St. John's U., New York	438	561	163	0	104	0	205	41	0	0	0	48
Hobart and William Smith Colleges	439	560	0	270	114	0	157	0	0	19	0	0
United Tribes Technical C.	440	559	0	0	559	0	0	0	0	0	0	0
U. Wisconsin-Eau Claire	441	557	0	137	23	22	373	0	2	0	0	0
U. New Haven	442	551	422	49	80	0	0	0	0	0	0	0
Ursinus C.	442	551	0	0	255	120	174	2	0	0	0	0
Roger Williams U.	444	547	0	20	212	0	93	0	0	0	0	222
Dillard U.	445	534	0	33	364	10	8	0	0	35	5	79
Southern Connecticut State U.	445	534	9	0	25	0	345	100	0	0	0	55
U. Wisconsin-Oshkosh	447	533	0	0	91	0	19	0	20	0	0	403
Montana Technological U.	448	524	0	125	59	0	29	0	0	0	311	0
Texas A&M International U.	448	524	0	0	113	49	0	0	0	357	5	0
California State Polytechnic U., Humboldt	450	523	8	54	334	0	54	0	2	0	0	71
Calvin U.	451	515	9	0	49	0	393	0	0	0	64	0
Meharry Medical C.	452	508	508	0	0	0	0	0	0	0	0	0
Western Kentucky U.	453	506	0	27	67	0	247	84	0	0	72	9
Arcadia U.	454	503	0	0	0	0	0	0	0	0	0	503
Lincoln U., Jefferson City	454	503	0	0	212	0	0	0	0	291	0	0
Lamar U.	456	495	62	0	35	0	224	0	0	0	153	21
Milwaukee School of Engineering	457	492	75	0	234	0	0	0	0	0	183	0
Nevada State C.	457	492	0	26	257	0	0	209	0	0	0	0
Southeastern Louisiana U.	459	489	0	0	356	0	128	0	0	0	5	0
Long Island U.	460	487	36	0	250	0	201	0	0	0	0	0
Youngstown State U.	461	484	62	0	0	98	67	0	0	0	257	0

TABLE 64

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Duquesne U.	462	476	0	0	105	50	259	0	0	0	52	10
U. of the Pacific	463	473	0	221	174	0	78	0	0	0	0	0
C. Wooster	464	470	0	154	0	56	260	0	0	0	0	0
U.S. Army War C.	465	467	i	0	0	0	0	0	467	0	0	0
Albany State U.	466	462	0	0	26	60	108	0	60	188	20	0
U. San Francisco	467	461	88	186	114	0	0	0	73	0	0	0
Medical C. Wisconsin	468	446	0	0	138	0	0	0	0	0	308	0
California State U., Bakersfield	469	438	0	68	0	64	98	10	0	0	128	70
Minnesota State U., Mankato	470	436	17	138	223	58	0	0	0	0	0	0
SUNY, Oswego	471	429	0	253	70	0	18	0	0	0	88	0
Whitman C.	472	425	0	121	59	0	234	0	11	0	0	0
Medical U. South Carolina	473	423	i	0	423	0	0	0	0	0	0	0
Sacred Heart U.	473	423	92	0	5	70	53	0	0	0	0	203
U. Texas Health Science Center, San Antonio	475	422	0	0	422	0	0	0	0	0	0	0
Mercer U.	476	421	6	0	0	0	18	0	39	0	0	358
Seton Hall U.	477	420	0	0	0	0	420	0	0	0	0	0
Yeshiva U.	478	419	0	0	0	0	419	0	0	0	0	0
Franklin W. Olin C. of Engineering	479	415	0	0	0	0	0	0	0	0	415	0
Gettysburg C.	480	412	0	0	39	0	39	0	334	0	0	0
Northeast Ohio Medical U.	481	409	0	115	46	0	0	0	248	0	0	0
Alaska Pacific U.	482	406	0	325	0	0	0	0	0	0	0	81
Philadelphia C. of Osteopathic Medicine	482	406	0	0	406	0	0	0	0	0	0	0
U. North Carolina, Asheville	484	403	15	63	81	0	58	0	0	0	0	186
Grand Valley State U.	485	391	2	154	186	0	11	38	0	0	0	0
Texas Tech U., Health Sciences Center	486	390	0	0	360	0	0	0	0	0	0	30
Gustavus Adolphus C.	487	383	0	13	20	0	247	0	0	0	0	103
Ithaca C.	488	379	70	0	0	85	185	0	39	0	0	0
Pepperdine U.	489	378	0	0	109	0	0	0	0	0	0	269
Stephen F. Austin State U.	489	378	0	0	41	337	0	0	0	0	0	0
Ferris State U.	491	376	0	0	107	252	17	0	0	0	0	0
U. Virginia's C. Wise	491	376	213	6	139	0	18	0	0	0	0	0
Western Carolina U.	491	376	0	19	178	72	0	0	0	0	65	42
U. New England	494	374	0	145	229	0	0	0	0	0	0	0

TABLE 64

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Eastern Washington U.	495	368	0	0	222	0	75	0	0	0	71	0
U. Central Oklahoma	496	367	i 41 i	0 i	80 i	31 i	96 i	6 i	1 i	0 i	65 i	47 i
Claflin U.	497	365	0	52	95	0	61	0	94	0	63	0
Central State U.	498	364	0	8	27	59	82	0	0	124	64	0
Northland C.	499	362	i 0 i	58 i	218 i	38 i	0 i	19 i	8 i	0 i	0 i	21 i
Willamette U.	500	359	0	123	143	0	47	46	0	0	0	0
Lawrence Technological U.	501	356	0	0	0	127	57	0	0	0	172	0
U. Nebraska, Kearney	501	356	0	0	46	0	287	0	0	0	0	23
U. Detroit Mercy	503	352	6	0	314	0	13	0	0	0	19	0
U. Wisconsin-River Falls	504	348	0	0	0	0	348	0	0	0	0	0
Hamilton C.	505	346	33	126	26	0	47	0	114	0	0	0
Trinity C., Hartford	506	341	26	0	0	0	143	172	0	0	0	0
Western New England U.	506	341	76	0	0	35	0	0	0	0	230	0
Winthrop U.	508	337	97	0	0	0	119	0	0	0	0	121
CUNY, York C.	509	336	0	82	0	254	0	0	0	0	0	0
U. Central Arkansas	510	333	128	0	172	7	26	0	0	0	0	0
U. Houston-Downtown	511	331	249	0	72	5	5	0	0	0	0	0
Savannah State U.	512	328	0	72	0	0	85	0	56	41	74	0
U. North Georgia	513	319	27	93	24	16	49	0	0	0	0	110
Benedict C.	514	316	108	0	4	128	8	0	0	0	68	0
St. Cloud State U.	515	298	0	0	0	0	0	0	0	0	0	298
Marymount U.	516	293	227	0	66	0	0	0	0	0	0	0
Indiana U. Pennsylvania	517	292	0	103	107	0	65	17	0	0	0	0
U. of St. Thomas (MN)	518	291	0	5	99	0	43	0	0	0	132	12
Loyola Marymount U.	519	289	52	8	229	0	0	0	0	0	0	0
Pittsburg State U.	519	289	0	0	21	0	0	0	0	0	268	0
Austin Peay State U.	521	287	0	0	204	0	83	0	0	0	0	0
U. Maryland, Eastern Shore	521	287	0	137	150	0	0	0	0	0	0	0
Indiana U., South Bend	523	285	0	0	0	0	194	0	0	91	0	0
Saginaw Valley State U.	524	284	i 79 i	0 i	51 i	0 i	0 i	0 i	1 i	0 i	0 i	153 i
Midwestern U.	525	276	0	0	276	0	0	0	0	0	0	0
Hawaii Pacific U.	526	271	140	131	0	0	0	0	0	0	0	0
Marian U., Indianapolis	527	269	0	0	134	3	0	0	0	131	0	1

TABLE 64

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Missouri State U.	528	266	0	120	12	0	1	57	76	0	0	0
Pennsylvania State U., Harrisburg	529	258	13	39	44	15	91	0	0	0	56	0
Drake U.	530	254	0	0	35	73	146	0	0	0	0	0
U. Southern Maine	531	253	0	131	46	29	0	0	47	0	0	0
Van Andel Research Institute	532	251	0	0	251	0	0	0	0	0	0	0
SUNY, Downstate Health Sciences U.	533	231	0	0	231	0	0	0	0	0	0	0
Alfred U.	534	228	0	0	0	0	0	0	0	0	228	0
Lincoln U.	534	228	96	0	132	0	0	0	0	0	0	0
Northern Kentucky U.	536	227	0	0	0	97	0	0	0	0	0	130
Lipscomb U.	537	226	0	0	0	0	0	0	0	0	76	150
CUNY, Graduate School of Public Health and Health Policy	538	218	0	0	218	0	0	0	0	0	0	0
Claremont Graduate U.	539	212	0	0	0	109	0	3	100	0	0	0
Keck Graduate Institute	540	204	0	0	204	0	0	0	0	0	0	0
Nova Southeastern U.	541	200	107	24	0	0	0	69	0	0	0	0
Oregon Institute of Technology	542	199	61	4	69	29	0	4	0	0	32	0
Northern Michigan U.	543	192	8	73	111	0	0	0	0	0	0	0
U. Wisconsin-La Crosse	544	190	25	0	0	2	105	0	58	0	0	0
Wheaton C., Wheaton	545	186	0	105	0	0	81	0	0	0	0	0
Eastern Connecticut State U.	546	182	0	0	29	0	0	0	13	0	0	140
Bryant U.	547	176	0	4	90	82	0	0	0	0	0	0
Florida Polytechnic U.	548	174	1	0	0	0	0	0	0	0	129	44
U. Texas of the Permian Basin	548	174	0	69	27	0	0	0	0	0	0	78
Connecticut C.	550	170	0	0	128	0	0	42	0	0	0	0
Robert Morris U.	550	170	130	0	0	0	0	0	0	0	0	40
U. North Texas, Health Science Center	552	164	0	0	164	0	0	0	0	0	0	0
St. Edward's U.	553	154	0	44	110	0	0	0	0	0	0	0
Monmouth U.	554	153	0	0	122	0	31	0	0	0	0	0
U. Wisconsin-Green Bay	555	152	20	20	21	6	28	2	3	0	44	8
West Virginia State U.	555	152	0	0	152	0	0	0	0	0	0	0
U. of Mary Washington	557	149	0	18	78	0	53	0	0	0	0	0
Fairfield U.	558	145	57	0	0	80	8	0	0	0	0	0
Morehead State U.	558	145	0	0	145	0	0	0	0	0	0	0
U. of the Incarnate Word	558	145	10	6	0	0	129	0	0	0	0	0

TABLE 64

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields			
Johnson C. Smith U.	593	43	43	0	0	0	0	0	0	0	0	0			
Albion C.	594	42	0	23	0	0	19	0	0	0	0	0			
SUNY, Upstate Medical U.	595	41	0	0	41	0	0	0	0	0	0	0			
Western Illinois U.	596	39	0	0	0	0	39	0	0	0	0	0			
Air Force Institute of Technology	597	35	0	0	0	0	0	0	0	0	35	0			
Touro U., California	598	28	0	0	28	0	0	0	0	0	0	0			
U.S. Air Force Academy	599	27	0	0	0	27	0	0	0	0	0	0			
C. of Saint Benedict	600	26	i	3	i	0	8	i	2	i	10	i	1	i	
Pennsylvania State U., Altoona	600	26	0	0	0	0	0	0	0	0	0	26	0		
Radford U.	602	24	0	0	24	0	0	0	0	0	0	0	0		
Central Connecticut State U.	603	22	0	0	0	0	11	0	0	0	0	0	11		
U. South Carolina, Aiken	604	21	0	21	0	0	0	0	0	0	0	0	0		
Babson C.	605	18	0	0	0	0	0	0	0	0	0	0	18		
Oklahoma State U., Center for Health Sciences	605	18	0	0	18	0	0	0	0	0	0	0	0		
U. Illinois, Springfield	605	18	0	0	0	0	0	0	0	0	0	0	18		
Merrimack C.	608	16	0	0	0	16	0	0	0	0	0	0	0		
Thomas Jefferson U.	609	15	0	0	15	0	0	0	0	0	0	0	0		
U. Louisiana, Monroe	609	15	0	15	0	0	0	0	0	0	0	0	0		
Virginia Military Institute	611	13	0	0	0	0	13	0	0	0	0	0	0		
Albert Einstein C. of Medicine	612	9	0	0	9	0	0	0	0	0	0	0	0		
Louisiana State U., Health Sciences Center, Shreveport	612	9	0	0	9	0	0	0	0	0	0	0	0		
Marshall B. Ketchum U.	612	9	i	0	i	0	9	i	0	i	0	9	i	0	i
Azusa Pacific U.	615	7	0	0	0	0	0	0	0	0	7	0	0		
Lake Superior State U.	615	7	0	0	0	0	7	0	0	0	0	0	0		
Western U. of Health Sciences	617	5	0	0	5	0	0	0	0	0	0	0	0		
Des Moines U.	618	4	0	2	2	0	0	0	0	0	0	0	0		
U. Wisconsin-Superior	618	4	0	0	0	0	4	0	0	0	0	0	0		
Eastern Virginia Medical School	620	1	0	0	1	0	0	0	0	0	0	0	0		
Edward Via C. of Osteopathic Medicine	620	1	0	0	1	0	0	0	0	0	0	0	0		

i = imputed.

NSF = National Science Foundation; nec = not elsewhere classified; S&E = science and engineering.

^a The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^b Johns Hopkins University includes the Applied Physics Laboratory, with \$2,170 thousand in R&D expenditures financed by NSF in FY 2023.

^c The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 65

Federally financed higher education R&D expenditures, financed by the Department of Agriculture, ranked by USDA R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	1,700,216	19,686	40,799	1,385,357	7,056	14,884	3,620	69,862	11,168	106,665	41,119
Washington State U.	1	61,410	3,263	850	45,980	0	600	0	1,342	545	2,464	6,366
North Carolina State U.	2	58,599	108	1,048	52,963	181	117	153	1,376	146	2,484	23
U. California, Davis	3	57,989	10	1,703	49,963	0	3,366	0	1,017	0	1,909	21
Colorado State U., Fort Collins	4	53,462	109	1,590	47,050	111	68	0	2,005	138	2,173	218
Texas A&M U., College Station and Health Science Center	5	52,842	105	891	47,951	0	242	0	1,985	0	435	1,233
Iowa State U.	6	50,328	446	329	34,150	5,555	47	0	335	0	8,985	481
U. Florida	7	50,082	9	847	45,270	0	54	0	944	0	2,509	449
U. Minnesota, Twin Cities	8	47,660	246	332	35,278	0	36	93	2,194	186	9,036	259
Cornell U.	9	44,545	107	0	41,260	0	0	149	113	0	719	2,197
Oregon State U.	10	44,107	2,527	302	36,627	0	20	0	381	681	3,527	42
U. Georgia	11	42,427	160	34	31,385	52	186	44	9,386	3	1,116	61
Mississippi State U.	12	39,042	528	23	34,136	0	966	0	859	712	1,743	75
Michigan State U.	13	37,842	63	863	30,092	67	8	0	3,022	2	3,331	394
U. Wisconsin-Madison	14	36,525	0	359	30,924	121	0	0	1,820	172	2,743	386
Pennsylvania State U., University Park and Hershey Medical Center	15	34,662	32	319	24,916	2	169	1,591	5,487	0	1,185	961
Ohio State U.	16	34,371	0	120	24,273	0	0	0	1,541	93	3,954	4,390
Purdue U., West Lafayette	17	33,628	89	0	24,179	86	0	0	2,416	0	5,826	1,032
U. Missouri, Columbia	18	32,057	0	14	30,297	0	260	0	187	0	235	1,064
Auburn U., Auburn	19	31,471	0	533	28,270	0	235	0	97	1,073	1,206	57
U. Maryland ^a	20	30,601	71	2,279	25,673	0	6	0	80	0	2,492	0
U. Nebraska, Lincoln and Medical Center ^b	21	29,004	19	8	25,323	65	0	30	353	0	2,909	297
Kansas State U.	22	28,874	91	2	23,098	0	0	41	3,022	0	960	1,660
U. Illinois, Urbana-Champaign	23	27,860	2,399	12	20,681	4	182	552	494	0	3,308	228
Virginia Polytechnic Institute and State U.	24	26,449	255	56	22,370	51	1,080	0	1,804	0	672	161
U. Vermont	25	21,988	0	0	20,978	0	0	0	980	0	30	0
Rutgers, State U. New Jersey, New Brunswick	26	20,615	0	1,132	19,068	0	0	0	229	0	129	57
U. Tennessee, Knoxville	27	20,159	0	27	16,072	0	0	0	44	1,388	2,483	145
U. Idaho	28	20,068	0	138	17,966	0	105	0	915	0	644	300
Montana State U., Bozeman	29	19,630	90	117	18,797	0	11	0	32	0	579	4
U. California, Riverside	30	19,062	61	2,632	15,438	0	0	0	172	0	759	0
Tufts U.	31	18,688	0	204	14,988	0	0	0	394	1,497	1,605	0
U. Arkansas, Fayetteville	32	18,169	0	96	15,873	0	113	0	0	0	1,998	89
U. Arizona	33	17,750	74	312	14,646	82	0	0	314	0	2,254	68

TABLE 65

Federally financed higher education R&D expenditures, financed by the Department of Agriculture, ranked by USDA R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Baylor C. of Medicine	34	16,990	0	0	16,990	0	0	0	0	0	0	0
U. Maine	35	16,986	0	466	15,261	0	0	0	0	0	218	1,041
North Dakota State U.	36	16,517	14	0	14,159	0	210	11	425	0	1,698	0
U. Kentucky	37	16,487	0	0	13,336	0	40	0	1,230	0	1,295	586
South Dakota State U.	38	15,238	0	144	13,858	11	23	76	380	0	746	0
Oklahoma State U., Stillwater	39	14,775	10	4	10,512	0	49	274	1,301	0	1,748	877
U. Hawaii, Manoa	40	12,709	0	38	10,779	0	0	0	0	1,629	263	0
New Mexico State U.	41	12,516	0	885	10,212	0	0	0	180	875	236	128
Louisiana State U., Baton Rouge	42	12,045	0	314	11,003	0	125	0	266	0	313	24
Clemson U.	43	11,985	1,290	0	6,977	0	0	0	645	0	314	2,759
West Virginia U.	44	11,701	0	8	10,655	0	0	0	190	295	335	218
U. Connecticut	45	11,514	224	83	8,852	6	208	163	1,614	0	364	0
Utah State U.	46	11,413	22	0	10,283	31	97	0	326	0	129	525
Tennessee State U.	47	10,846	9	0	10,581	0	0	0	0	0	227	29
Florida A&M U.	48	10,818	0	270	10,298	0	0	0	0	0	250	0
U. Massachusetts, Amherst	49	9,883	0	313	8,539	5	67	0	702	0	257	0
Alcorn State U.	50	9,485	0	0	6,661	0	0	0	2,824	0	0	0
U. New Hampshire	51	9,100	0	689	8,135	0	0	0	255	0	4	17
North Carolina A&T State U.	52	8,379	602	0	7,770	0	0	0	0	0	0	7
U. Washington, Seattle	53	7,610	19	512	7,011	0	0	0	0	0	49	19
Kentucky State U.	54	7,605	0	0	7,605	0	0	0	0	0	0	0
U. Wyoming	55	7,158	0	2	7,131	0	0	0	7	0	4	14
U. Delaware	56	7,014	0	117	5,899	0	105	0	607	96	190	0
U. Rhode Island	57	6,867	0	2,147	3,999	0	0	0	586	132	0	3
Prairie View A&M U.	58	6,566	0	0	5,693	0	225	0	264	0	265	119
Fort Valley State U.	59	6,477	0	0	6,477	0	0	0	0	0	0	0
U. Mississippi	60	5,998	0	661	3,099	0	765	0	123	0	120	1,230
U. Nevada, Reno	61	5,750	39	587	3,781	0	0	0	1,169	0	166	8
Texas Tech U.	62	5,499	0	0	4,446	0	0	19	704	0	5	325
U. Montana, Missoula	63	5,424	187	95	4,101	0	0	0	933	0	0	108
U. Maryland, Eastern Shore	64	5,377	0	0	5,314	0	0	0	0	0	63	0
Northern Arizona U.	65	5,233	0	15	4,762	0	0	0	241	197	18	0
Delaware State U.	66	5,147	112	484	4,551	0	0	0	0	0	0	0
Tuskegee U.	67	4,987	0	0	4,987	0	0	0	0	0	0	0

TABLE 65

Federally financed higher education R&D expenditures, financed by the Department of Agriculture, ranked by USDA R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Southern U. and A&M C., Agricultural Research and Extension Center	68	4,688	0	0	4,688	0	0	0	0	0	0	0
Central State U.	69	4,682	0	98	4,584	0	0	0	0	0	0	0
Tarleton State U.	70	4,467	0	92	4,375	0	0	0	0	0	0	0
Virginia State U.	71	4,360	0	45	4,315	0	0	0	0	0	0	0
U. Guam	72	4,150	0	89	4,026	0	0	0	35	0	0	0
Lincoln U., Jefferson City	73	4,107	0	278	3,766	0	0	0	19	44	0	0
U. of the Virgin Islands	74	4,090	0	24	4,066	0	0	0	0	0	0	0
Langston U.	75	3,984	0	0	3,934	0	0	0	0	0	0	50
U. California, Merced	76	3,810	0	83	563	0	82	0	0	0	2,589	493
U. California, Berkeley	77	3,722	0	0	2,757	0	0	0	136	224	494	111
Arizona State U.	78	3,609	0	0	1,178	0	252	0	1,129	90	881	79
Johns Hopkins U. ^c	79	3,553	1,052	619	594	0	79	0	0	0	1,209	0
U. Alaska, Fairbanks	80	3,154	0	5	2,399	0	52	0	29	0	0	669
U. Arkansas, Pine Bluff	81	3,085	0	0	2,892	0	0	0	0	0	0	193
U. California, San Diego	82	3,062	0	28	2,784	0	0	0	43	0	207	0
Texas A&M U.-Kingsville	83	2,980	0	0	2,754	0	0	0	0	0	226	0
South Carolina State U.	84	2,784	429	278	1,608	0	0	0	184	0	108	177
Florida Atlantic U.	85	2,722	0	0	2,537	0	0	0	0	0	185	0
Thomas Jefferson U.	86	2,699	0	0	2,699	0	0	0	0	0	0	0
U. North Carolina, Chapel Hill	87	2,554	0	23	2,258	0	0	0	29	0	0	244
U. Louisiana, Lafayette	88	2,508	0	0	11	0	0	0	222	0	49	2,226
West Virginia State U.	89	2,502	0	0	2,502	0	0	0	0	0	0	0
U. New Mexico	90	2,473	0	8	2,358	0	0	0	107	0	0	0
Carnegie Mellon U.	91	2,392	2,257	0	0	0	0	0	0	0	135	0
U. Texas Health Science Center, Houston	92	2,383	0	0	2,383	0	0	0	0	0	0	0
U. Maryland, Baltimore County	93	2,248	0	1,843	260	0	0	0	24	0	121	0
Michigan Technological U.	94	2,158	0	226	1,800	0	0	0	112	0	20	0
U. Texas Rio Grande Valley	95	2,143	97	0	1,837	0	0	0	14	63	51	81
Western Illinois U.	96	2,104	0	0	2,104	0	0	0	0	0	0	0
SUNY, C. of Environmental Science and Forestry	97	2,077	0	139	1,858	0	0	0	0	0	80	0
U. North Dakota	98	2,051	0	137	337	0	157	0	0	0	188	1,232
Cold Spring Harbor Laboratory	99	1,983	0	0	1,983	0	0	0	0	0	0	0
U. Nevada, Las Vegas	100	1,947	0	1,892	55	0	0	0	0	0	0	0
Texas State U.	101	1,913	0	0	1,316	0	109	0	107	0	64	317

TABLE 65

Federally financed higher education R&D expenditures, financed by the Department of Agriculture, ranked by USDA R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Pennsylvania	102	1,818	0	0	1,581	0	102	0	0	0	113	22
California Polytechnic State U., San Luis Obispo	103	1,743	0	0	1,661	0	0	0	82	0	0	0
Southern Illinois U., Carbondale	104	1,691	62	71	1,258	0	0	0	0	300	0	0
Boise State U.	105	1,663	0	133	971	0	88	35	6	0	260	170
U. Colorado Boulder	106	1,640	215	307	646	32	0	0	416	0	0	24
U. Alabama, Tuscaloosa	107	1,613	299	0	181	0	0	0	156	0	929	48
U. Michigan, Ann Arbor	108	1,578	46	0	1,282	0	66	0	175	0	0	9
Colby C.	109	1,546	0	0	1,471	10	0	0	65	0	0	0
Baylor U.	110	1,536	0	0	539	0	349	0	648	0	0	0
California State Polytechnic U., Humboldt	111	1,498	0	0	520	0	0	0	978	0	0	0
U. Southern Mississippi	112	1,415	0	12	259	0	0	0	0	0	0	1,144
U. California, Santa Cruz	113	1,354	0	1,012	220	0	0	0	122	0	0	0
U. Iowa	114	1,252	0	0	504	0	125	0	7	0	616	0
U. Notre Dame	115	1,212	391	0	330	0	0	0	5	0	486	0
Syracuse U.	116	1,194	0	1	977	0	0	0	130	0	86	0
Yale U.	117	1,146	0	0	894	0	0	0	0	0	237	15
U. Texas, Arlington	118	1,126	0	0	49	456	0	0	0	0	497	124
Georgia Institute of Technology	119	1,124	2	0	1	0	0	0	61	0	1,060	0
Florida International U.	120	1,093	0	0	749	0	180	0	33	0	40	91
U. North Carolina, Greensboro	121	1,091	0	0	903	0	12	0	29	0	0	147
Case Western Reserve U.	122	1,083	0	86	652	0	0	0	0	0	345	0
Desert Research Institute	123	1,080	0	1,080	0	0	0	0	0	0	0	0
U. Virginia, Charlottesville	124	1,075	0	94	113	0	0	0	0	0	614	254
Virginia Commonwealth U.	125	1,064	0	1	637	0	0	16	0	0	0	410
U. California, Los Angeles	126	1,055	103	103	500	0	0	0	33	0	316	0
Illinois Institute of Technology	127	1,032	0	0	1,032	0	0	0	0	0	0	0
Middle Tennessee State U.	128	1,026	1	127	678	0	139	0	0	0	29	52
California State U., Sacramento	129	1,021	0	0	0	0	0	0	933	88	0	0
Stanford U.	130	1,014	0	54	158	0	288	0	11	0	503	0
Duke U.	131	998	72	93	524	0	0	0	186	0	89	34
Princeton U.	132	931	0	921	0	0	0	0	0	0	10	0
Florida State U.	133	898	36	16	785	0	6	0	45	0	10	0
U. South Alabama	134	894	0	0	0	0	0	0	312	0	582	0
Arkansas State U., Jonesboro	135	881	0	0	802	0	34	0	45	0	0	0

TABLE 65

Federally financed higher education R&D expenditures, financed by the Department of Agriculture, ranked by USDA R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Texas, San Antonio	170	525	0	39	113	0	86	0	0	0	287	0
New York U.	171	523	0	0	523	0	0	0	0	0	0	0
U. Pittsburgh, Pittsburgh	172	518	0	47	313	0	0	0	0	0	158	0
Clark U.	173	513	0	39	180	0	0	0	294	0	0	0
U. Texas, El Paso	174	510	0	0	0	0	42	0	0	0	468	0
U. Chicago	175	506	0	0	134	0	0	0	190	0	182	0
California State U., East Bay	176	504	0	0	504	0	0	0	0	0	0	0
U. North Texas, Denton	177	503	0	0	403	0	11	0	0	0	83	6
Columbia U. in the City of New York	178	502	0	100	288	0	0	0	88	0	26	0
Tennessee Technological U.	179	500	0	0	500	0	0	0	0	0	0	0
Western U. of Health Sciences	180	472	0	0	472	0	0	0	0	0	0	0
Georgia State U.	181	471	299	0	127	0	0	0	45	0	0	0
Alabama A&M U.	182	468	3	0	414	3	3	4	10	0	13	18
Emory U.	183	466	0	101	262	0	0	0	0	0	3	100
Boston U.	184	453	0	172	213	0	0	0	68	0	0	0
George Washington U.	185	437	0	0	27	0	0	0	0	0	383	27
Washington U., Saint Louis	186	431	0	0	15	0	0	0	0	0	416	0
U. Texas, Austin	187	428	17	169	242	0	0	0	0	0	0	0
Dartmouth C. and Dartmouth Hitchcock Medical Center	188	408	0	0	380	0	0	0	28	0	0	0
U. Central Florida	189	404	0	0	86	0	87	0	25	0	206	0
U. Houston	190	386	0	0	149	0	0	0	0	47	176	14
West Texas A&M U.	190	386	0	0	362	0	0	0	0	0	0	24
Harvard U.	192	385	0	81	219	85	0	0	0	0	0	0
Wake Forest U.	193	381	0	0	367	0	0	0	0	0	0	14
U. Wisconsin-Milwaukee	194	379	0	101	271	0	0	0	7	0	0	0
Rice U.	195	375	0	0	312	0	0	0	0	0	63	0
George Mason U.	196	372	74	80	183	0	0	0	0	0	35	0
Sul Ross State U.	197	371	0	0	371	0	0	0	0	0	0	0
U. California, San Francisco	198	370	0	0	370	0	0	0	0	0	0	0
Missouri State U.	199	350	0	0	350	0	0	0	0	0	0	0
California State U., Bakersfield	200	349	0	0	89	0	0	0	0	0	260	0
Dine C.	201	346	0	0	346	0	0	0	0	0	0	0
Texas Woman's U.	202	334	0	0	334	0	0	0	0	0	0	0
Florida Institute of Technology	203	332	0	0	275	0	0	0	0	0	57	0

TABLE 65

Federally financed higher education R&D expenditures, financed by the Department of Agriculture, ranked by USDA R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Maryland Center for Environmental Science	204	329	0	17	166	0	0	0	146	0	0	0
Louisiana Tech U.	205	327	0	0	316	0	0	0	0	0	11	0
U. Louisville	206	325	0	0	48	0	17	0	0	0	160	100
Texas A&M U.-Corpus Christi	207	324	0	132	139	0	0	0	0	0	0	53
Worcester Polytechnic Institute	207	324	10	0	0	31	283	0	0	0	0	0
U. Miami	209	322	0	0	322	0	0	0	0	0	0	0
Northwestern U.	210	318	0	0	127	0	0	0	0	0	191	0
U. Minnesota, Duluth	211	314	0	39	275	0	0	0	0	0	0	0
New Jersey Institute of Technology	212	313	0	0	0	0	111	0	0	0	136	66
Fort Lewis C.	213	307	0	0	307	0	0	0	0	0	0	0
Temple U.	214	295	0	0	162	0	0	0	48	0	84	1
Rochester Institute of Technology	215	293	0	0	0	0	230	0	0	0	63	0
SUNY, Stony Brook U.	216	289	0	199	90	0	0	0	0	0	0	0
Oklahoma State U., Center for Health Sciences	217	285	0	0	16	0	0	269	0	0	0	0
American U.	218	284	0	0	0	0	2	0	18	264	0	0
William & Mary	219	278	0	278	0	0	0	0	0	0	0	0
Long Island U.	220	274	0	0	274	0	0	0	0	0	0	0
C. New Jersey	221	272	0	0	272	0	0	0	0	0	0	0
U. Alabama, Huntsville	222	264	0	262	2	0	0	0	0	0	0	0
California State U., Chico	223	246	0	0	246	0	0	0	0	0	0	0
Wayne State U.	223	246	0	0	246	0	0	0	0	0	0	0
South Dakota School of Mines and Technology	225	243	0	0	0	0	78	0	0	0	165	0
U. Massachusetts, Medical School	225	243	0	0	243	0	0	0	0	0	0	0
U. Massachusetts, Lowell	227	240	0	0	187	0	0	0	0	0	53	0
Bowling Green State U.	228	239	0	0	239	0	0	0	0	0	0	0
U. Richmond	229	238	0	0	238	0	0	0	0	0	0	0
Troy U.	230	234	0	0	234	0	0	0	0	0	0	0
Drexel U.	231	231	0	0	12	0	0	0	0	0	203	16
Texas A&M U.-Commerce	231	231	0	0	228	0	0	0	0	0	0	3
Ball State U.	233	226	0	0	0	0	0	0	0	0	0	226
Montana Technological U.	234	220	0	34	0	0	0	0	0	0	186	0
U. Missouri, Saint Louis	234	220	0	0	220	0	0	0	0	0	0	0
CUNY, Brooklyn C.	236	216	0	77	139	0	0	0	0	0	0	0
CUNY, Advanced Science Research Center	237	215	0	41	174	0	0	0	0	0	0	0

TABLE 65

Federally financed higher education R&D expenditures, financed by the Department of Agriculture, ranked by USDA R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
East Carolina U.	272	130	2	1	55	0	0	0	0	0	0	72
San Jose State U.	272	130	0	130	0	0	0	0	0	0	0	0
Yeshiva U.	274	129	0	0	129	0	0	0	0	0	0	0
Northwest Indian C.	275	128	i	i	0	i	0	i	0	i	0	i
Missouri U. of Science and Technology	276	125	0	0	79	0	21	0	0	0	25	0
SUNY, Cobleskill	276	125	0	0	0	0	0	0	0	0	0	125
U. Northern Iowa	278	123	0	0	115	0	0	0	8	0	0	0
CUNY, City C.	279	122	0	0	0	0	122	0	0	0	0	0
Saint Louis U.	280	121	0	65	56	0	0	0	0	0	0	0
Southern Illinois U., Edwardsville	281	117	0	0	113	0	0	0	0	4	0	0
Northeastern U.	282	116	0	0	116	0	0	0	0	0	0	0
U. Northern Colorado	282	116	0	0	116	0	0	0	0	0	0	0
Morgan State U.	284	115	0	0	85	0	0	0	0	0	3	27
Western Carolina U.	284	115	0	0	20	0	0	0	95	0	0	0
East Tennessee State U.	286	113	0	0	113	0	0	0	0	0	0	0
Heidelberg U.	287	111	0	111	0	0	0	0	0	0	0	0
Occidental C.	287	111	i	i	0	i	111	i	0	i	0	i
Miami U.	289	110	0	0	69	0	0	0	41	0	0	0
Embry-Riddle Aeronautical U.	290	107	0	107	0	0	0	0	0	0	0	0
Ursinus C.	291	104	12	0	92	0	0	0	0	0	0	0
Albany State U.	292	102	0	0	0	0	0	0	102	0	0	0
California State U., Northridge	292	102	77	0	25	0	0	0	0	0	0	0
Nova Southeastern U.	294	100	0	100	0	0	0	0	0	0	0	0
Southern Connecticut State U.	294	100	0	0	100	0	0	0	0	0	0	0
U. Arkansas, Little Rock	294	100	0	0	100	0	0	0	0	0	0	0
Morehouse C.	297	99	0	0	99	0	0	0	0	0	0	0
U. Massachusetts, Boston	298	97	0	0	97	0	0	0	0	0	0	0
U. North Carolina, Wilmington	298	97	0	0	97	0	0	0	0	0	0	0
Icahn School of Medicine at Mount Sinai	300	96	0	0	96	0	0	0	0	0	0	0
U. Southern California	301	93	1	80	0	0	0	12	0	0	0	0
Hawaii Pacific U.	302	91	0	11	80	0	0	0	0	0	0	0
U. Alaska, Anchorage	303	89	0	0	26	0	0	0	0	0	0	63
U. South Carolina, Beaufort	304	87	0	0	87	0	0	0	0	0	0	0
California State U., Fullerton	305	86	22	0	55	0	0	0	0	9	0	0

TABLE 65

Federally financed higher education R&D expenditures, financed by the Department of Agriculture, ranked by USDA R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields			
California State U., Los Angeles	306	85	0	85	0	0	0	0	0	0	0	0			
East Stroudsburg U. Pennsylvania	306	85	0	0	85	0	0	0	0	0	0	0			
Purdue U., Northwest	306	85	0	0	0	0	0	0	0	0	85	0			
U. South Florida	309	82	0	0	53	0	0	0	0	0	0	29			
Midwestern U.	310	80	0	0	80	0	0	0	0	0	0	0			
U. Colorado Colorado Springs	310	80	0	0	9	0	0	0	71	0	0	0			
U. Illinois, Chicago	312	79	0	0	20	0	0	0	0	0	59	0			
Spelman C.	313	78	0	0	0	0	72	0	6	0	0	0			
Furman U.	314	77	0	77	0	0	0	0	0	0	0	0			
New Mexico Highlands U.	315	76	0	0	76	0	0	0	0	0	0	0			
Trinity U.	315	76	0	0	30	0	0	0	46	0	0	0			
Roger Williams U.	317	75	0	0	75	0	0	0	0	0	0	0			
Woods Hole Oceanographic Institution	317	75	0	75	0	0	0	0	0	0	0	0			
Lincoln U.	319	74	0	0	74	0	0	0	0	0	0	0			
U. Wisconsin-Platteville	320	70	i	1	i	0	i	63	i	1	i	2	i	1	i
Texas Christian U.	321	69	0	0	69	0	0	0	0	0	0	0	0		
U. North Carolina, Charlotte	322	66	47	0	0	0	0	0	0	0	19	0			
Clark Atlanta U.	323	64	0	0	0	0	64	0	0	0	0	0			
U. Tennessee, Chattanooga	323	64	0	0	0	0	0	0	0	22	42	0			
St. Cloud State U.	325	63	0	0	63	0	0	0	0	0	0	0			
Colgate U.	326	61	0	0	61	0	0	0	0	0	0	0			
U. Central Arkansas	327	60	0	35	25	0	0	0	0	0	0	0			
St. Edward's U.	328	59	0	0	59	0	0	0	0	0	0	0			
Bowie State U.	329	58	0	0	58	0	0	0	0	0	0	0			
Salisbury U.	329	58	32	0	0	0	0	0	0	0	0	26			
U. Alaska, Southeast	329	58	0	0	57	0	0	0	0	1	0	0			
Georgetown U.	332	57	0	0	16	0	0	0	0	0	0	41			
U. Texas, Dallas	333	56	0	0	11	0	0	0	0	0	45	0			
Kennesaw State U.	334	55	0	0	55	0	0	0	0	0	0	0			
CUNY, Queens C.	335	54	0	0	54	0	0	0	0	0	0	0			
Boston C.	336	52	0	0	52	0	0	0	0	0	0	0			
Northeastern Illinois U.	337	51	0	0	51	0	0	0	0	0	0	0			
Oregon Institute of Technology	338	49	i	0	i	0	i	49	i	0	i	0	0	0	i
U. San Diego	339	48	0	0	48	0	0	0	0	0	0	0			

TABLE 65

Federally financed higher education R&D expenditures, financed by the Department of Agriculture, ranked by USDA R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Creighton U.	340	46 i	2 i	0 i	41 i	0 i	1 i	0 i	0 i	0 i	0 i	2 i
Rutgers, State U. New Jersey, Newark	340	46	0	46	0	0	0	0	0	0	0	0
Florida Gulf Coast U.	342	45	0	0	45	0	0	0	0	0	0	0
New C. Florida	342	45	45	0	0	0	0	0	0	0	0	0
Colorado State U., Pueblo	344	43	0	0	43	0	0	0	0	0	0	0
Kenyon C.	345	42	0	0	42	0	0	0	0	0	0	0
Texas A&M U.-San Antonio	345	42	0	38	4	0	0	0	0	0	0	0
U. of the District of Columbia	345	42	0	0	42	0	0	0	0	0	0	0
Seattle U.	348	40	0	0	40	0	0	0	0	0	0	0
Idaho State U.	349	39	0	39	0	0	0	0	0	0	0	0
U. Virginia's C. Wise	349	39	0	0	39	0	0	0	0	0	0	0
Virginia Military Institute	351	37	0	0	0	0	37	0	0	0	0	0
Southern U. and A&M C., Baton Rouge	352	36	0	0	36	0	0	0	0	0	0	0
Wright State U.	352	36	0	0	36	0	0	0	0	0	0	0
Montclair State U.	354	34	0	0	5	0	0	0	0	0	29	0
U. Central Oklahoma	354	34 i	0 i	0 i	12 i	0 i	0 i	0 i	9 i	0 i	4 i	9 i
U. Colorado Anschutz Medical Campus	356	32	0	0	32	0	0	0	0	0	0	0
CUNY, Lehman C.	357	31	0	0	31	0	0	0	0	0	0	0
Cleveland State U.	358	30	0	0	30	0	0	0	0	0	0	0
SUNY, Buffalo State U.	358	30	0	30	0	0	0	0	0	0	0	0
Xavier U. Louisiana	360	29	0	0	29	0	0	0	0	0	0	0
Texas A&M International U.	361	27	0	0	27	0	0	0	0	0	0	0
Hobart and William Smith Colleges	362	26	0	0	26	0	0	0	0	0	0	0
U. North Georgia	362	26	0	26	0	0	0	0	0	0	0	0
U. Washington, Tacoma	362	26	5	0	21	0	0	0	0	0	0	0
Davidson C.	365	25	0	0	25	0	0	0	0	0	0	0
Macalester C.	365	25	0	0	0	0	0	0	25	0	0	0
Murray State U.	365	25	0	0	25	0	0	0	0	0	0	0
Oakland U.	365	25	0	0	25	0	0	0	0	0	0	0
Pepperdine U.	365	25	0	0	25	0	0	0	0	0	0	0
Saginaw Valley State U.	365	25 i	1 i	0 i	16 i	0 i	0 i	0 i	0 i	0 i	0 i	8 i
U. California, Office of the President	365	25	0	0	25	0	0	0	0	0	0	0
U. Tennessee, Health Science Center	372	24	0	0	24	0	0	0	0	0	0	0
Kent State U.	373	23	0	0	19	0	0	0	4	0	0	0

TABLE 65

Federally financed higher education R&D expenditures, financed by the Department of Agriculture, ranked by USDA R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Cincinnati	374	21	0	20	1	0	0	0	0	0	0	0
Drake U.	375	20	0	0	0	0	0	0	0	0	0	20
Marquette U.	375	20	0	0	20	0	0	0	0	0	0	0
Minnesota State U., Mankato	375	20	0	0	20	0	0	0	0	0	0	0
Tougaloo C.	375	20 i	0 i	0 i	10 i	0 i	0 i	0 i	7 i	0 i	0 i	3 i
Wichita State U.	379	19	0	0	12	0	0	0	0	0	3	4
Duquesne U.	380	18	0	0	0	0	0	0	0	0	0	18
Marshall U.	380	18	0	0	7	0	0	0	0	0	11	0
Northern Illinois U.	380	18	0	0	15	0	0	0	0	0	3	0
Utah Valley U.	380	18	0	0	18	0	0	0	0	0	0	0
Western Washington U.	380	18	0	0	0	0	0	0	0	18	0	0
California State U., San Bernardino	385	17	17	0	0	0	0	0	0	0	0	0
James Madison U.	385	17	0	0	15	0	2	0	0	0	0	0
Amherst C.	387	16	0	0	0	0	0	0	16	0	0	0
Loyola U., Chicago	387	16	0	0	16	0	0	0	0	0	0	0
Monmouth U.	389	15	0	0	15	0	0	0	0	0	0	0
Meharry Medical C.	390	14	0	0	14	0	0	0	0	0	0	0
Pittsburg State U.	390	14	0	0	0	0	0	0	0	0	14	0
U. Wisconsin-Green Bay	390	14 i	0 i	1 i	8 i	0 i	1 i	1 i	2 i	0 i	1 i	0 i
U. Ana G. Mendez, Gurabo	393	12	0	0	0	0	0	0	0	0	0	12
Reed C.	394	11 i	0 i	0 i	8 i	1 i	0 i	0 i	2 i	0 i	0 i	0 i
U. Colorado Denver	394	11	0	7	0	0	0	0	0	0	0	4
Eastern Kentucky U.	396	10	0	0	10	0	0	0	0	0	0	0
CUNY, Graduate School of Public Health and Health Policy	397	9	0	0	9	0	0	0	0	0	0	0
Gustavus Adolphus C.	397	9	0	0	0	0	9	0	0	0	0	0
U. Puerto Rico, Medical Sciences Campus	397	9	0	0	9	0	0	0	0	0	0	0
Williams C.	397	9 i	0 i	2 i	6 i	0 i	0 i	0 i	1 i	0 i	0 i	0 i
Radford U.	401	8	0	0	8	0	0	0	0	0	0	0
Alaska Pacific U.	402	7	0	0	7	0	0	0	0	0	0	0
Loma Linda U.	402	7	0	0	7	0	0	0	0	0	0	0
Northwestern State U. Louisiana	402	7 i	0 i	0 i	0 i	0 i	0 i	0 i	7 i	0 i	0 i	0 i
Austin Peay State U.	405	6	0	0	6	0	0	0	0	0	0	0
Albert Einstein C. of Medicine	406	5	0	0	5	0	0	0	0	0	0	0
Northland C.	406	5 i	0 i	0 i	5 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i

TABLE 65

Federally financed higher education R&D expenditures, financed by the Department of Agriculture, ranked by USDA R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Northern Kentucky U.	408	4	0	0	4	0	0	0	0	0	0	0
Bucknell U.	409	3	0	0	0	0	0	0	0	3	0	0
U. Illinois, Springfield	409	3	0	0	3	0	0	0	0	0	0	0
U. New England	409	3	0	0	3	0	0	0	0	0	0	0
U. Texas M. D. Anderson Cancer Center	409	3	0	0	0	0	3	0	0	0	0	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	409	3	0	0	3	0	0	0	0	0	0	0
C. Wooster	414	2	0	0	2	0	0	0	0	0	0	0
California Institute of Technology	414	2	0	0	0	0	0	0	2	0	0	0
Central Washington U.	414	2	0	0	0	0	0	0	2	0	0	0
Lincoln Memorial U.	414	2	0	0	2	0	0	0	0	0	0	0
Smith C.	414	2	0	0	2	0	0	0	0	0	0	0
U. North Florida	414	2	0	0	0	0	0	0	0	0	2	0
Central Michigan U.	420	1	0	0	0	0	0	0	1	0	0	0
Eastern Connecticut State U.	420	1	0	0	1	0	0	0	0	0	0	0
Marshall B. Ketchum U.	420	1 i	0 i	0 i	1 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Middlebury C.	420	1	0	1	0	0	0	0	0	0	0	0
San Francisco State U.	420	1	0	1	0	0	0	0	0	0	0	0
U. Akron	420	1	0	0	0	0	1	0	0	0	0	0

i = imputed.

USDA = Department of Agriculture; nec = not elsewhere classified; S&E = science and engineering.

^a The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^b The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

^c Johns Hopkins University includes the Applied Physics Laboratory, with \$2,105 thousand in R&D expenditures financed by USDA in FY 2023.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 66

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by other agency R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures ^a	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	4,091,656	167,807	722,553	739,970	31,497	107,688	80,768	299,804	50,963	1,156,754	733,852
Johns Hopkins U. ^b	1	204,773	37,818	3,084	10,438	11,996	7,576	0	585	2,745	127,643	2,888
U. Colorado Boulder	2	103,296	161	65,607	778	57	23,678	83	1,853	122	6,850	4,107
Georgia Institute of Technology	3	95,590	10,889	1,610	1,953	0	3,051	206	1,683	0	73,469	2,729
U. Maryland ^c	4	90,042	4,920	37,726	6,703	0	7,815	31	2,730	200	21,917	8,000
U. North Carolina, Chapel Hill	5	87,558	2,630	7,847	8,489	0	70	13,011	41,346	0	6,068	8,097
Texas A&M U., College Station and Health Science Center	6	81,350	2,605	11,342	16,431	0	522	884	3,295	4,476	25,838	15,957
U. Washington, Seattle	7	78,131	2,160	39,161	18,347	17	31	446	1,615	0	10,726	5,628
Utah State U.	8	71,721	196	100	5,088	58	34	286	23	0	65,883	53
Pennsylvania State U., University Park and Hershey Medical Center	9	67,072	11,176	2,148	3,216	982	750	1,304	1,345	0	43,900	2,251
Ohio State U.	10	65,822	972	492	14,525	0	5	0	3,070	9,972	26,200	10,586
U. South Florida	11	61,640	6,929	6,024	7,053	0	0	202	6,247	5	11,164	24,016
Colorado State U., Fort Collins	12	55,589	964	25,717	13,871	20	513	0	458	319	7,647	6,080
U. Delaware	13	52,653	0	7,499	925	0	559	0	1,742	0	39,722	2,206
U. Wisconsin-Madison	14	50,160	553	19,595	5,923	248	317	322	4,596	71	5,218	13,317
Arizona State U.	15	48,470	2,146	182	1,158	94	472	1,430	8,983	1,905	11,770	20,330
U. Oklahoma, Norman and Health Science Center	16	48,060	400	28,007	857	0	0	1,107	1,462	0	3,262	12,965
U. California, San Diego	17	47,777	307	29,282	8,516	0	138	0	1,296	0	4,503	3,735
Purdue U., West Lafayette	18	45,730	1,611	191	13,895	0	667	0	1,105	0	19,373	8,888
Clemson U.	19	43,337	789	0	8,912	158	2,279	1,639	3,648	0	20,226	5,686
Mississippi State U.	20	42,340	52	12,147	8,904	9	1,193	0	7,323	0	9,558	3,154
U. Michigan, Ann Arbor	21	42,219	416	6,203	6,754	573	126	227	8,831	2,215	15,392	1,482
Michigan State U.	22	41,899	3,665	369	17,264	10	0	309	11,485	30	3,631	5,136
U. Rhode Island	23	39,060	1,400	28,950	4,335	0	120	13	428	592	1,611	1,611
Virginia Polytechnic Institute and State U.	24	36,254	22	258	7,585	248	1	2,178	223	0	25,398	341
North Carolina State U.	25	36,101	790	13,782	3,936	1,392	49	4	36	342	14,640	1,130
New Jersey Institute of Technology	26	35,574	336	0	0	0	92	0	0	0	34,427	719
U. Florida	27	35,159	827	667	13,012	177	0	42	907	0	8,168	11,359
New Mexico Institute of Mining and Technology	28	34,282	574	1,288	7	0	0	464	0	0	29,936	2,013
Florida International U.	29	34,255	1,198	8,966	1,467	0	2,591	4,108	3,728	108	6,379	5,710
Florida State U.	30	33,631	459	1,718	1,193	0	75	14	1,291	792	1,985	26,104
Oregon State U.	31	33,599	7	8,308	13,968	23	10	701	1,469	54	6,793	2,266
U. Illinois, Urbana-Champaign	32	33,352	434	1,926	13,329	2	152	959	227	459	14,109	1,755
U. Louisiana, Lafayette	33	32,677	2,224	1,048	1,200	0	6	0	3,735	0	5,634	18,830

TABLE 66

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by other agency R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures ^a	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Miami	34	32,501	0	25,676	1,350	0	2,592	1,500	36	0	613	734
U. California, Davis	35	31,766	24	4,162	7,957	88	631	0	5,069	0	9,779	4,056
U. Texas, Austin	36	31,759	1,933	3,835	1,445	63	152	515	412	0	4,842	18,562
Washington State U.	37	31,740	153	962	8,640	12	111	2	1,250	35	5,208	15,367
U. Missouri, Columbia	38	30,989	148	69	4,485	239	92	271	576	0	3,420	21,689
U. Kansas	39	30,382	433	1,307	523	0	0	814	181	59	2,938	24,127
Rutgers, State U. New Jersey, New Brunswick	40	30,024	0	4,223	6,719	1,189	43	1,576	1,284	0	11,542	3,448
U. California, Berkeley	41	29,655	2	61	8,393	26	5,449	11	3,655	460	3,791	7,807
U. Hawaii, Manoa	42	29,059	0	18,123	6,046	0	5	0	752	1,190	2,424	519
Woods Hole Oceanographic Institution	43	28,684	0	24,483	0	0	0	0	0	0	4,201	0
U. Alabama, Tuscaloosa	44	27,662	3,125	12,037	1,419	0	0	140	785	0	6,626	3,530
Iowa State U.	45	27,015	0	665	4,143	5,032	112	571	304	0	15,277	911
U. Connecticut	46	26,477	318	4,178	5,303	0	0	5,757	548	0	9,177	1,196
U. Virginia, Charlottesville	47	26,218	1,641	529	764	229	314	99	549	0	4,360	17,733
U. Southern Mississippi	48	24,949	26	16,815	2,194	0	588	0	517	0	4,546	263
U. New Hampshire	49	24,507	0	15,129	3,122	0	61	16	1,887	0	3,467	825
Virginia Commonwealth U.	50	24,342	158	7	6,445	51	223	975	156	0	665	15,662
U. Arizona	51	24,245	533	6,820	9,067	362	1,402	19	2,830	405	1,042	1,765
U. Alaska, Fairbanks	52	23,718	131	14,274	4,938	0	0	0	313	1,363	2,593	106
Florida A&M U.	53	23,266	0	3,540	6,093	0	0	82	124	0	1,480	11,947
Auburn U., Auburn	54	22,662	1,149	807	8,447	17	0	0	318	212	11,449	263
Vanderbilt U. and Vanderbilt U. Medical Center	55	22,106	1,623	0	4,585	0	168	0	3,091	0	2,115	10,524
U. Southern California	56	21,824	1,694	4,576	1,069	0	33	2,401	5,639	0	1,904	4,508
U. Georgia	57	21,726	40	2,800	8,640	0	0	2,837	809	98	1,337	5,165
Wichita State U.	58	21,118	0	0	1	0	2	228	24	0	20,234	629
Massachusetts Institute of Technology	59	21,088	356	2,657	1,180	0	692	0	5,896	253	8,900	1,154
George Mason U.	60	20,281	3,947	3,825	1,513	38	29	437	4,122	0	4,186	2,184
U. California, Los Angeles	61	20,255	101	1,593	7,102	0	76	152	2,522	63	1,775	6,871
Texas State U.	62	19,765	0	1,383	1,421	0	0	0	297	0	1,299	15,365
U. Pennsylvania	63	19,058	33	40	8,292	0	0	593	4,024	180	544	5,352
Cornell U.	64	18,976	29	212	14,771	0	6	283	1,162	0	1,676	837
New York U.	65	18,257	456	130	2,507	812	0	377	5,643	0	3,436	4,896
U. Nebraska, Lincoln and Medical Center ^d	66	18,028	0	80	5,817	142	0	3,478	518	0	7,141	852
U. Minnesota, Twin Cities	67	17,566	32	393	5,142	56	53	4,125	461	0	3,436	3,868

TABLE 66

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by other agency R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures ^a	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Tufts U.	68	17,293	0	1,431	13,552	0	0	0	1,180	0	964	166
U. Notre Dame	69	17,232	1,610	0	462	0	121	1,021	930	388	1,348	11,352
Harvard U.	70	16,718	218	592	3,740	979	26	0	5,779	0	519	4,865
Louisiana State U., Baton Rouge	71	16,690	684	6,743	1,435	266	735	21	952	25	5,202	627
William & Mary	72	16,466	233	12,367	301	0	21	4	1,478	0	0	2,062
Texas Tech U.	73	16,326	102	2,346	5,049	30	439	170	255	0	7,008	927
Indiana U., Bloomington	74	15,847	7,363	767	390	0	295	611	4,022	142	1,300	957
U. Iowa	75	15,837	0	166	5,616	0	63	202	11	0	8,853	926
U. Massachusetts, Amherst	76	15,571	1,081	709	2,907	0	45	1	188	0	8,668	1,972
Northeastern U.	77	15,363	164	819	76	0	1,263	70	1,312	0	8,528	3,131
Boston U.	78	14,849	1,269	1,289	6,825	0	0	0	143	25	1,568	3,730
Montana State U., Bozeman	79	14,761	519	510	1,939	243	0	0	606	0	8,429	2,515
Georgia State U.	80	13,840	102	21	152	0	0	565	1,772	0	0	11,228
Princeton U.	81	13,759	0	10,411	0	0	0	0	2,305	0	361	682
George Washington U.	82	13,689	224	0	1,743	0	32	0	7,553	2,105	639	1,393
U. California, Irvine	83	13,396	479	195	1,105	107	400	766	424	39	944	8,937
Carnegie Mellon U.	84	13,233	2,205	24	0	94	213	51	102	0	10,544	0
U. Oregon	85	13,198	357	2,688	70	0	0	2,418	283	5	0	7,377
U. Central Florida	86	12,968	3,380	0	1,730	0	1,152	55	874	492	2,060	3,225
SUNY, U. Buffalo	87	12,689	261	979	5,480	0	34	0	173	0	3,126	2,636
Embry-Riddle Aeronautical U.	88	12,647	515	823	203	0	0	0	0	0	10,442	664
U. Pittsburgh, Pittsburgh	89	12,624	630	71	9,349	19	0	0	0	1,248	891	416
U. Montana, Missoula	90	12,495	13	304	11,493	0	285	0	282	0	0	118
U. Maine	91	12,233	0	5,426	1,414	0	13	0	117	0	4,697	566
U. North Carolina, Greensboro	91	12,233	466	0	145	35	0	37	106	0	0	11,444
Duke U.	93	11,963	0	832	4,500	0	289	9	2,822	0	2,919	592
U. Nevada, Reno	94	11,944	171	3,055	4,767	0	0	0	393	18	2,879	661
U. Texas, Arlington	95	11,919	142	40	42	0	0	0	0	0	9,699	1,996
U. California, Santa Cruz	96	11,714	62	5,199	5,108	0	1	0	215	0	453	676
SUNY, Stony Brook U.	97	11,204	383	7,250	1,741	1	0	153	131	49	774	722
U. Illinois, Chicago	98	11,084	3	39	5,058	0	10	84	1,566	0	1,123	3,201
Yale U.	99	10,744	4	77	8,057	0	209	281	952	0	516	648
U. Nebraska, Omaha	100	10,460	180	8	257	0	0	0	1,158	8,317	515	25
U. Chicago	101	10,376	452	0	3,620	38	0	1,255	2,631	0	1,191	1,189

TABLE 66

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by other agency R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures ^a	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. South Carolina, Columbia	102	10,144	18	2,377	1,321	0	0	297	3,049	0	1,144	1,938
Northwestern U.	103	10,122	0	17	2,658	0	4,521	0	678	92	484	1,672
U. West Florida	104	10,111	650	0	277	0	521	0	87	0	0	8,576
U. Tennessee, Knoxville	105	10,085	0	215	3,584	0	17	36	667	679	3,970	917
U. North Dakota	106	9,916	1,030	1,648	749	0	3,428	12	21	0	2,938	90
West Virginia U.	107	9,914	71	643	1,709	3	1,106	0	444	35	3,683	2,220
U. Kentucky	108	9,761	19	1,169	1,019	0	14	534	0	0	6,398	608
Stanford U.	109	9,606	254	381	1,005	0	0	0	615	0	4,346	3,005
Kansas State U.	110	9,427	7	126	4,013	48	0	18	69	0	4,829	317
U. Maryland Center for Environmental Science	111	9,153	0	5,048	3,689	0	56	0	0	150	0	210
U. Alabama, Huntsville	112	9,043	1,296	1,319	77	0	0	0	0	0	5,660	691
Portland State U.	113	8,943	27	612	2,086	0	0	513	994	0	723	3,988
U. Cincinnati	114	8,831	187	48	1,705	0	0	75	2,304	0	3,089	1,423
Texas A&M U.-Corpus Christi	115	8,748	0	4,444	829	43	879	0	599	565	411	978
Georgetown U.	116	8,655	76	0	2,475	0	3,872	0	1,963	0	0	269
U. Texas, El Paso	117	8,647	170	65	449	12	200	875	169	0	5,606	1,101
U. Texas, San Antonio	118	8,623	1,799	202	254	0	0	0	2,262	206	1,325	2,575
U. Houston	119	8,579	137	1,668	47	1,059	156	2,859	44	51	1,108	1,450
U. California, Santa Barbara	120	8,563	779	2,099	0	7	3,069	28	1,174	266	22	1,119
U. California, San Francisco	121	8,464	0	0	8,460	0	4	0	0	0	0	0
U. Vermont	122	8,439	104	2,851	1,252	2	0	0	1,873	0	2,032	325
Eastern Virginia Medical School	123	8,418	0	0	8,418	0	0	0	0	0	0	0
U. Massachusetts, Boston	124	8,142	0	403	1,252	0	0	297	629	0	0	5,561
U. Arkansas, Fayetteville	125	7,921	226	173	1,024	0	545	47	1,305	0	2,746	1,855
Teachers C., Columbia U.	126	7,885	306	0	729	0	0	423	6,427	0	0	0
California State U., Sacramento	127	7,833	11	656	133	0	0	0	37	58	6,890	48
U. Wyoming	128	7,745	0	436	6,019	0	0	0	183	0	1,045	62
Columbia U. in the City of New York	129	7,694	570	3,291	996	0	0	0	902	0	940	995
U. South Alabama	130	7,672	0	6,691	0	0	0	0	0	0	955	26
U. Massachusetts, Lowell	131	7,624	267	120	507	0	83	72	1,433	0	4,110	1,032
U. Dayton	132	7,565	301	447	0	0	19	19	100	0	6,247	432
Tulane U.	133	7,432	20	975	4,925	0	0	94	1,322	0	0	96
Florida Gulf Coast U.	134	7,364	0	141	464	0	0	0	23	0	0	6,736
Rochester Institute of Technology	135	7,313	2,465	0	350	69	350	0	124	0	1,436	2,519

TABLE 66

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by other agency R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures ^a	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Colorado Anschutz Medical Campus	136	7,221	0	0	7,085	0	0	82	0	0	54	0
Medical U. South Carolina	137	7,159	0	0	7,159	0	0	0	0	0	0	0
Drexel U.	138	7,082	574	0	2,214	0	15	209	0	0	3,521	549
North Dakota State U.	139	6,982	0	9	890	0	3	82	87	0	5,504	407
Syracuse U.	140	6,622	216	0	741	0	67	31	657	259	213	4,438
Baylor C. of Medicine	141	6,617	0	0	6,617	0	0	0	0	0	0	0
U. New Mexico	142	6,585	39	442	3,218	0	0	0	1,155	45	1,295	391
Emory U.	143	6,579	89	333	5,793	0	45	0	0	0	115	204
Brown U.	144	6,566	2,058	201	285	0	492	133	888	0	566	1,943
U. California, Riverside	145	6,412	232	338	2,131	0	0	0	95	320	1,677	1,619
California Institute of Technology	146	6,280	0	5,481	142	0	0	0	0	0	507	150
Oklahoma State U., Stillwater	147	6,136	22	1	2,278	0	228	0	189	0	3,311	107
Illinois State U.	148	5,976	0	26	37	0	0	0	0	0	0	5,913
Old Dominion U.	149	5,865	210	625	475	90	998	39	540	0	1,698	1,190
U. Memphis	150	5,852	180	1,312	234	0	43	317	1,354	0	1,282	1,130
U. Alabama, Birmingham	151	5,845	0	0	4,942	0	0	234	246	0	380	43
Missouri U. of Science and Technology	152	5,801	83	0	0	0	822	0	0	0	4,896	0
CUNY, City C.	153	5,789	74	76	536	0	0	0	0	0	5,039	64
U. Nevada, Las Vegas	154	5,733	0	8	2,631	0	43	0	436	0	1,322	1,293
Ohio U.	155	5,567	51	127	36	0	0	1,925	126	0	3,266	36
Delaware State U.	156	5,502	0	0	2,128	775	1,493	0	46	1,035	0	25
U. Denver	157	5,428	0	37	50	0	0	13	1,959	0	224	3,145
California State U., East Bay	158	5,396	0	19	215	0	0	0	0	0	0	5,162
Dartmouth C. and Dartmouth Hitchcock Medical Center	159	5,390	20	138	3,945	0	0	166	206	102	376	437
U. Idaho	160	5,345	0	743	3,342	0	0	0	162	0	1,098	0
Texas Southern U.	161	5,121	2	0	4,292	2	31	51	0	0	1	742
New Mexico State U.	162	5,108	51	439	1,763	0	22	0	112	779	1,864	78
Temple U.	163	5,101	78	0	906	0	21	1	498	41	771	2,785
San Jose State U.	164	5,073	0	3,775	108	0	0	0	52	0	0	1,138
San Diego State U.	165	5,045	32	475	772	0	10	12	213	166	443	2,922
Florida Atlantic U.	166	4,925	576	174	1,701	26	0	0	170	0	1,508	770
U. Mississippi	167	4,911	0	669	1,522	0	732	0	176	0	317	1,495
American U.	168	4,848	0	93	0	61	146	0	2,382	124	0	2,042
SUNY, U. Albany	169	4,820	321	2,905	224	0	181	0	981	0	0	208

TABLE 66

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by other agency R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures ^a	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Worcester Polytechnic Institute	170	4,801	2,721	0	124	167	322	0	591	0	870	6
Michigan Technological U.	171	4,776	48	2,427	299	0	0	45	14	0	1,943	0
Boston C.	172	4,695	34	49	0	0	0	0	2,977	0	0	1,635
Indiana U.-Purdue U., Indianapolis	173	4,632	52	220	1,369	0	122	162	1,572	0	396	739
Winston-Salem State U.	174	4,517	0	0	604	0	0	0	7	0	0	3,906
Colorado School of Mines	175	4,447	30	947	106	0	36	0	10	0	3,144	174
U.S. Army War C.	176	4,323	0	0	0	0	0	0	4,323	0	0	0
Southern Methodist U.	177	4,245	0	200	0	0	0	0	490	81	389	3,085
Southern Illinois U., Carbondale	178	4,199	0	0	3,782	0	0	0	210	16	107	84
U. Texas Health Science Center, Houston	179	4,112	0	0	4,112	0	0	0	0	0	0	0
U. Alaska, Anchorage	180	4,109	0	1,436	2,219	0	66	0	97	0	194	97
Morgan State U.	181	4,102	10	0	441	0	11	0	276	0	2,765	599
Desert Research Institute	182	4,085	0	4,085	0	0	0	0	0	0	0	0
U. North Carolina, Charlotte	183	3,966	0	214	19	0	98	9	309	0	1,964	1,353
U. Baltimore	184	3,918	221	0	0	0	14	0	604	0	0	3,079
U. Utah	185	3,864	0	974	298	0	0	0	89	0	2,005	498
CUNY, John Jay C. of Criminal Justice	186	3,826	0	0	0	0	97	40	1,801	0	0	1,888
Lehigh U.	187	3,816	0	167	700	0	0	0	0	0	829	2,120
U. of the Virgin Islands	188	3,786	0	2,797	757	0	0	0	232	0	0	0
U. Minnesota, Duluth	189	3,785	0	0	3,158	0	10	451	0	0	166	0
Boise State U.	190	3,728	21	1,254	534	0	8	0	1,244	0	454	213
Northern Arizona U.	191	3,589	94	885	1,798	0	39	0	90	0	261	422
U. Wisconsin-Superior	192	3,536	0	3,532	4	0	0	0	0	0	0	0
North Carolina A&T State U.	193	3,531	0	0	313	0	58	0	0	766	990	1,404
U. North Texas, Health Science Center	194	3,494	0	0	3,181	0	0	0	313	0	0	0
U. North Carolina, Wilmington	195	3,484	0	32	1,915	0	536	0	959	0	0	42
U. Louisville	196	3,432	30	0	1,396	0	0	69	140	0	1,174	623
East Carolina U.	197	3,387	0	360	841	0	0	792	196	0	499	699
U. Hawaii, Hilo	198	3,376	0	1,616	1,373	0	0	0	204	183	0	0
U. Puerto Rico, Mayaguez	199	3,368	0	1,532	20	0	90	0	148	0	733	845
U. Guam	200	3,363	0	2,153	1,210	0	0	0	0	0	0	0
Pennsylvania State U., Behrend	201	3,335	0	443	1,668	0	0	147	0	0	1,067	10
U. Maryland, Baltimore County	202	3,313	245	799	103	0	384	327	30	0	408	1,017
Medical C. Wisconsin	203	3,311	0	0	2,462	0	0	0	0	0	849	0

TABLE 66

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by other agency R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures ^a	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Wayne State U.	204	3,306	0	0	2,029	0	226	0	58	0	815	178
U. Colorado Denver	205	3,286	235	180	189	0	0	15	0	16	509	2,142
Nova Southeastern U.	206	3,248	226	2,966	0	0	0	6	0	0	0	50
Tennessee Technological U.	207	3,242	0	0	1,982	0	0	84	0	0	1,067	109
Case Western Reserve U.	208	3,131	141	0	184	0	16	285	1,798	0	590	117
SUNY, C. of Environmental Science and Forestry	209	3,119	0	57	2,573	0	378	0	0	0	0	111
U. North Florida	210	3,114	254	9	500	0	107	0	178	0	0	2,066
U. Maryland, Eastern Shore	211	3,078	0	3,051	27	0	0	0	0	0	0	0
U. North Texas, Denton	212	3,032	233	0	276	0	0	0	0	0	122	2,401
Brigham Young U., Provo	213	2,945	277	0	1,103	0	0	0	25	0	1,121	419
Providence C.	214	2,940	0	0	0	0	0	0	0	0	0	2,940
Jackson State U.	215	2,919	83	0	387	0	830	0	40	160	1,027	392
U. Texas Health Science Center, San Antonio	216	2,884	0	0	2,884	0	0	0	0	0	0	0
U. Massachusetts, Dartmouth	217	2,857	0	2,005	53	0	0	0	81	0	714	4
Howard U.	218	2,856	345	0	126	0	18	0	570	0	342	1,455
California Polytechnic State U., San Luis Obispo	219	2,854	0	733	68	1,085	45	0	0	0	229	694
Cleveland State U.	220	2,824	0	0	0	0	0	0	538	0	748	1,538
Wake Forest U.	221	2,793	0	0	2,584	0	0	0	0	0	0	209
South Dakota State U.	222	2,786	0	281	927	40	0	0	0	0	1,486	52
Troy U.	223	2,765	0	18	49	0	2,525	0	0	0	0	173
Marshall U.	224	2,732	0	313	2,003	0	199	0	0	0	217	0
Rice U.	225	2,714	0	31	28	276	0	165	310	9	1,669	226
U. Rochester	226	2,457	0	0	2,415	0	0	0	42	0	0	0
Rensselaer Polytechnic Institute	227	2,448	0	8	42	0	14	0	0	0	1,605	779
Hope C.	228	2,437	0	0	1,846	0	49	0	0	0	0	542
California State U., Bakersfield	229	2,427	0	4	30	905	0	0	10	0	0	1,478
Northwest Indian C.	230	2,374	0	64	0	0	0	0	0	0	0	2,310
Air Force Institute of Technology	231	2,368	0	0	0	0	0	0	0	0	2,368	0
Central Michigan U.	232	2,359	0	122	2,197	0	10	0	8	0	0	22
U. California, Merced	233	2,351	260	447	26	0	178	0	308	479	47	606
U. Wisconsin-Milwaukee	234	2,348	58	503	290	0	0	0	417	0	406	674
SUNY, Polytechnic Institute	235	2,336	0	0	59	0	0	0	0	0	2,273	4
Saint Louis U.	236	2,239	77	200	328	0	0	0	0	0	49	1,585
Northern Illinois U.	237	2,238	0	158	81	0	0	79	0	0	1,612	308

TABLE 66

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by other agency R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures ^a	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Washington, Tacoma	238	2,217	0	1,945	0	0	0	0	4	0	0	268
SUNY, Binghamton U.	239	2,158	0	0	0	0	160	0	411	0	206	1,381
California State Polytechnic U., Pomona	240	2,100	0	0	77	0	0	0	0	0	189	1,834
Stevens Institute of Technology	241	2,092	2	0	0	0	0	0	0	0	1,872	218
Salisbury U.	242	2,047	0	131	7	0	0	0	0	0	0	1,909
Clarkson U.	243	2,024	3	0	451	0	378	0	0	0	1,025	167
Florida Institute of Technology	244	1,863	455	280	288	0	0	0	0	0	780	60
Bowling Green State U.	245	1,852	0	215	175	0	0	0	352	0	0	1,110
U. Toledo	246	1,831	0	844	338	0	55	0	18	0	230	346
Icahn School of Medicine at Mount Sinai	247	1,753	0	0	1,753	0	0	0	0	0	0	0
U. Wisconsin-Stevens Point	248	1,747	0	153	1,533	0	0	0	0	0	61	0
Texas Christian U.	249	1,705	0	0	0	41	0	0	0	1,664	0	0
Loyola Marymount U.	250	1,694	0	0	0	0	0	0	352	0	0	1,342
Washington U., Saint Louis	251	1,628	0	0	799	0	0	140	77	0	358	254
Pacific U.	252	1,594	0	0	127	0	0	58	0	0	0	1,409
California State U., San Marcos	253	1,589	160	0	0	0	209	0	14	3	904	299
U. Texas Rio Grande Valley	254	1,575	0	627	87	0	0	0	0	0	759	102
U. Tennessee, Health Science Center	255	1,546	0	0	1,546	0	0	0	0	0	0	0
U. New Orleans	256	1,544	0	499	41	0	104	0	375	105	28	392
Miami U.	257	1,508	0	15	196	0	377	108	75	0	97	640
Lake Superior State U.	258	1,443	0	0	1,443	0	0	0	0	0	0	0
U. Puerto Rico, Medical Sciences Campus	259	1,419	0	0	1,419	0	0	0	0	0	0	0
Texas A&M U.-Kingsville	260	1,406	0	0	45	0	0	0	0	0	272	1,089
California State U., San Bernardino	261	1,333	445	0	12	0	0	0	5	0	0	871
Winthrop U.	262	1,318	0	0	0	0	0	0	0	0	0	1,318
Lawrence Technological U.	263	1,316	0	0	0	0	0	0	0	0	303	1,013
East Tennessee State U.	264	1,294	0	0	970	0	82	42	0	2	0	198
U. Texas Southwestern Medical Center	265	1,256	0	0	1,256	0	0	0	0	0	0	0
California State Polytechnic U., Humboldt	266	1,249	0	24	894	0	0	0	15	0	6	310
Erikson Institute	267	1,245	0	0	0	0	0	0	0	0	0	1,245
California State U., Long Beach	268	1,226	0	1	84	0	178	427	341	0	133	62
Oregon Health and Science U.	269	1,202	0	0	1,202	0	0	0	0	0	0	0
Sul Ross State U.	270	1,197	0	0	0	0	12	0	0	0	0	1,185
North Carolina Central U.	271	1,193	0	0	0	0	145	0	233	0	25	790

TABLE 66

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by other agency R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures ^a	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields				
U. Arkansas, Little Rock	272	1,187	208	0	174	0	0	0	0	0	0	805				
U. Arkansas for Medical Sciences	273	1,171	0	0	1,171	0	0	0	0	0	0	0				
Johnson C. Smith U.	274	1,163	0	308	0	0	0	0	0	0	0	855				
Montana Technological U.	275	1,161	0	1,083	0	0	0	0	0	0	78	0				
Kent State U.	276	1,151	0	112	150	0	0	46	48	405	0	390				
Loyola U., Chicago	277	1,148	0	0	491	0	0	152	211	0	0	294				
Fisk U.	278	1,128	0	0	0	0	1,128	0	0	0	0	0				
San Francisco State U.	279	1,127	0	538	563	0	0	0	8	18	0	0				
Alcorn State U.	280	1,119	0	0	14	0	0	0	172	0	933	0				
Pittsburg State U.	281	1,104	0	0	297	0	0	0	49	0	758	0				
Texas A&M International U.	282	1,095	0	0	101	101	101	0	520	36	101	135				
Louisiana Tech U.	283	1,081	36	0	26	22	20	0	9	0	201	767				
Illinois Institute of Technology	284	1,078	6	15	0	0	122	0	0	0	900	35				
Austin Peay State U.	285	1,073	0	115	886	0	0	0	72	0	0	0				
La Sierra U.	286	1,066	i	0	0	0	0	0	0	0	0	1,066				
Sam Houston State U.	287	1,059	0	0	103	0	0	0	540	0	0	416				
U. New Haven	288	1,048	145	0	26	0	113	231	533	0	0	0				
Roger Williams U.	289	1,045	0	667	175	0	0	0	0	0	15	188				
Georgia Southern U.	290	1,037	0	336	237	0	4	0	38	0	235	187				
Albany State U.	291	1,033	0	0	112	0	0	0	0	0	909	12				
U. Missouri, Kansas City	292	1,006	0	0	337	0	0	84	5	0	387	193				
U. Houston-Downtown	293	992	65	0	77	0	21	0	0	0	79	750				
Claremont Graduate U.	294	991	0	0	0	0	0	0	186	0	0	805				
Alabama A&M U.	295	990	i	33	0	241	i	7	32	25	75	0	354	i	223	i
U. of the District of Columbia	296	986	0	146	0	0	0	0	0	145	9	686				
Gallaudet U.	297	980	165	0	0	0	0	0	553	0	0	262				
Montclair State U.	298	971	0	103	146	0	4	121	55	0	213	329				
C. Charleston	299	962	115	375	307	0	0	0	85	0	0	80				
Western Michigan U. and Homer Stryker M.D. School of Medicine	300	958	0	442	59	0	0	102	35	0	256	64				
U. Houston-Clear Lake	301	918	0	0	720	0	0	0	49	5	78	66				
U. Tulsa	302	912	204	33	2	0	0	126	38	0	248	261				
Naval Postgraduate School	303	908	485	0	0	0	0	0	423	0	0	0				
Saint Joseph's U.	304	890	266	0	325	0	0	0	23	0	0	276				
SUNY, Buffalo State U.	305	875	0	817	39	0	0	6	13	0	0	0				

TABLE 66

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by other agency R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures ^a	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Illinois, Springfield	306	841	0	0	0	0	0	49	388	0	0	404
Ball State U.	307	838	0	0	335	0	0	153	128	0	0	222
Duquesne U.	308	802	0	54	290	0	0	0	0	0	0	458
Northwestern State U. Louisiana	309	801	0	0	0	0	0	0	801	0	0	0
Lamar U.	310	799	0	0	75	0	0	0	0	0	552	172
CUNY, Graduate School of Public Health and Health Policy	311	790	0	0	790	0	0	0	0	0	0	0
U. Akron	312	773	0	25	0	0	0	0	0	0	748	0
Fordham U.	313	769	0	0	0	0	0	63	0	0	0	706
Rowan U.	314	767	0	0	23	10	52	0	138	0	482	62
Prairie View A&M U.	315	721	411	0	6	0	48	0	0	0	232	24
U. Texas M. D. Anderson Cancer Center	316	717	0	0	717	0	0	0	0	0	0	0
Southern Illinois U., Edwardsville	317	712	0	6	17	0	0	0	0	0	98	591
U. North Carolina, Asheville	318	699	0	33	16	0	400	0	0	0	0	250
Suffolk U.	319	687	0	0	0	0	0	0	27	0	0	660
Wright State U.	320	678	47	6	523	24	20	0	0	0	54	4
Hawaii Pacific U.	321	659	0	226	430	0	0	0	0	0	0	3
Xavier U. Louisiana	322	658	0	0	625	0	30	0	0	0	0	3
Texas Tech U., Health Sciences Center, El Paso	323	653	0	0	0	0	0	0	0	0	0	653
Texas A&M U.-Commerce	324	652	0	0	0	0	8	0	0	0	0	644
Baylor U.	325	650	0	57	54	0	0	326	5	0	0	208
Kean U.	326	647	4	0	8	0	52	12	0	0	0	571
U. Massachusetts, Medical School	327	642	0	0	642	0	0	0	0	0	0	0
U. Missouri, Saint Louis	328	638	0	0	470	0	30	0	45	0	0	93
Chapman U.	329	634	82	8	39	0	0	0	102	0	0	403
U. Texas, Dallas	330	631	158	0	13	0	6	176	1	0	271	6
U. South Dakota	331	621	0	0	595	0	0	0	26	0	0	0
U. Northern Colorado	332	619	0	0	265	0	0	17	0	0	0	337
Marquette U.	333	618	184	0	0	0	0	58	0	0	376	0
Seton Hall U.	334	613	0	0	524	0	0	0	0	0	0	89
Sonoma State U.	334	613	0	126	7	0	0	0	0	0	0	480
Santa Clara U.	336	604	0	0	0	0	0	0	0	0	51	553
SUNY, C. Brockport	337	595	0	0	579	0	0	0	16	0	0	0
Villanova U.	338	594	0	149	23	0	0	0	0	0	287	135
U. Texas Medical Branch	339	592	0	0	592	0	0	0	0	0	0	0

TABLE 66

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by other agency R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures ^a	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields			
California State U., Monterey Bay	340	588	0	272	285	0	0	0	31	0	0	0			
U. Puerto Rico, Rio Piedras	341	575	0	302	8	0	197	0	6	0	0	62			
U. Hawaii, system office	342	574	574	0	0	0	0	0	0	0	0	0			
Texas A&M U.-San Antonio	343	572	0	0	0	0	0	0	0	0	0	572			
Citadel Military C. South Carolina	344	536	0	23	16	0	0	0	0	0	238	259			
Southern U., New Orleans	344	536	0	0	536	0	0	0	0	0	0	0			
Indiana State U.	346	534	0	16	0	0	0	0	0	0	2	516			
Middle Tennessee State U.	347	533	0	0	97	0	95	0	68	0	0	273			
Coastal Carolina U.	348	531	0	464	66	0	0	0	1	0	0	0			
Purdue U., Northwest	348	531	0	0	0	0	0	0	0	0	0	531			
Grand Valley State U.	350	529	0	410	91	0	28	0	0	0	0	0			
Appalachian State U.	351	517	0	33	145	0	0	16	3	0	0	320			
Towson U.	352	510	196	24	0	0	14	0	53	0	0	223			
Catholic U. of America	353	500	0	0	0	0	0	0	3	0	100	397			
Bowie State U.	354	492	0	0	0	0	0	0	0	0	0	492			
Arkansas State U., Jonesboro	355	483	0	0	332	0	0	0	0	0	151	0			
Occidental C.	356	481	i	0	i	458	i	0	i	0	i	23	i	0	i
California State U., Northridge	357	475	0	29	0	0	0	0	0	49	39	358			
Idaho State U.	357	475	0	113	182	0	0	0	42	0	0	138			
SUNY, C. Plattsburgh	359	474	0	474	0	0	0	0	0	0	0	0			
Monmouth U.	360	470	0	429	11	0	0	0	30	0	0	0			
Benedict C.	361	467	59	0	59	59	133	0	0	0	157	0			
California State U., Los Angeles	362	462	41	0	0	0	0	0	106	0	125	190			
Missouri State U.	363	460	0	0	362	0	0	0	8	0	90	0			
Fort Lewis C.	364	448	0	2	29	0	0	0	0	0	0	417			
U. Alaska, Southeast	365	447	0	93	354	0	0	0	0	0	0	0			
Northern Kentucky U.	366	438	13	0	425	0	0	0	0	0	0	0			
Scripps Research Institute	367	437	0	0	437	0	0	0	0	0	0	0			
Western Carolina U.	368	435	0	323	96	0	0	0	16	0	0	0			
South Dakota School of Mines and Technology	369	434	0	0	0	83	85	0	0	0	266	0			
Skidmore C.	370	433	0	0	327	0	0	0	91	0	0	15			
Morehouse C.	371	432	0	0	21	0	0	0	0	32	0	379			
Stockton U.	372	428	0	37	98	0	0	0	293	0	0	0			
U. Tennessee, Chattanooga	373	426	37	0	52	0	0	0	0	61	276	0			

TABLE 66

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by other agency R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures ^a	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields											
California State U., Fullerton	374	425	13	163	0	0	0	0	246	0	0	3											
Rutgers, State U. New Jersey, Newark	375	422	0	44	0	0	0	0	356	0	0	22											
Eastern Washington U.	376	418	0	37	0	0	0	0	381	0	0	0											
Hobart and William Smith Colleges	376	418	0	0	418	0	0	0	0	0	0	0											
Nevada State C.	378	404	0	0	0	0	0	0	0	0	0	404											
U. San Diego	379	396	0	10	0	0	0	0	55	0	117	214											
Louisiana State U., Health Sciences Center, New Orleans	380	395	0	0	395	0	0	0	0	0	0	0											
U. Michigan, Dearborn	381	393	0	0	0	0	0	0	0	112	281	0											
U. Northern Iowa	382	391	0	0	134	0	0	0	142	0	0	115											
Texas Woman's U.	383	389	0	0	180	0	0	0	0	10	0	199											
Murray State U.	384	381	0	17	272	0	92	0	0	0	0	0											
Central Washington U.	385	380	0	369	0	0	6	0	0	0	0	5											
Wesleyan U.	386	371	0	54	0	0	165	45	0	0	0	107											
Elizabeth City State U.	387	370	0	0	0	0	0	0	0	0	0	370											
U. Washington, Bothell	388	369	0	85	66	0	0	0	112	0	0	106											
Marian U., Indianapolis	389	367	0	0	47	0	0	0	0	0	0	320											
Dillard U.	390	363	0	0	257	4	0	0	1	0	0	101											
U. Ana G. Mendez, Gurabo	391	358	0	0	0	0	0	0	0	0	0	358											
Tennessee State U.	392	357	0	0	8	0	74	0	0	0	275	0											
U. Texas of the Permian Basin	393	344	0	0	0	0	0	16	102	0	226	0											
California State U., Stanislaus	394	339	0	0	273	0	0	0	66	0	0	0											
Saginaw Valley State U.	395	337	i	3	i	0	i	70	i	0	i	242	i										
Rutgers, State U. New Jersey, Camden	396	331	59	0	0	0	0	0	272	0	0	0											
Central Connecticut State U.	397	328	0	0	7	0	0	0	148	0	77	96											
Northern Michigan U.	397	328	0	4	275	0	0	0	0	0	0	49											
U. Louisiana, Monroe	399	327	0	112	50	0	0	0	165	0	0	0											
South Carolina State U.	400	320	37	0	123	0	0	0	0	0	160	0											
St. Cloud State U.	401	316	0	0	0	0	0	0	121	0	0	195											
Tuskegee U.	402	315	4	0	255	0	0	0	0	0	56	0											
Creighton U.	403	313	i	45	i	0	i	109	i	14	i	18	i	8	i	55	i	0	i	0	i	64	i
California State U., Dominguez Hills	404	308	0	0	43	0	265	0	0	0	0	0											
Mount Holyoke C.	404	308	0	0	87	0	0	3	218	0	0	0											
U. Central Oklahoma	406	303	i	1	i	0	i	69	i	8	i	5	i	4	i	5	i	0	i	70	i	141	i
U. Colorado Colorado Springs	407	301	209	0	0	15	0	0	77	0	0	0											

TABLE 66

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by other agency R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures ^a	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Midwestern U.	408	296	0	0	296	0	0	0	0	0	0	0
Western Kentucky U.	409	289	0	107	38	0	87	0	20	0	37	0
Western Washington U.	410	288	0	149	22	0	64	0	20	16	0	17
U. Wisconsin-La Crosse	411	273	0	0	217	0	0	0	55	0	0	1
Pennsylvania State U., Altoona	412	271	0	0	0	0	0	0	0	0	271	0
Smith C.	413	268	0	0	181	0	0	0	0	0	39	48
CUNY, Graduate Center	414	265	0	0	0	0	0	0	86	0	0	179
U. of Mary Washington	415	257	0	0	0	0	0	0	0	0	0	257
Brandeis U.	416	249	0	0	0	0	0	0	162	0	0	87
SUNY, Upstate Medical U.	417	247	0	0	247	0	0	0	0	0	0	0
Swarthmore C.	418	233	0	0	0	83	0	50	87	0	0	13
Southeastern Louisiana U.	419	231	0	0	119	0	0	0	0	0	0	112
U. South Carolina, Beaufort	419	231	0	94	0	0	0	0	0	0	0	137
Connecticut C.	421	229	0	0	82	0	0	0	0	0	0	147
U. Nebraska, Kearney	421	229	0	0	177	0	0	0	0	0	0	52
CUNY, Hunter C.	423	227	0	111	0	0	14	43	1	0	0	58
DePaul U.	424	225	0	0	0	0	0	0	116	0	0	109
U. Texas, Tyler	425	221	0	75	0	0	0	0	0	0	75	71
Franklin and Marshall C.	426	217	0	1	0	0	0	0	216	0	0	0
Spelman C.	427	216	42	0	0	0	0	0	24	0	0	150
Arcadia U.	428	215	0	0	0	0	0	0	0	0	0	215
Clark U.	429	210	0	27	120	0	0	0	63	0	0	0
United Tribes Technical C.	430	200	0	0	0	0	0	0	0	0	0	200
California State U., Fresno	431	198	3	0	3	0	0	0	106	0	46	40
Florida Polytechnic U.	432	197	0	0	0	0	0	0	0	0	0	197
U. Hartford	432	197	0	0	0	0	0	0	90	0	107	0
Indiana U. Pennsylvania	434	194	0	0	189	0	0	0	5	0	0	0
Tougaloo C.	434	194	3	0	31	1	15	5	6	0	0	133
Reed C.	436	193	3	0	26	1	14	5	11	0	0	133
U. South Carolina, Aiken	437	191	0	86	105	0	0	0	0	0	0	0
Colby C.	438	188	0	33	75	0	0	0	80	0	0	0
New School	439	180	0	0	0	0	0	133	0	0	0	47
Oklahoma State U., Center for Health Sciences	440	179	0	0	53	0	0	126	0	0	0	0
U. Wisconsin-Oshkosh	441	178	0	2	0	0	0	0	34	0	142	0

TABLE 66

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by other agency R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures ^a	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Oregon Institute of Technology	442	173 i	0 i	69 i	88 i	4 i	0 i	0 i	0 i	0 i	12 i	0 i
U.S. Coast Guard Academy	443	172	50	3	0	0	2	0	117	0	0	0
Calvin U.	444	165	0	0	165	0	0	0	0	0	0	0
Rush U.	445	164	0	0	0	0	0	164	0	0	0	0
New Mexico Highlands U.	446	162	0	0	11	0	0	151	0	0	0	0
U. Central Arkansas	447	161	0	0	157	0	0	0	0	0	0	4
U. Arkansas, Pine Bluff	448	157	0	0	157	0	0	0	0	0	0	0
Bucknell U.	449	156	0	0	12	0	0	0	0	0	98	46
Minnesota State U., Mankato	450	155	0	0	0	0	0	0	0	0	114	41
Alaska Pacific U.	451	154	0	154	0	0	0	0	0	0	0	0
U. Hawaii, Maui C.	451	154	154	0	0	0	0	0	0	0	0	0
Augusta U.	453	146	0	0	146	0	0	0	0	0	0	0
Williams C.	454	144 i	2 i	7 i	16 i	0 i	8 i	2 i	5 i	0 i	0 i	104 i
C. New Jersey	455	143	0	0	10	0	15	0	107	0	0	11
Norfolk State U.	456	142	0	0	0	0	0	0	0	0	0	142
Southern Connecticut State U.	457	138	0	54	30	0	0	0	0	0	0	54
SUNY, Cobleskill	458	136	0	0	136	0	0	0	0	0	0	0
Indiana U., South Bend	459	135	0	0	0	0	38	0	0	0	0	97
Stephen F. Austin State U.	460	129	0	10	104	0	0	1	0	14	0	0
Eastern Kentucky U.	461	128	0	0	14	0	114	0	0	0	0	0
CUNY, Advanced Science Research Center	462	127	0	127	0	0	0	0	0	0	0	0
Keck Graduate Institute	462	127	0	0	0	0	0	0	0	0	127	0
Thomas Jefferson U.	464	125	0	0	104	0	0	0	0	0	0	21
Trinity U.	464	125	2	0	4	5	5	8	2	0	0	99
Savannah State U.	466	123	0	123	0	0	0	0	0	0	0	0
Des Moines U.	467	122	0	0	0	0	0	0	122	0	0	0
SUNY, Downstate Health Sciences U.	467	122	0	0	122	0	0	0	0	0	0	0
Bowdoin C.	469	121	0	95	26	0	0	0	0	0	0	0
West Texas A&M U.	469	121	0	9	0	0	0	0	0	0	73	39
Sacred Heart U.	471	119	0	0	73	0	0	0	28	0	0	18
West Chester U. Pennsylvania	472	116	0	0	0	0	0	116	0	0	0	0
Colorado State U., Pueblo	473	111	0	0	111	0	0	0	0	0	0	0
Western New England U.	473	111	0	0	0	0	0	0	0	0	111	0
Kennesaw State U.	475	109	0	0	99	0	0	0	0	0	0	10

TABLE 66

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by other agency R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures ^a	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Wisconsin-Green Bay	476	105 i	5 i	13 i	18 i	1 i	1 i	2 i	5 i	0 i	39 i	21 i
Bates C.	477	104	0	55	13	0	0	36	0	0	0	0
St. Olaf C.	477	104	0	0	11	0	0	4	32	0	0	57
CUNY, C. Staten Island	479	102	102	0	0	0	0	0	0	0	0	0
Grambling State U.	479	102	0	0	0	0	0	0	0	0	0	102
Northland C.	481	101 i	0 i	0 i	16 i	0 i	0 i	3 i	11 i	0 i	0 i	71 i
Eastern Michigan U.	482	100	0	0	0	0	0	0	0	0	83	17
James Madison U.	482	100	0	19	28	0	0	0	0	0	0	53
Rosalind Franklin U. of Medicine and Science	484	99	0	0	99	0	0	0	0	0	0	0
Yeshiva U.	484	99	0	0	99	0	0	0	0	0	0	0
Abilene Christian U.	486	95	0	0	0	0	0	0	0	0	0	95
California State U., Chico	487	91	0	0	0	0	0	0	81	0	0	10
Carleton C.	488	88 i	0 i	0 i	0 i	0 i	0 i	0 i	78 i	0 i	0 i	10 i
Heidelberg U.	489	86	0	86	0	0	0	0	0	0	0	0
Bentley U.	490	83	0	0	83	0	0	0	0	0	0	0
U. Oklahoma, Tulsa	490	83	0	0	0	0	0	0	23	0	59	1
Morehouse School of Medicine	492	77	0	0	77	0	0	0	0	0	0	0
Gustavus Adolphus C.	493	75	0	52	0	0	23	0	0	0	0	0
Lafayette C.	494	74	0	0	0	0	0	0	0	0	74	0
Loma Linda U.	494	74	0	0	41	0	0	33	0	0	0	0
Norwich U.	496	72	0	51	0	21	0	0	0	0	0	0
U. Scranton	497	70	0	0	0	0	0	0	0	0	0	70
West Virginia State U.	498	68	0	0	45	23	0	0	0	0	0	0
CUNY, Baruch C.	499	67	0	0	0	67	0	0	0	0	0	0
Western Illinois U.	499	67	0	0	0	0	67	0	0	0	0	0
U. Puerto Rico, Humacao	501	62	0	0	62	0	0	0	0	0	0	0
U. Richmond	502	61	0	0	0	0	0	0	0	0	0	61
Wheaton C., Wheaton	502	61	0	0	61	0	0	0	0	0	0	0
CUNY, Lehman C.	504	60	0	0	0	0	18	0	0	0	0	42
Purdue U., Fort Wayne	505	57	0	0	55	0	0	0	0	0	0	2
Central State U.	506	56	0	0	0	0	0	0	0	0	56	0
Northeast Ohio Medical U.	506	56	0	0	26	0	0	0	30	0	0	0
Black Hills State U.	508	54	0	0	0	0	0	0	0	0	0	54
California State U., Channel Islands	508	54	16	0	35	0	0	0	0	3	0	0

TABLE 66

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by other agency R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures ^a	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Virginia State U.	508	54	0	0	38	0	0	0	16	0	0	0
Youngstown State U.	511	52	0	0	0	0	0	26	0	0	26	0
Macalester C.	512	51	0	0	51	0	0	0	0	0	0	0
U. Wisconsin-River Falls	512	51	0	0	51	0	0	0	0	0	0	0
U. Puerto Rico, Ponce	514	50	0	0	0	0	0	0	0	0	0	50
CUNY, Queens C.	515	48	14	0	0	0	0	0	0	0	0	34
U. Detroit Mercy	515	48	0	0	0	0	0	0	0	0	0	48
SUNY, Oswego	517	47	0	30	17	0	0	0	0	0	0	0
U. New England	518	45	0	45	0	0	0	0	0	0	0	0
U. Southern Maine	518	45	0	0	45	0	0	0	0	0	0	0
U. Wisconsin-Platteville	518	45 i	0 i	0 i	19 i	1 i	1 i	0 i	4 i	1 i	3 i	16 i
Elon U.	521	44	0	0	0	0	44	0	0	0	0	0
Hamilton C.	522	43	0	0	0	0	0	0	39	0	0	4
Alfred U.	523	41	0	1	0	0	0	40	0	0	0	0
Mercer U.	524	40	0	0	0	0	0	0	15	0	0	25
Radford U.	525	39	34	0	0	0	0	0	5	0	0	0
William Paterson U.	525	39	27	6	0	0	0	0	1	0	0	5
St. Mary's C. Maryland	527	38	0	38	0	0	0	0	0	0	0	0
Franklin W. Olin C. of Engineering	528	36	0	0	0	0	0	0	0	0	36	0
SUNY, Geneseo	528	36	0	0	20	0	0	0	0	0	0	16
Langston U.	530	34	0	0	0	0	0	0	0	0	0	34
Hofstra U.	531	33	0	27	6	0	0	0	0	0	0	0
U. Virginia's C. Wise	532	32	0	0	0	0	0	0	32	0	0	0
Texas Tech U., Health Sciences Center	533	30	0	0	28	0	0	0	0	0	0	2
Middlebury C.	534	26	0	0	26	0	0	0	0	0	0	0
Rockefeller U.	534	26	0	26	0	0	0	0	0	0	0	0
Pennsylvania State U., Harrisburg	536	25	0	0	0	0	0	0	25	0	0	0
CUNY, York C.	537	23	0	23	0	0	0	0	0	0	0	0
Harvey Mudd C.	538	22	0	0	22	0	0	0	0	0	0	0
New C. Florida	538	22	0	0	22	0	0	0	0	0	0	0
Canisius U.	540	21	0	0	0	0	0	0	0	21	0	0
Trinity C., Hartford	540	21	0	0	0	0	0	0	0	0	0	21
U. San Francisco	540	21	0	0	21	0	0	0	0	0	0	0
Tarleton State U.	543	19	0	0	0	0	0	0	19	0	0	0

TABLE 66

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by other agency R&D expenditures, by R&D field: FY 2023

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures ^a	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Wisconsin-Eau Claire	543	19	0	6	0	0	0	0	13	0	0	0
Christopher Newport U.	545	18	0	0	0	0	0	16	0	0	0	2
Eastern Connecticut State U.	545	18	0	12	6	0	0	0	0	0	0	0
Willamette U.	547	17	0	0	0	0	0	17	0	0	0	0
Dine C.	548	16	0	0	0	0	0	0	0	0	0	16
Bryn Mawr C.	549	15	0	0	15	0	0	0	0	0	0	0
East Stroudsburg U. Pennsylvania	549	15	0	0	15	0	0	0	0	0	0	0
Manhattan C.	549	15	0	0	0	0	0	0	0	0	15	0
Marshall B. Ketchum U.	552	12 i	0 i	0 i	12 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Oberlin C.	552	12	0	11	0	0	0	0	1	0	0	0
C. Wooster	554	11	0	0	0	0	0	0	0	0	0	11
Merrimack C.	554	11	0	0	0	0	0	0	0	0	11	0
Azusa Pacific U.	556	10	0	0	0	0	0	0	10	0	0	0
Butler U.	556	10	0	0	0	0	0	0	10	0	0	0
Haverford C.	556	10	0	0	0	0	0	0	10	0	0	0
Lipscomb U.	559	6	0	0	0	0	0	0	0	0	6	0
C. of Saint Benedict	560	5 i	0 i	0 i	1 i	0 i	0 i	0 i	0 i	0 i	0 i	4 i
Long Island U.	560	5	0	0	0	0	0	0	0	0	0	5
U. of St. Thomas (MN)	560	5	0	0	0	0	0	0	0	0	0	5
Amherst C.	563	4	0	4	0	0	0	0	0	0	0	0
Gettysburg C.	563	4	0	0	0	0	0	0	4	0	0	0
Morehead State U.	563	4	0	0	0	0	0	0	0	0	4	0
Pepperdine U.	566	3	0	0	0	0	0	0	0	0	0	3
Babson C.	567	2	0	0	2	0	0	0	0	0	0	0
CUNY, Brooklyn C.	567	2	0	2	0	0	0	0	0	0	0	0
Robert Morris U.	567	2	0	0	0	0	0	0	0	0	0	2
Davidson C.	570	1	0	0	0	0	0	0	0	0	0	1
Utah Valley U.	570	1	0	0	1	0	0	0	0	0	0	0

i = imputed.

nec = not elsewhere classified; S&E = science and engineering.

^a Other agency R&D expenditures includes all other agencies reported.

^b Johns Hopkins University includes the Applied Physics Laboratory, with \$187,622 thousand in R&D expenditures financed by all other federal agencies in FY 2023.

^c The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^d The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 67

Higher education R&D expenditures, by state: FYs 2010–23

(Dollars in thousands)

State	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
United States	61,286,610	65,274,393	65,729,007	66,977,566	67,161,428	68,519,962	71,737,194	75,149,390	79,025,976	83,490,430	86,306,106	89,700,890	97,669,577	108,681,008
Alabama	847,072	898,422	830,538	837,871	812,803	898,010	944,506	994,210	1,052,494	1,123,491	1,186,697	1,272,604	1,431,393	1,579,469
Alaska	180,888	185,942	181,983	184,472	174,431	163,012	167,308	176,424	165,198	169,296	177,537	196,501	226,717	241,536
Arizona	944,795	997,700	1,039,424	1,065,136	1,047,329	1,099,837	1,162,283	1,213,469	1,358,920	1,434,177	1,499,135	1,516,463	1,690,904	1,939,790
Arkansas	267,405	282,628	289,364	294,572	285,691	293,494	298,497	312,533	343,066	364,781	370,782	387,674	416,507	457,800
California	7,832,767	8,225,420	8,401,638	8,357,891	8,403,770	8,656,350	8,888,492	9,226,580	10,170,328	10,478,948	10,903,554	11,221,457	12,113,511	13,473,649
Colorado	1,180,741	1,292,081	1,338,888	1,253,466	1,232,376	1,273,753	1,378,920	1,461,877	1,552,251	1,622,011	1,665,742	1,746,975	1,898,797	2,084,784
Connecticut	888,949	945,705	946,289	1,059,367	1,062,741	1,091,381	1,176,170	1,254,440	1,287,024	1,387,319	1,400,865	1,494,357	1,587,047	1,757,255
Delaware	168,511	188,765	185,842	197,262	193,242	191,704	197,615	204,221	207,569	229,287	243,550	254,725	397,123	461,627
District of Columbia	470,217	493,469	501,534	524,241	543,149	559,222	555,721	601,551	630,161	664,872	684,793	717,928	783,163	925,418
Florida	1,994,860	2,125,648	2,179,352	2,171,626	2,272,556	2,354,871	2,483,359	2,584,487	2,529,896	2,682,412	2,694,387	2,750,264	3,048,253	3,518,895
Georgia	1,691,603	1,808,679	1,882,308	1,956,245	1,950,990	2,046,068	2,168,071	2,340,410	2,473,503	2,650,343	2,782,005	2,949,654	3,260,128	3,663,637
Hawaii	317,942	330,838	335,704	343,802	335,189	332,233	318,134	301,204	297,975	301,419	298,285	294,913	301,272	339,716
Idaho	126,433	142,364	146,326	143,728	142,772	146,700	154,989	163,093	171,053	167,903	170,595	165,913	179,835	206,438
Illinois	2,224,414	2,352,326	2,362,224	2,501,413	2,327,098	2,382,947	2,400,990	2,503,276	2,570,270	2,709,733	2,764,233	2,914,398	3,160,587	3,476,127
Indiana	1,186,421	1,271,364	1,306,462	1,336,343	1,308,856	1,323,824	1,408,862	1,461,367	1,505,426	1,661,312	1,715,310	1,699,302	1,872,200	2,146,500
Iowa	706,667	724,608	718,281	714,366	773,760	758,796	814,031	830,587	885,861	880,424	917,407	931,113	1,005,800	1,102,499
Kansas	482,901	511,048	527,122	545,364	547,813	562,254	559,279	577,566	640,735	703,716	739,872	785,055	882,644	1,054,041
Kentucky	575,277	596,081	586,240	550,941	533,834	516,754	546,527	583,143	596,532	615,383	641,301	655,290	733,242	756,549
Louisiana	713,675	727,510	699,228	671,580	665,754	662,778	683,125	690,958	744,283	778,357	798,373	830,787	940,849	1,064,385
Maine	137,516	139,983	120,072	104,573	124,688	103,102	100,351	122,740	128,500	151,249	153,262	165,224	191,739	211,287
Maryland	3,139,254	3,416,687	3,359,741	3,433,145	3,573,167	3,741,687	3,799,639	4,017,092	4,167,470	4,629,161	4,745,030	4,914,256	5,168,958	5,987,528
Massachusetts	2,749,926	2,949,264	3,214,549	3,532,767	3,500,516	3,673,620	3,796,798	3,928,192	4,059,931	4,305,676	4,389,620	4,555,840	4,835,816	5,174,742
Michigan	2,031,479	2,161,520	2,219,505	2,267,080	2,242,864	2,334,031	2,468,498	2,662,045	2,781,359	2,891,267	2,868,417	2,843,359	3,081,672	3,368,889
Minnesota	831,754	898,741	864,938	901,404	919,257	928,999	961,040	968,784	999,660	1,060,927	1,086,730	1,115,363	1,241,862	1,365,645
Mississippi	443,625	460,962	476,078	416,772	410,543	408,232	454,983	479,122	479,431	535,774	506,660	491,172	565,279	608,155
Missouri	1,087,432	1,121,330	1,098,287	1,074,632	1,050,665	1,074,115	1,151,047	1,188,439	1,260,217	1,368,942	1,444,375	1,582,870	1,708,351	1,873,279
Montana	207,827	195,267	196,721	185,996	181,127	181,680	195,125	229,206	230,099	273,459	290,297	330,081	340,611	382,015
Nebraska	400,660	412,756	438,303	444,917	454,744	464,664	481,383	513,581	535,911	572,488	586,550	589,184	626,792	680,337
Nevada	174,247	165,437	153,325	153,427	153,571	157,528	191,155	205,761	260,074	282,740	296,470	308,745	312,714	325,781
New Hampshire	311,455	359,839	366,337	354,296	365,537	357,665	379,991	455,859	471,347	473,061	484,313	498,518	551,187	590,539
New Jersey	1,075,872	1,141,570	1,113,109	1,173,474	1,130,474	1,106,186	1,158,998	1,261,174	1,350,470	1,336,562	1,393,596	1,352,770	1,516,963	1,717,387
New Mexico	422,868	405,339	400,952	403,776	412,428	390,913	367,031	370,329	369,927	365,769	376,331	473,773	545,210	564,566
New York	4,948,442	5,288,932	5,352,978	5,519,542	5,638,584	5,700,230	6,075,419	6,388,367	6,633,634	7,075,350	7,171,446	7,577,235	8,280,323	9,058,400
North Carolina	2,465,260	2,668,842	2,681,840	2,739,920	2,814,943	2,814,924	2,937,671	3,081,568	3,204,297	3,388,360	3,385,735	3,504,060	3,870,874	4,344,862
North Dakota	204,049	211,057	215,642	219,115	222,032	217,926	226,572	255,942	255,534	263,217	267,308	307,556	322,621	373,912

TABLE 67

Higher education R&D expenditures, by state: FYs 2010–23

(Dollars in thousands)

State	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Ohio	2,051,857	2,221,827	2,128,968	2,168,267	2,158,565	2,152,796	2,193,019	2,299,112	2,370,346	2,499,431	2,518,803	2,788,160	3,079,902	3,392,194
Oklahoma	400,731	444,722	437,180	420,067	419,653	419,602	488,559	505,940	517,283	533,785	604,114	623,319	650,977	725,008
Oregon	696,272	739,733	722,421	704,764	705,688	719,881	759,243	780,741	820,988	863,844	894,789	929,355	1,001,028	1,095,169
Pennsylvania	3,128,420	3,315,363	3,239,240	3,361,374	3,328,851	3,356,723	3,950,517	4,178,978	4,406,037	4,649,772	4,819,394	4,933,707	5,379,806	5,954,796
Rhode Island	428,738	459,321	495,366	479,162	447,469	453,291	463,300	333,572	369,793	392,885	398,673	429,278	458,694	513,818
South Carolina	660,415	620,533	636,534	648,137	655,757	665,319	687,110	699,199	736,318	742,924	743,728	755,089	808,632	918,964
South Dakota	131,165	136,305	129,200	117,361	104,962	103,368	106,941	112,916	115,860	118,377	110,619	100,534	117,368	129,045
Tennessee	938,237	1,016,915	1,025,283	1,032,124	1,133,373	1,077,068	1,091,835	1,183,795	1,293,909	1,337,211	1,408,786	1,624,957	1,715,468	1,972,549
Texas	4,416,323	4,661,517	4,651,322	4,813,050	4,898,443	5,036,366	5,254,298	5,472,126	5,622,830	5,970,929	6,620,370	6,850,383	7,504,105	8,330,578
Utah	562,349	627,180	622,244	688,972	693,796	733,407	573,106	611,015	812,458	924,632	950,562	993,876	1,062,475	1,264,913
Vermont	132,792	137,303	120,226	121,110	114,549	119,663	120,306	122,003	131,670	138,716	193,824	198,247	218,910	238,418
Virginia	1,199,244	1,390,412	1,379,440	1,419,504	1,381,078	1,411,176	1,462,939	1,551,003	1,684,274	1,814,048	1,918,654	1,942,260	2,123,167	2,297,277
Washington	1,358,061	1,502,284	1,475,365	1,526,001	1,499,528	1,518,660	1,613,401	1,715,069	1,779,849	1,805,214	1,827,963	1,882,879	1,972,326	2,160,233
West Virginia	194,834	210,899	202,118	196,492	195,675	199,167	199,164	210,259	211,695	212,963	217,788	231,347	248,022	286,551
Wisconsin	1,335,621	1,442,933	1,483,983	1,419,426	1,412,594	1,372,168	1,458,791	1,504,025	1,542,080	1,659,741	1,746,640	1,771,499	1,954,004	2,215,597
Wyoming	55,319	57,549	65,611	65,490	51,422	56,996	112,056	125,032	113,063	80,353	93,061	93,202	139,764	150,124
American Samoa	ne	ne	ne	ne	ne	1,337	793	ne	ne	860	ne	815	ne	ne
Guam	5,555	5,626	6,131	6,043	7,075	6,062	7,402	8,842	11,225	12,249	13,043	17,666	20,481	22,388
Puerto Rico	125,123	163,853	151,532	135,659	123,285	126,792	120,619	113,868	103,935	121,074	111,101	123,707	103,245	115,688
Virgin Islands	32,350	21,994	25,719	20,041	20,371	20,630	21,215	12,298	11,957	12,236	13,631	15,231	20,259	20,259

ne = not eligible; no institutions within the state met the criteria for inclusion.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Alabama														
Public														
Alabama A&M U.	30,497	30,238	i 29,979	i 29,720	i 29,461	i 29,202	25,112	i 21,022	i 16,932	i 12,840	8,749	9,180	i 9,611	15,588
Alabama State U.	13,340	12,340	13,607	1,927	2,236	2,303	2,372	2,253	2,434	2,577	2,582	2,631	3,178	3,229
Auburn U., Auburn	145,115	163,335	133,013	147,229	142,487	135,899	152,381	190,340	212,925	231,619	255,281	266,374	304,439	349,273
Troy U.	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,692	1,548	2,517	3,785
U. Alabama, Birmingham	489,845	503,698	453,779	440,796	428,563	516,229	537,825	561,851	588,207	607,863	618,226	644,330	713,480	780,479
U. Alabama, Huntsville	75,683	75,724	87,388	101,016	89,325	88,439	96,865	94,376	99,405	109,744	131,648	149,792	169,532	163,428
U. Alabama, Tuscaloosa	40,762	53,633	55,885	55,443	53,140	58,234	62,549	63,282	71,992	83,317	95,200	129,509	163,204	184,880
U. South Alabama	35,500	42,233	40,172	40,590	41,681	43,722	46,670	41,431	41,056	52,540	51,102	47,610	43,491	53,182
Private														
Tuskegee U.	15,581	15,685	15,991	21,150	24,945	20,740	i 16,535	16,535	16,535	20,562	20,973	21,355	21,941	25,625
Alaska														
Public														
U. Alaska, Anchorage	16,709	18,620	20,194	20,255	17,150	17,436	19,883	20,861	21,096	21,724	22,713	21,332	21,024	19,850
U. Alaska, Fairbanks	161,986	165,530	160,407	162,658	155,769	142,742	144,259	152,694	140,917	144,457	152,299	172,957	202,516	218,041
U. Alaska, Southeast	1,759	1,274	1,382	1,559	1,512	1,588	1,808	1,621	1,641	1,341	1,264	1,176	1,570	1,822
Private														
Alaska Pacific U.	434	518	ne	ne	ne	1,246	1,358	1,248	1,544	1,774	1,261	1,036	1,607	1,823
Arizona														
Public														
Arizona State U.	329,345	355,215	385,959	405,154	426,651	458,412	518,239	545,016	617,717	639,637	673,357	677,303	797,224	903,779
Dine C.	ne	959	i ne	ne	ne	ne	ne	ne	1,238	1,126	347	ne	2,091	3,054
Northern Arizona U.	28,803	30,785	28,100	30,516	31,590	35,206	39,580	46,253	52,899	58,914	64,456	69,129	66,729	77,533
U. Arizona	586,647	610,565	625,365	629,466	588,088	606,219	604,464	622,200	687,066	734,270	760,975	770,031	824,340	955,424
Arkansas														
Public														
Arkansas State U., Jonesboro	11,115	13,435	14,250	10,463	8,099	8,453	8,169	7,952	8,245	8,945	8,640	8,422	8,214	7,323
U. Arkansas for Medical Sciences	119,518	122,066	129,056	133,677	131,438	132,451	125,378	128,508	139,187	153,135	174,549	194,709	205,493	209,409
U. Arkansas, Fayetteville	113,909	120,007	123,199	125,501	125,824	133,660	145,020	157,791	175,498	180,225	165,887	164,443	184,080	221,525
U. Arkansas, Little Rock	11,007	12,039	10,500	13,107	8,068	7,003	7,604	6,833	8,167	9,975	9,711	7,397	7,530	8,685
U. Arkansas, Pine Bluff	8,343	9,415	9,082	8,911	8,198	8,425	8,873	8,136	8,349	9,024	8,540	8,713	7,506	7,766
U. Central Arkansas	2,670	2,821	3,277	2,913	4,064	3,502	3,453	3,313	3,620	3,477	3,455	3,990	3,684	3,092
California														
Public														
California Polytechnic State U., San Luis Obispo	19,732	16,532	17,412	16,067	15,096	16,312	18,081	17,979	16,352	25,249	26,605	25,953	33,155	35,830

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
California State Polytechnic U., Humboldt	9,845	9,570	9,510	8,025	8,306	11,218	16,143	15,969	15,044	15,076	14,236	14,103	15,612	18,800
California State Polytechnic U., Pomona	6,493	7,198	6,597	6,988	5,455	4,611	5,254	5,863	8,043	6,099	7,396	7,011	7,909	10,722
California State U., Bakersfield	2,083	3,162	1,241	2,602	2,432	3,192	3,161	4,652	5,577	7,591	7,053	6,253	4,815	6,409
California State U., Channel Islands	ne	524	ne	1,236	3,862	1,949	1,383	1,096	1,248	1,572	1,497	2,341	3,377	3,992
California State U., Chico	2,881	2,684	2,492	2,868	2,384	1,837	2,363	1,600	2,452	3,232	4,305	4,209	4,177	5,984
California State U., Dominguez Hills	2,743	2,780	2,894	4,671	3,614	i 2,557	2,790	1,858	2,043	1,957	2,065	2,690	4,230	5,558
California State U., East Bay	1,312	1,644	1,039	934	ne	ne	837	ne	ne	ne	9,072	10,852	19,035	21,312
California State U., Fresno	8,698	8,597	8,359	7,682	8,109	8,624	8,586	8,102	8,988	8,599	8,856	9,213	12,603	11,411
California State U., Fullerton	21,776	28,186	22,222	18,478	7,919	5,611	5,755	5,510	6,348	7,173	5,929	9,006	16,642	25,811
California State U., Long Beach	15,494	14,595	i 13,696	i 12,796	10,097	8,830	16,390	18,805	22,880	18,664	16,684	15,134	17,807	21,458
California State U., Los Angeles	7,714	8,823	7,192	7,659	5,172	5,010	5,371	8,274	9,594	12,476	10,590	9,382	9,839	10,186
California State U., Monterey Bay	5,305	6,959	6,567	6,129	4,787	5,492	5,680	5,397	5,799	6,444	5,874	6,882	8,975	10,678
California State U., Northridge	29,469	25,654	29,491	9,640	12,991	13,333	16,330	17,979	19,618	21,095	21,228	16,573	19,638	23,093
California State U., Sacramento	15,207	16,344	14,053	15,564	13,136	17,930	20,676	21,106	21,429	23,544	24,939	23,699	23,795	28,027
California State U., San Bernardino	4,188	11,591	9,303	11,942	13,582	15,317	10,771	12,924	16,702	16,062	10,819	11,607	11,929	13,152
California State U., San Marcos	5,788	6,795	i 7,802	i 8,809	8,302	6,432	6,634	6,549	8,348	10,595	13,250	10,213	9,238	11,443
California State U., Stanislaus	ne	1,487	1,881	1,342	1,136	1,080	1,248	1,365	1,394	1,477	1,843	2,085	1,966	2,305
Naval Postgraduate School	103,510	101,363	132,450	94,880	99,032	89,170	65,529	60,386	59,213	67,323	62,903	65,101	64,055	77,364
San Diego State U.	99,137	106,591	92,867	86,733	95,674	93,572	90,722	89,187	88,177	92,964	97,710	107,681	129,762	158,013
San Francisco State U.	25,615	26,198	30,291	33,885	29,457	26,345	28,273	29,940	30,903	31,888	33,828	i 35,768	36,617	34,466
San Jose State U.	38,241	40,149	34,727	38,326	43,509	45,037	41,662	39,192	41,366	44,309	47,301	60,100	71,695	83,406
Sonoma State U.	858	825	ne	1,938	1,714	1,163	693	ne	ne	ne	1,545	2,957	3,774	4,625
U. California, Berkeley	694,049	707,945	730,348	727,002	744,343	788,505	774,255	770,822	796,505	802,931	840,000	846,872	981,035	1,076,754
U. California, Davis	679,915	707,896	713,292	725,734	711,721	721,077	741,892	738,347	788,832	804,282	816,693	817,409	883,807	962,399
U. California, Irvine	327,594	344,678	350,030	347,773	340,056	329,798	345,319	361,414	426,610	448,967	490,597	523,752	534,947	609,614
U. California, Los Angeles	936,995	982,357	1,003,375	966,659	948,197	1,021,227	1,037,528	1,076,917	1,318,110	1,306,376	1,392,941	1,454,880	1,536,197	1,721,665
U. California, Merced	21,591	21,328	22,656	22,909	23,916	29,688	29,370	35,093	38,226	44,890	45,966	45,964	48,147	62,279
U. California, Office of the President	72,542	63,420	65,627	67,447	50,103	48,341	39,051	46,399	55,676	67,702	60,686	50,848	54,640	63,629
U. California, Riverside	130,288	132,238	135,494	132,617	133,558	144,511	152,233	163,632	167,847	177,655	184,894	189,600	199,135	214,802
U. California, San Diego	943,219	1,009,378	1,073,864	1,075,554	1,067,388	1,101,466	1,087,117	1,133,454	1,265,196	1,353,763	1,403,735	1,425,499	1,533,357	1,705,410
U. California, San Francisco	935,509	995,226	1,032,673	1,042,841	1,084,031	1,126,620	1,294,261	1,409,398	1,595,732	1,595,098	1,651,073	1,710,036	1,805,950	2,046,539
U. California, Santa Barbara	225,730	230,435	233,883	236,497	231,322	222,870	230,139	238,246	235,164	243,778	254,434	248,961	278,897	305,483
U. California, Santa Cruz	143,919	155,617	155,516	150,777	151,734	151,713	151,192	124,344	127,538	142,958	150,400	160,615	176,760	203,883
Private														
Azusa Pacific U.	ne	3,620	2,056	i ne	ne	7,521	8,898	8,430	8,380	5,598	7,068	5,318	3,389	6,097
Biola U.	ne	ne	ne	ne	ne	ne	2,418	i 2,499	i 2,622	i 2,792	i 2,868	i 3,003	i 3,260	1,461

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
California Institute of Technology	362,172	377,514	379,713	347,105	367,182	374,424	371,060	400,312	391,003	399,931	449,651	438,624	478,142	490,672
Chapman U.	3,830	3,547	3,314	4,463	4,794	5,353	6,554	10,626	14,141	19,592	26,660	25,820	34,212	41,791
Charles R. Drew U. of Medicine and Science	22,152	22,150	20,580	18,547	20,686	14,128	13,360	15,652	11,490	13,739	13,682	13,228	14,581	19,551
Claremont Graduate U.	7,116	6,589	10,350	9,705	9,540	i 9,375	i 9,210	i 9,045	i 8,880	i 8,715	9,403	7,235	8,382	7,262
Claremont McKenna C.	5,725	5,316	5,365	i 5,414	i 5,463	ne	6,094	5,818	5,693	6,214	5,846	4,515	5,893	6,925
Harvey Mudd C.	3,214	3,861	3,512	3,595	3,127	3,272	4,332	3,748	3,790	3,353	2,916	2,359	3,350	3,682
High Tech High Graduate School of Ed.	ne	ne	ne	ne	ne	ne	ne	ne	861	ne	3,304	5,032	6,203	5,939
Keck Graduate Institute	ne	2,313	1,920	2,357	2,132	1,722	1,660	i 1,598	i 1,536	i 1,474	i 1,412	i 1,350	i 1,282	4,059
La Sierra U.	ne	732	ne	ne	1,057	1,165	1,255	2,202	2,227	1,581	1,647	1,517	2,246	2,496
Loma Linda U.	35,990	39,409	31,772	31,715	23,375	25,519	22,977	21,846	19,892	i 17,938	i 15,984	i 14,029	15,517	22,262
Loyola Marymount U.	4,557	6,455	5,746	6,766	7,635	6,389	7,504	7,071	7,911	7,272	7,193	12,819	12,773	14,086
Marshall B. Ketchum U.	ne	ne	ne	ne	1,030	1,468	1,491	1,512	i 1,451	i 1,430	i 1,357	i 1,351	i 1,559	i 1,777
Occidental C.	2,289	1,809	1,592	1,634	2,177	1,544	2,008	1,764	1,445	2,458	2,657	3,587	4,139	i 4,718
Pepperdine U.	2,672	1,924	2,571	2,400	2,401	2,714	3,178	2,396	1,954	2,170	2,006	2,655	3,775	10,632
Pomona C.	2,924	3,640	3,259	3,679	3,818	3,538	3,691	3,205	2,983	2,985	2,855	2,146	2,589	4,149
Santa Clara U.	3,816	2,407	3,329	2,376	2,883	1,659	2,056	2,145	2,299	2,319	2,682	3,142	4,225	5,679
Scripps Research Institute	387,298	400,768	398,673	399,899	386,231	384,161	364,670	354,582	396,839	427,734	444,964	485,435	492,639	494,946
Stanford U.	839,839	907,971	903,238	945,450	959,247	1,022,551	1,066,269	1,109,708	1,157,597	1,204,116	1,203,950	1,274,483	1,384,555	1,537,846
Touro U., California	1,221	1,779	2,237	2,155	3,067	3,106	3,466	3,122	3,233	3,543	3,551	3,489	2,561	2,877
U. of the Pacific	6,120	4,704	5,291	4,563	4,088	2,734	3,013	2,155	3,014	3,078	1,713	1,371	1,835	1,972
U. San Diego	2,934	3,483	4,275	4,554	5,146	4,476	4,734	5,089	5,642	6,036	8,607	7,580	10,143	12,902
U. San Francisco	2,124	2,668	4,301	2,663	2,764	2,599	2,365	2,602	2,741	2,712	2,161	1,375	2,657	9,633
U. Southern California	592,791	603,294	623,544	645,636	687,222	691,031	702,866	764,322	891,625	909,683	941,198	955,565	1,039,905	1,154,804
Western U. of Health Sciences	1,786	1,768	3,005	3,721	5,474	4,904	6,895	6,187	5,140	4,951	5,899	6,688	9,029	8,929
Colorado														
Public														
Colorado School of Mines	44,879	48,704	58,836	59,091	59,695	58,349	60,931	59,477	60,372	70,397	78,517	81,443	98,404	104,297
Colorado State U., Fort Collins	302,896	330,784	375,919	313,238	307,978	317,219	331,862	338,404	374,955	398,477	407,302	447,197	456,911	498,073
Colorado State U., Pueblo	413	364	ne	ne	ne	ne	ne	ne	ne	3,107	3,104	2,990	3,117	1,624
Fort Lewis C.	392	606	ne	ne	ne	ne	ne	ne	ne	1,460	1,370	1,926	2,765	3,372
U. Colorado Anschutz Medical Campus ^a	na	na	na	na	na	na	na	na	na	na	na	562,855	611,358	686,026
U. Colorado Boulder	349,449	390,677	392,004	385,849	379,475	420,775	453,123	499,389	514,573	513,822	525,674	547,724	611,380	651,924
U. Colorado Colorado Springs	9,088	7,425	4,727	4,721	5,363	6,988	6,812	6,680	5,976	4,720	5,557	5,338	7,761	7,012
U. Colorado Denver ^a	na	na	na	na	na	na	na	na	na	na	na	18,039	18,080	22,530
U. Northern Colorado	2,607	2,078	2,896	3,034	4,176	3,652	4,028	4,538	5,089	4,571	3,738	3,159	3,308	9,064
U.S. Air Force Academy	62,097	73,607	56,044	57,164	44,663	38,326	55,358	48,287	35,925	43,941	42,197	32,086	36,506	44,880

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Public														
Florida A&M U.	53,474	53,326	52,263	51,149	46,367	46,522	45,390	37,578	39,682	42,470	41,319	47,124	50,636	65,159
Florida Atlantic U.	56,472	62,024	65,377	23,967	22,997	21,214	26,750	46,025	48,024	51,085	53,845	58,471	61,748	77,593
Florida Gulf Coast U.	13,906	17,051	14,393	14,204	9,626	8,992	7,335	6,025	5,115	5,907	6,671	8,197	9,896	24,899
Florida International U.	110,271	110,006	118,058	128,070	132,531	163,033	170,846	177,292	196,180	225,864	236,842	246,075	281,665	306,434
Florida Polytechnic U.	na	na	na	na	na	212	ne	ne	ne	2,006	1,091	1,269	1,725	2,260
Florida State U.	227,329	230,411	225,378	250,877	252,548	256,449	268,288	282,901	297,661	329,205	350,430	328,604	355,986	414,463
New C. Florida	660	1,046	945	ne	897	ne	ne	998	ne	ne	ne	ne	ne	1,080
U. Central Florida	117,985	109,190	116,891	126,681	185,555	215,519	198,211	200,387	215,332	225,085	213,757	218,596	221,488	247,259
U. Florida	681,548	739,931	696,985	695,063	708,526	739,522	791,294	801,418	865,093	928,639	942,223	959,965	1,085,834	1,250,201
U. North Florida	8,041	9,379	7,031	4,480	3,674	3,689	5,141	6,476	9,994	12,341	13,573	15,782	18,394	23,269
U. South Florida ^b	385,029	394,963	443,206	459,409	488,641	485,354	505,965	557,889	385,686	391,325	333,344	385,965	405,166	461,390
U. West Florida	17,757	21,710	16,221	19,332	19,579	31,232	40,815	35,054	41,035	38,555	37,397	36,837	38,870	40,454
Private														
Embry-Riddle Aeronautical U.	12,189	16,289	19,376	16,484	15,393	11,942	16,761	13,335	16,767	12,478	17,786	19,830	28,650	27,451
Florida Institute of Technology	12,054	14,523	17,100	13,298	14,255	14,282	18,860	18,180	17,378	17,876	18,271	23,195	17,706	16,859
Nova Southeastern U.	10,116	12,322	12,908	12,712	13,716	14,775	19,559	22,508	23,296	24,567	26,035	24,513	31,189	50,173
U. Miami	280,671	323,486	365,301	344,757	345,805	331,036	358,441	367,877	357,104	360,716	381,410	375,841	439,300	509,951
Georgia														
Public														
Albany State U.	740	1,416	2,225	1,658	1,549	1,356	1,496	1,393	1,301	1,491	1,060	880	ne	1,932
Augusta U.	na	na	na	64,033	64,118	67,737	71,338	99,661	99,081	96,502	103,961	116,480	127,313	139,121
Fort Valley State U.	5,310	3,850	3,665	3,688	4,547	4,320	5,138	5,374	3,916	4,563	4,921	4,842	9,969	15,536
Georgia Institute of Technology	615,833	655,375	688,905	730,488	725,550	765,370	790,706	804,301	891,728	960,167	1,048,988	1,114,481	1,231,485	1,405,080
Georgia Southern U.	3,704	3,912	5,719	18,069	20,245	17,152	17,395	16,084	12,978	11,166	12,166	37,201	36,362	40,026
Georgia State U.	81,015	92,725	91,148	111,999	123,915	139,596	161,314	200,171	201,235	195,572	202,451	206,472	215,908	237,493
Kennesaw State U.	1,854	1,961	3,511	5,062	2,192	4,762	8,279	9,510	11,214	12,850	17,954	18,880	21,705	32,497
Savannah State U.	1,874	2,700	1,996	2,613	2,210	1,801	2,267	1,407	1,793	1,720	1,804	1,804	1,888	1,706
U. Georgia	295,339	335,901	351,395	350,225	355,471	374,264	410,345	455,432	453,249	477,536	482,786	493,944	545,631	570,956
U. North Georgia	ne	ne	ne	ne	ne	ne	ne	2,064	2,465	2,068	1,905	1,415	1,734	1,643
Private														
Clark Atlanta U.	8,515	8,245	10,406	9,159	9,192	9,945	8,513	8,007	7,833	9,048	8,452	8,892	8,791	10,320
Emory U.	529,453	547,316	565,766	575,943	558,600	585,210	614,527	664,888	712,417	794,928	808,792	852,922	958,281	1,094,328
Mercer U.	27,298	29,039	31,376	28,892	30,209	32,838	31,735	29,447	34,197	44,128	49,116	51,989	50,222	45,247
Morehouse C.	7,857	8,485	9,113	9,581	7,349	6,180	4,315	3,667	4,531	4,564	4,825	4,533	5,664	5,750
Morehouse School of Medicine	30,669	33,946	37,586	36,638	41,858	33,367	38,774	36,925	33,215	31,289	29,813	32,637	42,489	57,125

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Spelman C.	3,181	2,273	2,148	1,602	1,595	1,524	1,929	2,079	2,350	2,751	2,750	2,282	2,686	4,877
Hawaii														
Public														
U. Hawaii, Hilo	14,857	9,934	22,003	16,009	9,323	14,495	11,287	7,008	7,133	6,864	6,992	7,411	8,001	8,112
U. Hawaii, Manoa	303,085	318,316	312,311	326,750	324,342	316,497	304,476	292,021	276,388	280,416	275,929	271,768	277,323	313,143
U. Hawaii, Maui C.	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	967	ne	1,376
U. Hawaii, system office	ne	ne	ne	ne	ne	ne	ne	ne	12,340	12,159	13,568	12,918	12,646	14,172
Private														
Hawaii Pacific U.	ne	1,436	1,390	1,043	1,524	1,241	2,371	2,175	2,114	1,980	1,796	1,849	3,302	2,913
Idaho														
Public														
Boise State U.	18,731	24,204	27,920	25,690	26,568	31,341	32,085	34,992	41,382	39,824	43,307	46,065	47,617	52,989
Idaho State U.	20,495	21,450	21,179	22,147	20,610	17,866	20,447	18,564	18,081	14,972	14,478	13,953	16,615	17,548
U. Idaho	87,207	96,229	97,227	95,891	95,594	97,493	102,457	109,537	111,590	113,107	112,810	105,895	115,603	135,901
Illinois														
Public														
Chicago State U.	1,598	2,014	565	ne	ne	ne	910	ne	1,154	898	ne	ne	3,701	3,756
Illinois State U.	18,417	17,833	17,760	17,589	19,159	18,742	20,408	20,080	21,055	27,082	31,539	24,152	25,510	32,961
Northeastern Illinois U.	711	533	ne	ne	703	ne	ne	1,403	2,442	2,478	2,018	1,913	2,224	2,262
Northern Illinois U.	27,036	21,748	21,823	23,027	16,427	17,722	21,225	19,150	23,280	26,570	25,420	25,261	27,068	29,134
Southern Illinois U., Carbondale	69,924	71,130	71,097	70,854	65,256	57,509	53,172	48,416	49,636	41,729	41,617	47,210	46,967	58,291
Southern Illinois U., Edwardsville	31,781	33,736	26,992	25,807	18,915	19,051	18,780	17,393	18,420	18,088	18,273	18,044	19,152	21,927
U. Illinois, Chicago	362,939	380,828	388,625	367,848	347,888	354,560	337,296	372,619	361,690	382,949	412,147	429,585	440,573	492,936
U. Illinois, Springfield	2,096	2,002	2,370	2,276	1,916	2,070	1,683	2,900	2,164	1,876	3,406	2,612	2,881	2,508
U. Illinois, Urbana-Champaign	515,133	545,669	583,754	743,487	621,733	639,817	625,180	642,084	652,709	677,523	689,176	731,268	765,909	821,023
Western Illinois U.	1,221	1,528	4,514	1,983	1,349	860	ne	2,006	2,466	2,373	2,461	3,532	4,311	3,824
Private														
DePaul U.	4,889	5,798	5,706	5,524	6,415	9,479	9,558	8,561	7,079	6,144	6,557	6,675	8,362	13,267
Erikson Institute	ne	1,212	2,511	2,001	1,321	2,397	3,117	3,965	3,583	2,279	1,992	1,723	2,068	2,414
Illinois Institute of Technology	36,554	44,463	32,576	36,722	31,356	34,336	29,826	32,659	33,280	34,334	29,122	29,698	29,791	33,021
Loyola U., Chicago	43,903	42,708	45,903	51,676	50,774	48,664	42,672	39,738	39,332	39,223	39,365	44,036	46,169	52,445
Midwestern U.	3,626	4,022	5,200	6,292	7,310	8,560	7,732	9,207	10,173	10,343	10,479	10,961	11,069	12,725
Northwestern U.	575,078	618,980	631,078	639,781	645,333	656,167	713,491	751,809	805,672	857,069	874,671	913,178	1,000,695	1,114,269
Rosalind Franklin U. of Medicine and Science	12,426	14,261	15,587	17,401	17,794	16,604	16,760	17,006	16,765	16,126	14,601	13,805	12,988	11,629
Rush U.	73,398	79,212	80,300	81,770	80,551	79,048	73,351	74,062	89,101	96,267	94,438	107,398	114,874	132,394
Toyota Technological Institute, Chicago	ne	746	ne	ne	ne	2,543	2,710	2,880	3,251	3,681	5,887	4,967	4,470	4,636

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
U. Chicago	437,721	453,562	419,631	402,621	390,082	412,536	420,997	433,328	423,993	459,171	458,891	497,651	591,805	628,302
Wheaton C., Wheaton	ne	1,187	844	ne	1,302	783	ne	1,270	1,751	2,173	1,322	729	ne	2,403
Indiana														
Public														
Ball State U.	20,477	18,765	11,740	10,357	9,209	10,548	11,763	8,797	11,163	12,145	9,429	8,826	9,932	11,650
Indiana State U.	1,541	1,980	1,857	1,238	1,436	1,541	1,763	1,284	1,323	1,682	1,471	1,042	1,354	1,327
Indiana U., Bloomington	177,520	184,096	184,486	197,897	206,039	485,076	508,766	540,421	566,907	668,157	710,850	695,258	751,309	853,056
Indiana U., South Bend	1,070	1,099	1,219	1,410	1,565	1,619	1,474	1,039	958	ne	ne	898	ne	1,593
Indiana U.-Purdue U., Indianapolis	296,194	322,617	316,914	332,760	324,261	55,973	57,853	58,056	60,501	67,635	70,778	65,330	64,162	87,648
Purdue U., Fort Wayne	8,523	8,864	8,570	8,128	7,882	7,052	5,952	5,254	4,945	2,416	2,264	2,495	2,134	2,804
Purdue U., Northwest	na	na	na	na	na	na	na	8,924	8,062	5,272	5,839	5,647	6,387	7,504
Purdue U., West Lafayette	548,980	578,231	602,501	595,739	564,923	558,611	606,302	622,813	631,574	663,927	687,144	679,482	754,627	844,570
Private														
Butler U.	ne	610	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,691	1,396
Marian U., Indianapolis	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	3,009
U. Notre Dame	110,369	134,410	157,691	175,220	182,228	190,954	202,216	212,823	219,993	240,078	227,535	240,324	280,604	331,943
Iowa														
Public														
Iowa State U.	250,120	267,641	260,995	266,596	313,263	306,125	328,385	323,584	361,206	358,474	363,107	360,275	393,184	420,823
U. Iowa	444,034	443,893	446,429	435,377	449,147	443,218	473,362	494,280	511,973	508,353	538,583	553,876	594,215	662,134
U. Northern Iowa	3,064	4,248	3,615	3,678	3,711	4,032	3,632	3,303	2,983	3,628	2,970	3,259	3,486	4,564
Private														
Des Moines U.	855	924	ne	ne	929	ne	1,401	1,416	1,423	1,954	5,021	5,164	i	5,307
Drake U.	1,033	966	ne	918	ne	ne	1,558	1,215	1,103	865	ne	1,488	1,691	1,724
Grinnell C.	2,069	1,340	2,735	4,023	3,974	3,723	4,183	4,953	5,573	5,500	5,826	4,122	5,867	7,597
Palmer C. of Chiropractic, Davenport	4,693	4,861	4,507	3,774	2,736	i	1,698	1,510	1,836	1,600	1,650	1,900	2,233	1,725
Kansas														
Public														
Kansas State U.	160,679	169,167	176,141	183,096	184,945	188,721	193,254	196,478	218,299	218,622	213,900	203,846	212,974	217,992
Pittsburg State U.	1,759	1,687	1,479	1,536	2,475	2,210	2,162	2,255	2,253	2,513	2,173	2,730	2,884	2,979
U. Kansas	267,961	274,727	286,262	298,498	301,534	311,383	297,933	300,319	339,046	352,643	368,811	385,637	405,267	466,222
Wichita State U.	51,524	63,538	61,279	61,388	58,859	59,940	65,930	78,514	81,137	128,795	153,816	192,042	261,519	366,848
Kentucky														
Public														
Eastern Kentucky U.	3,531	3,782	3,404	2,845	2,221	1,681	1,486	1,248	1,142	1,125	1,010	986	ne	1,446
Kentucky State U.	4,912	4,562	6,859	5,605	5,694	6,017	7,178	8,151	i	9,125	8,433	7,963	8,756	9,284

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Morehead State U.	2,145	2,018	2,174	2,631	1,892	1,838	2,399	2,860	2,434	2,028	1,883	1,754	2,880	2,658
Murray State U.	3,396	3,718	3,345	2,192	2,080	2,371	2,124	2,459	2,872	3,710	3,019	3,844	3,371	3,193
Northern Kentucky U.	2,316	2,397	2,201	1,810	2,052	2,026	1,846	1,649	1,653	2,363	2,693	3,403	3,888	3,790
U. Kentucky	359,944	372,932	360,776	339,764	328,239	331,705	349,661	378,374	393,034	410,581	417,674	429,241	476,517	504,005
U. Louisville	189,090	197,438	196,842	186,772	183,376	163,262	172,907	177,588	176,655	177,862	198,818	200,362	229,582	220,568
Western Kentucky U.	9,943	8,344	10,639	9,322	8,280	7,854	8,926	10,814	9,617	9,281	8,241	6,944	7,720	9,298
Louisiana														
Public														
Grambling State U.	993	2,135	2,179	1,695	1,469	1,863	1,570	5,911	2,981	2,836	2,427	2,124	1,287	449
Louisiana State U., Baton Rouge	289,872	287,841	285,395	283,400	290,076	281,154	291,972	265,168	286,726	296,497	286,733	296,673	344,556	384,268
Louisiana State U., Health Sciences Center, New Orleans	59,776	57,007	53,712	49,443	45,486	46,840	43,067	40,785	38,989	40,914	43,419	44,370	53,995	68,707
Louisiana State U., Health Sciences Center, Shreveport	30,817	31,021	29,365	28,266	25,004	24,069	23,353	22,560	24,463	26,262	25,321	24,600	29,502	35,624
Louisiana Tech U.	26,020	27,583	26,546	24,949	22,942	23,827	23,104	22,741	24,655	26,143	26,585	27,417	26,591	31,676
Northwestern State U. Louisiana	1,464	1,189	1,102	1,022	792	ne	1,628	1,373	1,623	2,058	1,940	1,663	1,848	2,057
Southeastern Louisiana U.	2,561	1,952	2,121	2,067	1,503	2,670	2,128	2,206	2,039	1,971	2,258	1,723	2,407	2,858
Southern U. and A&M C., Agricultural Research and Extension Center	ne	6,143	8,122	5,530	5,606	4,761	4,704	5,000	5,296	5,448	4,475	6,164	7,048	7,764
Southern U. and A&M C., Baton Rouge	6,865	6,819	6,773	4,920	4,812	4,766	4,322	4,043	4,171	4,492	3,849	4,943	4,344	5,201
Southern U., New Orleans	402	706	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,004
U. Louisiana, Lafayette	69,412	69,978	65,275	61,887	67,580	77,300	80,099	100,956	124,713	144,187	164,070	181,400	205,201	225,924
U. Louisiana, Monroe	2,884	2,812	2,469	2,781	2,267	1,672	2,441	2,297	2,123	2,364	2,362	2,198	3,128	2,203
U. New Orleans	35,021	35,359	28,450	24,607	20,614	18,960	15,719	15,939	14,437	15,328	16,594	16,979	21,911	20,396
Private														
Dillard U.	8,425	7,936	7,448	7,741	6,939	9,387	9,566	7,095	6,573	2,772	2,523	2,528	2,270	2,296
Tulane U.	165,513	171,703	164,373	160,414	157,825	152,658	165,438	180,993	193,294	196,933	204,430	205,206	222,605	258,439
Xavier U. Louisiana	8,029	9,849	10,606	8,789	9,346	9,588	12,084	12,424	11,784	10,152	11,387	12,799	14,156	15,519
Maine														
Public														
U. Maine	111,282	111,600	92,135	77,583	101,247	79,500	79,222	99,502	106,694	129,913	134,183	146,801	171,931	188,690
U. Southern Maine	16,358	16,938	13,915	11,725	9,408	7,091	4,773	7,147	7,414	6,654	5,635	5,480	5,498	5,930
Private														
Bates C.	1,590	1,897	2,070	2,514	1,584	2,791	1,781	1,853	1,635	2,135	2,303	2,620	2,468	2,118
Bowdoin C.	2,627	2,877	4,732	4,292	3,126	2,991	3,204	2,340	2,724	2,991	2,719	2,417	2,648	3,339
Colby C.	1,782	1,772	1,996	1,822	1,673	1,748	1,903	2,071	2,240	1,852	1,536	1,672	2,530	4,454
U. New England	3,560	4,016	5,224	6,637	7,650	7,498	7,566	8,064	6,700	7,346	6,886	6,234	6,664	6,756

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Maryland														
Public														
Bowie State U.	ne	1,910	1,739	1,422	1,761	1,497	1,927	1,813	1,839	1,911	1,967	1,398	3,351	2,612
Morgan State U.	12,804	12,803	17,751	15,475	15,720	13,577	15,727	14,978	12,993	13,253	17,193	20,628	29,482	43,868
Salisbury U.	3,503	1,852	6,891	6,959	7,923	7,960	8,473	7,731	9,119	9,368	9,496	10,552	10,614	14,557
St. Mary's C. Maryland	342	427	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	205
Towson U.	3,052	3,574	2,599	2,800	2,997	3,153	2,303	2,834	3,194	3,423	3,612	3,794	8,788	17,198
U. Baltimore	4,229	5,944	5,556	5,448	4,990	5,022	5,798	6,851	10,556	12,451	15,054	14,672	6,646	6,615
U. Maryland ^c	na	na	na	na	na	na	na	na	na	1,096,600	1,103,062	1,142,264	1,228,550	1,385,302
U. Maryland Center for Environmental Science	42,670	50,007	48,224	53,683	50,814	52,235	54,974	55,078	54,136	56,033	54,560	51,201	53,718	53,233
U. Maryland, Baltimore County	87,156	91,657	74,993	71,819	67,833	68,688	70,166	70,406	71,481	80,632	83,867	84,418	110,319	144,262
U. Maryland, Eastern Shore	8,692	8,664	7,309	8,826	8,982	9,700	8,250	7,403	4,941	7,133	8,092	8,636	9,274	10,730
U.S. Naval Academy	11,093	10,543	9,610	10,816	10,861	9,609	11,374	13,541	14,057	13,621	13,123	10,818	10,664	10,920
Uniformed Services U. of the Health Sciences	134,126	175,365	143,250	164,232	262,489	361,173	256,203	298,370	308,326	417,300	324,510	384,490	277,240	496,441
Private														
Johns Hopkins U. ^d	2,004,482	2,145,308	2,106,185	2,168,568	2,242,478	2,305,679	2,431,180	2,562,307	2,661,033	2,917,436	3,110,494	3,181,385	3,420,312	3,801,585
Massachusetts														
Public														
Framingham State U.	ne	ne	ne	ne	ne	ne	ne	1,901	164	ne	2,317	1,790	1,263	735
U. Massachusetts, Amherst	169,141	181,297	194,775	190,739	200,199	213,902	214,576	210,416	211,140	223,177	219,389	213,824	245,158	268,657
U. Massachusetts, Boston	56,416	57,040	60,086	60,380	61,186	62,374	64,223	70,019	61,473	62,018	64,219	63,723	65,215	70,978
U. Massachusetts, Dartmouth	25,725	25,644	22,732	27,326	28,219	26,776	26,824	26,102	26,626	28,036	26,836	28,729	33,136	42,018
U. Massachusetts, Lowell	59,345	60,013	60,624	63,136	64,591	70,384	68,494	69,677	72,266	83,996	92,216	94,708	111,144	117,336
U. Massachusetts, Medical School	232,039	262,714	256,090	245,923	241,869	250,338	253,099	279,884	274,211	281,507	279,096	347,337	358,204	326,731
Private														
Amherst C.	3,628	4,623	5,448	6,275	4,308	4,412	4,260	4,070	4,849	6,325	4,906	4,636	7,177	8,152
Babson C.	ne	696	ne	ne	ne	ne	2,108	1,849	1,917	1,845	2,352	1,286	1,825	1,957
Bentley U.	ne	ne	ne	ne	ne	ne	ne	562	ne	ne	ne	ne	1,161	1,589
Boston C.	50,537	52,253	51,442	50,702	49,724	47,761	54,469	58,088	57,030	61,956	63,063	65,156	68,958	81,425
Boston U.	352,817	355,916	334,496	368,281	367,328	388,336	395,921	421,360	484,205	534,205	583,267	652,096	725,402	773,200
Brandeis U.	71,006	74,889	74,660	76,060	74,992	74,700	73,435	68,437	61,639	60,825	91,355	95,001	102,378	103,653
Clark U.	7,111	6,861	7,260	5,693	6,168	7,050	6,970	8,453	8,318	10,193	10,277	7,931	8,813	11,539
Franklin W. Olin C. of Engineering	ne	1,016	1,777	1,157	1,561	2,136	1,762	1,553	1,254	1,655	1,404	1,627	2,554	2,450
Harvard U.	583,361	649,774	799,432	1,012,766	933,975	1,013,753	1,077,253	1,123,160	1,173,371	1,239,736	1,239,983	1,254,008	1,308,458	1,435,218
Massachusetts Institute of Technology	677,138	723,610	824,130	900,524	908,017	930,719	946,159	952,017	964,336	1,009,466	987,968	949,076	989,166	1,000,081
Merrimack C.	ne	ne	ne	ne	ne	ne	ne	ne	796	ne	503	ne	ne	1,560

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
MGH Institute of Health Professions	ne	607	ne	ne	ne	3,931	2,548	2,282	3,328	4,130	3,549	3,037	5,805	7,426
Mount Holyoke C.	2,788	3,317	3,323	3,118	3,871	3,826	3,403	3,635	3,027	2,979	2,016	2,026	2,112	2,533
New England C. of Optometry	1,457	1,751	2,237	2,172	1,234	1,077	980	ne	1,026	1,223	1,150	1,978	1,868	2,491
Northeastern U.	79,949	86,783	107,862	116,088	116,245	122,915	129,040	142,349	166,711	183,998	200,068	211,342	231,607	288,558
Smith C.	4,613	4,529	4,246	4,234	4,283	5,268	4,466	6,055	5,954	6,041	4,685	4,085	5,831	5,954
Suffolk U.	ne	1,624	1,303	1,551	1,534	1,305	1,492	i 1,679	i ne	ne	2,106	2,043	1,401	5,164
Tufts U.	156,106	156,395	160,922	156,525	160,825	168,314	189,085	223,409	213,457	213,285	216,241	224,956	231,224	247,276
Wellesley C.	8,422	7,242	8,439	9,113	10,127	9,595	11,664	10,326	11,530	8,810	8,088	6,252	6,326	6,320
Western New England U.	ne	1,111	483	ne	ne	ne	1,291	610	ne	ne	ne	ne	2,052	1,115
Williams C.	4,691	4,513	4,518	3,857	4,440	5,679	5,747	5,227	5,506	5,188	4,924	i 4,902	i 5,657	i 6,448
Woods Hole Oceanographic Institution	181,746	198,775	204,352	198,232	220,016	216,592	212,374	194,088	204,400	229,143	227,573	262,048	255,017	287,825
Worcester Polytechnic Institute	18,613	22,137	20,232	25,298	29,929	36,130	37,822	33,368	33,067	39,878	43,092	48,702	56,904	66,353
Michigan														
Public														
Central Michigan U.	7,483	8,671	10,907	12,879	15,015	12,880	14,166	14,652	15,616	17,102	17,448	21,726	25,105	25,363
Eastern Michigan U.	14,133	11,643	12,437	3,128	1,428	1,761	3,815	6,281	6,600	7,175	9,088	7,233	8,025	8,363
Ferris State U.	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,915
Grand Valley State U.	5,044	6,429	i 7,814	i 9,202	8,198	7,453	6,764	6,917	6,968	6,592	6,792	6,809	6,695	6,231
Lake Superior State U.	ne	752	ne	ne	ne	1,170	1,039	1,067	633	ne	ne	ne	2,056	2,545
Michigan State U.	431,373	454,248	507,061	515,707	526,906	558,248	613,369	694,917	715,290	725,708	713,197	710,178	759,229	844,076
Michigan Technological U.	63,471	70,089	71,989	70,689	68,526	69,607	72,536	71,629	78,678	80,443	77,927	81,715	91,084	103,819
Northern Michigan U.	910	841	ne	ne	ne	ne	1,118	1,339	1,728	1,520	1,523	1,364	1,888	1,871
Oakland U.	12,856	15,868	18,194	16,767	15,196	17,108	16,001	14,561	13,817	18,002	12,949	20,261	38,061	37,263
Saginaw Valley State U.	873	1,249	1,094	939	ne	1,220	1,190	1,406	1,640	2,818	2,343	2,428	i 2,862	i 3,143
U. Michigan, Ann Arbor	1,184,445	1,279,123	1,322,711	1,375,117	1,349,262	1,369,278	1,436,448	1,530,139	1,600,869	1,675,805	1,673,862	1,639,645	1,770,708	1,925,875
U. Michigan, Dearborn	6,779	7,554	6,015	6,846	8,176	7,802	7,904	8,315	8,094	8,813	8,777	7,472	8,180	10,839
Wayne State U.	254,492	259,895	227,070	224,331	218,435	213,878	221,537	227,728	238,859	244,217	243,259	235,519	242,247	250,911
Western Michigan U. and Homer Stryker M.D. School of Medicine	26,391	25,051	21,073	18,979	18,942	19,679	18,927	22,372	21,184	25,071	24,541	25,314	27,768	45,157
Private														
Albion C.	ne	799	ne	ne	ne	ne	ne	1,074	1,055	1,040	1,132	847	i 562	i 276
Andrews U.	1,195	854	ne	ne	ne	ne	ne	ne	ne	1,126	1,033	802	ne	1,255
Calvin U.	5,010	3,113	3,252	3,466	3,051	2,430	i 1,809	1,456	1,937	1,577	2,107	i 2,637	i 3,169	2,555
Hope C.	3,596	4,185	3,376	3,559	3,016	2,932	2,811	3,225	3,179	2,745	3,822	5,211	6,355	6,910
Lawrence Technological U.	3,952	3,348	1,483	2,022	1,876	2,528	1,907	1,942	1,668	1,352	1,521	1,764	3,050	4,632
U. Detroit Mercy	1,148	1,462	970	ne	1,320	1,882	3,654	2,748	4,605	5,210	4,786	4,578	5,186	5,142
Van Andel Research Institute	ne	ne	ne	ne	ne	40,502	40,040	44,578	55,171	61,738	58,982	65,789	78,626	80,748

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023					
Minnesota																			
Public																			
Minnesota State U., Mankato	3,837	2,654	2,082	2,640	3,310	2,294	4,034	2,471	2,943	3,392	2,754	2,170	2,206	3,055					
St. Cloud State U.	4,184	3,404	2,932	2,912	3,380	4,192	3,497	3,588	3,725	3,275	3,056	2,379	2,226	2,901					
U. Minnesota, Duluth	21,150	23,400	21,530	21,383	21,904	27,550	27,528	24,956	25,189	27,530	26,137	23,767	23,362	25,534					
U. Minnesota, Twin Cities	786,074	847,419	826,173	858,378	876,870	880,618	910,181	921,681	954,683	1,013,112	1,042,382	1,072,961	1,202,084	1,320,183					
Private																			
C. of Saint Benedict	ne	867	ne	1,347	1,451	1,179	1,305	1,122	1,142	1,126	i	1,069	i	1,064	i	1,228	i	1,400	i
Carleton C.	4,575	5,382	4,957	5,848	5,657	6,746	6,385	6,888	5,515	4,388	3,732	3,800	4,358	4,185					
Gustavus Adolphus C.	310	330	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	969					
Macalester C.	4,389	4,653	1,721	1,457	1,455	1,286	1,562	1,916	1,404	1,808	1,755	1,280	1,691	1,935					
Saint John's U.	640	891	ne	1,444	1,623	1,372	1,459	1,267	1,208	1,191	i	1,130	i	1,125	i	1,298	i	1,479	i
St. Olaf C.	1,574	1,130	1,518	1,242	1,353	1,346	1,605	1,539	1,155	1,010	1,032	816	ne	1,724					
U. of St. Thomas (MN)	1,330	1,316	1,030	1,424	916	ne	1,266	1,241	1,645	1,870	2,679	5,146	2,476	2,280					
Mississippi																			
Public																			
Alcorn State U.	10,280	11,397	11,515	11,315	10,060	9,396	8,204	16,129	13,834	14,435	13,710	14,188	16,664	i	19,141				
Jackson State U.	44,862	49,998	46,943	36,264	26,609	23,908	23,832	22,790	19,465	18,160	15,081	16,157	17,481	19,457					
Mississippi State U.	231,675	226,070	233,197	206,424	209,729	226,359	239,446	240,972	244,102	264,526	280,485	275,143	303,418	319,684					
U. Mississippi	110,020	122,765	121,731	108,168	109,922	94,040	121,665	134,542	137,521	158,809	122,960	116,175	152,903	172,176					
U. Southern Mississippi	42,059	46,591	60,079	51,962	51,938	51,840	59,363	61,659	61,336	76,464	72,322	67,417	72,477	75,034					
Private																			
Tougaloo C.	2,978	2,753	2,613	2,639	2,285	2,689	2,473	3,030	3,173	3,380	2,102	2,092	i	2,336	i	2,663	i		
Missouri																			
Public																			
Lincoln U., Jefferson City	8,475	8,518	7,899	6,585	6,742	6,296	5,826	5,164	4,215	4,581	5,777	7,621	11,500	8,196					
Missouri State U.	7,770	5,584	4,340	3,882	3,782	3,540	3,069	3,215	4,409	5,910	13,131	10,014	11,162	14,654					
Missouri U. of Science and Technology	42,263	41,581	38,588	40,397	39,065	35,842	35,756	38,243	42,986	47,807	47,001	54,437	53,357	61,496					
U. Missouri, Columbia	238,500	230,957	239,810	236,423	237,266	246,684	280,051	293,006	294,686	310,421	332,180	388,779	432,310	462,435					
U. Missouri, Kansas City	30,163	32,769	29,227	28,829	29,164	26,595	26,292	25,123	25,136	31,956	36,356	33,855	52,657	54,565					
U. Missouri, Saint Louis	14,628	18,461	19,356	20,869	18,618	12,061	13,460	12,042	12,266	14,432	15,352	14,632	13,247	12,808					
Private																			
Saint Louis U.	46,839	53,179	49,086	48,231	44,481	44,457	42,151	56,402	60,380	66,103	69,528	79,005	82,740	85,921					
U. of Health Sciences and Pharmacy in St. Louis	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	4,835	5,313	4,280	4,343					
Washington U., Saint Louis	695,974	725,039	706,410	684,847	664,752	694,069	741,115	754,462	816,139	887,088	920,215	989,214	1,047,098	1,168,861					
Montana																			

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Public														
Montana State U., Bozeman	135,084	125,966	124,228	113,136	113,348	108,414	112,073	129,622	125,129	154,811	166,285	193,577	200,820	229,682
Montana Technological U.	7,424	6,705	11,765	11,059	11,348	11,595	11,851	13,059	12,666	12,731	12,987	14,933	14,188	18,375
U. Montana, Missoula	63,540	60,159	59,313	60,189	55,032	60,485	70,059	85,044	90,563	104,665	110,218	121,571	125,603	133,958
Nebraska														
Public														
U. Nebraska, Kearney	1,655	2,199	1,715	1,761	1,504	1,496	1,864	3,510	2,639	2,919	2,640	3,201	4,009	3,681
U. Nebraska, Lincoln and Medical Center ^e	na	na	na	na	na	na	na	na	na	na	na	na	na	617,372
U. Nebraska, Omaha	8,951	9,509	8,376	9,181	9,222	9,422	10,459	12,061	12,943	14,302	16,134	19,006	24,259	30,841
Private														
Creighton U.	27,700	31,443	32,594	29,983	25,560	23,825	23,510	24,315	20,587	24,039	20,339	23,251	27,609	28,443
Nevada														
Public														
Desert Research Institute	34,367	35,331	33,056	27,695	23,778	22,103	29,422	29,440	27,875	26,991	26,428	26,365	28,478	30,716
Nevada State C.	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,191	1,744
U. Nevada, Las Vegas	44,457	39,526	34,543	35,935	39,448	42,000	62,825	66,285	83,800	99,445	105,872	101,009	94,967	98,751
U. Nevada, Reno	95,423	89,740	85,726	89,797	87,324	90,138	95,475	105,869	144,426	152,128	159,790	175,386	181,782	188,505
Private														
Roseman U. of Health Sciences	ne	840	ne	ne	3,021	3,287	3,433	4,167	3,973	4,176	4,380	5,985	6,296	6,065
New Hampshire														
Public														
U. New Hampshire	115,562	143,002	165,156	147,446	147,544	144,735	145,015	145,375	146,430	148,980	156,901	167,373	206,392	223,683
Private														
Dartmouth C. and Dartmouth Hitchcock Medical Center	194,141	210,631	195,930	201,591	212,606	209,646	233,636	308,445	323,927	323,020	326,349	330,226	344,126	366,856
New Jersey														
Public														
C. New Jersey	850	486	ne	ne	ne	ne	ne	1,078	949	ne	1,464	1,912	3,464	2,641
Kean U.	ne	1,497	2,029	761	ne	1,064	908	ne	ne	ne	2,201	3,538	5,499	10,062
Montclair State U.	2,255	3,621	5,123	4,568	4,266	4,274	5,207	5,796	7,980	15,588	17,636	17,390	32,202	38,209
New Jersey Institute of Technology	92,318	100,491	102,851	107,310	106,081	110,512	130,812	142,164	162,349	161,232	163,447	166,587	167,135	161,078
Rowan U.	2,987	3,247	3,783	3,407	8,202	8,044	10,212	12,856	16,247	22,892	26,018	26,458	29,949	47,810
Rutgers, State U. New Jersey, Camden	3,574	5,079	3,810	5,722	4,919	5,123	4,250	5,103	3,264	3,211	3,950	5,142	6,480	9,527
Rutgers, State U. New Jersey, New Brunswick	428,432	432,306	434,901	493,320	644,116	628,613	630,212	681,719	706,282	657,249	688,077	643,955	712,231	831,719
Rutgers, State U. New Jersey, Newark	27,745	35,774	34,797	37,134	28,083	24,387	21,492	25,898	27,206	26,661	28,006	23,854	28,345	29,787
Stockton U.	ne	1,455	927	ne	1,374	1,452	807	ne	2,560	2,634	4,236	1,246	1,657	2,386

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
William Paterson U.	1,051	1,452	ne	ne	ne	ne	1,919	3,012	9,456	10,122	9,603	7,867	7,574	533
Private														
Monmouth U.	2,195	1,956	904	ne	865	ne	900	ne	ne	1,294	1,729	1,667	1,938	2,517
Princeton U.	242,570	263,335	275,666	269,908	293,274	279,851	307,653	334,125	365,007	385,739	396,502	404,448	461,185	513,365
Seton Hall U.	4,003	7,701	6,398	6,489	6,675	7,058	7,244	7,272	6,536	7,056	5,718	5,320	5,741	7,068
Stevens Institute of Technology	35,544	41,622	31,929	28,908	30,826	34,082	35,765	35,144	33,060	36,695	44,747	43,386	53,563	60,685
New Mexico														
Public														
New Mexico Highlands U.	1,529	1,498	1,566	1,209	979	ne	1,111	1,023	952	ne	1,090	1,882 i	2,674 i	3,468
New Mexico Institute of Mining and Technology	51,696	43,857	37,875	32,499	48,338	26,265	19,598	20,491	21,383	24,616	24,591	28,745	89,900	118,735
New Mexico State U.	157,872	139,062	141,151	142,365	134,262	132,377	106,282	102,218	96,270	101,457	107,275	110,580	121,472	126,337
U. New Mexico	211,771	220,565	220,360	227,703	228,849	232,271	239,550	246,597	251,322	239,696	243,375	332,566	331,164	316,026
New York														
Public														
CUNY, Advanced Science Research Center	na	na	na	na	na	569	ne	3,541	5,666	8,310	11,373	15,403	16,507	17,309
CUNY, Baruch C.	2,616	2,645	3,605	2,264	2,183	2,451	2,998	2,543	2,817	2,387	2,396	2,521	3,156	4,084
CUNY, Brooklyn C.	6,846	9,306	9,216	8,064	9,407	9,091	9,602	7,393	6,600	6,837 i	7,074	6,318	6,220	8,535
CUNY, C. Staten Island	3,290	4,188	4,955	3,691	3,731	3,060	3,511	4,250	4,118 i	3,986	3,682	2,860	3,545	4,730
CUNY, City C.	46,699	60,648	57,982	55,138	52,654	53,223	62,484	54,627	53,979	52,738	45,632	57,361	65,569	63,159
CUNY, Graduate Center	11,562	11,974	9,173	11,982	7,797	6,175	7,093 i	8,011	4,781	5,399	4,787	4,265	5,509	54,089
CUNY, Graduate School of Public Health and Health Policy	na	na	na	na	na	na	na	na	9,751	9,521	12,177	15,035	16,423	26,651
CUNY, Hunter C.	38,900	39,772	41,022	40,059	38,879	36,368	37,094	31,273	33,702	37,478	38,345	33,816	35,348	37,172
CUNY, John Jay C. of Criminal Justice	5,916	6,205	9,319	7,355	8,633	8,689	9,688	11,934	14,310	12,295	13,939	11,791	16,233	22,967
CUNY, Lehman C.	3,593 i	3,762	3,228	2,904	3,265	3,130	5,347	4,979	5,556	4,690	4,154	4,181	4,656	5,918
CUNY, New York City C. of Technology	231	343	ne	ne	ne	ne	ne	ne	2,418	2,711	2,130	1,367	1,955	2,819
CUNY, Queens C.	16,845	23,219	22,399	19,762	23,434	19,092	19,168	15,936	16,676	18,391	16,470	16,063	21,434	25,492
CUNY, system office	ne	ne	1,817	1,210	1,088	1,782	1,655	1,114	3,253	2,619	1,704	1,664	2,900	4,296
CUNY, York C.	ne	2,180	1,544	999	ne	716	ne	ne	ne	1,621	1,691	1,133	1,912	1,711
SUNY, Binghamton U.	72,057	72,539	81,000	76,005	71,382	79,895	85,192	98,089	113,851	104,297	117,870	124,565	130,882	141,685
SUNY, Buffalo State U.	1,935	2,539	2,970	2,106	1,996	2,366	2,221	1,887	1,928	2,124	2,253	1,962	2,172	2,636
SUNY, C. Brockport	831	1,248	1,487	1,321	1,192	1,367	1,335	1,289	1,293	1,390	1,719	1,114	1,500	1,877
SUNY, C. of Environmental Science and Forestry	26,916	25,024 i	23,132 i	21,239	19,027	22,051	24,504	27,923	26,610	29,137	29,296	28,440	32,904	32,682
SUNY, C. of Optometry	3,529	3,738	3,466	3,637	3,481	3,906	4,169	3,304	3,120	2,968	3,477	3,460	4,497	4,423
SUNY, C. Plattsburgh	1,664	1,098	913	ne	1,008	1,135	1,020	1,003	1,604	1,729	1,452	1,280	1,043	1,722
SUNY, Cobleskill	1,414	938	ne	908	ne	ne	ne	ne	ne	ne	ne	ne	1,211	2,566
SUNY, Downstate Health Sciences U.	32,512	41,993	43,257	39,354	33,331	28,652	33,735	31,873	34,661	36,015	33,204	34,459	30,918	35,600

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
SUNY, Geneseo	1,373	2,677	2,132	1,201	1,084	1,314	1,750	1,758	1,939	2,139	1,642	2,070	2,091	1,958
SUNY, Oswego	783	977	ne	725	ne	ne	ne	1,658	1,982	1,781	1,534	1,003	1,209	1,595
SUNY, Polytechnic Institute	na	na	na	na	412,851	295,313	316,680	308,861	257,358	352,889	355,651	465,273	413,763	284,677
SUNY, Stony Brook U.	204,728	211,356	219,744	225,712	211,631	220,580	230,621	238,612	245,016	260,813	263,470	274,516	312,698	324,531
SUNY, U. Albany	359,364	148,625	137,758	137,759	130,955	111,705	120,232	156,386	173,031	181,531	138,088	114,501	129,796	141,671
SUNY, U. Buffalo	349,670	353,172	360,226	387,863	386,562	382,935	389,569	401,591	410,220	413,817	422,038	425,349	439,709	471,569
SUNY, Upstate Medical U.	43,824	39,988	35,897	34,286	33,460	32,453	31,892	35,551	36,674	38,091	41,557	44,870	50,586	53,219
U.S. Military Academy	22,171	13,799	12,227	11,630	14,819	15,312	13,500	13,617	13,582	10,765	12,473	19,696	20,841	20,493
Private														
Albany C. of Pharmacy and Health Sciences	3,074	3,496	2,639	2,637	3,200	2,533	1,789	2,567	2,732	3,383	3,765	3,687	2,276	2,594
Albany Medical C.	22,953	20,876	17,735	15,093	16,093	18,043	20,166	20,443	21,187	23,028	23,510	22,443	22,297	23,259
Albert Einstein C. of Medicine	na	na	na	na	na	na	289,660	289,685	297,328	298,824	288,654	301,715	318,314	336,238
Alfred U.	4,524	6,084	5,451	6,731	4,655	5,193	3,975	3,231	3,641	5,153	2,780	2,660	3,477	4,154
Barnard C.	3,353	4,046	3,684	2,931	2,738	2,916	3,534	3,730	3,458	4,010	3,748	4,632	4,988	6,320
Canisius U.	221	205	ne	ne	ne	ne	ne	1,546	1,069	950	ne	1,036	1,160	905
Clarkson U.	18,584	17,951	14,809	12,061	13,750	13,406	12,983	15,148	16,927	17,147	15,104	16,765	21,703	25,399
Cold Spring Harbor Laboratory	ne	89,913	84,072	78,236	76,733	84,653	88,943	97,288	115,870	126,773	115,198	114,903	118,034	117,483
Colgate U.	2,851	2,291	3,268	2,704	2,444	2,721	3,219	3,414	3,823	3,756	2,913	3,306	4,343	4,930
Columbia U. in the City of New York	807,235	878,900	889,487	889,188	890,642	868,159	837,312	893,062	947,504	1,003,615	1,032,909	1,098,570	1,230,924	1,341,952
Cornell U.	749,721	781,651	802,387	845,184	883,292	954,412	974,199	984,478	1,071,621	1,144,534	1,190,063	1,183,524	1,300,357	1,451,971
Fordham U.	19,289	18,350	19,311	18,822	17,961	20,939	25,374	20,807	20,644	20,287	20,456	16,731	20,432	23,832
Hamilton C.	3,192	3,109	3,069	2,942	2,846	2,291	2,662	2,354	1,796	2,050	1,869	1,747	1,879	3,285
Hobart and William Smith Colleges	1,434	1,566	1,516	2,238	1,221	946	ne	952	ne	1,919	2,114	1,941	3,228	2,373
Hofstra U.	2,552	2,472	3,237	2,394	3,102	2,585	2,440	1,702	1,662	1,744	1,445	5,545	6,939	8,162
Icahn School of Medicine at Mount Sinai	370,666	405,527	400,680	428,654	463,429	508,353	540,296	575,448	640,141	722,241	747,014	820,260	893,968	972,476
Ithaca C.	1,077	1,025	1,132	1,245	1,248	972	ne	ne	ne	ne	1,199	1,030	1,000	861
Long Island U.	832	877	890	915	ne	ne	1,420	2,290	2,405	5,113	13,997	15,059	17,183	16,612
Manhattan C.	498	638	ne	ne	ne	ne	ne	ne	ne	1,190	1,307	1,864	1,641	1,250
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	ne	2,342	2,562	2,979	3,356	3,089	3,177	3,285	3,502	3,769	3,737	3,776	4,954	5,324
New School	5,178	6,420	7,568	9,219	7,160	8,978	17,425	12,740	13,606	13,421	13,186	14,281	19,218	22,680
New York Institute of Technology	1,785	2,059	3,013	4,007	5,761	4,169	4,114	3,236	3,832	5,820	3,580	4,465	5,555	5,790
New York Medical C.	28,400	27,316	23,277	20,243	17,908	17,653	17,311	15,637	16,226	19,398	20,137	18,872	16,461	17,113
New York U.	365,944	430,752	458,645	471,909	523,623	602,041	809,739	917,744	887,558	934,720	947,293	1,063,704	1,276,038	1,457,424
Pace U.	3,085	3,732	4,214	3,611	4,373	4,647	5,359	5,028	4,282	3,855	4,272	3,649	3,524	4,056
Pratt Institute	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	2,547	2,325	1,558

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
U. Tulsa	23,387	19,489	20,270	21,757	27,077	25,066	22,347	20,879	20,072	18,648	18,787	17,187	17,416	24,845
Oregon														
Public														
Oregon Health and Science U.	314,990	334,324	305,530	308,767	314,802	326,915	331,524	348,449	372,180	415,629	446,890	452,812	479,226	517,742
Oregon Institute of Technology	ne	258	ne	ne	ne	2,056	4,027	3,595 i	3,163	4,793	4,267	4,314	5,086 i	5,585 i
Oregon State U.	216,595	228,814	240,507	232,677	230,963	245,317	254,275	267,068	272,433	263,830	268,385	276,955	297,934	337,985
Portland State U.	56,533	58,975	58,489	55,435	54,787	53,872	56,572	48,964	46,911	50,045	43,667	41,311	41,483	46,324
U. Oregon	94,107	103,019	105,030	94,522	91,203	79,698	100,754	95,974	111,896	110,664	114,259	139,193	160,500	164,500
Private														
Lewis and Clark C.	2,753	2,778	2,246	3,628	4,713	3,873	3,267	3,438	2,811	2,750	3,350	2,281	2,566	2,686
National U. of Natural Medicine	ne	791	ne	ne	ne	ne	ne	921	ne	1,245	1,428	850	ne	1,336
Pacific U.	1,849	1,129	2,110	2,535	2,122	2,016	2,508	7,770	6,264	8,753	5,842	4,690	6,128	10,719
Reed C.	1,904	1,839	1,837	2,395	3,124	3,050	3,213	1,415	2,607	3,240	5,155	5,132 i	5,922 i	6,750 i
Willamette U.	2,059	1,940	2,652	1,960	1,698	2,007	2,459	3,147	2,723	1,953	1,546	1,817	2,183	1,542
Pennsylvania														
Public														
East Stroudsburg U. Pennsylvania	ne	250	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,410	2,928
Indiana U. Pennsylvania	1,376	1,736	1,809	1,280	938	ne	1,241	2,291	6,450	8,119	6,531	6,180	6,313	6,052
Lincoln U.	1,425	1,336	1,622	965	ne	ne	ne	ne	645	ne	ne	ne	ne	628
Pennsylvania State U., Altoona	671	773	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,215
Pennsylvania State U., Behrend	3,265	3,183	3,374	3,203	4,282	3,737	5,382	3,804	2,760	3,414	1,743	5,509	6,384	7,614
Pennsylvania State U., Harrisburg	2,734	3,460	2,903	2,230	2,557	3,379	2,558	1,654	2,119	2,805	1,866	2,938	2,927	5,159
Pennsylvania State U., University Park and Hershey Medical Center	770,449	794,846	797,679	837,880	800,773	791,031	825,561	854,815	908,708	949,679	991,923	970,544	1,019,940	1,206,793
Temple U.	124,528	134,533	138,318	224,087	224,101	227,468	246,392	268,385	276,011	284,301	299,707	299,778	301,395	292,029
U. Pittsburgh, Pittsburgh	822,491	899,386	866,638	872,736	856,806	861,205	889,793	939,706	1,006,513	1,080,951	1,105,532	1,135,416	1,251,998	1,398,078
U.S. Army War C.	ne	ne	ne	ne	ne	ne	ne	ne	ne	4,418 i	ne	4,662 i	5,496 i	6,035 i
West Chester U. Pennsylvania	5,584 i	8,103	4,591	1,635	2,793	5,009	5,895	7,293	6,340	6,777	6,414	4,433	5,903	6,132
Private														
Arcadia U.	1,649	1,888	956	ne	ne	ne	ne	ne	ne	ne	ne	889	ne	1,321
Bryn Mawr C.	7,476	8,388	9,837	9,452	9,143	11,692	10,867	11,146	10,282	9,846	11,575	8,987	9,123	9,039
Bucknell U.	5,456	5,043	4,009	4,297	4,464	4,140	4,516 i	4,892 i	5,269	5,625	5,051 i	4,476	5,259	5,887
Carnegie Mellon U.	222,790	242,882	255,933	271,277	251,222	242,004	319,168	328,100	331,383	359,720	386,996	402,376	449,707	484,757
Drexel U.	118,349	115,020	116,768	123,813	131,170	128,027	127,909	138,577	155,908	149,481	143,123	152,752	151,903	169,583
Duquesne U.	15,804	16,814	15,547	15,661	15,025	16,159	17,089	17,197	17,420	16,947	17,485	10,521	13,944	14,989
Franklin and Marshall C.	3,770	3,439	2,997	3,475	3,105	3,888	3,772	4,385	4,769	5,041	3,623	3,722	4,440	4,111
Gettysburg C.	814	669	ne	ne	ne	ne	ne	1,318	1,539	1,664	913	ne	ne	1,099

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Haverford C.	3,620	2,765	2,588	2,769	2,546	2,633	2,173	2,442	3,041	3,752	4,473	3,835	4,487	4,088
Lafayette C.	2,089	2,426	1,864	1,947	1,915	1,693	1,553	1,831	1,815	1,554	1,390	1,015	2,059	1,991
Lehigh U.	37,332	32,086	31,992	35,220	37,066	36,788	32,941	36,969	38,674	38,185	38,064	41,279	51,769	56,301
Philadelphia C. of Osteopathic Medicine	1,278	2,401	1,898	2,614	2,209	2,561	2,458	2,969	3,059	3,162	3,360	6,186	6,667	7,459
Robert Morris U.	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,277	1,419
Saint Joseph's U.	2,918	3,073	2,955	2,921	1,988	2,093	2,171	2,409	2,151	2,851	3,150	2,922	9,041	8,675
Swarthmore C.	2,984	2,994	3,281	3,415	3,528	2,943	3,211	3,569	3,921	4,203	3,544	3,296	4,225	5,620
Thomas Jefferson U.	103,064	104,923	100,506	89,273	118,378	119,631	122,396	142,569	148,573	170,458	171,377	200,393	246,212	258,345
U. Pennsylvania	836,322	886,036	847,077	828,422	828,350	864,068	1,296,429	1,374,293	1,441,931	1,506,285	1,579,364	1,631,950	1,791,311	1,953,617
U. Scranton	240	221	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,169
Ursinus C.	540	594	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,150
Villanova U.	10,066	10,044	8,547	7,049	13,700	14,512	14,903	19,037	20,730	22,837	25,505	24,723	25,955	31,513
Rhode Island														
Public														
Naval War C.	ne	ne	2,938	2,700	2,736	2,653	3,210	4,240	5,270	5,060	5,944	5,542	5,529	5,819
Rhode Island C.	ne	8,027	10,389	10,385	8,938	10,080	9,943	9,030	9,287	9,480	10,094	10,990	11,127	839
U. Rhode Island	90,016	102,630	114,323	101,898	91,706	93,828	97,900	101,871	104,490	115,160	109,967	129,296	129,102	144,013
Private														
Brown U.	335,838	344,090	365,120	361,010	341,531	342,040	347,016	212,290	244,838	256,954	266,127	276,331	310,780	353,591
Bryant U.	ne	316	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	558
Providence C.	917	758	ne	983	ne	1,329	1,196	1,014	1,215	1,042	1,092	766	ne	5,533
Roger Williams U.	1,967	2,627	2,596	2,186	2,558	2,348	2,441	2,952	1,937	1,852	1,531	1,854	2,156	3,465
South Carolina														
Public														
C. Charleston	14,218	8,320	9,579	10,224	10,034	10,607	10,189	8,927	7,375	7,610	5,728	6,361	6,421	7,231
Citadel Military C. South Carolina	ne	415	ne	ne	ne	ne	ne	ne	ne	ne	1,012	2,054	4,993	3,757
Clemson U.	174,693	166,350	142,096	152,444	161,070	171,215	183,965	193,268	213,458	218,760	228,597	237,485	263,158	286,503
Coastal Carolina U.	2,404	2,162	2,412	2,516	2,166	1,862	1,779	1,893	1,631	2,042	1,903	2,245	3,724	4,729
Medical U. South Carolina	224,632	213,346	236,586	245,451	242,594	243,534	260,098	262,267	282,253	295,600	272,590	277,761	284,553	333,826
South Carolina State U.	7,167	10,037	12,909	12,809	12,709	12,607	13,076	14,300	15,130	3,659	4,697	5,735	6,773	7,814
U. South Carolina, Aiken	337	750	ne	1,309	1,133	1,154	1,445	2,961	2,602	2,481	2,590	2,042	2,595	2,250
U. South Carolina, Beaufort	462	882	ne	ne	ne	892	ne	ne	ne	ne	ne	ne	ne	1,466
U. South Carolina, Columbia	229,145	201,592	214,901	203,365	206,173	208,736	209,271	208,670	206,355	205,940	219,734	215,374	229,162	262,207
Winthrop U.	ne	5,089	7,993	12,495	13,981	10,156	1,993	1,826	2,007	2,189	2,217	2,586	3,424	3,189
Private														
Benedict C.	1,533	3,009	2,754	2,664	2,479	1,373	1,653	1,676	1,934	1,269	649	ne	ne	2,307

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Claflin U.	3,252	5,439	5,255	2,661	1,818	1,255	1,772	1,360	1,509	1,746	1,910	1,015	1,179	1,418
Furman U.	2,311	2,184	2,049	2,199	1,600	1,928	1,869	2,051	2,064	1,628	2,101	2,431	2,650	2,267
South Dakota														
Public														
Black Hills State U.	2,883	1,643	2,466	3,061	2,380	2,430	2,833	2,109	1,571	2,031	1,499	1,280	1,987	2,260
Dakota State U.	ne	1,015	5,709	1,574	1,446	1,152	2,171	2,284	3,619	3,710	4,412	3,416	4,684	5,253
South Dakota School of Mines and Technology	28,572	32,070	19,140	12,156	10,524	14,970	15,396	15,541	15,092	12,973	14,490	15,746	20,061	20,337
South Dakota State U.	67,552	69,680	68,743	63,843	58,334	58,373	60,677	63,412	63,465	66,794	60,939	51,542	59,590	71,340
U. South Dakota	30,616	28,959	31,982	33,187	30,700	25,661	25,864	28,358	30,943	32,028	29,279	27,537	30,322	29,855
Tennessee														
Public														
Austin Peay State U.	ne	2,180	2,124	2,067	2,002	2,113	1,823	2,134	2,644	2,285	2,833	2,740	3,149	3,950
East Tennessee State U.	9,869	10,249	11,213	8,919	7,836	6,930	7,982	9,493	14,043	14,197	13,925	18,449	23,420	42,335
Middle Tennessee State U.	4,793	4,969	7,108	5,718	4,334	4,350	6,164	4,714	7,132	7,673	8,697	22,531	22,631	9,577
Tennessee State U.	12,432	13,468	15,439	16,177	20,068	19,955	19,520	18,108	17,681	15,236	25,942	21,977	18,012	28,246
Tennessee Technological U.	16,754	13,247	10,233	9,715	10,097	11,082	11,528	12,079	12,765	13,801	14,085	15,387	16,398	20,797
U. Memphis	49,517	48,321	51,194	48,141	55,566	46,675	48,321	49,695	64,297	58,700	69,463	67,092	71,271	100,042
U. Tennessee, Chattanooga	10,749	9,251	10,896	7,844	6,239	6,817	5,600	6,352	7,585	9,280	10,834	11,192	12,808	14,671
U. Tennessee, Health Science Center	81,904	81,220	77,754	71,902	67,841	65,771	71,547	73,393	79,460	96,979	99,716	109,562	115,161	130,472
U. Tennessee, Knoxville ^g	150,671	167,456	179,252	193,054	179,041	173,533	183,268	203,800	259,607	247,693	320,407	316,273	324,435	338,847
Private														
Fisk U.	7,700	4,849	4,058	6,565	9,073	9,854	10,635	5,017	2,790	4,748	3,904	4,320	4,000	4,867
Lincoln Memorial U.	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,641
Lipscomb U.	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	307	321	ne	1,946
Meharry Medical C.	27,001	29,055	25,559	22,532	18,997	13,998	14,768	16,782	16,980	18,286	13,870	15,840	17,960	22,002
Vanderbilt U. and Vanderbilt U. Medical Center	504,959	566,031	560,466	571,603	683,890	647,816	640,842	712,036	738,620	776,937	824,803	1,019,273	1,086,223	1,253,156
Texas														
Public														
Lamar U.	5,829	4,762	3,589	2,605	2,447	2,824	2,783	3,883	3,595	4,848	4,327	4,734	5,304	9,168
Prairie View A&M U.	12,565	15,243	14,552	13,198	12,292	13,123	12,616	13,982	17,278	18,018	18,723	17,582	20,429	21,791
Sam Houston State U.	7,555	5,816	4,349	4,608	3,996	3,086	3,266	3,658	7,152	9,445	12,437	13,315	12,009	11,760
Stephen F. Austin State U.	9,127	6,046	5,495	4,612	4,298	5,170	4,749	3,677	3,336	3,679	3,672	3,204	3,184	3,661
Sul Ross State U.	3,039	3,183	2,375	2,159	2,528	2,204	2,015	2,500	2,934	2,352	2,068	3,004	3,940	4,878
Tarleton State U.	10,763	10,426	9,393	9,722	10,996	9,825	9,404	10,893	12,503	13,171	14,890	17,729	20,056	23,345
Texas A&M International U.	2,428	3,121	3,344	3,674	3,441	2,917	3,742	4,745	5,735	6,068	3,067	3,740	4,486	5,602

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Texas A&M U., College Station and Health Science Center	689,624	705,720	693,421	820,015	854,214	866,678	892,718	905,474	922,178	952,156	1,130,803	1,147,720	1,152,666	1,277,814
Texas A&M U.-Commerce	2,679	2,242	2,279	2,541	2,833	3,755	2,943	4,227	3,431	3,403	4,166	3,827	4,955	7,029
Texas A&M U.-Corpus Christi	17,266	17,509	15,776	17,418	21,321	24,507	24,786	27,993	30,253	32,944	32,284	30,500	36,014	39,305
Texas A&M U.-Kingsville	17,378	17,114	17,419	18,653	21,819	20,894	21,309	22,633	21,150	22,268	22,745	23,578	23,451	26,401
Texas A&M U.-San Antonio	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,242	1,593
Texas Southern U.	7,003	6,318	6,380	6,548	6,038	5,005	4,495	4,722	3,740	4,893	10,138	9,128	12,120	16,287
Texas State U.	30,560	33,487	36,664	37,053	39,265	47,694	54,298	60,741	64,322	64,554	70,714	72,510	110,102	141,291
Texas Tech U.	133,360	149,399	138,026	142,676	159,308	163,897	172,521	191,482	185,742	193,923	199,643	197,739	226,729	240,107
Texas Tech U., Health Sciences Center	51,282	58,774	61,219	61,412	38,015	40,438	40,235	39,767	37,819	44,072	44,135	41,583	46,574	48,638
Texas Tech U., Health Sciences Center, El Paso	ne	ne	ne	ne	23,282	18,889	17,391	16,479	12,556	11,883	10,421	11,360	14,206	13,189
Texas Woman's U.	2,271	2,919	4,129	2,704	2,650	2,310	3,014	4,073	4,822	4,477	4,135	4,943	6,029	6,922
U. Houston	119,811	113,709	116,288	130,844	140,597	150,628	162,049	169,431	177,484	195,398	200,428	202,536	240,126	231,942
U. Houston-Clear Lake	1,279	1,746	1,769	1,542	1,716	1,535	1,578	1,779	1,251	1,370	1,363	1,716	1,800	2,127
U. Houston-Downtown	1,013	1,351	2,267	1,444	2,414	2,459	1,784	2,397	2,508	2,216	2,299	1,828	1,485	1,967
U. North Texas, Denton	31,496	42,475	46,943	49,518	44,180	43,628	37,106	43,789	44,025	78,691	84,239	81,252	93,538	106,665
U. North Texas, Health Science Center	38,862	45,943	46,865	44,904	47,002	46,335	50,567	48,476	49,503	50,124	42,766	50,698	72,675	94,652
U. Texas Health Science Center, Houston	240,772	261,172	236,250	233,256	233,737	234,299	237,016	246,060	258,411	271,525	273,862	308,823	342,633	374,105
U. Texas Health Science Center, San Antonio	207,115	198,655	184,298	175,983	172,716	170,277	194,885	169,200	179,219	188,483	202,572	219,734	238,510	281,078
U. Texas Health Science Center, Tyler	ne	ne	ne	ne	ne	12,191	11,799	16,292	17,949	19,606	21,265	27,928	33,872	32,077
U. Texas M. D. Anderson Cancer Center	599,529	663,279	685,814	718,096	794,980	833,406	852,095	888,029	929,710	969,496	1,051,297	1,124,971	1,182,536	1,255,190
U. Texas Medical Branch	188,399	193,555	180,888	180,198	178,014	173,506	179,541	185,106	181,831	175,372	180,595	185,759	204,518	233,192
U. Texas of the Permian Basin	1,417	1,232	1,707	1,146	1,532	1,725	1,561	1,152	668	ne	2,105	3,504	3,577	2,769
U. Texas Rio Grande Valley	na	na	na	na	na	na	31,007	29,500	27,125	52,016	56,702	58,187	64,401	82,444
U. Texas Southwestern Medical Center	419,220	431,883	435,085	440,620	434,627	438,824	442,666	461,797	474,260	496,697	595,939	632,134	719,002	800,391
U. Texas, Arlington	71,414	72,483	78,556	86,735	89,175	77,798	87,386	97,197	105,688	123,858	133,793	126,477	133,770	147,265
U. Texas, Austin	589,502	632,171	621,538	634,132	585,251	604,376	621,692	652,187	679,781	696,111	797,199	779,348	845,896	1,035,838
U. Texas, Dallas	82,044	93,230	90,700	98,842	99,727	98,551	106,205	113,205	113,315	126,661	132,192	122,825	130,914	146,779
U. Texas, El Paso	68,870	74,069	79,649	83,249	79,537	89,418	91,330	94,565	91,032	106,809	108,628	109,410	130,501	145,724
U. Texas, San Antonio	56,279	58,667	57,233	53,626	47,061	54,949	59,831	70,163	72,682	84,326	138,586	145,362	147,629	158,453
U. Texas, Tyler	5,679	2,766	8,520	5,317	6,894	4,610	2,844	1,837	1,828	2,063	2,007	2,279	3,246	3,487
West Texas A&M U.	7,346	5,847	6,937	5,510	5,407	4,513	4,048	4,943	4,797	5,437	6,220	9,920	9,438	10,302
Private														
Abilene Christian U.	662	487	ne	ne	ne	ne	ne	ne	ne	ne	ne	4,597	6,310	8,182
Baylor C. of Medicine	447,874	466,061	474,700	508,799	496,314	520,220	572,527	604,952	623,396	651,920	685,641	716,976	827,005	847,305
Baylor U.	10,925	12,343	10,161	13,616	20,729	24,642	26,767	29,400	31,936	33,304	39,765	48,809	66,014	82,074
Rice U.	97,903	110,235	117,223	131,003	138,536	144,679	154,543	167,277	161,831	182,564	198,681	207,404	216,202	255,115

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023									
Edward Via C. of Osteopathic Medicine	ne	2,453	2,576	4,992	2,633	2,237	5,692	8,119	7,601	7,225	7,475	6,629	7,121	7,597									
Hampton U.	14,455	12,414	15,356	12,641	11,169	14,895	14,225	16,482	14,424	13,605	11,402	11,669	11,462	9,769									
Liberty U.	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,780	1,894	937	ne	1,900									
Marymount U.	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	2,307	1,298	2,601									
U. Richmond	4,052	4,064	4,282	3,351	3,598	3,069	3,047	3,106	2,784	2,783	2,469	2,294	2,670	3,058									
Washington																							
Public																							
Central Washington U.	5,159	2,858	2,753	2,122	2,124	2,581	2,751	3,798	3,066	3,223	2,674	2,410	3,176	3,683									
Eastern Washington U.	3,266	3,910	2,700	2,115	1,867	2,973	3,368	2,000	2,590	2,024	2,282	1,921	2,437	2,546									
Northwest Indian C.	2,426	2,744	i	2,847	3,247	2,609	1,631	i	ne	ne	2,154	2,659	3,650	i	4,641	i	5,632	6,184	i				
U. Washington, Bothell	630	2,857	4,285	4,704	7,550	7,657	8,406	10,219	8,097	7,950	7,107	8,311	8,197	5,738									
U. Washington, Seattle	1,022,740	1,148,533	1,109,008	1,192,513	1,176,340	1,180,563	1,277,679	1,348,220	1,413,902	1,425,601	1,456,902	1,488,645	1,559,708	1,734,091									
U. Washington, Tacoma	872	1,359	1,845	2,203	2,938	3,618	3,957	3,246	3,006	3,471	3,504	4,291	5,484	6,243									
Washington State U.	304,352	320,510	335,930	305,510	288,752	303,214	301,640	331,051	331,424	344,997	335,201	357,648	368,396	378,744									
Western Washington U.	10,571	9,498	7,597	8,157	8,567	9,921	10,743	13,014	13,075	11,983	12,823	13,450	15,081	15,874									
Private																							
Seattle U.	1,337	i	1,274	642	ne	2,692	2,847	2,050	1,623	2,535	2,223	2,060	1,562	1,894	3,949								
U. Puget Sound	461	530	ne	ne	ne	ne	ne	902	ne	ne	895	ne	1,051	1,613									
Whitman C.	1,415	1,142	849	ne	ne	ne	ne	ne	ne	1,083	865	ne	1,270	1,568									
West Virginia																							
Public																							
Marshall U.	24,501	26,723	18,998	19,617	20,382	19,936	20,687	18,348	20,050	19,622	22,250	23,620	25,692	33,693									
West Virginia School of Osteopathic Medicine	594	528	ne	ne	ne	ne	ne	ne	ne	ne	1,311	1,255	1,329	1,459	i								
West Virginia State U.	3,770	4,176	5,087	4,491	7,221	7,365	5,224	6,305	6,535	5,829	5,775	6,565	6,703	5,226									
West Virginia U.	154,926	166,420	169,303	167,144	164,454	170,145	172,477	185,606	185,110	187,512	188,452	199,907	214,081	246,173									
Wisconsin																							
Public																							
U. Wisconsin-Eau Claire	1,950	1,406	1,362	1,235	915	ne	1,238	1,641	1,227	1,530	1,318	1,852	1,628	2,191									
U. Wisconsin-Green Bay	1,219	1,239	i	1,259	i	1,279	i	1,299	i	1,320	1,599	1,510	1,454	2,083	1,982	1,879	2,713	2,801					
U. Wisconsin-La Crosse	4,141	3,862	i	3,583	3,796	3,424	3,615	3,211	3,187	3,569	2,692	2,795	3,001	2,942	2,921								
U. Wisconsin-Madison	1,029,295	1,111,642	1,169,779	1,123,501	1,108,564	1,069,077	1,157,680	1,193,413	1,205,518	1,297,331	1,363,931	1,380,075	1,523,513	1,731,949									
U. Wisconsin-Milwaukee	71,181	65,648	61,771	56,587	60,752	63,414	59,813	54,181	55,771	53,773	61,069	55,664	56,822	60,712									
U. Wisconsin-Oshkosh	1,556	2,384	2,331	2,167	1,935	i	1,703	i	ne	1,507	i	1,544	i	1,581	i	1,618	i	1,656	1,990	2,087			
U. Wisconsin-Platteville	681	715	i	ne	ne	1,000	i	970	i	ne	1,068	i	ne	1,084	i	1,104	i	1,144	i	1,349	i	1,481	i
U. Wisconsin-River Falls	441	551	i	ne	ne	ne	ne	ne	ne	1,072	923	ne	1,107	999	ne	2,772							
U. Wisconsin-Stevens Point	6,766	6,171	i	5,576	4,392	3,919	i	3,446	i	2,973	3,420	i	3,867	i	4,314	i	4,764	4,401	3,740	4,589			

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
U. Wisconsin-Superior	5,890	6,187	6,041	ne	3,030	ne	ne	ne	3,068	2,250	2,301	2,602	4,615	4,825
Private														
Marquette U.	14,310	19,876	18,606	20,856	23,633	24,816	28,422	30,034	32,471	37,777	37,136	37,087	40,638	47,819
Medical C. Wisconsin	191,816	215,358	209,040	201,237	199,713	199,283	199,925	209,618	229,436	251,300	264,325	276,850	309,244	346,691
Milwaukee School of Engineering	3,944	4,472	4,635	4,376	4,410	4,524	3,930	3,374	3,232	4,026	3,190	3,193	3,545	3,317
Northland C.	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,096	1,265	1,442
Wyoming														
Public														
U. Wyoming	55,319	57,549	65,611	65,490	51,422	56,996	112,056	125,032	113,063	80,353	93,061	93,202	139,764	150,124
Guam														
Public														
U. Guam	5,555	5,626	6,131	6,043	7,075	6,062	7,402	8,842	11,225	12,249	13,043	17,666	20,481	22,388
Puerto Rico														
Public														
U. Puerto Rico, Cayey	927	1,474	1,916	1,726	1,795	1,521	1,415	1,109	1,359	1,870	1,974	1,881	1,390	1,519
U. Puerto Rico, Humacao	1,971	1,976	1,949	1,455	1,145	784	ne	ne	1,168	1,195	1,456	1,321	1,448	2,074
U. Puerto Rico, Mayaguez	26,475	34,424	32,115	29,225	27,152	28,100	25,491	26,130	24,769	26,877	26,553	18,368	18,274	13,989
U. Puerto Rico, Medical Sciences Campus	39,134	64,017	45,649	43,374	40,444	43,316	46,232	42,423	41,216	45,014	37,217	44,111	47,578	61,235
U. Puerto Rico, Ponce	ne	160	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	659
U. Puerto Rico, Rio Piedras	30,515	32,582	33,099	29,234	28,793	28,579	23,491	21,204	17,085	24,088	22,895	28,896	28,083	29,202
Private														
U. Ana G. Mendez, Gurabo	6,620	7,098	6,953	6,916	2,694	2,473	2,518	1,777	1,579	3,945	2,049	1,574	1,419	2,132
U. Central del Caribe	7,122	7,515	7,313	7,095	7,181	6,964	7,090	5,634	4,111	3,953	3,931	3,831	5,053	4,878
Virgin Islands														
Public														
U. of the Virgin Islands	32,350	21,994	25,719	20,041	20,371	20,630	21,215	12,298	11,957	12,236	13,631	15,231	20,259	20,259

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

^a The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.^b The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.^c The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.^d Johns Hopkins University includes the Applied Physics Laboratory, with \$2,333,049 thousand in total R&D expenditures in FY 2023.^e The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the

University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

^f Touro University, New York includes the Lovelace Biomedical Research Institute. In FY 2023, the Lovelace Biomedical Research Institute joined the Touro University System.

^g The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 69

Higher education R&D expenditures, by state and source of funds: FY 2023

(Dollars in thousands)

State	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
United States	108,681,008	59,603,993	5,437,566	27,654,829	6,221,128	6,671,012	3,092,480
Alabama	1,579,469	852,721	76,056	476,377	90,423	46,777	37,115
Alaska	241,536	171,438	9,966	46,631	6,961	3,456	3,084
Arizona	1,939,790	828,326	148,673	630,991	51,044	132,499	148,257
Arkansas	457,800	193,302	61,055	160,876	13,496	13,769	15,302
California	13,473,649	7,190,081	548,596	2,872,732	876,382	1,383,387	602,471
Colorado	2,084,784	1,542,108	66,741	198,776	102,949	104,272	69,938
Connecticut	1,757,255	993,818	8,507	542,244	91,795	109,772	11,119
Delaware	461,627	226,636	17,254	192,620	5,252	9,372	10,493
District of Columbia	925,418	406,272	10,198	307,302	28,419	116,079	57,148
Florida	3,518,895	1,712,962	328,446	1,165,728	128,936	126,254	56,569
Georgia	3,663,637	2,235,643	205,443	864,443	188,903	150,139	19,066
Hawaii	339,716	215,599	17,577	79,211	3,887	21,781	1,661
Idaho	206,438	106,562	54,409	36,929	2,877	1,752	3,909
Illinois	3,476,127	2,115,612	51,323	868,708	198,082	199,884	42,518
Indiana	2,146,500	1,019,200	53,597	730,182	134,786	134,862	73,873
Iowa	1,102,499	534,285	42,726	395,602	55,319	37,995	36,572
Kansas	1,054,041	437,683	107,614	259,770	210,400	23,800	14,774
Kentucky	756,549	384,426	49,123	231,812	22,083	19,128	49,977
Louisiana	1,064,385	460,634	99,284	331,518	114,996	33,805	24,148
Maine	211,287	106,897	20,837	71,504	5,072	4,457	2,520
Maryland	5,987,528	4,722,204	115,606	728,844	167,183	234,170	19,521
Massachusetts	5,174,742	2,803,574	49,060	1,239,635	353,929	551,075	177,469
Michigan	3,368,889	1,745,518	64,733	1,212,840	156,373	142,391	47,034
Minnesota	1,365,645	717,493	83,872	404,729	56,733	42,630	60,188
Mississippi	608,155	314,446	122,058	148,631	6,855	14,340	1,825
Missouri	1,873,279	1,105,546	71,821	402,770	155,769	118,172	19,201
Montana	382,015	228,040	25,393	115,813	1,406	6,901	4,462
Nebraska	680,337	316,636	83,759	193,385	33,839	28,940	23,778
Nevada	325,781	144,228	11,970	145,746	5,134	5,919	12,784
New Hampshire	590,539	321,117	1,077	218,900	10,886	28,849	9,710
New Jersey	1,717,387	786,394	155,317	499,280	64,676	150,522	61,198
New Mexico	564,566	381,404	42,002	101,507	10,688	20,218	8,747
New York	9,058,400	4,965,967	303,976	2,070,036	671,872	656,558	389,991
North Carolina	4,344,862	2,545,110	221,023	900,845	387,926	227,056	62,902
North Dakota	373,912	120,566	98,723	127,107	18,730	2,201	6,585
Ohio	3,392,194	1,983,014	102,089	854,782	232,119	148,938	71,252
Oklahoma	725,008	306,252	48,667	322,017	32,707	13,151	2,214
Oregon	1,095,169	741,264	71,247	112,983	63,780	53,905	51,990
Pennsylvania	5,954,796	3,379,254	124,165	1,618,486	380,254	297,030	155,607
Rhode Island	513,818	355,462	6,749	93,812	8,286	38,924	10,585
South Carolina	918,964	447,154	54,225	328,962	51,644	22,550	14,429
South Dakota	129,045	61,993	22,579	22,583	2,454	4,095	15,341
Tennessee	1,972,549	1,072,733	46,239	658,055	101,062	66,247	28,213
Texas	8,330,578	3,560,492	1,055,701	2,360,953	560,247	485,865	307,320
Utah	1,264,913	771,302	33,925	344,224	60,959	38,890	15,613
Vermont	238,418	132,575	647	86,274	4,622	7,686	6,614
Virginia	2,297,277	1,060,874	166,858	765,680	101,569	113,653	88,643

TABLE 69

Higher education R&D expenditures, by state and source of funds: FY 2023

(Dollars in thousands)

State	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Washington	2,160,233	1,421,205	100,606	220,368	83,780	278,503	55,771
West Virginia	286,551	137,805	15,109	104,390	5,487	4,147	19,613
Wisconsin	2,215,597	1,030,352	149,015	692,683	91,176	190,827	61,544
Wyoming	150,124	68,467	7,464	67,771	2,848	1,934	1,640
Guam	22,388	18,992	2,252	1,083	59	2	0
Puerto Rico	115,688	83,228	1,204	25,699	3,966	1,409	182
Virgin Islands	20,259	19,127	1,010	NA	48	74	0

NA = not available; data were not provided by institution.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
United States	108,681,008	59,603,993	5,437,566	27,654,829	6,221,128	6,671,012	3,092,480
Public	71,001,044	37,015,780	4,979,687	19,437,810	3,735,372	3,733,311	2,099,084
Private	37,679,964	22,588,213	457,879	8,217,019	2,485,756	2,937,701	993,396
Alabama	1,579,469	852,721	76,056	476,377	90,423	46,777	37,115
Public	1,553,844	836,698	72,491	473,838	90,423	46,777	33,617
Alabama A&M U.	15,588	12,197	162	2,848	381	0	0
Alabama State U.	3,229	2,848	0	0	296	85	0
Auburn U., Auburn	349,273	125,783	34,950	158,454	11,570	5,092	13,424
Troy U.	3,785	3,069	81	398	1	203	33
U. Alabama, Birmingham	780,479	451,880	14,884	184,658	74,171	36,533	18,353
U. Alabama, Huntsville	163,428	126,040	5,071	30,635	731	689	262
U. Alabama, Tuscaloosa	184,880	86,244	16,660	77,554	1,973	1,753	696
U. South Alabama	53,182	28,637	683	19,291	1,300	2,422	849
Private	25,625	16,023	3,565	2,539	0	0	3,498
Tuskegee U.	25,625	16,023	3,565	2,539	0	0	3,498
Alaska	241,536	171,438	9,966	46,631	6,961	3,456	3,084
Public	239,713	170,811	9,966	46,631	5,788	3,456	3,061
U. Alaska, Anchorage	19,850	12,646	2,175	3,798	283	537	411
U. Alaska, Fairbanks	218,041	156,702	7,674	42,733	5,505	2,814	2,613
U. Alaska, Southeast	1,822	1,463	117	100	0	105	37
Private	1,823	627	0	0	1,173	0	23
Alaska Pacific U.	1,823	627	0	0	1,173	0	23
Arizona	1,939,790	828,326	148,673	630,991	51,044	132,499	148,257
Public	1,939,790	828,326	148,673	630,991	51,044	132,499	148,257
Arizona State U.	903,779	340,880	102,208	310,531	24,693	99,781	25,686
Dine C.	3,054	2,255	262	223	0	314	0
Northern Arizona U.	77,533	50,491	9,030	15,566	1,023	1,250	173
U. Arizona	955,424	434,700	37,173	304,671	25,328	31,154	122,398
Arkansas	457,800	193,302	61,055	160,876	13,496	13,769	15,302
Public	457,800	193,302	61,055	160,876	13,496	13,769	15,302
Arkansas State U., Jonesboro	7,323	3,083	3,419	561	260	0	0
U. Arkansas for Medical Sciences	209,409	94,483	13,854	84,563	5,274	6,102	5,133
U. Arkansas, Fayetteville	221,525	82,164	41,687	72,849	7,368	7,514	9,943
U. Arkansas, Little Rock	8,685	7,544	218	69	513	134	207
U. Arkansas, Pine Bluff	7,766	4,204	1,294	2,219	41	8	0

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Central Arkansas	3,092	1,824	583	615	40	11	19
California	13,473,649	7,190,081	548,596	2,872,732	876,382	1,383,387	602,471
Public	9,596,502	4,905,367	489,783	2,162,764	563,818	995,188	479,582
California Polytechnic State U., San Luis Obispo	35,830	14,810	4,997	12,550	1,205	2,182	86
California State Polytechnic U., Humboldt	18,800	3,280	3,338	5,724	437	3,094	2,927
California State Polytechnic U., Pomona	10,722	8,162	881	1,438	171	70	0
California State U., Bakersfield	6,409	3,525	154	2,580	0	150	0
California State U., Channel Islands	3,992	1,773	1,086	737	219	177	0
California State U., Chico	5,984	3,152	1,130	636	18	97	951
California State U., Dominguez Hills	5,558	2,457	870	1,996	41	52	142
California State U., East Bay	21,312	8,508	433	9,969	0	2,381	21
California State U., Fresno	11,411	4,864	1,394	3,770	238	1,120	25
California State U., Fullerton	25,811	6,049	205	18,925	204	428	0
California State U., Long Beach	21,458	13,758	1,930	3,618	149	1,468	535
California State U., Los Angeles	10,186	8,973	108	788	0	317	0
California State U., Monterey Bay	10,678	5,639	2,125	2,706	64	144	0
California State U., Northridge	23,093	19,169	1,152	1,278	113	1,381	0
California State U., Sacramento	28,027	11,284	10,056	5,821	26	556	284
California State U., San Bernardino	13,152	7,606	2,799	2,051	1	695	0
California State U., San Marcos	11,443	9,845	1,171	326	0	101	0
California State U., Stanislaus	2,305	1,150	513	168	468	6	0
Naval Postgraduate School	77,364	62,715	0	13,261	654	67	667
San Diego State U.	158,013	68,045	6,745	77,130	469	3,666	1,958
San Francisco State U.	34,466	16,507	1,978	14,434	0	1,536	11
San Jose State U.	83,406	31,780	7,116	38,582	2,101	2,478	1,349
Sonoma State U.	4,625	3,483	585	321	46	190	0
U. California, Berkeley	1,076,754	496,298	47,005	242,494	75,493	188,887	26,577
U. California, Davis	962,399	494,847	78,096	244,082	55,403	48,643	41,328
U. California, Irvine	609,614	335,393	19,360	132,261	46,182	33,514	42,904
U. California, Los Angeles	1,721,665	878,571	105,632	354,575	109,531	219,227	54,129
U. California, Merced	62,279	28,576	6,985	20,709	1,294	2,464	2,251
U. California, Office of the President	63,629	25	41,345	22,143	0	0	116
U. California, Riverside	214,802	120,524	10,655	55,114	7,288	10,826	10,395
U. California, San Diego	1,705,410	1,083,790	70,790	250,973	96,416	109,398	94,043
U. California, San Francisco	2,046,539	858,066	45,056	505,006	143,206	313,964	181,241

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. California, Santa Barbara	305,483	179,896	7,230	65,230	14,790	27,455	10,882
U. California, Santa Cruz	203,883	112,847	6,863	51,368	7,591	18,454	6,760
Private	3,877,147	2,284,714	58,813	709,968	312,564	388,199	122,889
Azusa Pacific U.	6,097	140	40	5,545	35	273	64
Biola U.	1,461	0	0	9	0	1,298	154
California Institute of Technology	490,672	310,519	3,870	53,950	35,867	29,024	57,442
Chapman U.	41,791	10,015	303	23,533	383	7,481	76
Charles R. Drew U. of Medicine and Science	19,551	13,297	886	3,758	0	1,610	0
Claremont Graduate U.	7,262	1,422	354	984	2,709	1,228	565
Claremont McKenna C.	6,925	1,035	62	5,293	0	485	50
Harvey Mudd C.	3,682	1,968	0	1,389	0	161	164
High Tech High Graduate School of Ed.	5,939	0	0	0	0	5,939	0
Keck Graduate Institute	4,059	2,338	4	388	634	354	341
La Sierra U.	2,496	1,066	0	734	0	696	0
Loma Linda U.	22,262	12,485	745	4,913	1,469	2,634	16
Loyola Marymount U.	14,086	2,921	1,096	7,708	84	2,277	0
Marshall B. Ketchum U.	1,777	433	0	890	454	0	0
Occidental C.	4,718	2,967	559	NA	554	638	0
Pepperdine U.	10,632	674	1	7,179	0	2,771	7
Pomona C.	4,149	1,205	0	2,659	0	285	0
Santa Clara U.	5,679	3,448	372	NA	364	1,424	71
Scripps Research Institute	494,946	278,099	3,331	146,451	31,164	35,901	0
Stanford U.	1,537,846	943,669	31,872	189,108	144,300	219,578	9,319
Touro U., California	2,877	1,279	0	1,405	79	0	114
U. of the Pacific	1,972	1,300	586	NA	9	77	0
U. San Diego	12,902	3,501	684	7,498	69	542	608
U. San Francisco	9,633	1,015	532	6,848	0	279	959
U. Southern California	1,154,804	683,819	11,881	239,488	93,933	72,744	52,939
Western U. of Health Sciences	8,929	6,099	1,635	238	457	500	0
Colorado	2,084,784	1,542,108	66,741	198,776	102,949	104,272	69,938
Public	2,028,802	1,508,349	61,832	192,748	100,971	96,347	68,555
Colorado School of Mines	104,297	68,795	1,804	14,035	11,399	3,388	4,876
Colorado State U., Fort Collins	498,073	354,401	22,951	75,358	13,597	21,049	10,717
Colorado State U., Pueblo	1,624	952	199	347	0	0	126
Fort Lewis C.	3,372	2,816	23	143	6	384	0

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Colorado Anschutz Medical Campus	686,026	474,523	28,973	52,000	59,129	51,546	19,855
U. Colorado Boulder	651,924	538,715	5,264	42,462	15,045	18,275	32,163
U. Colorado Colorado Springs	7,012	5,205	29	1,042	523	207	6
U. Colorado Denver	22,530	17,181	2,387	513	846	1,258	345
U. Northern Colorado	9,064	1,705	202	6,848	69	240	0
U.S. Air Force Academy	44,880	44,056	0	0	357	0	467
Private	55,982	33,759	4,909	6,028	1,978	7,925	1,383
Colorado C.	2,498	611	0	1,000	0	887	0
U. Denver	53,484	33,148	4,909	5,028	1,978	7,038	1,383
Connecticut	1,757,255	993,818	8,507	542,244	91,795	109,772	11,119
Public	401,244	241,015	6,160	125,068	11,319	12,658	5,024
Central Connecticut State U.	934	393	51	480	0	2	8
Eastern Connecticut State U.	1,449	210	0	1,239	0	0	0
Southern Connecticut State U.	8,007	1,433	136	5,810	68	239	321
U. Connecticut	390,165	238,701	5,973	117,252	11,251	12,293	4,695
U.S. Coast Guard Academy	689	278	0	287	0	124	0
Private	1,356,011	752,803	2,347	417,176	80,476	97,114	6,095
Connecticut C.	1,440	648	0	575	0	211	6
Fairfield U.	1,484	180	0	751	0	553	0
Hartford International U. for Religion and Peace	1,485	0	0	0	0	1,485	0
Sacred Heart U.	4,733	639	0	3,892	0	202	0
Trinity C., Hartford	4,099	687	0	3,330	7	75	0
U. Hartford	1,533	1,269	8	203	3	50	0
U. New Haven	3,602	2,227	629	204	24	487	31
Wesleyan U.	10,828	5,955	0	3,515	221	688	449
Yale U.	1,326,807	741,198	1,710	404,706	80,221	93,363	5,609
Delaware	461,627	226,636	17,254	192,620	5,252	9,372	10,493
Public	461,627	226,636	17,254	192,620	5,252	9,372	10,493
Delaware State U.	33,499	24,167	4,093	3,975	48	1,181	35
U. Delaware	428,128	202,469	13,161	188,645	5,204	8,191	10,458
District of Columbia	925,418	406,272	10,198	307,302	28,419	116,079	57,148
Public	10,439	9,861	384	48	0	131	15
National Defense U.	2,494	2,494	0	0	0	0	0
U. of the District of Columbia	7,945	7,367	384	48	0	131	15
Private	914,979	396,411	9,814	307,254	28,419	115,948	57,133

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
American U.	76,041	17,462	2,193	44,220	603	9,510	2,053
Catholic U. of America	47,022	35,502	1,147	7,957	264	2,124	28
Gallaudet U.	9,894	5,523	25	3,462	0	526	358
George Washington U.	360,260	162,892	1,890	141,746	5,655	30,534	17,543
Georgetown U.	337,006	127,370	1,719	87,408	17,345	68,114	35,050
Howard U.	84,756	47,662	2,840	22,461	4,552	5,140	2,101
Florida	3,518,895	1,712,962	328,446	1,165,728	128,936	126,254	56,569
Public	2,914,461	1,374,289	307,360	999,301	79,188	100,037	54,286
Florida A&M U.	65,159	54,363	2,851	6,503	586	856	0
Florida Atlantic U.	77,593	35,108	8,511	23,101	2,611	7,308	954
Florida Gulf Coast U.	24,899	9,858	9,477	3,533	108	1,891	32
Florida International U.	306,434	156,381	21,887	115,737	3,019	7,971	1,439
Florida Polytechnic U.	2,260	1,172	141	723	183	41	0
Florida State U.	414,463	195,323	36,977	166,809	5,614	3,466	6,274
New C. Florida	1,080	146	0	367	425	142	0
U. Central Florida	247,259	124,256	5,893	99,427	9,659	3,642	4,382
U. Florida	1,250,201	529,391	193,910	389,065	42,055	58,010	37,770
U. North Florida	23,269	8,113	1,436	12,378	825	293	224
U. South Florida	461,390	242,224	25,735	160,703	13,502	16,015	3,211
U. West Florida	40,454	17,954	542	20,955	601	402	0
Private	604,434	338,673	21,086	166,427	49,748	26,217	2,283
Embry-Riddle Aeronautical U.	27,451	23,733	205	862	1,041	161	1,449
Florida Institute of Technology	16,859	11,520	768	4,253	142	176	0
Nova Southeastern U.	50,173	11,637	3,862	32,874	543	762	495
U. Miami	509,951	291,783	16,251	128,438	48,022	25,118	339
Georgia	3,663,637	2,235,643	205,443	864,443	188,903	150,139	19,066
Public	2,445,990	1,482,256	204,154	562,935	120,805	63,355	12,485
Albany State U.	1,932	1,681	106	0	145	0	0
Augusta U.	139,121	64,410	214	62,558	4,396	6,836	707
Fort Valley State U.	15,536	7,505	8,031	0	0	0	0
Georgia Institute of Technology	1,405,080	1,083,903	128,291	61,494	94,476	31,073	5,843
Georgia Southern U.	40,026	3,562	521	30,268	5,367	270	38
Georgia State U.	237,493	91,331	4,392	125,011	3,269	12,131	1,359
Kennesaw State U.	32,497	5,908	563	24,976	157	893	0
Savannah State U.	1,706	1,675	18	0	0	13	0

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Georgia	570,956	221,804	61,887	257,757	12,988	11,982	4,538
U. North Georgia	1,643	477	131	871	7	157	0
Private	1,217,647	753,387	1,289	301,508	68,098	86,784	6,581
Clark Atlanta U.	10,320	7,687	0	2,523	79	31	0
Emory U.	1,094,328	664,370	244	279,302	64,772	81,897	3,743
Mercer U.	45,247	29,944	58	8,973	3,247	187	2,838
Morehouse C.	5,750	5,750	0	NA	0	0	0
Morehouse School of Medicine	57,125	41,069	987	10,710	0	4,359	0
Spelman C.	4,877	4,567	0	0	0	310	0
Hawaii	339,716	215,599	17,577	79,211	3,887	21,781	1,661
Public	336,803	213,657	17,577	79,032	3,449	21,437	1,651
U. Hawaii, Hilo	8,112	6,068	22	809	59	940	214
U. Hawaii, Manoa	313,143	192,205	17,555	78,084	3,390	20,472	1,437
U. Hawaii, Maui C.	1,376	1,234	0	117	0	25	0
U. Hawaii, system office	14,172	14,150	0	22	0	0	0
Private	2,913	1,942	0	179	438	344	10
Hawaii Pacific U.	2,913	1,942	0	179	438	344	10
Idaho	206,438	106,562	54,409	36,929	2,877	1,752	3,909
Public	206,438	106,562	54,409	36,929	2,877	1,752	3,909
Boise State U.	52,989	35,801	3,473	12,190	426	704	395
Idaho State U.	17,548	9,230	3,042	4,362	605	196	113
U. Idaho	135,901	61,531	47,894	20,377	1,846	852	3,401
Illinois	3,476,127	2,115,612	51,323	868,708	198,082	199,884	42,518
Public	1,468,622	790,564	43,270	472,037	62,512	68,699	31,540
Chicago State U.	3,756	3,756	0	0	0	0	0
Illinois State U.	32,961	13,612	2,429	16,099	152	664	5
Northeastern Illinois U.	2,262	2,262	0	0	0	0	0
Northern Illinois U.	29,134	10,849	1,299	15,720	705	469	92
Southern Illinois U., Carbondale	58,291	17,209	3,522	29,972	6,916	672	0
Southern Illinois U., Edwardsville	21,927	3,621	1,684	15,854	752	14	2
U. Illinois, Chicago	492,936	274,424	9,293	158,846	9,469	30,905	9,999
U. Illinois, Springfield	2,508	1,057	426	818	0	207	0
U. Illinois, Urbana-Champaign	821,023	460,491	24,473	234,686	44,275	35,768	21,330
Western Illinois U.	3,824	3,283	144	42	243	0	112
Private	2,007,505	1,325,048	8,053	396,671	135,570	131,185	10,978

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
DePaul U.	13,267	5,592	807	3,512	372	2,911	73
Erikson Institute	2,414	1,245	0	178	0	991	0
Illinois Institute of Technology	33,021	28,027	154	2,045	1,292	858	645
Loyola U., Chicago	52,445	29,712	242	12,892	4,302	4,062	1,235
Midwestern U.	12,725	2,862	92	9,430	76	265	0
Northwestern U.	1,114,269	678,062	586	303,778	67,114	58,196	6,533
Rosalind Franklin U. of Medicine and Science	11,629	7,124	62	3,270	565	608	0
Rush U.	132,394	93,180	2,208	12,316	16,533	8,157	0
Toyota Technological Institute, Chicago	4,636	2,127	0	1,633	321	463	92
U. Chicago	628,302	476,689	3,902	46,651	44,990	53,670	2,400
Wheaton C., Wheaton	2,403	428	0	966	5	1,004	0
Indiana	2,146,500	1,019,200	53,597	730,182	134,786	134,862	73,873
Public	1,810,152	869,220	52,885	612,368	120,108	109,141	46,430
Ball State U.	11,650	6,355	396	3,956	637	306	0
Indiana State U.	1,327	980	83	212	32	11	9
Indiana U., Bloomington	853,056	432,223	5,804	303,085	36,938	69,773	5,233
Indiana U., South Bend	1,593	420	3	875	0	295	0
Indiana U.-Purdue U., Indianapolis	87,648	39,869	3,029	34,236	3,434	6,776	304
Purdue U., Fort Wayne	2,804	226	455	1,087	172	291	573
Purdue U., Northwest	7,504	3,409	996	1,604	597	236	662
Purdue U., West Lafayette	844,570	385,738	42,119	267,313	78,298	31,453	39,649
Private	336,348	149,980	712	117,814	14,678	25,721	27,443
Butler U.	1,396	1,077	0	199	20	100	0
Marian U., Indianapolis	3,009	918	0	1,709	18	172	192
U. Notre Dame	331,943	147,985	712	115,906	14,640	25,449	27,251
Iowa	1,102,499	534,285	42,726	395,602	55,319	37,995	36,572
Public	1,087,521	530,193	42,351	385,996	55,285	37,586	36,110
Iowa State U.	420,823	195,394	34,183	156,282	21,246	13,084	634
U. Iowa	662,134	331,824	7,627	228,803	34,039	24,365	35,476
U. Northern Iowa	4,564	2,975	541	911	0	137	0
Private	14,978	4,092	375	9,606	34	409	462
Des Moines U.	3,932	556	7	3,225	0	144	0
Drake U.	1,724	954	368	340	34	26	2
Grinnell C.	7,597	1,082	0	5,816	0	239	460
Palmer C. of Chiropractic, Davenport	1,725	1,500	0	225	0	0	0

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Kansas	1,054,041	437,683	107,614	259,770	210,400	23,800	14,774
Public	1,054,041	437,683	107,614	259,770	210,400	23,800	14,774
Kansas State U.	217,992	82,610	43,122	73,427	7,647	9,860	1,326
Pittsburg State U.	2,979	1,591	633	NA	755	0	0
U. Kansas	466,222	211,111	44,851	152,432	30,988	13,436	13,404
Wichita State U.	366,848	142,371	19,008	33,911	171,010	504	44
Kentucky	756,549	384,426	49,123	231,812	22,083	19,128	49,977
Public	756,549	384,426	49,123	231,812	22,083	19,128	49,977
Eastern Kentucky U.	1,446	798	124	468	56	0	0
Kentucky State U.	11,591	7,605	3,969	NA	17	0	0
Morehead State U.	2,658	1,718	381	11	530	18	0
Murray State U.	3,193	2,058	29	993	79	34	0
Northern Kentucky U.	3,790	2,413	77	1,113	6	181	0
U. Kentucky	504,005	265,543	34,829	151,066	11,737	12,511	28,319
U. Louisville	220,568	100,890	8,924	73,255	9,580	6,261	21,658
Western Kentucky U.	9,298	3,401	790	4,906	78	123	0
Louisiana	1,064,385	460,634	99,284	331,518	114,996	33,805	24,148
Public	788,131	294,105	94,324	268,428	106,568	16,293	8,413
Grambling State U.	449	377	52	20	0	0	0
Louisiana State U., Baton Rouge	384,268	127,243	73,829	156,614	14,807	6,295	5,480
Louisiana State U., Health Sciences Center, New Orleans	68,707	35,933	447	24,332	3,478	4,235	282
Louisiana State U., Health Sciences Center, Shreveport	35,624	18,742	158	8,014	3,715	4,995	0
Louisiana Tech U.	31,676	8,118	2,220	19,098	722	0	1,518
Northwestern State U. Louisiana	2,057	822	936	299	0	0	0
Southeastern Louisiana U.	2,858	1,366	237	758	472	25	0
Southern U. and A&M C., Agricultural Research and Extension Center	7,764	4,688	3,037	24	0	15	0
Southern U. and A&M C., Baton Rouge	5,201	4,444	75	34	648	0	0
Southern U., New Orleans	1,004	536	460	0	8	0	0
U. Louisiana, Lafayette	225,924	84,898	11,605	46,907	82,197	317	0
U. Louisiana, Monroe	2,203	1,655	371	3	30	144	0
U. New Orleans	20,396	5,283	897	12,325	491	267	1,133
Private	276,254	166,529	4,960	63,090	8,428	17,512	15,735
Dillard U.	2,296	1,228	117	951	0	0	0
Tulane U.	258,439	152,468	4,121	60,978	8,428	16,709	15,735
Xavier U. Louisiana	15,519	12,833	722	1,161	0	803	0

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Maine	211,287	106,897	20,837	71,504	5,072	4,457	2,520
Public	194,620	95,468	20,764	68,126	5,043	3,332	1,887
U. Maine	188,690	92,870	17,694	67,941	5,043	3,260	1,882
U. Southern Maine	5,930	2,598	3,070	185	0	72	5
Private	16,667	11,429	73	3,378	29	1,125	633
Bates C.	2,118	1,455	0	349	0	272	42
Bowdoin C.	3,339	2,186	71	901	0	102	79
Colby C.	4,454	3,011	0	580	0	356	507
U. New England	6,756	4,777	2	1,548	29	395	5
Maryland	5,987,528	4,722,204	115,606	728,844	167,183	234,170	19,521
Public	2,185,943	1,397,653	105,335	564,086	40,498	65,769	12,602
Bowie State U.	2,612	2,469	143	0	0	0	0
Morgan State U.	43,868	30,451	5,582	5,635	721	644	835
Salisbury U.	14,557	5,049	5,551	3,904	0	53	0
St. Mary's C. Maryland	205	152	31	0	0	22	0
Towson U.	17,198	3,653	369	12,449	79	622	26
U. Baltimore	6,615	4,250	1,819	NA	20	422	104
U. Maryland ^a	1,385,302	825,546	57,007	401,833	37,011	54,377	9,528
U. Maryland Center for Environmental Science	53,233	15,378	26,509	9,309	198	1,563	276
U. Maryland, Baltimore County	144,262	86,573	8,087	42,409	2,469	3,332	1,392
U. Maryland, Eastern Shore	10,730	10,201	237	266	0	24	2
U.S. Naval Academy	10,920	10,260	0	0	0	221	439
Uniformed Services U. of the Health Sciences	496,441	403,671	0	88,281	0	4,489	0
Private	3,801,585	3,324,551	10,271	164,758	126,685	168,401	6,919
Johns Hopkins U. ^b	3,801,585	3,324,551	10,271	164,758	126,685	168,401	6,919
Massachusetts	5,174,742	2,803,574	49,060	1,239,635	353,929	551,075	177,469
Public	826,455	465,292	28,969	229,887	42,924	43,195	16,188
Framingham State U.	735	700	0	35	0	0	0
U. Massachusetts, Amherst	268,657	138,849	11,465	90,429	9,220	12,373	6,321
U. Massachusetts, Boston	70,978	27,098	7,176	27,225	2,400	6,733	346
U. Massachusetts, Dartmouth	42,018	13,742	2,933	21,993	1,808	1,267	275
U. Massachusetts, Lowell	117,336	61,413	4,420	39,726	7,554	2,527	1,696
U. Massachusetts, Medical School	326,731	223,490	2,975	50,479	21,942	20,295	7,550
Private	4,348,287	2,338,282	20,091	1,009,748	311,005	507,880	161,281
Amherst C.	8,152	2,869	0	3,104	0	235	1,944

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Babson C.	1,957	224	0	758	78	131	766
Bentley U.	1,589	802	0	0	18	751	18
Boston C.	81,425	39,356	2,517	18,254	974	19,273	1,051
Boston U.	773,200	409,551	500	230,370	23,362	93,532	15,885
Brandeis U.	103,653	46,654	406	41,318	661	10,730	3,884
Clark U.	11,539	2,235	231	5,610	81	1,804	1,578
Franklin W. Olin C. of Engineering	2,450	641	0	639	230	837	103
Harvard U.	1,435,218	639,953	4,250	488,906	71,497	202,605	28,007
Massachusetts Institute of Technology	1,000,081	559,766	2,079	73,497	176,277	112,591	75,871
Merrimack C.	1,560	892	0	336	0	247	85
MGH Institute of Health Professions	7,426	6,200	0	20	0	1,206	0
Mount Holyoke C.	2,533	1,612	125	504	0	292	0
New England C. of Optometry	2,491	1,946	56	30	390	69	0
Northeastern U.	288,558	186,013	3,336	68,663	11,524	18,604	418
Smith C.	5,954	3,013	0	2,179	253	509	0
Suffolk U.	5,164	893	737	3,303	0	231	0
Tufts U.	247,276	154,458	2,328	33,998	15,988	29,439	11,065
Wellesley C.	6,320	2,921	449	NA	80	2,628	242
Western New England U.	1,115	538	54	302	89	132	0
Williams C.	6,448 i	1,455 i	0 i	2,164 i	0 i	178 i	2,651 i
Woods Hole Oceanographic Institution	287,825	238,554	882	15,591	5,431	10,476	16,891
Worcester Polytechnic Institute	66,353	37,736	2,141	20,202	4,072	1,380	822
Michigan	3,368,889	1,745,518	64,733	1,212,840	156,373	142,391	47,034
Public	3,267,371	1,703,200	61,131	1,172,716	155,845	134,804	39,675
Central Michigan U.	25,363	9,591	0	13,833	408	852	679
Eastern Michigan U.	8,363	2,521	72	5,463	0	297	10
Ferris State U.	1,915	1,430	88	271	53	73	0
Grand Valley State U.	6,231	1,808	450	2,906	0	584	483
Lake Superior State U.	2,545	1,475	166	720	66	37	81
Michigan State U.	844,076	435,564	46,353	300,588	18,603	22,693	20,275
Michigan Technological U.	103,819	52,102	1,236	40,859	6,632	968	2,022
Northern Michigan U.	1,871	560	25	1,079	1	80	126
Oakland U.	37,263	9,600	3,066	15,987	4,953	1,636	2,021
Saginaw Valley State U.	3,143 i	2,503 i	0 i	476 i	6 i	138 i	20 i
U. Michigan, Ann Arbor	1,925,875	1,041,430	1,934	679,205	113,903	80,894	8,509

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Michigan, Dearborn	10,839	3,464	0	4,361	2,601	331	82
Wayne State U.	250,911	128,521	6,525	81,136	5,339	25,618	3,772
Western Michigan U. and Homer Stryker M.D. School of Medicine	45,157	12,631	1,216	25,832	3,280	603	1,595
Private	101,518	42,318	3,602	40,124	528	7,587	7,359
Albion C.	276	226	0	0	50	0	0
Andrews U.	1,255	445	0	721	0	89	0
Calvin U.	2,555	854	68	330	0	1,060	243
Hope C.	6,910	3,639	0	1,678	0	1,308	285
Lawrence Technological U.	4,632	1,786	937	784	183	942	0
U. Detroit Mercy	5,142	4,434	0	529	140	39	0
Van Andel Research Institute	80,748	30,934	2,597	36,082	155	4,149	6,831
Minnesota	1,365,645	717,493	83,872	404,729	56,733	42,630	60,188
Public	1,351,673	711,610	83,306	399,546	56,297	41,017	59,897
Minnesota State U., Mankato	3,055	905	196	1,537	0	45	372
St. Cloud State U.	2,901	689	305	719	835	145	208
U. Minnesota, Duluth	25,534	7,533	6,410	11,092	381	63	55
U. Minnesota, Twin Cities	1,320,183	702,483	76,395	386,198	55,081	40,764	59,262
Private	13,972	5,883	566	5,183	436	1,613	291
C. of Saint Benedict	1,400	58	0	1,342	0	0	0
Carleton C.	4,185	2,800	0	483	0	902	0
Gustavus Adolphus C.	969	467	9	107	181	54	151
Macalester C.	1,935	1,094	58	508	0	275	0
Saint John's U.	1,479	0	0	1,479	0	0	0
St. Olaf C.	1,724	933	0	686	0	105	0
U. of St. Thomas (MN)	2,280	531	499	578	255	277	140
Mississippi	608,155	314,446	122,058	148,631	6,855	14,340	1,825
Public	605,492	311,803	122,054	148,627	6,851	14,336	1,821
Alcorn State U.	19,141	10,996	5,206	2,894	24	21	0
Jackson State U.	19,457	16,443	0	1,601	4	1,375	34
Mississippi State U.	319,684	150,804	92,674	63,773	3,140	7,858	1,435
U. Mississippi	172,176	85,186	10,670	68,074	3,311	4,583	352
U. Southern Mississippi	75,034	48,374	13,504	12,285	372	499	0
Private	2,663	2,643	4	4	4	4	4
Tougaloo C.	2,663	2,643	4	4	4	4	4
Missouri	1,873,279	1,105,546	71,821	402,770	155,769	118,172	19,201

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Public	614,154	299,815	70,604	190,754	20,430	15,558	16,993
Lincoln U., Jefferson City	8,196	4,610	3,552	34	0	0	0
Missouri State U.	14,654	12,973	84	1,387	20	172	18
Missouri U. of Science and Technology	61,496	32,457	682	17,847	3,907	1,037	5,566
U. Missouri, Columbia	462,435	217,091	65,868	146,211	15,816	11,225	6,224
U. Missouri, Kansas City	54,565	28,115	336	20,030	582	934	4,568
U. Missouri, Saint Louis	12,808	4,569	82	5,245	105	2,190	617
Private	1,259,125	805,731	1,217	212,016	135,339	102,614	2,208
Saint Louis U.	85,921	44,157	646	21,971	5,412	13,484	251
U. of Health Sciences and Pharmacy in St. Louis	4,343	3,110	0	1,060	84	89	0
Washington U., Saint Louis	1,168,861	758,464	571	188,985	129,843	89,041	1,957
Montana	382,015	228,040	25,393	115,813	1,406	6,901	4,462
Public	382,015	228,040	25,393	115,813	1,406	6,901	4,462
Montana State U., Bozeman	229,682	142,965	18,379	59,067	956	4,403	3,912
Montana Technological U.	18,375	9,585	5,503	3,057	230	0	0
U. Montana, Missoula	133,958	75,490	1,511	53,689	220	2,498	550
Nebraska	680,337	316,636	83,759	193,385	33,839	28,940	23,778
Public	651,894	303,955	79,816	183,788	32,806	28,473	23,056
U. Nebraska, Kearney	3,681	1,739	590	1,307	25	0	20
U. Nebraska, Lincoln and Medical Center ^c	617,372	280,120	76,042	177,595	32,720	27,961	22,934
U. Nebraska, Omaha	30,841	22,096	3,184	4,886	61	512	102
Private	28,443	12,681	3,943	9,597	1,033	467	722
Creighton U.	28,443	12,681	3,943	9,597	1,033	467	722
Nevada	325,781	144,228	11,970	145,746	5,134	5,919	12,784
Public	319,716	144,190	11,970	139,793	5,067	5,912	12,784
Desert Research Institute	30,716	20,061	1,657	4,378	802	2,890	928
Nevada State C.	1,744	1,711	33	0	0	0	0
U. Nevada, Las Vegas	98,751	38,815	2,536	51,945	1,599	1,096	2,760
U. Nevada, Reno	188,505	83,603	7,744	83,470	2,666	1,926	9,096
Private	6,065	38	0	5,953	67	7	0
Roseman U. of Health Sciences	6,065	38	0	5,953	67	7	0
New Hampshire	590,539	321,117	1,077	218,900	10,886	28,849	9,710
Public	223,683	152,377	1,031	52,786	8,471	7,984	1,034
U. New Hampshire	223,683	152,377	1,031	52,786	8,471	7,984	1,034
Private	366,856	168,740	46	166,114	2,415	20,865	8,676

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Dartmouth C. and Dartmouth Hitchcock Medical Center	366,856	168,740	46	166,114	2,415	20,865	8,676
New Jersey	1,717,387	786,394	155,317	499,280	64,676	150,522	61,198
Public	1,133,752	519,218	148,706	343,631	40,930	72,669	8,598
C. New Jersey	2,641	1,755	72	482	0	332	0
Kean U.	10,062	1,870	134	7,954	15	89	0
Montclair State U.	38,209	5,916	707	29,934	26	1,621	5
New Jersey Institute of Technology	161,078	70,080	19,994	64,230	1,385	1,616	3,773
Rowan U.	47,810	18,454	6,659	20,501	1,230	966	0
Rutgers, State U. New Jersey, Camden	9,527	3,042	1,842	3,214	544	860	25
Rutgers, State U. New Jersey, New Brunswick	831,719	400,930	117,514	207,008	37,495	64,220	4,552
Rutgers, State U. New Jersey, Newark	29,787	16,315	1,073	9,143	195	2,880	181
Stockton U.	2,386	688	711	815	36	74	62
William Paterson U.	533	168	0	350	4	11	0
Private	583,635	267,176	6,611	155,649	23,746	77,853	52,600
Monmouth U.	2,517	762	657	280	168	612	38
Princeton U.	513,365	219,600	1,252	144,341	20,077	76,101	51,994
Seton Hall U.	7,068	2,778	2,633	1,195	104	211	147
Stevens Institute of Technology	60,685	44,036	2,069	9,833	3,397	929	421
New Mexico	564,566	381,404	42,002	101,507	10,688	20,218	8,747
Public	564,566	381,404	42,002	101,507	10,688	20,218	8,747
New Mexico Highlands U.	3,468	3,416	0	43	0	0	9
New Mexico Institute of Mining and Technology	118,735	100,873	10,189	3,375	3,346	324	628
New Mexico State U.	126,337	71,764	24,741	18,791	1,873	3,039	6,129
U. New Mexico	316,026	205,351	7,072	79,298	5,469	16,855	1,981
New York	9,058,400	4,965,967	303,976	2,070,036	671,872	656,558	389,991
Public	1,801,836	811,661	140,916	518,754	236,483	67,194	26,828
CUNY, Advanced Science Research Center	17,309	11,916	761	2,201	451	1,574	406
CUNY, Baruch C.	4,084	1,879	77	988	91	785	264
CUNY, Brooklyn C.	8,535	5,518	838	1,998	44	119	18
CUNY, C. Staten Island	4,730	3,296	224	975	41	109	85
CUNY, City C.	63,159	38,669	11,846	10,996	223	1,047	378
CUNY, Graduate Center	54,089	2,792	428	45,484	127	4,450	808
CUNY, Graduate School of Public Health and Health Policy	26,651	13,413	9,353	1,330	1,057	1,451	47
CUNY, Hunter C.	37,172	22,124	3,037	9,506	739	1,293	473
CUNY, John Jay C. of Criminal Justice	22,967	7,452	6,104	5,096	111	3,124	1,080

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
CUNY, Lehman C.	5,918	4,487	0	782	365	181	103
CUNY, New York City C. of Technology	2,819	2,498	30	241	10	16	24
CUNY, Queens C.	25,492	17,811	1,345	5,536	8	710	82
CUNY, system office	4,296	2,901	413	730	18	234	0
CUNY, York C.	1,711	1,504	0	159	0	48	0
SUNY, Binghamton U.	141,685	31,601	6,115	96,213	4,067	242	3,447
SUNY, Buffalo State U.	2,636	1,615	765	222	0	17	17
SUNY, C. Brockport	1,877	813	155	610	0	290	9
SUNY, C. of Environmental Science and Forestry	32,682	9,231	14,316	6,234	515	1,073	1,313
SUNY, C. of Optometry	4,423	2,469	0	594	1,328	10	22
SUNY, C. Plattsburgh	1,722	1,121	0	530	0	69	2
SUNY, Cobleskill	2,566	730	1,832	0	4	0	0
SUNY, Downstate Health Sciences U.	35,600	28,543	0	3,431	313	3,005	308
SUNY, Geneseo	1,958	1,292	9	491	0	52	114
SUNY, Oswego	1,595	894	49	595	1	32	24
SUNY, Polytechnic Institute	284,677	34,393	31,886	25,429	188,351	181	4,437
SUNY, Stony Brook U.	324,531	192,448	15,436	92,936	10,779	10,329	2,603
SUNY, U. Albany	141,671	62,935	1,019	69,881	927	4,707	2,202
SUNY, U. Buffalo	471,569	257,857	32,647	124,197	20,309	29,292	7,267
SUNY, Upstate Medical U.	53,219	30,069	2,231	11,303	6,335	2,054	1,227
U.S. Military Academy	20,493	19,390	0	66	269	700	68
Private	7,256,564	4,154,306	163,060	1,551,282	435,389	589,364	363,163
Albany C. of Pharmacy and Health Sciences	2,594 i	1,256 i	0 i	882 i	287 i	169 i	0 i
Albany Medical C.	23,259	14,193	120	3,464	3,956	1,360	166
Albert Einstein C. of Medicine	336,238	230,151	2,032	81,552	5,637	16,866	0
Alfred U.	4,154	1,958	1,596	242	330	28	0
Barnard C.	6,320	4,235	0	1,006	8	1,071	0
Canisius U.	905	411	0	0	0	494	0
Clarkson U.	25,399	10,611	3,910	9,214	1,093	406	165
Cold Spring Harbor Laboratory	117,483	54,123	209	38,367	3,914	20,870	0
Colgate U.	4,930	1,521	0	3,041	305	63	0
Columbia U. in the City of New York	1,341,952	988,670	6,298	119,863	91,828	132,930	2,363
Cornell U.	1,451,971	705,132	95,202	276,682	59,081	129,082	186,792
Fordham U.	23,832	4,687	0	16,377	3	1,957	808
Hamilton C.	3,285	413	0	1,813	0	819	240

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Hobart and William Smith Colleges	2,373	1,019	526	572	0	136	120
Hofstra U.	8,162	1,995	237	5,786	0	144	0
Icahn School of Medicine at Mount Sinai	972,476	658,916	8,359	147,069	80,437	62,202	15,493
Ithaca C.	861	453	130	178	0	42	58
Long Island U.	16,612	1,993	0	13,844	90	569	116
Manhattan C.	1,250	422	222	460	146	0	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	5,324	273	0	5,021	0	30	0
New School	22,680	1,337	708	3,483	56	16,080	1,016
New York Institute of Technology	5,790	3,252	125	2,146	60	207	0
New York Medical C.	17,113	8,226	1,326	1,064	3,319	2,169	1,009
New York U.	1,457,424	787,204	9,599	327,502	73,289	118,376	141,454
Pace U.	4,056	2,698	20	1,101	0	237	0
Pratt Institute	1,558	50	878	0	0	630	0
Rensselaer Polytechnic Institute	121,706	56,445	3,289	45,192	10,959	3,123	2,698
Rochester Institute of Technology	72,405	37,334	9,828	19,161	3,084	2,178	820
Rockefeller U.	385,168	101,422	101	244,237	3,089	35,953	366
Skidmore C.	2,384	1,288	0	510	0	586	0
St. John's U., New York	3,955	2,792	0	450	341	232	140
Syracuse U.	183,850	46,595	10,706	108,685	9,170	8,570	124
Teachers C., Columbia U.	34,183	11,871	3,953	NA	1,428	14,239	2,692
Touro U., New York	100,547	40,008	0	7,152	53,387	0	0
U. Rochester	481,227	368,190	3,666	57,142	30,075	16,014	6,140
Union C., Schenectady	1,881	729	0	1,048	17	34	53
Vassar C.	2,596	1,204	20	872	0	490	10
Yeshiva U.	8,661	1,229	0	6,104	0	1,008	320
North Carolina	4,344,862	2,545,110	221,023	900,845	387,926	227,056	62,902
Public	2,520,822	1,362,822	212,566	680,003	134,954	106,349	24,128
Appalachian State U.	8,479	3,497	134	3,123	702	1,006	17
East Carolina U.	67,082	30,851	371	28,495	4,648	2,267	450
Elizabeth City State U.	1,641	1,093	403	NA	145	0	0
Fayetteville State U.	3,569 i	1,847 i	536 i	1,005 i	130 i	51 i	0 i
North Carolina A&T State U.	62,307	37,152	2,075	21,880	628	292	280
North Carolina Central U.	18,477 i	15,188 i	1,085 i	NA	494 i	883 i	827 i
North Carolina State U.	633,251	279,179	134,547	150,288	64,505	4,472	260
U. North Carolina, Asheville	6,761	3,323	547	615	126	2,148	2

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. North Carolina, Chapel Hill	1,549,617	907,710	61,576	407,817	58,179	92,573	21,762
U. North Carolina, Charlotte	92,027	33,784	1,922	52,624	3,136	553	8
U. North Carolina, Greensboro	44,521	31,581	363	10,750	450	1,055	322
U. North Carolina, Wilmington	21,879	8,116	8,296	3,028	1,640	656	143
Western Carolina U.	2,543	1,600	337	378	171	57	0
Winston-Salem State U.	8,668	7,901	374	0	0	336	57
Private	1,824,040	1,182,288	8,457	220,842	252,972	120,707	38,774
Davidson C.	2,926	1,340	11	915	12	492	156
Duke U.	1,507,996	974,202	773	191,004	219,452	96,327	26,238
Elon U.	2,544	479	0	1,989	0	20	56
Johnson C. Smith U.	1,602	1,554	0	48	0	0	0
Wake Forest U.	308,972	204,713	7,673	26,886	33,508	23,868	12,324
North Dakota	373,912	120,566	98,723	127,107	18,730	2,201	6,585
Public	372,525	119,229	98,704	127,107	18,730	2,170	6,585
North Dakota State U.	190,330	53,339	51,819	76,422	1,292	1,215	6,243
U. North Dakota	182,195	65,890	46,885	50,685	17,438	955	342
Private	1,387	1,337	19	0	0	31	0
United Tribes Technical C.	1,387	1,337	19	0	0	31	0
Ohio	3,392,194	1,983,014	102,089	854,782	232,119	148,938	71,252
Public	2,603,489	1,331,786	88,805	771,787	219,266	123,543	68,302
Air Force Institute of Technology	56,848	45,087	0	11,659	102	0	0
Bowling Green State U.	20,726	8,208	2,160	9,214	233	911	0
Central State U.	11,123	5,523	3,857	1,743	0	0	0
Cleveland State U.	87,941	56,550	2,913	19,420	3,494	5,423	141
Kent State U.	58,984	17,959	1,021	37,300	753	1,872	79
Miami U.	28,430	10,724	2,483	12,745	1,350	1,066	62
Northeast Ohio Medical U.	13,116	8,873	202	3,440	0	601	0
Ohio State U.	1,449,188	694,647	64,139	424,124	155,194	63,964	47,120
Ohio U.	59,877	21,919	1,041	31,828	3,767	1,011	311
U. Akron	21,525	10,709	190	7,434	1,836	746	610
U. Cincinnati	698,642	391,943	7,782	185,586	49,685	44,304	19,342
U. Toledo	67,656	37,872	1,615	22,250	2,292	3,230	397
Wright State U.	26,189	19,081	1,158	4,837	513	360	240
Youngstown State U.	3,244	2,691	244	207	47	55	0
Private	788,705	651,228	13,284	82,995	12,853	25,395	2,950

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
C. Wooster	2,209	594	0	775	0	840	0
Case Western Reserve U.	553,740	431,736	11,202	80,506	4,659	23,331	2,306
Heidelberg U.	1,254	197	799	243	0	15	0
Kenyon C.	1,371	1,092	0	147	0	132	0
Oberlin C.	1,408	880	9	463	1	55	0
U. Dayton	228,723	216,729	1,274	861	8,193	1,022	644
Oklahoma	725,008	306,252	48,667	322,017	32,707	13,151	2,214
Public	700,163	297,707	48,361	313,938	25,941	12,002	2,214
Langston U.	10,505	5,473	19	4,583	430	0	0
Oklahoma State U., Center for Health Sciences	12,500	4,773	40	7,600	11	76	0
Oklahoma State U., Stillwater	226,498	64,098	24,323	124,314	12,528	773	462
U. Central Oklahoma	7,870	2,071	833	4,867	95	3	1
U. Oklahoma, Norman and Health Science Center	436,964	219,964	22,816	169,611	12,753	10,096	1,724
U. Oklahoma, Tulsa	5,826	1,328	330	2,963	124	1,054	27
Private	24,845	8,545	306	8,079	6,766	1,149	0
U. Tulsa	24,845	8,545	306	8,079	6,766	1,149	0
Oregon	1,095,169	741,264	71,247	112,983	63,780	53,905	51,990
Public	1,072,136	729,583	70,104	104,329	63,541	52,739	51,840
Oregon Health and Science U.	517,742	374,043	1,348	48,537	53,139	40,419	256
Oregon Institute of Technology	5,585	1,375	3,931	NA	97	182	0
Oregon State U.	337,985	222,169	57,839	30,449	9,154	3,260	15,114
Portland State U.	46,324	31,731	5,312	5,753	708	2,244	576
U. Oregon	164,500	100,265	1,674	19,590	443	6,634	35,894
Private	23,033	11,681	1,143	8,654	239	1,166	150
Lewis and Clark C.	2,686	776	1	1,590	0	319	0
National U. of Natural Medicine	1,336	862	0	305	169	0	0
Pacific U.	10,719	7,133	1,098	2,053	70	365	0
Reed C.	6,750	2,420	44	3,745	0	391	150
Willamette U.	1,542	490	0	961	0	91	0
Pennsylvania	5,954,796	3,379,254	124,165	1,618,486	380,254	297,030	155,607
Public	2,932,663	1,870,736	71,081	673,582	98,940	112,351	105,973
East Stroudsburg U. Pennsylvania	2,928	909	1,421	546	0	52	0
Indiana U. Pennsylvania	6,052	1,702	532	3,293	17	508	0
Lincoln U.	628	430	126	0	0	72	0
Pennsylvania State U., Altoona	1,215	297	6	666	91	144	11

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Pennsylvania State U., Behrend	7,614	4,378	388	1,823	708	308	9
Pennsylvania State U., Harrisburg	5,159	3,045	887	742	178	303	4
Pennsylvania State U., University Park and Hershey Medical Center	1,206,793	781,303	49,379	265,205	29,300	29,539	52,067
Temple U.	292,029	154,516	6,867	81,497	25,150	16,517	7,482
U. Pittsburgh, Pittsburgh	1,398,078	916,735	11,421	315,634	43,372	64,516	46,400
U.S. Army War C.	6,035 i	6,035 i	0 i	0 i	0 i	0 i	0 i
West Chester U. Pennsylvania	6,132	1,386	54	4,176	124	392	0
Private	3,022,133	1,508,518	53,084	944,904	281,314	184,679	49,634
Arcadia U.	1,321	772	182	0	0	367	0
Bryn Mawr C.	9,039	1,289	0	7,105	16	629	0
Bucknell U.	5,887	2,359	61	2,031	299	235	902
Carnegie Mellon U.	484,757	279,954	3,623	128,082	47,152	15,669	10,277
Drexel U.	169,583	108,724	4,464	43,396	1,727	8,475	2,797
Duquesne U.	14,989	6,555	1,055	4,349	275	2,755	0
Franklin and Marshall C.	4,111	1,469	241	1,273	371	543	214
Gettysburg C.	1,099	517	0	146	0	204	232
Haverford C.	4,088	2,344	0	955	0	270	519
Lafayette C.	1,991	1,141	23	687	5	135	0
Lehigh U.	56,301	39,909	2,479	11,921	893	1,081	18
Philadelphia C. of Osteopathic Medicine	7,459	442	59	2,848	2,547	1,563	0
Robert Morris U.	1,419	664	79	632	22	22	0
Saint Joseph's U.	8,675	2,680	1,129	1,657	2,517	434	258
Swarthmore C.	5,620	2,315	6	2,578	0	697	24
Thomas Jefferson U.	258,345	110,366	10,315	76,704	21,845	13,815	25,300
U. Pennsylvania	1,953,617	936,469	27,849	642,815	203,003	134,455	9,026
U. Scranton	1,169	866	2	212	20	69	0
Ursinus C.	1,150	942	112	0	0	96	0
Villanova U.	31,513	8,741	1,405	17,513	622	3,165	67
Rhode Island	513,818	355,462	6,749	93,812	8,286	38,924	10,585
Public	150,671	108,661	6,615	29,165	2,094	3,494	642
Naval War C.	5,819	5,819	0	0	0	0	0
Rhode Island C.	839	786	0	NA	0	53	0
U. Rhode Island	144,013	102,056	6,615	29,165	2,094	3,441	642
Private	363,147	246,801	134	64,647	6,192	35,430	9,943
Brown U.	353,591	239,744	32	63,031	6,120	34,721	9,943

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Bryant U.	558	436	0	122	0	0	0
Providence C.	5,533	4,648	0	582	0	303	0
Roger Williams U.	3,465	1,973	102	912	72	406	0
South Carolina	918,964	447,154	54,225	328,962	51,644	22,550	14,429
Public	912,972	442,771	54,193	328,480	50,881	22,235	14,412
C. Charleston	7,231	5,036	274	1,285	64	571	1
Citadel Military C. South Carolina	3,757	3,287	159	258	0	0	53
Clemson U.	286,503	129,955	29,268	100,954	21,139	5,110	77
Coastal Carolina U.	4,729	1,847	1,004	1,694	0	184	0
Medical U. South Carolina	333,826	168,957	7,944	110,106	26,042	8,152	12,625
South Carolina State U.	7,814	5,330	1,531	890	0	63	0
U. South Carolina, Aiken	2,250	782	0	1,453	0	15	0
U. South Carolina, Beaufort	1,466	889	43	417	0	117	0
U. South Carolina, Columbia	262,207	124,330	13,916	110,716	3,629	7,960	1,656
Winthrop U.	3,189	2,358	54	707	7	63	0
Private	5,992	4,383	32	482	763	315	17
Benedict C.	2,307	1,665	0	0	635	7	0
Clafin U.	1,418	1,418	0	0	0	0	0
Furman U.	2,267	1,300	32	482	128	308	17
South Dakota	129,045	61,993	22,579	22,583	2,454	4,095	15,341
Public	129,045	61,993	22,579	22,583	2,454	4,095	15,341
Black Hills State U.	2,260	1,918	82	258	0	2	0
Dakota State U.	5,253	2,437	231	660	692	25	1,208
South Dakota School of Mines and Technology	20,337	14,640	2,673	2,381	286	35	322
South Dakota State U.	71,340	28,897	17,795	6,156	1,432	3,251	13,809
U. South Dakota	29,855	14,101	1,798	13,128	44	782	2
Tennessee	1,972,549	1,072,733	46,239	658,055	101,062	66,247	28,213
Public	688,937	299,186	42,178	296,259	14,721	23,111	13,482
Austin Peay State U.	3,950	1,401	1,385	530	0	100	534
East Tennessee State U.	42,335	10,776	2,889	24,910	130	3,601	29
Middle Tennessee State U.	9,577	3,822	488	4,173	143	943	8
Tennessee State U.	28,246	15,983	1,177	10,740	155	187	4
Tennessee Technological U.	20,797	9,975	5,675	4,623	120	116	288
U. Memphis	100,042	26,913	9,680	58,132	1,839	3,273	205
U. Tennessee, Chattanooga	14,671	6,003	893	6,585	252	381	557

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Tennessee, Health Science Center	130,472	70,676	6,816	34,783	4,183	6,814	7,200
U. Tennessee, Knoxville	338,847	153,637	13,175	151,783	7,899	7,696	4,657
Private	1,283,612	773,547	4,061	361,796	86,341	43,136	14,731
Fisk U.	4,867	3,819	240	304	0	504	0
Lincoln Memorial U.	1,641	2	0	1,589	4	46	0
Lipscomb U.	1,946	309	0	1,571	8	58	0
Meharry Medical C.	22,002	18,398	0	603	64	2,937	0
Vanderbilt U. and Vanderbilt U. Medical Center	1,253,156	751,019	3,821	357,729	86,265	39,591	14,731
Texas	8,330,578	3,560,492	1,055,701	2,360,953	560,247	485,865	307,320
Public	7,045,228	2,950,984	1,006,721	1,906,221	505,101	375,874	300,327
Lamar U.	9,168	2,259	6,124	277	342	166	0
Prairie View A&M U.	21,791	12,354	4,391	3,550	490	1,006	0
Sam Houston State U.	11,760	3,307	579	6,787	235	315	537
Stephen F. Austin State U.	3,661	1,098	1,648	541	32	225	117
Sul Ross State U.	4,878	1,568	1,223	1,804	0	283	0
Tarleton State U.	23,345	5,478	4,392	12,689	286	500	0
Texas A&M International U.	5,602	1,966	1,011	1,542	170	913	0
Texas A&M U., College Station and Health Science Center	1,277,814	546,481	251,300	353,916	37,390	53,710	35,017
Texas A&M U.-Commerce	7,029	1,936	809	3,726	3	494	61
Texas A&M U.-Corpus Christi	39,305	17,742	10,790	5,118	230	2,783	2,642
Texas A&M U.-Kingsville	26,401	9,584	7,058	3,311	487	5,932	29
Texas A&M U.-San Antonio	1,593	1,233	51	51	4	224	30
Texas Southern U.	16,287	10,969	1,227	4,042	0	49	0
Texas State U.	141,291	44,297	4,667	83,686	1,378	7,106	157
Texas Tech U.	240,107	58,922	28,095	122,202	15,461	14,994	433
Texas Tech U., Health Sciences Center	48,638	14,732	18,670	9,432	608	3,205	1,991
Texas Tech U., Health Sciences Center, El Paso	13,189	2,415	3,097	6,947	229	501	0
Texas Woman's U.	6,922	2,439	2,136	1,396	166	785	0
U. Houston	231,942	99,450	28,641	84,315	8,565	6,492	4,479
U. Houston-Clear Lake	2,127	1,273	251	48	533	22	0
U. Houston-Downtown	1,967	1,495	183	140	68	81	0
U. North Texas, Denton	106,665	30,017	5,695	63,577	1,907	2,170	3,299
U. North Texas, Health Science Center	94,652	77,660	3,180	11,773	847	1,003	189
U. Texas Health Science Center, Houston	374,105	197,759	48,815	66,008	17,466	34,341	9,716
U. Texas Health Science Center, San Antonio	281,078	143,730	30,582	70,676	10,393	25,514	183

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Texas Health Science Center, Tyler	32,077	12,555	10,087	3,795	172	5,468	0
U. Texas M. D. Anderson Cancer Center	1,255,190	259,285	300,907	256,545	248,261	38,163	152,029
U. Texas Medical Branch	233,192	150,272	7,479	58,807	6,138	10,496	0
U. Texas of the Permian Basin	2,769	1,013	525	832	190	7	202
U. Texas Rio Grande Valley	82,444	25,068	4,367	37,248	569	15,016	176
U. Texas Southwestern Medical Center	800,391	336,126	95,710	191,493	46,325	66,076	64,661
U. Texas, Arlington	147,265	56,337	28,343	50,435	5,284	4,708	2,158
U. Texas, Austin	1,035,838	621,223	37,601	235,987	79,753	52,764	8,510
U. Texas, Dallas	146,779	66,127	13,085	38,169	12,518	16,383	497
U. Texas, El Paso	145,724	70,873	16,687	44,987	1,268	1,770	10,139
U. Texas, San Antonio	158,453	58,171	21,583	67,694	5,971	1,988	3,046
U. Texas, Tyler	3,487	1,652	960	432	227	187	29
West Texas A&M U.	10,302	2,118	4,772	2,243	1,135	34	0
Private	1,285,350	609,508	48,980	454,732	55,146	109,991	6,993
Abilene Christian U.	8,182	946	0	194	6,934	108	0
Baylor C. of Medicine	847,305	440,345	34,061	282,695	33,100	57,104	0
Baylor U.	82,074	17,147	2,879	45,076	3,460	12,667	845
Rice U.	255,115	119,853	9,801	78,447	7,506	33,684	5,824
Southern Methodist U.	59,749	19,986	1,393	33,204	1,601	3,399	166
St. Edward's U.	1,334	315	186	762	0	71	0
Texas Christian U.	24,050	7,627	658	12,066	2,491	1,069	139
Trinity U.	5,296	2,203	2	1,238	0	1,834	19
U. of the Incarnate Word	2,245	1,086	0	1,050	54	55	0
Utah	1,264,913	771,302	33,925	344,224	60,959	38,890	15,613
Public	1,127,165	740,086	32,780	244,563	57,979	36,241	15,516
U. Utah	723,713	416,079	4,670	214,320	48,761	35,413	4,470
Utah State U.	401,437	322,336	27,831	30,207	9,204	813	11,046
Utah Valley U.	2,015	1,671	279	36	14	15	0
Private	137,748	31,216	1,145	99,661	2,980	2,649	97
Brigham Young U., Provo	137,748	31,216	1,145	99,661	2,980	2,649	97
Vermont	238,418	132,575	647	86,274	4,622	7,686	6,614
Public	233,806	128,645	632	85,988	4,622	7,305	6,614
U. Vermont	233,806	128,645	632	85,988	4,622	7,305	6,614
Private	4,612	3,930	15	286	0	381	0
Middlebury C.	2,975	2,564	10	25	0	376	0

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Norwich U.	1,637	1,366	5	261	0	5	0
Virginia	2,297,277	1,060,874	166,858	765,680	101,569	113,653	88,643
Public	2,272,352	1,048,444	166,688	754,141	101,521	112,940	88,618
Christopher Newport U.	3,507	2,055	0	1,218	94	140	0
Eastern Virginia Medical School	23,991	17,947	329	3,650	1,277	612	176
George Mason U.	252,239	125,437	4,311	66,769	8,346	40,831	6,545
James Madison U.	21,265	3,475	925	16,041	18	780	26
Norfolk State U.	6,194	4,381	574	677	182	380	0
Old Dominion U.	71,334	31,104	13,535	23,954	387	1,915	439
Radford U.	1,315	109	135	903	13	155	0
U. of Mary Washington	1,115	406	57	548	0	79	25
U. Virginia's C. Wise	1,223	447	367	333	0	69	7
U. Virginia, Charlottesville	714,457	354,748	13,101	214,946	31,588	31,392	68,682
Virginia Commonwealth U.	479,930	184,852	47,846	207,023	22,681	17,458	70
Virginia Military Institute	2,350	1,534	296	510	0	10	0
Virginia Polytechnic Institute and State U.	598,113	282,152	78,279	179,590	35,761	13,021	9,310
Virginia State U.	13,504	7,166	3,051	2,566	0	713	8
William & Mary	81,815	32,631	3,882	35,413	1,174	5,385	3,330
Private	24,925	12,430	170	11,539	48	713	25
Edward Via C. of Osteopathic Medicine	7,597	678	136	6,699	0	84	0
Hampton U.	9,769	9,445	0	324	0	0	0
Liberty U.	1,900	532	5	1,315	48	0	0
Marymount U.	2,601	396	29	1,983	0	193	0
U. Richmond	3,058	1,379	0	1,218	0	436	25
Washington	2,160,233	1,421,205	100,606	220,368	83,780	278,503	55,771
Public	2,153,103	1,418,291	100,528	217,331	83,725	277,457	55,771
Central Washington U.	3,683	2,499	650	282	85	132	35
Eastern Washington U.	2,546	1,015	1,198	NA	8	221	104
Northwest Indian C.	6,184 i	4,595 i	0 i	1,589 i	0 i	0 i	0 i
U. Washington, Bothell	5,738	3,787	617	486	1	667	180
U. Washington, Seattle	1,734,091	1,188,836	33,833	125,390	71,487	260,986	53,559
U. Washington, Tacoma	6,243	3,875	1,393	278	1	520	176
Washington State U.	378,744	207,086	61,333	84,199	12,077	12,411	1,638
Western Washington U.	15,874	6,598	1,504	5,107	66	2,520	79
Private	7,130	2,914	78	3,037	55	1,046	0

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Seattle U.	3,949	1,165	78	2,223	55	428	0
U. Puget Sound	1,613	1,300	0	138	0	175	0
Whitman C.	1,568	449	0	676	0	443	0
West Virginia	286,551	137,805	15,109	104,390	5,487	4,147	19,613
Public	286,551	137,805	15,109	104,390	5,487	4,147	19,613
Marshall U.	33,693	19,797	1,606	10,608	510	1,172	0
West Virginia School of Osteopathic Medicine	1,459 i	500 i	12 i	947 i	0 i	0 i	0 i
West Virginia State U.	5,226	2,800	1,804	521	0	101	0
West Virginia U.	246,173	114,708	11,687	92,314	4,977	2,874	19,613
Wisconsin	2,215,597	1,030,352	149,015	692,683	91,176	190,827	61,544
Public	1,816,328	853,292	147,975	560,654	49,369	155,052	49,986
U. Wisconsin-Eau Claire	2,191	1,027	509	389	248	10	8
U. Wisconsin-Green Bay	2,801	1,222	556	868	52	103	0
U. Wisconsin-La Crosse	2,921	714	804	639	709	44	11
U. Wisconsin-Madison	1,731,949	816,814	125,524	542,782	46,133	153,068	47,628
U. Wisconsin-Milwaukee	60,712	25,612	17,207	13,084	1,431	1,450	1,928
U. Wisconsin-Oshkosh	2,087	1,249	136	545	157	0	0
U. Wisconsin-Platteville	1,481 i	465 i	378 i	249 i	339 i	39 i	11 i
U. Wisconsin-River Falls	2,772	551	1,832	39	213	0	137
U. Wisconsin-Stevens Point	4,589	2,079	948	997	0	302	263
U. Wisconsin-Superior	4,825	3,559	81	1,062	87	36	0
Private	399,269	177,060	1,040	132,029	41,807	35,775	11,558
Marquette U.	47,819	20,055	246	18,010	879	2,385	6,244
Medical C. Wisconsin	346,691	155,403	754	113,726	38,419	33,075	5,314
Milwaukee School of Engineering	3,317	722	0	71	2,509	15	0
Northland C.	1,442 i	880 i	40 i	222 i	0 i	300 i	0 i
Wyoming	150,124	68,467	7,464	67,771	2,848	1,934	1,640
Public	150,124	68,467	7,464	67,771	2,848	1,934	1,640
U. Wyoming	150,124	68,467	7,464	67,771	2,848	1,934	1,640
Guam	22,388	18,992	2,252	1,083	59	2	0
Public	22,388	18,992	2,252	1,083	59	2	0
U. Guam	22,388	18,992	2,252	1,083	59	2	0
Puerto Rico	115,688	83,228	1,204	25,699	3,966	1,409	182
Public	108,678	78,167	680	24,429	3,966	1,409	27
U. Puerto Rico, Cayey	1,519	733	0	412	0	374	0

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Puerto Rico, Humacao	2,074	1,822	0	252	0	0	0
U. Puerto Rico, Mayaguez	13,989	12,260	193	421	455	660	0
U. Puerto Rico, Medical Sciences Campus	61,235	46,789	406	10,781	3,259	0	0
U. Puerto Rico, Ponce	659	510	0	149	0	0	0
U. Puerto Rico, Rio Piedras	29,202	16,053	81	12,414	252	375	27
Private	7,010	5,061	524	1,270	0	0	155
U. Ana G. Mendez, Gurabo	2,132	2,132	0	0	0	0	0
U. Central del Caribe	4,878	2,929	524	1,270	0	0	155
Virgin Islands	20,259	19,127	1,010	NA	48	74	0
Public	20,259	19,127	1,010	NA	48	74	0
U. of the Virgin Islands	20,259	19,127	1,010	NA	48	74	0

i = imputed. NA = not available; data were not provided by institution.

^a The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^b Johns Hopkins University includes the Applied Physics Laboratory, with \$2,333,049 thousand in total R&D expenditures in FY 2023.

^c The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
United States	108,681,008	3,617,348	4,032,534	62,204,360	1,060,700	6,944,769	1,637,829	3,615,227	1,194,804	17,468,446	6,904,991
Public	71,001,044	2,194,296	3,221,273	38,574,747	579,196	4,443,444	1,237,096	2,403,419	925,742	12,463,140	4,958,691
Private	37,679,964	1,423,052	811,261	23,629,613	481,504	2,501,325	400,733	1,211,808	269,062	5,005,306	1,946,300
Alabama	1,579,469	76,492	58,784	952,050	9,550	62,399	25,954	21,792	4,615	256,611	111,222
Public	1,553,844	75,569	58,784	933,861	8,934	60,258	25,954	21,787	4,143	253,349	111,205
Alabama A&M U.	15,588	557	0	9,197	118	1,143	310	447	0	3,018	798
Alabama State U.	3,229	255	0	2,579	141	0	0	0	0	14	240
Auburn U., Auburn	349,273	6,337	5,277	147,192	4,229	19,616	3,763	4,507	3,879	108,344	46,129
Troy U.	3,785	0	133	373	0	2,538	12	24	0	47	658
U. Alabama, Birmingham	780,479	1,013	0	721,450	169	5,624	11,715	782	0	28,505	11,221
U. Alabama, Huntsville	163,428	47,962	24,941	3,100	775	19,243	405	1,910	0	55,164	9,928
U. Alabama, Tuscaloosa	184,880	18,813	16,822	23,853	2,918	11,124	5,690	13,350	264	51,029	41,017
U. South Alabama	53,182	632	11,611	26,117	584	970	4,059	767	0	7,228	1,214
Private	25,625	923	0	18,189	616	2,141	0	5	472	3,262	17
Tuskegee U.	25,625	923	0	18,189	616	2,141	0	5	472	3,262	17
Alaska	241,536	387	116,787	48,907	338	14,078	3	6,968	18,089	33,181	2,798
Public	239,713	387	115,052	48,900	338	14,078	3	6,968	18,089	33,181	2,717
U. Alaska, Anchorage	19,850	165	2,790	9,605	0	505	0	2,384	1,440	1,878	1,083
U. Alaska, Fairbanks	218,041	222	111,890	38,729	338	13,507	3	4,498	16,108	31,211	1,535
U. Alaska, Southeast	1,822	0	372	566	0	66	0	86	541	92	99
Private	1,823	0	1,735	7	0	0	0	0	0	0	81
Alaska Pacific U.	1,823	0	1,735	7	0	0	0	0	0	0	81
Arizona	1,939,790	56,383	109,494	752,985	10,350	240,438	27,797	121,133	45,284	374,824	201,102
Public	1,939,790	56,383	109,494	752,985	10,350	240,438	27,797	121,133	45,284	374,824	201,102
Arizona State U.	903,779	33,267	59,803	179,408	2,786	59,230	17,382	93,071	30,565	265,026	163,241
Dine C.	3,054	0	0	2,551	0	0	0	0	0	147	356
Northern Arizona U.	77,533	4,797	5,518	48,110	34	7,952	196	520	1,472	5,880	3,054
U. Arizona	955,424	18,319	44,173	522,916	7,530	173,256	10,219	27,542	13,247	103,771	34,451
Arkansas	457,800	10,943	3,062	320,699	903	21,128	2,121	7,782	6,171	52,589	32,402
Public	457,800	10,943	3,062	320,699	903	21,128	2,121	7,782	6,171	52,589	32,402
Arkansas State U., Jonesboro	7,323	120	0	5,853	0	342	41	193	0	660	114
U. Arkansas for Medical Sciences	209,409	0	0	209,409	0	0	0	0	0	0	0
U. Arkansas, Fayetteville	221,525	7,865	2,987	96,316	896	19,209	2,080	7,479	5,694	49,645	29,354

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Arkansas, Little Rock	8,685	2,804	0	1,821	0	452	0	85	0	2,063	1,460
U. Arkansas, Pine Bluff	7,766	0	0	6,081	0	726	0	0	477	0	482
U. Central Arkansas	3,092	154	75	1,219	7	399	0	25	0	221	992
California	13,473,649	336,818	608,912	8,492,797	81,157	1,121,307	171,363	448,026	252,153	1,355,078	606,038
Public	9,596,502	169,561	502,552	5,946,565	67,941	754,161	138,334	320,416	237,921	1,033,384	425,667
California Polytechnic State U., San Luis Obispo	35,830	186	1,768	10,928	2,996	5,010	21	463	0	9,181	5,277
California State Polytechnic U., Humboldt	18,800	39	1,264	6,526	32	1,038	4	2,072	735	5,920	1,170
California State Polytechnic U., Pomona	10,722	432	4	4,204	106	1,453	19	93	50	1,673	2,688
California State U., Bakersfield	6,409	0	194	661	1,353	202	23	446	0	711	2,819
California State U., Channel Islands	3,992	149	82	1,854	536	357	7	197	609	0	201
California State U., Chico	5,984	3	485	2,734	25	396	0	110	0	1,465	766
California State U., Dominguez Hills	5,558	440	95	845	82	1,128	759	1,419	0	27	763
California State U., East Bay	21,312	136	671	2,537	180	999	418	936	0	155	15,280
California State U., Fresno	11,411	219	221	6,128	909	1,295	186	401	0	1,450	602
California State U., Fullerton	25,811	1,299	902	5,538	887	2,331	918	2,253	1,397	1,355	8,931
California State U., Long Beach	21,458	542	514	7,345	534	2,993	2,056	1,113	365	3,160	2,836
California State U., Los Angeles	10,186	499	236	1,272	10	4,354	249	648	0	2,149	769
California State U., Monterey Bay	10,678	1,294	3,299	5,232	204	349	0	148	0	23	129
California State U., Northridge	23,093	329	1,969	7,147	480	8,180	676	597	242	2,209	1,264
California State U., Sacramento	28,027	212	850	1,182	112	630	176	2,511	6,623	11,433	4,298
California State U., San Bernardino	13,152	1,228	239	1,559	462	3,067	3,229	349	208	1,108	1,703
California State U., San Marcos	11,443	640	229	2,102	52	1,109	894	140	4,551	937	789
California State U., Stanislaus	2,305	125	2	813	281	203	364	441	0	0	76
Naval Postgraduate School	77,364	9,987	11,189	529	2,375	4,107	365	8,103	7,577	27,413	5,719
San Diego State U.	158,013	2,902	2,911	46,665	4,198	10,039	23,094	7,749	8,999	16,138	35,318
San Francisco State U.	34,466	2,172	3,055	14,372	1,155	2,867	1,912	3,053	1,561	1,967	2,352
San Jose State U.	83,406	570	16,140	6,431	1,522	5,800	16,798	4,400	0	9,496	22,249
Sonoma State U.	4,625	0	2,019	744	724	145	68	134	84	67	640
U. California, Berkeley	1,076,754	15,434	11,609	290,429	11,060	234,242	20,253	87,836	109,018	209,311	87,562
U. California, Davis	962,399	6,959	38,078	682,290	4,722	36,471	4,171	38,849	10,491	124,470	15,898
U. California, Irvine	609,614	26,089	11,236	369,735	8,818	43,790	14,662	13,104	457	84,902	36,821
U. California, Los Angeles	1,721,665	19,118	52,655	1,222,724	11,947	61,410	20,440	86,049	58,077	113,969	75,276
U. California, Merced	62,279	1,864	3,811	10,265	1,650	6,930	365	4,460	4,708	21,052	7,174

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Colorado	2,084,784	34,831	215,173	1,075,561	10,747	225,362	32,208	41,264	17,239	336,018	96,381
Public	2,028,802	34,243	214,899	1,067,551	10,499	222,830	23,956	33,538	17,155	332,406	71,725
Colorado School of Mines	104,297	3,677	13,053	1,960	969	18,977	46	1,088	345	61,175	3,007
Colorado State U., Fort Collins	498,073	4,521	59,772	313,226	3,310	19,169	3,362	13,333	14,204	52,539	14,637
Colorado State U., Pueblo	1,624	158	0	1,395	0	0	0	63	0	8	0
Fort Lewis C.	3,372	24	35	1,054	0	725	0	0	0	628	906
U. Colorado Anschutz Medical Campus	686,026	0	183	676,151	0	521	1,487	394	0	842	6,448
U. Colorado Boulder	651,924	21,212	140,081	61,853	4,116	179,084	16,643	16,815	1,576	175,118	35,426
U. Colorado Colorado Springs	7,012	2,705	227	566	86	377	325	310	0	1,144	1,272
U. Colorado Denver	22,530	573	893	5,291	1,613	1,924	1,218	432	16	4,511	6,059
U. Northern Colorado	9,064	88	602	1,925	371	374	875	985	0	0	3,844
U.S. Air Force Academy	44,880	1,285	53	4,130	34	1,679	0	118	1,014	36,441	126
Private	55,982	588	274	8,010	248	2,532	8,252	7,726	84	3,612	24,656
Colorado C.	2,498	77	164	263	142	283	69	703	0	0	797
U. Denver	53,484	511	110	7,747	106	2,249	8,183	7,023	84	3,612	23,859
Connecticut	1,757,255	20,234	21,077	1,383,044	8,236	82,805	44,568	32,932	4,464	114,613	45,282
Public	401,244	7,342	12,383	224,016	3,112	16,416	31,387	10,048	3,503	72,977	20,060
Central Connecticut State U.	934	27	10	95	40	82	21	219	0	172	268
Eastern Connecticut State U.	1,449	65	30	83	117	7	158	34	3	0	952
Southern Connecticut State U.	8,007	196	372	1,275	14	893	319	462	381	0	4,095
U. Connecticut	390,165	6,946	11,951	222,563	2,934	15,372	30,889	9,126	3,119	72,672	14,593
U.S. Coast Guard Academy	689	108	20	0	7	62	0	207	0	133	152
Private	1,356,011	12,892	8,694	1,159,028	5,124	66,389	13,181	22,884	961	41,636	25,222
Connecticut C.	1,440	66	0	518	0	144	189	35	0	0	488
Fairfield U.	1,484	92	6	131	118	76	92	64	47	225	633
Hartford International U. for Religion and Peace	1,485	0	0	0	0	0	0	0	0	0	1,485
Sacred Heart U.	4,733	436	0	931	166	161	102	595	0	0	2,342
Trinity C., Hartford	4,099	160	0	749	226	271	314	817	0	71	1,491
U. Hartford	1,533	15	0	115	48	32	33	174	0	1,067	49
U. New Haven	3,602	992	132	404	1	131	231	1,453	0	120	138
Wesleyan U.	10,828	0	963	1,998	659	2,538	1,193	250	85	0	3,142
Yale U.	1,326,807	11,131	7,593	1,154,182	3,906	63,036	11,027	19,496	829	40,153	15,454
Delaware	461,627	13,609	28,109	110,310	7,204	62,149	12,849	27,132	13,262	162,313	24,690

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Public	461,627	13,609	28,109	110,310	7,204	62,149	12,849	27,132	13,262	162,313	24,690
Delaware State U.	33,499	1,071	1,451	20,808	803	5,666	473	787	1,296	419	725
U. Delaware	428,128	12,538	26,658	89,502	6,401	56,483	12,376	26,345	11,966	161,894	23,965
District of Columbia	925,418	39,874	2,379	440,837	6,991	66,946	12,810	109,392	20,556	47,222	178,411
Public	10,439	494	146	507	227	7	284	2,001	145	3,342	3,286
National Defense U.	2,494	143	0	400	0	0	0	1,951	0	0	0
U. of the District of Columbia	7,945	351	146	107	227	7	284	50	145	3,342	3,286
Private	914,979	39,380	2,233	440,330	6,764	66,939	12,526	107,391	20,411	43,880	175,125
American U.	76,041	733	1,082	1,584	1,501	4,853	1,266	18,962	5,880	0	40,180
Catholic U. of America	47,022	118	0	1,689	202	32,191	1,232	935	0	3,217	7,438
Gallaudet U.	9,894	2,868	36	3,261	102	308	521	2,028	0	0	770
George Washington U.	360,260	9,922	1,115	186,518	1,737	8,736	5,528	38,480	11,498	29,442	67,284
Georgetown U.	337,006	18,504	0	198,724	2,853	13,835	2,003	45,315	3,033	0	52,739
Howard U.	84,756	7,235	0	48,554	369	7,016	1,976	1,671	0	11,221	6,714
Florida	3,518,895	126,116	189,845	1,845,274	24,673	237,168	119,445	117,604	23,990	465,713	369,067
Public	2,914,461	116,508	110,676	1,417,400	21,821	220,354	98,077	112,955	22,322	438,776	355,572
Florida A&M U.	65,159	220	5,377	31,768	33	2,201	120	467	0	9,530	15,443
Florida Atlantic U.	77,593	4,999	890	35,633	1,112	3,509	2,749	1,089	0	17,629	9,983
Florida Gulf Coast U.	24,899	3	3,744	2,748	77	376	50	285	0	221	17,395
Florida International U.	306,434	22,726	29,061	71,169	3,628	31,704	41,054	21,873	3,554	56,199	25,466
Florida Polytechnic U.	2,260	486	0	0	30	7	0	75	0	1,404	258
Florida State U.	414,463	10,374	20,511	75,107	8,048	78,948	19,078	25,182	6,239	67,635	103,341
New C. Florida	1,080	99	21	720	43	40	14	38	0	32	73
U. Central Florida	247,259	30,129	6,932	39,523	2,971	45,916	9,837	8,249	6,424	68,340	28,938
U. Florida	1,250,201	20,449	19,578	922,704	2,928	43,930	15,487	17,586	4,575	150,126	52,838
U. North Florida	23,269	861	9	2,718	27	1,544	1,744	1,011	0	4,313	11,042
U. South Florida	461,390	18,841	24,544	232,123	2,902	10,460	7,605	33,891	1,490	62,025	67,509
U. West Florida	40,454	7,321	9	3,187	22	1,719	339	3,209	40	1,322	23,286
Private	604,434	9,608	79,169	427,874	2,852	16,814	21,368	4,649	1,668	26,937	13,495
Embry-Riddle Aeronautical U.	27,451	2,014	2,085	636	681	6,884	0	135	0	13,774	1,242
Florida Institute of Technology	16,859	3,416	3,062	1,682	210	2,408	819	0	0	5,021	241
Nova Southeastern U.	50,173	1,022	12,274	26,746	268	359	2,278	2,439	1,366	108	3,313
U. Miami	509,951	3,156	61,748	398,810	1,693	7,163	18,271	2,075	302	8,034	8,699

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Georgia	3,663,637	224,850	45,666	1,707,328	25,995	116,499	54,311	96,329	10,158	1,157,958	224,543
Public	2,445,990	218,386	42,141	635,599	21,960	76,995	48,344	90,342	8,383	1,098,146	205,694
Albany State U.	1,932	57	0	158	60	111	0	169	188	1,177	12
Augusta U.	139,121	896	0	134,668	136	187	177	94	0	0	2,963
Fort Valley State U.	15,536	0	70	15,331	17	118	0	0	0	0	0
Georgia Institute of Technology	1,405,080	198,783	13,138	42,645	9,953	39,186	4,464	7,944	0	1,061,402	27,565
Georgia Southern U.	40,026	1,032	884	7,695	1,542	6,163	1,027	4,880	50	4,200	12,553
Georgia State U.	237,493	6,583	1,883	84,391	2,428	19,102	12,584	37,953	0	0	72,569
Kennesaw State U.	32,497	4,916	0	7,045	876	323	15	426	0	3,445	15,451
Savannah State U.	1,706	0	522	318	0	85	0	74	205	502	0
U. Georgia	570,956	5,970	25,512	343,271	6,927	11,502	30,072	38,671	7,940	27,420	73,671
U. North Georgia	1,643	149	132	77	21	218	5	131	0	0	910
Private	1,217,647	6,464	3,525	1,071,729	4,035	39,504	5,967	5,987	1,775	59,812	18,849
Clark Atlanta U.	10,320	113	0	5,873	845	3,168	0	0	0	114	207
Emory U.	1,094,328	5,494	3,189	998,674	1,840	31,085	4,712	5,560	0	26,414	17,360
Mercer U.	45,247	147	0	8,788	238	1,664	268	115	159	33,284	584
Morehouse C.	5,750	641	0	400	0	2,813	46	0	1,471	0	379
Morehouse School of Medicine	57,125	0	0	57,125	0	0	0	0	0	0	0
Spelman C.	4,877	69	336	869	1,112	774	941	312	145	0	319
Hawaii	339,716	24,004	104,978	140,981	599	25,883	603	3,243	6,205	29,058	4,162
Public	336,803	23,864	104,404	138,785	599	25,883	603	3,243	6,205	29,058	4,159
U. Hawaii, Hilo	8,112	286	1,981	4,929	6	268	0	337	291	0	14
U. Hawaii, Manoa	313,143	22,818	88,512	133,335	593	25,554	603	2,906	5,914	29,058	3,850
U. Hawaii, Maui C.	1,376	186	313	521	0	61	0	0	0	0	295
U. Hawaii, system office	14,172	574	13,598	0	0	0	0	0	0	0	0
Private	2,913	140	574	2,196	0	0	0	0	0	0	3
Hawaii Pacific U.	2,913	140	574	2,196	0	0	0	0	0	0	3
Idaho	206,438	10,385	11,499	112,377	1,528	12,074	731	6,592	5,061	35,752	10,439
Public	206,438	10,385	11,499	112,377	1,528	12,074	731	6,592	5,061	35,752	10,439
Boise State U.	52,989	3,449	4,255	12,924	646	7,828	324	2,564	973	17,088	2,938
Idaho State U.	17,548	1,596	1,893	5,984	70	1,225	43	183	826	5,435	293
U. Idaho	135,901	5,340	5,351	93,469	812	3,021	364	3,845	3,262	13,229	7,208
Illinois	3,476,127	174,381	42,498	2,082,300	20,269	308,452	41,358	93,832	54,491	489,572	168,974

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Public	1,468,622	115,638	29,883	657,166	11,365	127,467	21,738	32,814	32,311	334,362	105,878
Chicago State U.	3,756	8	0	1,984	0	1,534	0	230	0	0	0
Illinois State U.	32,961	353	620	5,174	255	2,138	54	1,093	0	0	23,274
Northeastern Illinois U.	2,262	481	44	1,271	0	0	0	11	0	0	455
Northern Illinois U.	29,134	1,297	1,540	2,809	114	6,765	893	5,104	0	4,565	6,047
Southern Illinois U., Carbondale	58,291	893	2,121	38,745	133	2,547	1,348	3,644	1,618	3,183	4,059
Southern Illinois U., Edwardsville	21,927	129	321	12,048	0	955	104	212	361	6,427	1,370
U. Illinois, Chicago	492,936	12,543	1,331	347,162	5,823	28,674	4,041	11,499	12,958	46,820	22,085
U. Illinois, Springfield	2,508	0	0	3	0	0	64	930	21	0	1,490
U. Illinois, Urbana-Champaign	821,023	99,934	23,906	245,437	5,040	84,748	15,234	9,883	17,353	272,650	46,838
Western Illinois U.	3,824	0	0	2,533	0	106	0	208	0	717	260
Private	2,007,505	58,743	12,615	1,425,134	8,904	180,985	19,620	61,018	22,180	155,210	63,096
DePaul U.	13,267	1,399	456	3,609	168	16	267	544	0	106	6,702
Erikson Institute	2,414	0	0	0	0	0	0	0	0	0	2,414
Illinois Institute of Technology	33,021	3,514	94	12,293	412	3,038	0	14	158	13,311	187
Loyola U., Chicago	52,445	973	0	44,733	82	1,796	1,343	1,578	0	151	1,789
Midwestern U.	12,725	0	0	12,725	0	0	0	0	0	0	0
Northwestern U.	1,114,269	13,831	1,795	816,739	2,311	97,816	3,316	23,363	22,022	93,785	39,291
Rosalind Franklin U. of Medicine and Science	11,629	0	0	11,116	0	0	513	0	0	0	0
Rush U.	132,394	0	0	128,200	0	0	4,194	0	0	0	0
Toyota Technological Institute, Chicago	4,636	4,636	0	0	0	0	0	0	0	0	0
U. Chicago	628,302	34,390	10,053	395,289	5,931	78,200	9,445	34,694	0	47,857	12,443
Wheaton C., Wheaton	2,403	0	217	430	0	119	542	825	0	0	270
Indiana	2,146,500	109,198	17,830	978,750	13,106	156,335	33,599	97,366	36,112	511,997	192,207
Public	1,810,152	86,028	17,830	940,923	7,284	96,508	27,002	81,233	18,478	398,144	136,722
Ball State U.	11,650	56	0	5,898	100	1,277	446	570	0	32	3,271
Indiana State U.	1,327	0	137	461	0	16	0	0	0	59	654
Indiana U., Bloomington	853,056	47,950	6,894	623,240	3,010	30,417	16,940	44,795	12,069	25,104	42,637
Indiana U., South Bend	1,593	5	0	141	0	392	177	34	324	0	520
Indiana U.-Purdue U., Indianapolis	87,648	6,191	1,598	27,536	601	3,382	3,439	18,507	2,959	9,390	14,045
Purdue U., Fort Wayne	2,804	0	0	438	458	99	151	231	229	192	1,006
Purdue U., Northwest	7,504	510	0	1,035	0	302	10	0	261	3,078	2,308
Purdue U., West Lafayette	844,570	31,316	9,201	282,174	3,115	60,623	5,839	17,096	2,636	360,289	72,281

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Private	336,348	23,170	0	37,827	5,822	59,827	6,597	16,133	17,634	113,853	55,485
Butler U.	1,396	0	0	821	4	406	11	28	0	0	126
Marian U., Indianapolis	3,009	0	0	1,774	43	33	0	9	569	0	581
U. Notre Dame	331,943	23,170	0	35,232	5,775	59,388	6,586	16,096	17,065	113,853	54,778
Iowa	1,102,499	11,105	8,740	659,110	21,432	97,394	13,819	16,605	2,983	198,361	72,950
Public	1,087,521	10,363	8,728	652,257	21,047	95,875	13,785	15,064	2,983	198,361	69,058
Iowa State U.	420,823	6,326	5,103	172,991	19,968	31,219	3,350	8,107	435	140,782	32,542
U. Iowa	662,134	4,037	3,415	478,820	1,074	63,779	10,435	4,172	2,535	57,579	36,288
U. Northern Iowa	4,564	0	210	446	5	877	0	2,785	13	0	228
Private	14,978	742	12	6,853	385	1,519	34	1,541	0	0	3,892
Des Moines U.	3,932	0	12	3,560	0	0	0	246	0	0	114
Drake U.	1,724	7	0	486	86	158	6	14	0	0	967
Grinnell C.	7,597	735	0	1,082	299	1,361	28	1,281	0	0	2,811
Palmer C. of Chiropractic, Davenport	1,725	0	0	1,725	0	0	0	0	0	0	0
Kansas	1,054,041	10,037	16,436	395,732	4,862	34,332	17,328	14,451	20,292	394,519	146,052
Public	1,054,041	10,037	16,436	395,732	4,862	34,332	17,328	14,451	20,292	394,519	146,052
Kansas State U.	217,992	3,858	299	129,457	3,353	12,230	4,857	10,652	8,279	30,352	14,655
Pittsburg State U.	2,979	0	0	430	0	39	0	49	0	2,461	0
U. Kansas	466,222	6,179	15,975	258,443	751	19,261	11,333	2,220	12,013	25,610	114,437
Wichita State U.	366,848	0	162	7,402	758	2,802	1,138	1,530	0	336,096	16,960
Kentucky	756,549	5,188	5,080	572,783	2,340	14,674	12,185	8,639	14,764	90,056	30,840
Public	756,549	5,188	5,080	572,783	2,340	14,674	12,185	8,639	14,764	90,056	30,840
Eastern Kentucky U.	1,446	0	0	458	0	598	8	63	0	69	250
Kentucky State U.	11,591	13	0	11,578	0	0	0	0	0	0	0
Morehead State U.	2,658	0	0	389	0	0	123	5	0	2,141	0
Murray State U.	3,193	0	614	1,908	166	481	0	0	0	0	24
Northern Kentucky U.	3,790	52	0	1,864	155	505	674	182	5	0	353
U. Kentucky	504,005	5,019	3,438	381,193	1,448	8,370	6,526	6,340	14,176	62,529	14,966
U. Louisville	220,568	91	65	171,778	519	3,003	3,767	1,653	583	24,702	14,407
Western Kentucky U.	9,298	13	963	3,615	52	1,717	1,087	396	0	615	840
Louisiana	1,064,385	46,804	54,843	620,505	14,076	60,469	5,437	21,083	14,314	126,384	100,470
Public	788,131	44,552	47,148	402,278	13,085	46,972	2,499	14,469	14,116	119,385	83,627
Grambling State U.	449	112	16	118	0	0	101	0	0	0	102

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Louisiana State U., Baton Rouge	384,268	10,527	41,171	181,370	8,112	36,946	1,077	5,824	12,114	63,779	23,348
Louisiana State U., Health Sciences Center, New Orleans	68,707	0	0	68,707	0	0	0	0	0	0	0
Louisiana State U., Health Sciences Center, Shreveport	35,624	0	0	35,624	0	0	0	0	0	0	0
Louisiana Tech U.	31,676	2,582	0	3,732	969	2,519	184	604	0	15,078	6,008
Northwestern State U. Louisiana	2,057 i	147 i	0 i	204 i	26 i	0 i	8 i	978 i	0 i	9 i	685 i
Southeastern Louisiana U.	2,858	266	0	1,357	0	427	0	30	0	140	638
Southern U. and A&M C., Agricultural Research and Extension Center	7,764	0	0	7,764	0	0	0	0	0	0	0
Southern U. and A&M C., Baton Rouge	5,201	417	0	1,211	100	433	0	40	0	2,338	662
Southern U., New Orleans	1,004	0	0	536	0	0	0	0	0	0	468
U. Louisiana, Lafayette	225,924	27,922	4,887	98,792	3,236	4,358	95	4,916	1,479	35,532	44,707
U. Louisiana, Monroe	2,203	0	127	1,682	0	195	0	169	0	0	30
U. New Orleans	20,396	2,579	947	1,181	642	2,094	1,034	1,908	523	2,509	6,979
Private	276,254	2,252	7,695	218,227	991	13,497	2,938	6,614	198	6,999	16,843
Dillard U.	2,296	0	33	1,498	14	163	0	1	198	85	304
Tulane U.	258,439	1,712	7,662	209,699	977	5,633	2,938	6,522	0	6,779	16,517
Xavier U. Louisiana	15,519	540	0	7,030	0	7,701	0	91	0	135	22
Maine	211,287	4,728	28,836	59,066	996	9,116	974	5,683	16,672	72,641	12,575
Public	194,620	4,309	27,687	47,646	753	7,816	742	4,915	16,672	72,641	11,439
U. Maine	188,690	2,517	27,518	46,999	718	7,816	742	2,212	16,590	72,340	11,238
U. Southern Maine	5,930	1,792	169	647	35	0	0	2,703	82	301	201
Private	16,667	419	1,149	11,420	243	1,300	232	768	0	0	1,136
Bates C.	2,118	221	118	1,378	11	175	60	73	0	0	82
Bowdoin C.	3,339	125	490	1,258	103	654	53	126	0	0	530
Colby C.	4,454	73	101	2,502	127	456	119	568	0	0	508
U. New England	6,756	0	440	6,282	2	15	0	1	0	0	16
Maryland	5,987,528	414,698	253,285	2,480,423	241,192	501,343	71,830	113,058	85,549	1,704,871	121,279
Public	2,185,943	104,870	180,747	1,215,834	10,838	168,616	63,452	101,722	21,358	211,182	107,324
Bowie State U.	2,612	892	0	1,002	14	0	0	69	0	0	635
Morgan State U.	43,868	1,109	8,663	10,795	356	3,287	286	1,864	0	10,725	6,783
Salisbury U.	14,557	357	2,719	1,962	133	396	39	532	36	3	8,380
St. Mary's C. Maryland	205	0	158	0	0	22	0	0	0	13	12
Towson U.	17,198	2,485	508	3,100	899	1,576	923	2,217	114	0	5,376
U. Baltimore	6,615	353	0	0	0	14	75	3,062	0	0	3,111

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Maryland ^a	1,385,302	80,519	87,557	719,375	6,039	135,422	11,142	72,987	18,057	183,899	70,305
U. Maryland Center for Environmental Science	53,233	0	42,880	9,006	0	132	0	318	150	0	747
U. Maryland, Baltimore County	144,262	17,976	34,435	14,790	2,353	25,604	3,086	20,411	3,001	10,631	11,975
U. Maryland, Eastern Shore	10,730	0	3,388	7,264	0	15	0	0	0	63	0
U.S. Naval Academy	10,920	1,179	439	0	1,044	2,148	0	262	0	5,848	0
Uniformed Services U. of the Health Sciences	496,441	0	0	448,540	0	0	47,901	0	0	0	0
Private	3,801,585	309,828	72,538	1,264,589	230,354	332,727	8,378	11,336	64,191	1,493,689	13,955
Johns Hopkins U. ^b	3,801,585	309,828	72,538	1,264,589	230,354	332,727	8,378	11,336	64,191	1,493,689	13,955
Massachusetts	5,174,742	264,454	310,593	2,103,132	58,559	497,004	84,952	344,163	63,583	1,059,666	388,636
Public	826,455	43,595	26,764	439,972	7,847	54,189	17,391	29,202	1,444	147,952	58,099
Framingham State U.	735	0	0	710	0	5	0	13	0	0	7
U. Massachusetts, Amherst	268,657	30,057	4,835	79,726	3,383	27,580	9,888	8,461	880	82,841	21,006
U. Massachusetts, Boston	70,978	1,944	4,352	12,213	820	3,981	6,030	12,589	564	1,298	27,187
U. Massachusetts, Dartmouth	42,018	3,116	16,141	3,229	2,210	3,547	38	313	0	11,936	1,488
U. Massachusetts, Lowell	117,336	8,478	1,436	17,363	1,434	19,076	1,435	7,826	0	51,877	8,411
U. Massachusetts, Medical School	326,731	0	0	326,731	0	0	0	0	0	0	0
Private	4,348,287	220,859	283,829	1,663,160	50,712	442,815	67,561	314,961	62,139	911,714	330,537
Amherst C.	8,152	312	845	1,485	994	1,728	333	833	524	0	1,098
Babson C.	1,957	0	0	2	55	0	0	470	0	0	1,430
Bentley U.	1,589	8	138	947	0	0	0	47	0	72	377
Boston C.	81,425	1,408	9,394	11,638	1,377	13,121	4,748	11,542	0	592	27,605
Boston U.	773,200	22,142	10,080	486,968	5,008	42,374	26,387	14,027	7,622	111,856	46,736
Brandeis U.	103,653	2,955	0	32,578	2,203	17,131	5,142	25,241	1,038	5,918	11,447
Clark U.	11,539	326	1,430	3,733	15	1,435	613	3,741	0	0	246
Franklin W. Olin C. of Engineering	2,450	0	0	0	0	0	0	0	0	2,312	138
Harvard U.	1,435,218	28,969	30,302	793,236	19,878	134,733	8,218	169,192	12,681	99,830	138,179
Massachusetts Institute of Technology	1,000,081	119,666	28,790	127,959	10,270	180,988	525	55,636	21,825	404,440	49,982
Merrimack C.	1,560	0	0	1,338	16	36	0	59	0	16	95
MGH Institute of Health Professions	7,426	0	0	6,200	0	0	0	0	0	0	1,226
Mount Holyoke C.	2,533	118	119	618	191	347	377	257	0	0	506
New England C. of Optometry	2,491	0	0	2,491	0	0	0	0	0	0	0
Northeastern U.	288,558	28,375	5,205	46,459	1,443	33,512	12,014	11,463	0	119,529	30,558
Smith C.	5,954	659	128	2,023	455	517	357	283	74	567	891

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Suffolk U.	5,164	0	73	31	0	0	1,275	1,031	0	0	2,754
Tufts U.	247,276	4,526	2,008	138,203	4,607	10,498	6,701	17,786	18,361	34,614	9,972
Wellesley C.	6,320	208	420	1,171	644	879	636	923	14	50	1,375
Western New England U.	1,115	76	0	318	35	0	0	0	0	686	0
Williams C.	6,448 i	137 i	384 i	2,592 i	119 i	768 i	235 i	606 i	0 i	0 i	1,607 i
Woods Hole Oceanographic Institution	287,825	0 i	194,513	0	0	0	0	0	0	93,312	0
Worcester Polytechnic Institute	66,353	10,974	0	3,170	3,402	4,748	0	1,824	0	37,920	4,315
Michigan	3,368,889	53,817	50,850	1,826,174	39,721	324,971	45,085	273,217	33,519	514,887	206,648
Public	3,267,371	53,736	50,683	1,738,664	39,447	322,088	44,943	272,648	33,519	512,386	199,257
Central Michigan U.	25,363	50	933	18,284	46	2,004	201	173	1,932	377	1,363
Eastern Michigan U.	8,363	47	157	3,091	272	446	230	1,039	10	534	2,537
Ferris State U.	1,915	0	0	1,411	252	179	0	0	9	0	64
Grand Valley State U.	6,231	108	2,990	1,401	75	339	74	592	0	239	413
Lake Superior State U.	2,545	0	0	2,477	0	25	0	0	0	43	0
Michigan State U.	844,076	18,855	7,557	377,253	13,271	207,802	14,085	46,373	16,262	86,949	55,669
Michigan Technological U.	103,819	8,624	16,557	11,201	2,076	4,747	826	1,343	974	54,177	3,294
Northern Michigan U.	1,871	30	100	1,080	35	15	149	70	0	0	392
Oakland U.	37,263	4,406	0	11,634	63	10,708	456	68	0	9,138	790
Saginaw Valley State U.	3,143 i	289 i	0 i	2,025 i	0 i	0 i	1 i	222 i	0 i	0 i	606 i
U. Michigan, Ann Arbor	1,925,875	17,076	19,164	1,116,866	21,033	70,259	23,483	217,488	5,664	324,306	110,536
U. Michigan, Dearborn	10,839	8	0	270	416	515	319	193	112	8,414	592
Wayne State U.	250,911	3,578	182	182,874	717	23,226	3,539	1,775	8,448	13,718	12,854
Western Michigan U. and Homer Stryker M.D. School of Medicine	45,157	665	3,043	8,797	1,191	1,823	1,580	3,312	108	14,491	10,147
Private	101,518	81	167	87,510	274	2,883	142	569	0	2,501	7,391
Albion C.	276	0	73	0	0	203	0	0	0	0	0
Andrews U.	1,255	1	21	65	28	380	0	144	0	48	568
Calvin U.	2,555	25 i	30 i	523 i	63 i	536 i	2 i	35 i	0 i	134 i	1,207 i
Hope C.	6,910	49	43	2,289	56	1,652	110	390	0	493	1,828
Lawrence Technological U.	4,632	0	0	0	127	57	0	0	0	816	3,632
U. Detroit Mercy	5,142	6	0	3,885	0	55	30	0	0	1,010	156
Van Andel Research Institute	80,748	0	0	80,748	0	0	0	0	0	0	0
Minnesota	1,365,645	25,174	19,985	972,971	9,158	50,775	35,310	41,408	3,864	149,914	57,086
Public	1,351,673	24,644	17,732	970,029	8,682	48,287	34,511	40,235	3,864	148,768	54,921

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Minnesota State U., Mankato	3,055	143	168	702	58	46	304	124	0	1,166	344
St. Cloud State U.	2,901	25	8	387	0	12	4	401	0	54	2,010
U. Minnesota, Duluth	25,534	257	621	20,530	248	619	473	326	0	1,878	582
U. Minnesota, Twin Cities	1,320,183	24,219	16,935	948,410	8,376	47,610	33,730	39,384	3,864	145,670	51,985
Private	13,972	530	2,253	2,942	476	2,488	799	1,173	0	1,146	2,165
C. of Saint Benedict	1,400 i	26 i	0 i	592 i	18 i	142 i	47 i	150 i	0 i	0 i	425 i
Carleton C.	4,185	299 i	1,775 i	265 i	260 i	390 i	309 i	491 i	0 i	1 i	395 i
Gustavus Adolphus C.	969	0	124	64	13	598	8	14	0	0	148
Macalester C.	1,935	48	238	352	96	682	8	251	0	0	260
Saint John's U.	1,479 i	26 i	0 i	618 i	17 i	142 i	49 i	164 i	0 i	0 i	463 i
St. Olaf C.	1,724	129	111	908	71	196	42	90	0	0	177
U. of St. Thomas (MN)	2,280	2	5	143	1	338	336	13	0	1,145	297
Mississippi	608,155	13,788	47,406	281,536	3,254	48,268	4,650	39,541	4,627	105,384	59,701
Public	605,492	13,682	47,404	280,168	3,149	47,658	4,523	39,471	4,625	105,382	59,430
Alcorn State U.	19,141	0	0	11,432	0	0	0	6,360	0	1,349	0
Jackson State U.	19,457	383	0	6,183	128	7,333	167	559	618	3,214	872
Mississippi State U.	319,684	11,570	16,521	145,647	1,979	13,806	2,421	25,913	3,289	78,080	20,458
U. Mississippi	172,176	1,418	2,219	106,290	1,042	13,565	1,918	4,488	718	11,818	28,700
U. Southern Mississippi	75,034	311	28,664	10,616	0	12,954	17	2,151	0	10,921	9,400
Private	2,663	106	2	1,368	105	610	127	70	2	2	271
Tougaloo C.	2,663 i	106 i	2 i	1,368 i	105 i	610 i	127 i	70 i	2 i	2 i	271 i
Missouri	1,873,279	18,586	17,661	1,456,065	3,479	99,384	17,091	12,445	5,805	142,224	100,539
Public	614,154	11,161	3,368	352,284	1,948	64,337	8,368	7,101	5,627	105,346	54,614
Lincoln U., Jefferson City	8,196	0 i	996 i	6,626 i	0 i	0 i	0 i	237 i	336 i	0 i	1 i
Missouri State U.	14,654	0	228	1,438	0	164	71	120	0	12,633	0
Missouri U. of Science and Technology	61,496	2,948	0	1,359	230	3,747	310	14	886	51,351	651
U. Missouri, Columbia	462,435	6,644	1,728	309,601	1,583	57,534	6,593	3,972	2,570	24,365	47,845
U. Missouri, Kansas City	54,565	1,344	388	27,493	0	1,556	714	508	1,640	16,959	3,963
U. Missouri, Saint Louis	12,808	225	28	5,767	135	1,336	680	2,250	195	38	2,154
Private	1,259,125	7,425	14,293	1,103,781	1,531	35,047	8,723	5,344	178	36,878	45,925
Saint Louis U.	85,921	1,566	7,307	56,051	222	4,726	281	2,485	0	3,187	10,096
U. of Health Sciences and Pharmacy in St. Louis	4,343	0	0	4,284	0	59	0	0	0	0	0
Washington U., Saint Louis	1,168,861	5,859	6,986	1,043,446	1,309	30,262	8,442	2,859	178	33,691	35,829

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Montana	382,015	5,195	23,358	163,905	3,831	36,562	1,666	24,169	14,374	73,175	35,780
Public	382,015	5,195	23,358	163,905	3,831	36,562	1,666	24,169	14,374	73,175	35,780
Montana State U., Bozeman	229,682	3,175	6,124	81,492	2,828	27,448	956	1,903	14,374	67,024	24,358
Montana Technological U.	18,375	49	11,289	803	0	83	0	0	0	6,151	0
U. Montana, Missoula	133,958	1,971	5,945	81,610	1,003	9,031	710	22,266	0	0	11,422
Nebraska	680,337	17,568	3,541	444,161	6,651	41,026	17,863	16,185	10,136	78,584	44,622
Public	651,894	16,372	3,541	422,665	6,342	38,929	17,515	14,976	10,136	78,584	42,834
U. Nebraska, Kearney	3,681	111	0	1,862	3	832	61	64	0	0	748
U. Nebraska, Lincoln and Medical Center ^c	617,372	10,348	3,364	413,555	5,687	37,541	17,233	11,621	928	76,802	40,293
U. Nebraska, Omaha	30,841	5,913	177	7,248	652	556	221	3,291	9,208	1,782	1,793
Private	28,443	1,196	0	21,496	309	2,097	348	1,209	0	0	1,788
Creighton U.	28,443	1,196	0	21,496	309	2,097	348	1,209	0	0	1,788
Nevada	325,781	6,737	52,663	123,385	3,966	23,103	7,555	13,890	4,347	55,064	35,071
Public	319,716	6,737	52,663	117,320	3,966	23,103	7,555	13,890	4,347	55,064	35,071
Desert Research Institute	30,716	0	27,742	2,974	0	0	0	0	0	0	0
Nevada State C.	1,744	0	59	995	0	0	286	0	0	0	404
U. Nevada, Las Vegas	98,751	2,120	5,803	36,005	2,558	11,407	2,027	7,566	910	13,866	16,489
U. Nevada, Reno	188,505	4,617	19,059	77,346	1,408	11,696	5,242	6,324	3,437	41,198	18,178
Private	6,065	0	0	6,065	0	0	0	0	0	0	0
Roseman U. of Health Sciences	6,065	0	0	6,065	0	0	0	0	0	0	0
New Hampshire	590,539	19,814	108,391	233,536	12,066	30,319	16,518	39,861	3,097	70,751	56,186
Public	223,683	1,505	99,189	54,290	1,738	5,689	1,110	17,256	0	29,519	13,387
U. New Hampshire	223,683	1,505	99,189	54,290	1,738	5,689	1,110	17,256	0	29,519	13,387
Private	366,856	18,309	9,202	179,246	10,328	24,630	15,408	22,605	3,097	41,232	42,799
Dartmouth C. and Dartmouth Hitchcock Medical Center	366,856	18,309	9,202	179,246	10,328	24,630	15,408	22,605	3,097	41,232	42,799
New Jersey	1,717,387	64,899	79,314	807,039	37,457	173,375	32,244	111,340	3,055	310,092	98,572
Public	1,133,752	29,713	43,808	675,629	20,108	58,166	25,939	27,176	3,055	172,762	77,396
C. New Jersey	2,641	214	0	1,107	66	529	25	209	150	278	63
Kean U.	10,062	1,801	129	1,463	187	502	281	1,843	70	1	3,785
Montclair State U.	38,209	1,332	2,352	5,509	1,684	2,520	6,448	4,747	0	402	13,215
New Jersey Institute of Technology	161,078	12,638	0	24,332	5,475	18,434	0	625	277	90,849	8,448
Rowan U.	47,810	606	1,549	11,750	795	3,480	1,934	1,280	139	19,322	6,955
Rutgers, State U. New Jersey, Camden	9,527	3,577	0	363	2	229	44	3,541	0	0	1,771

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Rutgers, State U. New Jersey, New Brunswick	831,719	8,406	35,546	619,096	11,898	28,283	15,490	10,539	2,248	61,910	38,303
Rutgers, State U. New Jersey, Newark	29,787	1,107	3,154	11,575	0	4,188	1,638	3,265	171	0	4,689
Stockton U.	2,386	0	964	313	0	0	0	1,109	0	0	0
William Paterson U.	533	32	114	121	1	1	79	18	0	0	167
Private	583,635	35,186	35,506	131,410	17,349	115,209	6,305	84,164	0	137,330	21,176
Monmouth U.	2,517	38	1,838	337	0	32	0	168	0	0	104
Princeton U.	513,365	29,801	33,668	128,054	16,810	109,961	6,305	83,793	0	87,035	17,938
Seton Hall U.	7,068	350	0	2,862	75	2,375	0	10	0	0	1,396
Stevens Institute of Technology	60,685	4,997	0	157	464	2,841	0	193	0	50,295	1,738
New Mexico	564,566	25,909	28,737	262,235	1,581	31,027	8,367	13,814	12,102	168,488	12,306
Public	564,566	25,909	28,737	262,235	1,581	31,027	8,367	13,814	12,102	168,488	12,306
New Mexico Highlands U.	3,468	1,095	151	1,803	242	12	151	0	0	0	14
New Mexico Institute of Mining and Technology	118,735	14,923	16,521	558	157	7,124	464	0	0	76,286	2,702
New Mexico State U.	126,337	5,075	4,514	55,765	170	12,826	312	701	4,087	40,884	2,003
U. New Mexico	316,026	4,816	7,551	204,109	1,012	11,065	7,440	13,113	8,015	51,318	7,587
New York	9,058,400	191,534	182,133	6,053,641	66,282	550,305	122,442	219,382	41,515	1,083,373	547,793
Public	1,801,836	59,148	74,983	668,755	22,964	137,434	53,244	71,622	25,846	533,902	153,938
CUNY, Advanced Science Research Center	17,309	0	570	5,548	0	9,285	0	0	0	1,871	35
CUNY, Baruch C.	4,084	0	269	807	682	347	175	169	9	0	1,626
CUNY, Brooklyn C.	8,535	203	1,023	1,067	242	2,680	1,693	162	0	0	1,465
CUNY, C. Staten Island	4,730	123	54	1,300	116	1,303	709	17	0	288	820
CUNY, City C.	63,159	358	1,627	8,800	358	10,061	1,297	76	4	21,627	18,951
CUNY, Graduate Center	54,089	1,079	881	3,725	1,564	2,993	5,510	14,400	354	206	23,377
CUNY, Graduate School of Public Health and Health Policy	26,651	0	0	25,876	0	0	775	0	0	0	0
CUNY, Hunter C.	37,172	1,805	1,258	10,272	262	5,712	8,218	1,537	0	0	8,108
CUNY, John Jay C. of Criminal Justice	22,967	6	0	419	342	723	2,412	2,511	83	0	16,471
CUNY, Lehman C.	5,918	402	43	757	181	3,003	178	581	3	0	770
CUNY, New York City C. of Technology	2,819	241	0	162	220	585	0	24	0	806	781
CUNY, Queens C.	25,492	442	680	16,586	380	2,163	2,523	1,325	617	0	776
CUNY, system office	4,296	18	0	179	0	0	3	0	1,705	413	1,978
CUNY, York C.	1,711	0	518	430	356	188	91	0	0	0	128
SUNY, Binghamton U.	141,685	7,948	1,540	15,773	3,122	16,702	10,713	20,938	0	45,755	19,194
SUNY, Buffalo State U.	2,636	53	1,276	945	192	47	18	72	0	0	33

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
SUNY, C. Brockport	1,877	12	0	1,444	0	310	0	81	0	0	30
SUNY, C. of Environmental Science and Forestry	32,682	314	1,743	22,461	3	2,106	2,535	61	0	2,095	1,364
SUNY, C. of Optometry	4,423	0	0	4,423	0	0	0	0	0	0	0
SUNY, C. Plattsburgh	1,722	0	1,078	292	0	331	0	21	0	0	0
SUNY, Cobleskill	2,566	0	0	140	0	0	0	0	0	2,301	125
SUNY, Downstate Health Sciences U.	35,600	0	0	35,600	0	0	0	0	0	0	0
SUNY, Geneseo	1,958	0	55	286	7	1,176	149	39	0	0	246
SUNY, Oswego	1,595	26	332	188	5	315	142	76	251	150	110
SUNY, Polytechnic Institute	284,677	18	0	2,369	0	0	0	0	0	282,110	180
SUNY, Stony Brook U.	324,531	15,550	39,762	136,089	7,442	49,245	5,969	2,869	20,112	40,873	6,620
SUNY, U. Albany	141,671	6,022	15,430	55,543	2,531	12,431	4,133	16,605	0	4,562	24,414
SUNY, U. Buffalo	471,569	20,464	6,700	263,888	2,886	15,320	5,809	4,321	2,708	123,383	26,090
SUNY, Upstate Medical U.	53,219	0	0	53,219	0	0	0	0	0	0	0
U.S. Military Academy	20,493	4,064	144	167	2,073	408	192	5,737	0	7,462	246
Private	7,256,564	132,386	107,150	5,384,886	43,318	412,871	69,198	147,760	15,669	549,471	393,855
Albany C. of Pharmacy and Health Sciences	2,594	0	0	2,594	0	0	0	0	0	0	0
Albany Medical C.	23,259	0	0	23,259	0	0	0	0	0	0	0
Albert Einstein C. of Medicine	336,238	0	0	336,238	0	0	0	0	0	0	0
Alfred U.	4,154	0	1	0	0	8	69	0	0	4,076	0
Barnard C.	6,320	327	236	1,571	0	1,588	1,277	756	0	0	565
Canisius U.	905	0	0	0	0	108	0	0	797	0	0
Clarkson U.	25,399	780	170	1,725	830	4,148	87	514	0	14,568	2,577
Cold Spring Harbor Laboratory	117,483	0	0	117,483	0	0	0	0	0	0	0
Colgate U.	4,930	177	960	692	113	1,456	127	466	0	0	939
Columbia U. in the City of New York	1,341,952	30,853	88,243	980,046	4,294	52,418	4,443	18,686	0	100,161	62,808
Cornell U.	1,451,971	32,821	5,762	1,020,982	4,173	136,751	12,439	30,044	145	149,807	59,047
Fordham U.	23,832	393	60	1,566	396	1,226	3,003	1,619	0	0	15,569
Hamilton C.	3,285	110	270	190	16	606	62	514	0	0	1,517
Hobart and William Smith Colleges	2,373	16	300	1,653	15	211	2	40	19	0	117
Hofstra U.	8,162	68	239	2,155	368	401	381	370	0	642	3,538
Icahn School of Medicine at Mount Sinai	972,476	0	0	972,476	0	0	0	0	0	0	0
Ithaca C.	861	72	154	76	87	277	6	44	0	0	145
Long Island U.	16,612	234	59	9,621	226	1,015	1,131	681	0	0	3,645

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Manhattan C.	1,250	0	0	114	260	79	0	221	0	447	129
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	5,324	0	0	5,324	0	0	0	0	0	0	0
New School	22,680	41	239	1,440	0	0	1,040	7,393	2,576	3,565	6,386
New York Institute of Technology	5,790	292	0	4,431	0	211	0	0	0	844	12
New York Medical C.	17,113	0	0	17,113	0	0	0	0	0	0	0
New York U.	1,457,424	16,701	732	1,065,030	19,747	30,409	26,613	41,857	0	132,311	124,024
Pace U.	4,056	1,067	0	667	0	106	152	19	0	684	1,361
Pratt Institute	1,558	0	0	0	0	0	0	0	0	0	1,558
Rensselaer Polytechnic Institute	121,706	13,075	1,961	8,077	3,783	12,723	3,870	1,412	0	66,158	10,647
Rochester Institute of Technology	72,405	12,888	0	2,005	2,542	15,762	538	3,259	0	28,126	7,285
Rockefeller U.	385,168	8,060	151	369,447	1,396	6,114	0	0	0	0	0
Skidmore C.	2,384	0	394	825	19	456	324	214	0	0	152
St. John's U., New York	3,955	222	0	2,577	0	380	539	0	0	0	237
Syracuse U.	183,850	7,300	3,549	18,677	2,855	20,189	3,515	15,676	1,381	24,796	85,912
Teachers C., Columbia U.	34,183	2,791	0	6,595	0	0	2,232	22,332	0	0	233
Touro U., New York	100,547	0	0	100,542	0	0	0	0	0	0	5
U. Rochester	481,227	3,544	3,103	304,786	396	124,977	6,934	1,167	10,533	22,767	3,020
Union C., Schenectady	1,881	53	344	108	75	383	41	127	14	519	217
Vassar C.	2,596	48	223	798	185	450	373	349	0	0	170
Yeshiva U.	8,661	453	0	4,003	1,542	419	0	0	204	0	2,040
North Carolina	4,344,862	100,553	98,233	3,102,942	37,079	140,898	77,968	165,865	19,967	409,522	191,835
Public	2,520,822	86,889	88,129	1,544,054	27,582	108,719	66,357	118,207	19,410	298,108	163,367
Appalachian State U.	8,479	536	986	4,134	72	971	130	296	0	266	1,088
East Carolina U.	67,082	1,095	6,772	43,941	90	2,274	1,788	1,476	0	3,013	6,633
Elizabeth City State U.	1,641	386	0	495	0	0	3	116	0	0	641
Fayetteville State U.	3,569	524	0	872	0	183	0	173	47	141	1,629
North Carolina A&T State U.	62,307	1,884	0	22,995	1,149	3,306	95	111	2,056	20,925	9,786
North Carolina Central U.	18,477	157	261	7,115	0	5,524	0	357	293	2,317	2,453
North Carolina State U.	633,251	26,585	34,922	284,651	18,035	28,745	1,887	8,771	16,191	196,594	16,870
U. North Carolina, Asheville	6,761	278	212	2,138	0	894	0	253	282	2	2,702
U. North Carolina, Chapel Hill	1,549,617	41,385	34,095	1,141,727	4,894	51,933	56,582	95,692	139	49,721	73,449
U. North Carolina, Charlotte	92,027	11,068	2,523	11,443	2,704	7,278	1,960	7,825	0	23,417	23,809

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. North Carolina, Greensboro	44,521	1,076	31	13,196	470	5,687	3,445	1,370	18	0	19,228
U. North Carolina, Wilmington	21,879	1,169	7,843	7,597	53	1,317	272	1,321	384	1,317	606
Western Carolina U.	2,543	0	484	822	72	56	0	182	0	395	532
Winston-Salem State U.	8,668	746	0	2,928	43	551	195	264	0	0	3,941
Private	1,824,040	13,664	10,104	1,558,888	9,497	32,179	11,611	47,658	557	111,414	28,468
Davidson C.	2,926	114	0	709	298	605	506	400	0	0	294
Duke U.	1,507,996	12,836	9,796	1,266,314	8,374	29,127	10,189	43,163	501	109,885	17,811
Elon U.	2,544	42	0	457	109	116	212	297	56	30	1,225
Johnson C. Smith U.	1,602	43	308	98	0	0	0	0	0	0	1,153
Wake Forest U.	308,972	629	0	291,310	716	2,331	704	3,798	0	1,499	7,985
North Dakota	373,912	7,619	7,916	159,606	1,414	18,495	7,743	10,325	5,273	130,619	24,902
Public	372,525	7,558	7,916	158,940	1,414	18,495	7,743	10,325	5,273	130,175	24,686
North Dakota State U.	190,330	3,422	472	122,001	970	11,009	2,750	8,600	5,117	25,034	10,955
U. North Dakota	182,195	4,136	7,444	36,939	444	7,486	4,993	1,725	156	105,141	13,731
Private	1,387	61	0	666	0	0	0	0	0	444	216
United Tribes Technical C.	1,387	61	0	666	0	0	0	0	0	444	216
Ohio	3,392,194	85,286	29,643	2,177,762	11,999	115,334	34,934	69,685	44,039	658,281	165,231
Public	2,603,489	54,684	26,570	1,712,017	10,951	108,028	32,835	57,631	43,828	400,332	156,613
Air Force Institute of Technology	56,848	9,028	1,271	0	375	8,942	0	0	0	37,232	0
Bowling Green State U.	20,726	456	2,062	4,114	163	1,994	885	4,328	110	189	6,425
Central State U.	11,123	0	163	10,270	59	352	0	0	124	155	0
Cleveland State U.	87,941	0	0	52,377	901	1,610	769	7,143	0	15,061	10,080
Kent State U.	58,984	2,228	1,472	11,557	1,591	10,220	5,320	6,091	1,908	1,904	16,693
Miami U.	28,430	750	768	7,968	636	4,186	2,246	1,166	0	4,562	6,148
Northeast Ohio Medical U.	13,116	0	137	12,577	0	0	0	290	91	0	21
Ohio State U.	1,449,188	31,323	9,777	977,520	5,135	39,570	6,403	24,943	40,363	242,745	71,409
Ohio U.	59,877	290	2,475	20,740	18	6,865	3,242	1,855	0	16,193	8,199
U. Akron	21,525	132	261	1,185	78	9,555	435	131	150	8,851	747
U. Cincinnati	698,642	4,958	1,489	567,982	1,732	12,181	11,756	11,576	987	54,548	31,433
U. Toledo	67,656	0	6,117	32,455	55	11,716	359	63	0	11,520	5,371
Wright State U.	26,189	5,443	474	13,117	75	715	1,371	0	95	4,819	80
Youngstown State U.	3,244	76	104	155	133	122	49	45	0	2,553	7
Private	788,705	30,602	3,073	465,745	1,048	7,306	2,099	12,054	211	257,949	8,618

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
C. Wooster	2,209	789	176	224	123	524	12	168	0	0	193
Case Western Reserve U.	553,740	5,998	812	462,781	709	5,407	1,840	11,687	183	59,900	4,423
Heidelberg U.	1,254	0	1,254	0	0	0	0	0	0	0	0
Kenyon C.	1,371	0	0	694	69	523	5	34	0	0	46
Oberlin C.	1,408	122	88	351	49	467	62	44	28	0	197
U. Dayton	228,723	23,693	743	1,695	98	385	180	121	0	198,049	3,759
Oklahoma	725,008	18,495	87,736	292,565	7,450	33,560	17,444	29,433	11,514	116,305	110,506
Public	700,163	13,598	87,599	291,066	7,446	32,599	16,585	28,880	11,514	105,314	105,562
Langston U.	10,505	0	0	9,676	27	110	518	0	0	0	174
Oklahoma State U., Center for Health Sciences	12,500	107	0	9,376	0	0	2,998	0	0	0	19
Oklahoma State U., Stillwater	226,498	3,598	4,254	92,203	4,680	9,993	7,181	10,445	11,514	44,510	38,120
U. Central Oklahoma	7,870	265	0	3,778	118	637	148	379	0	1,032	1,513
U. Oklahoma, Norman and Health Science Center	436,964	9,628	83,345	174,395	2,621	21,859	5,725	17,870	0	58,746	62,775
U. Oklahoma, Tulsa	5,826	0	0	1,638	0	0	15	186	0	1,026	2,961
Private	24,845	4,897	137	1,499	4	961	859	553	0	10,991	4,944
U. Tulsa	24,845	4,897	137	1,499	4	961	859	553	0	10,991	4,944
Oregon	1,095,169	14,551	68,558	771,290	5,001	29,128	25,868	20,147	5,658	100,548	54,420
Public	1,072,136	14,351	68,190	759,672	4,817	27,660	25,455	19,334	5,588	100,548	46,521
Oregon Health and Science U.	517,742	0	0	502,768	0	14	0	0	0	14,960	0
Oregon Institute of Technology	5,585	227	444	3,543	126	0	141	0	0	1,104	0
Oregon State U.	337,985	5,346	57,207	175,883	1,358	7,604	1,398	7,579	3,718	71,532	6,360
Portland State U.	46,324	1,971	2,147	14,371	1,505	1,932	1,554	6,170	53	7,108	9,513
U. Oregon	164,500	6,807	8,392	63,107	1,828	18,110	22,362	5,585	1,817	5,844	30,648
Private	23,033	200	368	11,618	184	1,468	413	813	70	0	7,899
Lewis and Clark C.	2,686	24	171	647	21	214	0	101	0	0	1,508
National U. of Natural Medicine	1,336	0	0	1,336	0	0	0	0	0	0	0
Pacific U.	10,719	0	0	6,401	0	49	73	125	0	0	4,071
Reed C.	6,750	172	0	2,991	155	978	271	587	0	0	1,596
Willamette U.	1,542	4	197	243	8	227	69	0	70	0	724
Pennsylvania	5,954,796	380,671	58,065	3,702,061	58,984	281,258	106,310	146,726	31,366	906,942	282,413
Public	2,932,663	127,310	49,886	1,790,351	31,022	162,414	70,633	59,461	14,620	547,169	79,797
East Stroudsburg U. Pennsylvania	2,928	9	0	2,082	0	0	0	9	0	0	828
Indiana U. Pennsylvania	6,052	246	178	1,909	1	204	555	380	138	0	2,441

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Lincoln U.	628	96	0	232	0	14	0	0	0	0	286
Pennsylvania State U., Altoona	1,215	0	0	609	39	77	0	3	0	425	62
Pennsylvania State U., Behrend	7,614	1	1,466	2,704	46	773	183	2	0	1,892	547
Pennsylvania State U., Harrisburg	5,159	13	39	1,774	15	91	483	336	0	272	2,136
Pennsylvania State U., University Park and Hershey Medical Center	1,206,793	108,873	33,406	346,482	24,625	111,514	41,284	42,771	0	453,476	44,362
Temple U.	292,029	5,498	1,323	227,767	1,004	15,792	11,114	3,521	844	8,815	16,351
U. Pittsburgh, Pittsburgh	1,398,078	12,535	13,409	1,205,739	5,160	33,092	16,409	5,653	13,638	82,238	10,205
U.S. Army War C.	6,035	0	0	0	0	0	0	6,035	0	0	0
West Chester U. Pennsylvania	6,132	39	65	1,053	132	857	605	751	0	51	2,579
Private	3,022,133	253,361	8,179	1,911,710	27,962	118,844	35,677	87,265	16,746	359,773	202,616
Arcadia U.	1,321	0	0	43	0	0	0	0	0	0	1,278
Bryn Mawr C.	9,039	368	337	1,141	541	1,094	479	1,716	0	0	3,363
Bucknell U.	5,887	229	126	1,368	164	605	86	355	160	2,064	730
Carnegie Mellon U.	484,757	220,946	1,549	16,878	16,604	27,237	10,187	12,649	5,575	155,436	17,696
Drexel U.	169,583	6,621	0	94,232	617	3,102	4,336	1,739	1,662	44,002	13,272
Duquesne U.	14,989	0	236	10,506	83	726	83	253	0	187	2,915
Franklin and Marshall C.	4,111	42	514	672	68	920	237	424	0	0	1,234
Gettysburg C.	1,099	4	0	274	0	228	24	393	0	0	176
Haverford C.	4,088	114	92	1,556	97	1,183	326	200	0	0	520
Lafayette C.	1,991	117	80	197	118	445	76	164	0	581	213
Lehigh U.	56,301	2,725	1,439	8,884	489	5,588	739	602	39	32,406	3,390
Philadelphia C. of Osteopathic Medicine	7,459	0	0	7,459	0	0	0	0	0	0	0
Robert Morris U.	1,419	210	0	48	13	7	23	20	0	612	486
Saint Joseph's U.	8,675	361	0	5,186	9	906	331	222	0	0	1,660
Swarthmore C.	5,620	81	0	1,516	273	1,019	198	574	0	338	1,621
Thomas Jefferson U.	258,345	0	0	258,291	0	0	0	0	0	33	21
U. Pennsylvania	1,953,617	21,066	2,293	1,497,834	8,603	72,101	17,413	66,203	9,310	112,740	146,054
U. Scranton	1,169	35	561	251	0	100	8	8	0	4	202
Ursinus C.	1,150	12	0	665	120	344	3	6	0	0	0
Villanova U.	31,513	430	952	4,709	163	3,239	1,128	1,737	0	11,370	7,785
Rhode Island	513,818	21,825	75,748	217,000	17,012	24,893	14,707	46,585	16,459	42,479	37,110
Public	150,671	2,582	61,366	37,232	57	6,352	3,836	5,247	4,195	14,637	15,167
Naval War C.	5,819	0	0	0	0	0	0	800	0	0	5,019

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Rhode Island C.	839	98	0	358	0	326	57	0	0	0	0
U. Rhode Island	144,013	2,484	61,366	36,874	57	6,026	3,779	4,447	4,195	14,637	10,148
Private	363,147	19,243	14,382	179,768	16,955	18,541	10,871	41,338	12,264	27,842	21,943
Brown U.	353,591	19,235	13,244	176,938	16,873	18,064	10,682	41,238	12,212	27,640	17,465
Bryant U.	558	3	7	353	82	0	0	12	0	0	101
Providence C.	5,533	0	248	1,320	0	253	105	88	0	0	3,519
Roger Williams U.	3,465	5	883	1,157	0	224	84	0	52	202	858
South Carolina	918,964	19,157	14,588	533,272	6,920	21,247	17,875	30,493	11	154,368	121,033
Public	912,972	18,650	14,363	531,782	6,733	19,508	17,702	30,387	11	152,877	120,959
C. Charleston	7,231	421	2,157	1,677	109	768	63	429	0	583	1,024
Citadel Military C. South Carolina	3,757	2,419	35	65	18	122	25	11	0	491	571
Clemson U.	286,503	9,428	0	81,964	2,131	12,096	3,826	7,532	0	103,188	66,338
Coastal Carolina U.	4,729	208	2,214	572	0	280	65	261	3	275	851
Medical U. South Carolina	333,826	0	0	333,826	0	0	0	0	0	0	0
South Carolina State U.	7,814	1,025	278	3,360	0	541	0	619	0	924	1,067
U. South Carolina, Aiken	2,250	3	124	784	13	165	24	1	0	126	1,010
U. South Carolina, Beaufort	1,466	558	289	292	15	0	0	3	0	135	174
U. South Carolina, Columbia	262,207	4,491	9,266	108,934	4,385	5,158	13,699	21,393	8	47,155	47,718
Winthrop U.	3,189	97	0	308	62	378	0	138	0	0	2,206
Private	5,992	507	225	1,490	187	1,739	173	106	0	1,491	74
Benedict C.	2,307	189	0	354	187	149	0	0	0	1,428	0
Clafin U.	1,418	306	53	562	0	340	0	94	0	63	0
Furman U.	2,267	12	172	574	0	1,250	173	12	0	0	74
South Dakota	129,045	6,301	1,193	73,873	1,022	11,858	2,037	2,509	224	25,524	4,504
Public	129,045	6,301	1,193	73,873	1,022	11,858	2,037	2,509	224	25,524	4,504
Black Hills State U.	2,260	421	0	1,400	0	120	2	0	0	0	317
Dakota State U.	5,253	5,172	0	81	0	0	0	0	0	0	0
South Dakota School of Mines and Technology	20,337	325	0	0	95	4,365	0	0	0	15,552	0
South Dakota State U.	71,340	49	1,193	55,010	691	2,892	324	1,426	0	8,819	936
U. South Dakota	29,855	334	0	17,382	236	4,481	1,711	1,083	224	1,153	3,251
Tennessee	1,972,549	49,378	13,209	1,278,653	7,325	65,945	29,568	51,200	35,454	231,206	210,611
Public	688,937	23,329	9,572	295,729	4,898	32,966	12,119	22,843	35,454	148,740	103,287
Austin Peay State U.	3,950	0	716	2,220	0	96	21	178	0	9	710

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Texas Woman's U.	6,922	43	0	4,253	166	286	1,450	412	10	0	302
U. Houston	231,942	9,325	12,509	46,297	7,605	27,682	19,682	4,721	1,101	67,684	35,336
U. Houston-Clear Lake	2,127	57	0	1,369	0	206	103	56	5	184	147
U. Houston-Downtown	1,967	367	30	245	35	110	41	0	0	79	1,060
U. North Texas, Denton	106,665	12,171	538	16,228	1,879	9,854	3,758	4,801	0	27,249	30,187
U. North Texas, Health Science Center	94,652	0	0	93,494	0	0	0	1,158	0	0	0
U. Texas Health Science Center, Houston	374,105	0	0	374,105	0	0	0	0	0	0	0
U. Texas Health Science Center, San Antonio	281,078	0	0	281,078	0	0	0	0	0	0	0
U. Texas Health Science Center, Tyler	32,077	0	0	32,077	0	0	0	0	0	0	0
U. Texas M. D. Anderson Cancer Center	1,255,190	0	0	1,166,465	23,423	23,775	18,290	23,237	0	0	0
U. Texas Medical Branch	233,192	0	0	225,795	0	0	0	0	0	7,397	0
U. Texas of the Permian Basin	2,769	0	161	593	7	51	62	271	0	416	1,208
U. Texas Rio Grande Valley	82,444	2,540	2,766	37,668	3,845	5,214	1,268	4,897	63	11,028	13,155
U. Texas Southwestern Medical Center	800,391	0	0	800,391	0	0	0	0	0	0	0
U. Texas, Arlington	147,265	9,165	1,228	23,340	3,317	20,371	2,416	150	0	64,548	22,730
U. Texas, Austin	1,035,838	116,971	76,120	188,258	18,889	123,113	16,683	32,781	5,907	360,947	96,169
U. Texas, Dallas	146,779	10,213	973	39,684	1,616	17,707	4,915	2,513	28	55,368	13,762
U. Texas, El Paso	145,724	8,443	4,729	35,325	2,552	12,207	6,453	4,319	3,722	45,627	22,347
U. Texas, San Antonio	158,453	22,722	4,765	31,428	1,782	12,226	3,133	12,152	1,929	25,584	42,732
U. Texas, Tyler	3,487	25	119	1,957	87	122	59	57	0	812	249
West Texas A&M U.	10,302	363	322	7,434	1	247	0	0	290	1,075	570
Private	1,285,350	15,309	17,755	890,898	11,757	78,105	15,336	30,464	13,991	150,244	61,491
Abilene Christian U.	8,182	0	0	179	9	7,716	14	8	0	15	241
Baylor C. of Medicine	847,305	0	0	847,305	0	0	0	0	0	0	0
Baylor U.	82,074	2,063	4,243	13,879	1,604	11,399	5,848	3,585	4,335	11,454	23,664
Rice U.	255,115	12,530	6,249	19,778	7,338	43,704	5,420	24,172	627	129,719	5,578
Southern Methodist U.	59,749	518	5,716	3,187	2,199	9,217	1,872	2,227	3,765	8,535	22,513
St. Edward's U.	1,334	20	304	680	35	70	60	140	25	0	0
Texas Christian U.	24,050	84	980	3,632	483	3,625	1,474	10	5,239	95	8,428
Trinity U.	5,296	84	257	934	89	2,025	648	322	0	137	800
U. of the Incarnate Word	2,245	10	6	1,324	0	349	0	0	0	289	267
Utah	1,264,913	12,041	15,033	546,791	10,546	42,748	14,246	25,199	219	449,106	148,984
Public	1,127,165	4,800	13,682	519,631	4,895	32,031	11,383	15,796	152	422,183	102,612

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Utah	723,713	249	11,126	453,037	3,727	24,991	5,663	14,062	0	113,129	97,729
Utah State U.	401,437	4,436	2,460	66,338	1,009	6,477	5,720	1,734	0	308,386	4,877
Utah Valley U.	2,015	115	96	256	159	563	0	0	152	668	6
Private	137,748	7,241	1,351	27,160	5,651	10,717	2,863	9,403	67	26,923	46,372
Brigham Young U., Provo	137,748	7,241	1,351	27,160	5,651	10,717	2,863	9,403	67	26,923	46,372
Vermont	238,418	3,590	5,312	168,888	2,532	4,742	5,305	10,294	2,838	18,394	16,523
Public	233,806	3,361	4,650	167,760	2,319	3,944	4,830	9,950	2,642	18,270	16,080
U. Vermont	233,806	3,361	4,650	167,760	2,319	3,944	4,830	9,950	2,642	18,270	16,080
Private	4,612	229	662	1,128	213	798	475	344	196	124	443
Middlebury C.	2,975	229	585	827	35	598	125	343	0	0	233
Norwich U.	1,637	0	77	301	178	200	350	1	196	124	210
Virginia	2,297,277	101,032	81,433	1,066,810	20,601	88,464	33,975	122,345	1,592	504,183	276,842
Public	2,272,352	99,827	79,418	1,054,899	20,016	83,971	33,473	121,798	1,592	502,647	274,711
Christopher Newport U.	3,507	0	0	628	159	1,394	77	134	0	541	574
Eastern Virginia Medical School	23,991	0	0	23,991	0	0	0	0	0	0	0
George Mason U.	252,239	22,076	17,068	37,589	2,657	7,098	4,323	73,092	100	61,036	27,200
James Madison U.	21,265	1,156	1,073	4,300	301	2,525	985	673	31	576	9,645
Norfolk State U.	6,194	444	0	326	123	1,074	0	323	0	2,218	1,686
Old Dominion U.	71,334	3,127	4,434	13,232	1,043	8,733	1,647	1,887	0	32,001	5,230
Radford U.	1,315	71	14	255	0	0	9	203	235	0	528
U. of Mary Washington	1,115	71	25	213	2	63	33	38	0	0	670
U. Virginia's C. Wise	1,223	223	6	180	76	18	0	40	0	0	680
U. Virginia, Charlottesville	714,457	28,652	7,041	418,932	2,301	27,920	7,392	12,798	848	112,702	95,871
Virginia Commonwealth U.	479,930	8,058	180	320,557	839	5,346	12,123	7,273	0	29,609	95,945
Virginia Military Institute	2,350	1,805	0	88	46	108	0	29	0	147	127
Virginia Polytechnic Institute and State U.	598,113	30,263	6,047	221,029	12,051	22,452	6,359	13,608	0	261,707	24,597
Virginia State U.	13,504	102	45	8,961	36	144	323	16	1	2,110	1,766
William & Mary	81,815	3,779	43,485	4,618	382	7,096	202	11,684	377	0	10,192
Private	24,925	1,205	2,015	11,911	585	4,493	502	547	0	1,536	2,131
Edward Via C. of Osteopathic Medicine	7,597	0	0	7,597	0	0	0	0	0	0	0
Hampton U.	9,769	409	1,880	1,745	490	3,898	0	139	0	837	371
Liberty U.	1,900	369	0	728	0	0	0	0	0	588	215
Marymount U.	2,601	427	0	790	39	32	180	287	0	111	735

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Richmond	3,058	0	135	1,051	56	563	322	121	0	0	810
Washington	2,160,233	40,261	182,865	1,402,491	11,283	102,366	16,763	39,270	6,888	229,925	128,121
Public	2,153,103	40,174	182,569	1,400,338	11,176	101,256	16,508	38,697	6,819	229,643	125,923
Central Washington U.	3,683	384	2,043	464	209	267	0	226	0	56	34
Eastern Washington U.	2,546	0	37	454	1	86	87	1,810	0	71	0
Northwest Indian C.	6,184 i	0 i	64 i	539 i	0 i	0 i	0 i	0 i	0 i	243 i	5,338 i
U. Washington, Bothell	5,738	369	293	1,365	82	884	0	372	307	530	1,536
U. Washington, Seattle	1,734,091	30,158	162,612	1,175,596	9,783	69,424	11,239	23,577	1,135	180,277	70,290
U. Washington, Tacoma	6,243	117	3,991	541	182	0	0	100	208	328	776
Washington State U.	378,744	8,664	10,521	220,515	383	27,495	4,278	11,439	3,404	47,254	44,791
Western Washington U.	15,874	482	3,008	864	536	3,100	904	1,173	1,765	884	3,158
Private	7,130	87	296	2,153	107	1,110	255	573	69	282	2,198
Seattle U.	3,949	67	10	676	104	327	162	415	0	282	1,906
U. Puget Sound	1,613	3	65	1,166	3	127	0	64	69	0	116
Whitman C.	1,568	17	221	311	0	656	93	94	0	0	176
West Virginia	286,551	2,439	5,492	181,677	515	17,797	1,929	4,273	1,552	55,279	15,598
Public	286,551	2,439	5,492	181,677	515	17,797	1,929	4,273	1,552	55,279	15,598
Marshall U.	33,693	284	456	21,925	44	1,501	0	81	0	5,227	4,175
West Virginia School of Osteopathic Medicine	1,459 i	0 i	0 i	1,457 i	0 i	0 i	0 i	0 i	0 i	0 i	2 i
West Virginia State U.	5,226	0	0	5,203	23	0	0	0	0	0	0
West Virginia U.	246,173	2,155	5,036	153,092	448	16,296	1,929	4,192	1,552	50,052	11,421
Wisconsin	2,215,597	41,085	92,013	1,437,513	10,102	127,509	20,384	84,288	61,197	205,127	136,379
Public	1,816,328	39,172	91,911	1,079,845	9,131	125,394	18,967	83,472	61,197	182,158	125,081
U. Wisconsin-Eau Claire	2,191	0	302	139	22	1,160	327	175	0	0	66
U. Wisconsin-Green Bay	2,801	82 i	121 i	1,590 i	21 i	166 i	45 i	97 i	0 i	484 i	195 i
U. Wisconsin-La Crosse	2,921	60	39	729	21	322	21	1,359	10	0	360
U. Wisconsin-Madison	1,731,949	38,571	77,933	1,058,529	8,838	113,636	13,198	75,982	57,926	171,445	115,891
U. Wisconsin-Milwaukee	60,712	399	9,007	10,761	198	9,286	5,341	5,609	3,244	9,725	7,142
U. Wisconsin-Oshkosh	2,087	10	28	810	0	196	10	129	0	157	747
U. Wisconsin-Platteville	1,481 i	48 i	0 i	665 i	25 i	107 i	25 i	121 i	17 i	223 i	250 i
U. Wisconsin-River Falls	2,772	0	0	2,125	0	373	0	0	0	42	232
U. Wisconsin-Stevens Point	4,589	2	529	3,851	0	125	0	0	0	82	0
U. Wisconsin-Superior	4,825	0	3,952	646	6	23	0	0	0	0	198

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Private	399,269	1,913	102	357,668	971	2,115	1,417	816	0	22,969	11,298
Marquette U.	47,819	1,831	0	17,556	921	2,115	1,335	717	0	12,351	10,993
Medical C. Wisconsin	346,691	0	0	338,863	0	0	0	0	0	7,828	0
Milwaukee School of Engineering	3,317	82	0	431	0	0	0	0	0	2,790	14
Northland C.	1,442 i	0 i	102 i	818 i	50 i	0 i	82 i	99 i	0 i	0 i	291 i
Wyoming	150,124	1,958	21,692	57,427	1,816	3,585	907	5,624	23,805	23,084	10,226
Public	150,124	1,958	21,692	57,427	1,816	3,585	907	5,624	23,805	23,084	10,226
U. Wyoming	150,124	1,958	21,692	57,427	1,816	3,585	907	5,624	23,805	23,084	10,226
Guam	22,388	0	7,715	13,548	160	266	0	126	0	0	573
Public	22,388	0	7,715	13,548	160	266	0	126	0	0	573
U. Guam	22,388	0	7,715	13,548	160	266	0	126	0	0	573
Puerto Rico	115,688	1,116	4,975	70,281	277	10,300	76	1,857	4,906	10,331	11,569
Public	108,678	1,116	4,975	65,403	277	10,300	76	1,857	4,906	10,331	9,437
U. Puerto Rico, Cayey	1,519	0	0	81	0	248	0	237	953	0	0
U. Puerto Rico, Humacao	2,074	0	105	117	0	1,852	0	0	0	0	0
U. Puerto Rico, Mayaguez	13,989	333	1,976	368	51	2,339	0	177	0	7,401	1,344
U. Puerto Rico, Medical Sciences Campus	61,235	0	250	60,985	0	0	0	0	0	0	0
U. Puerto Rico, Ponce	659	0	0	401	69	9	0	0	0	0	180
U. Puerto Rico, Rio Piedras	29,202	783	2,644	3,451	157	5,852	76	1,443	3,953	2,930	7,913
Private	7,010	0	0	4,878	0	0	0	0	0	0	2,132
U. Ana G. Mendez, Gurabo	2,132	0	0	0	0	0	0	0	0	0	2,132
U. Central del Caribe	4,878	0	0	4,878	0	0	0	0	0	0	0
Virgin Islands	20,259	267	8,729	8,130	679	1,130	0	534	0	790	0
Public	20,259	267	8,729	8,130	679	1,130	0	534	0	790	0
U. of the Virgin Islands	20,259	267	8,729	8,130	679	1,130	0	534	0	790	0

i = imputed.

nec = not elsewhere classified; S&E = science and engineering.

^a The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^b Johns Hopkins University includes the Applied Physics Laboratory, with \$2,333,049 thousand in total R&D expenditures in FY 2023.

^c The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 72

Higher education R&D expenditures at institutions with a medical school, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Medical school R&D expenditures
Alabama		
Public		
U. Alabama, Birmingham	780,479	578,126
U. South Alabama	53,182	22,971
Arizona		
Public		
U. Arizona	955,424	286,547
Arkansas		
Public		
U. Arkansas for Medical Sciences	209,409	209,409
California		
Public		
U. California, Davis	962,399	262,309
U. California, Irvine	609,614	210,482
U. California, Los Angeles	1,721,665	1,089,899
U. California, Riverside	214,802	19,586
U. California, San Diego	1,705,410	782,076
U. California, San Francisco	2,046,539	1,793,321
Private		
Charles R. Drew U. of Medicine and Science ^a	19,551	17,009
Loma Linda U.	22,262	18,203
Stanford U.	1,537,846	1,082,751
Touro U., California	2,877	2,167
U. Southern California	1,154,804	478,590
Western U. of Health Sciences	8,929	1,530
Colorado		
Public		
U. Colorado Anschutz Medical Campus	686,026	518,050
Connecticut		
Public		
U. Connecticut	390,165	120,594
Private		
Yale U.	1,326,807	1,105,515
District of Columbia		
Private		
George Washington U.	360,260	72,692
Georgetown U.	337,006	190,610
Howard U.	84,756	23,290
Florida		
Public		
Florida Atlantic U.	77,593	11,073
Florida International U.	306,434	10,967
Florida State U.	414,463	34,260
U. Central Florida	247,259	7,465
U. Florida	1,250,201	531,066
U. South Florida	461,390	172,122
Private		
Nova Southeastern U.	50,173	18,062
U. Miami	509,951	382,542
Georgia		
Public		

TABLE 72

Higher education R&D expenditures at institutions with a medical school, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Medical school R&D expenditures
Augusta U.	139,121	116,467
Private		
Emory U.	1,094,328	700,949
Mercer U.	45,247	5,641
Morehouse School of Medicine	57,125	56,541
Hawaii		
Public		
U. Hawaii, Manoa	313,143	29,536
Illinois		
Public		
Southern Illinois U., Carbondale	58,291	20,248
U. Illinois, Chicago	492,936	216,563
U. Illinois, Urbana-Champaign	821,023	970
Private		
Loyola U., Chicago	52,445	39,526
Midwestern U.	12,725	6,624
Northwestern U.	1,114,269	765,286
Rosalind Franklin U. of Medicine and Science	11,629	10,116
Rush U.	132,394	127,834
U. Chicago	628,302	395,621
Indiana		
Public		
Indiana U., Bloomington	853,056	565,019
Private		
Marian U., Indianapolis	3,009	1,948
Iowa		
Public		
U. Iowa	662,134	353,938
Private		
Des Moines U.	3,932	401
Kansas		
Public		
U. Kansas	466,222	176,715
Kentucky		
Public		
U. Kentucky	504,005	199,428
U. Louisville	220,568	134,861
Louisiana		
Public		
Louisiana State U., Health Sciences Center, New Orleans	68,707	62,462
Louisiana State U., Health Sciences Center, Shreveport	35,624	35,624
Private		
Tulane U.	258,439	103,227
Maine		
Private		
U. New England	6,756	1,984
Maryland		
Public		
U. Maryland ^b	1,385,302	543,571
Uniformed Services U. of the Health Sciences	496,441	392,367
Private		

TABLE 72

Higher education R&D expenditures at institutions with a medical school, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Medical school R&D expenditures
Johns Hopkins U. ^c	3,801,585	918,583
Massachusetts		
Public		
U. Massachusetts, Medical School	326,731	326,731
Private		
Boston U.	773,200	224,416
Harvard U.	1,435,218	450,321
Tufts U.	247,276	73,701
Michigan		
Public		
Central Michigan U.	25,363	13,597
Michigan State U.	844,076	116,665
Oakland U.	37,263	996
U. Michigan, Ann Arbor	1,925,875	797,034
Wayne State U.	250,911	168,570
Western Michigan U. and Homer Stryker M.D. School of Medicine	45,157	5,292
Minnesota		
Public		
U. Minnesota, Twin Cities	1,320,183	454,543
Mississippi		
Public		
U. Mississippi	172,176	73,159
Missouri		
Public		
U. Missouri, Columbia	462,435	108,579
U. Missouri, Kansas City	54,565	9,752
Private		
Saint Louis U.	85,921	42,297
Washington U., Saint Louis	1,168,861	1,028,501
Nebraska		
Public		
U. Nebraska, Lincoln and Medical Center ^d	617,372	132,935
Private		
Creighton U.	28,443	20,517
Nevada		
Public		
U. Nevada, Las Vegas	98,751	5,881
U. Nevada, Reno	188,505	35,731
New Hampshire		
Private		
Dartmouth C. and Dartmouth Hitchcock Medical Center	366,856	158,047
New Jersey		
Public		
Rowan U.	47,810	7,400
Rutgers, State U. New Jersey, New Brunswick	831,719	445,828
New Mexico		
Public		
U. New Mexico	316,026	110,512
New York		
Public		
CUNY, City C.	63,159	3,142

TABLE 72

Higher education R&D expenditures at institutions with a medical school, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Medical school R&D expenditures
SUNY, Downstate Health Sciences U.	35,600	32,752
SUNY, Stony Brook U.	324,531	137,593
SUNY, U. Buffalo	471,569	190,520
SUNY, Upstate Medical U.	53,219	41,916
Private		
Albany Medical C.	23,259	23,259
Albert Einstein C. of Medicine	336,238	336,238
Columbia U. in the City of New York	1,341,952	693,569
Cornell U.	1,451,971	630,700
Hofstra U.	8,162	667
Icahn School of Medicine at Mount Sinai	972,476	972,476
New York Institute of Technology	5,790	3,461
New York Medical C.	17,113	16,981
New York U.	1,457,424	979,152
Touro U., New York	100,547	340
U. Rochester	481,227	284,296
North Carolina		
Public		
East Carolina U.	67,082	19,023
U. North Carolina, Chapel Hill	1,549,617	854,094
Private		
Duke U.	1,507,996	1,222,339
Wake Forest U.	308,972	284,809
North Dakota		
Public		
U. North Dakota	182,195	33,924
Ohio		
Public		
Northeast Ohio Medical U.	13,116	11,263
Ohio State U.	1,449,188	738,693
Ohio U.	59,877	13,120
U. Cincinnati	698,642	574,269
U. Toledo	67,656	28,303
Wright State U.	26,189	10,289
Private		
Case Western Reserve U.	553,740	439,776
Oklahoma		
Public		
Oklahoma State U., Center for Health Sciences	12,500	12,500
U. Oklahoma, Norman and Health Science Center	436,964	131,160
U. Oklahoma, Tulsa	5,826	1,638
Oregon		
Public		
Oregon Health and Science U.	517,742	297,168
Pennsylvania		
Public		
Pennsylvania State U., University Park and Hershey Medical Center	1,206,793	157,488
Temple U.	292,029	114,653
U. Pittsburgh, Pittsburgh	1,398,078	1,024,601
Private		
Drexel U.	169,583	42,349

TABLE 72

Higher education R&D expenditures at institutions with a medical school, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Medical school R&D expenditures
Philadelphia C. of Osteopathic Medicine	7,459	2,848
Thomas Jefferson U.	258,345	241,652
U. Pennsylvania	1,953,617	1,367,371
Rhode Island		
Private		
Brown U.	353,591	130,592
South Carolina		
Public		
Medical U. South Carolina	333,826	273,407
U. South Carolina, Columbia	262,207	22,479
South Dakota		
Public		
U. South Dakota	29,855	10,301
Tennessee		
Public		
East Tennessee State U.	42,335	8,012
U. Tennessee, Health Science Center	130,472	127,923
Private		
Lincoln Memorial U.	1,641	1,568
Meharry Medical C.	22,002	16,781
Vanderbilt U. and Vanderbilt U. Medical Center	1,253,156	647,093
Texas		
Public		
Sam Houston State U.	11,760	716
Texas A&M U., College Station and Health Science Center	1,277,814	56,765
Texas Tech U., Health Sciences Center	48,638	31,116
Texas Tech U., Health Sciences Center, El Paso	13,189	10,469
U. Houston	231,942	1,078
U. North Texas, Health Science Center	94,652	3,297
U. Texas Health Science Center, Houston	374,105	215,282
U. Texas Health Science Center, San Antonio	281,078	178,157
U. Texas Medical Branch	233,192	221,745
U. Texas Rio Grande Valley	82,444	31,635
U. Texas Southwestern Medical Center	800,391	771,653
U. Texas, Austin	1,035,838	46,186
Private		
Baylor C. of Medicine	847,305	847,305
Texas Christian U.	24,050	58
U. of the Incarnate Word	2,245	655
Utah		
Public		
U. Utah	723,713	255,695
Vermont		
Public		
U. Vermont	233,806	114,851
Virginia		
Public		
Eastern Virginia Medical School	23,991	23,991
U. Virginia, Charlottesville	714,457	349,744
Virginia Commonwealth U.	479,930	237,050
Virginia Polytechnic Institute and State U.	598,113	0

TABLE 72

Higher education R&D expenditures at institutions with a medical school, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Medical school R&D expenditures
Private		
Edward Via C. of Osteopathic Medicine	7,597	7,597
Liberty U.	1,900	468
Washington		
Public		
U. Washington, Seattle	1,734,091	944,324
Washington State U.	378,744	16,026
West Virginia		
Public		
Marshall U.	33,693	15,699
West Virginia School of Osteopathic Medicine	1,459 i	1,459 i
West Virginia U.	246,173	70,217
Wisconsin		
Public		
U. Wisconsin-Madison	1,731,949	604,469
Private		
Medical C. Wisconsin	346,691	346,691
Puerto Rico		
Public		
U. Puerto Rico, Medical Sciences Campus	61,235	20,123
Private		
U. Central del Caribe	4,878	4,878

i = imputed.

^a MD degrees are granted by the University of California, Los Angeles (UCLA) through the Drew/UCLA Medical Education program, a partnership between the Charles R. Drew University of Medicine and Science and the UCLA, David Geffen School of Medicine.

^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^c Johns Hopkins University includes the Applied Physics Laboratory, with \$2,333,049 thousand in total R&D expenditures in FY 2023.

^d The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

Note(s):

The source for medical schools is institution response to survey question 4.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 73

Higher education R&D expenditures at institutions reporting clinical trials, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total		Federal		Nonfederal	
	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials
Alabama						
Public						
U. Alabama, Birmingham	780,479	79,048	451,880	29,853	328,599	49,195
U. Alabama, Tuscaloosa	184,880	2,295	86,244	2,258	98,636	37
U. South Alabama	53,182	599	28,637	56	24,545	543
Arizona						
Public						
Northern Arizona U.	77,533	1,903	50,491	1,903	27,042	0
U. Arizona	955,424	13,614	434,700	2,868	520,724	10,746
Arkansas						
Public						
U. Arkansas for Medical Sciences	209,409	1,698	94,483	213	114,926	1,485
California						
Public						
California Polytechnic State U., San Luis Obispo	35,830	1,441	14,810	1,308	21,020	133
California State U., San Bernardino	13,152	233	7,606	233	5,546	0
California State U., San Marcos	11,443	6	9,845	6	1,598	0
San Francisco State U.	34,466	218	16,507	218	17,959	0
U. California, Berkeley	1,076,754	297	496,298	297	580,456	0
U. California, Davis	962,399	19,038	494,847	6,074	467,552	12,964
U. California, Irvine	609,614	22,200	335,393	7,923	274,221	14,277
U. California, Los Angeles	1,721,665	115,088	878,571	78,769	843,094	36,319
U. California, San Diego	1,705,410	27,837 i	1,083,790	11,340 i	621,620	16,497 i
U. California, San Francisco	2,046,539	94,522	858,066	41,584	1,188,473	52,938
Private						
Chapman U.	41,791	269	10,015	250	31,776	19
Charles R. Drew U. of Medicine and Science	19,551	232	13,297	0	6,254	232
Loma Linda U.	22,262	4,108	12,485	733	9,777	3,375
Loyola Marymount U.	14,086	724	2,921	724	11,165	0
Stanford U.	1,537,846	193,031	943,669	77,195	594,177	115,836
Touro U., California	2,877	969	1,279	969	1,598	0
U. Southern California	1,154,804	121,805	683,819	29,697	470,985	92,108
Western U. of Health Sciences	8,929	233	6,099	0	2,830	233
Colorado						
Public						

TABLE 73

Higher education R&D expenditures at institutions reporting clinical trials, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total		Federal		Nonfederal	
	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials
Colorado State U., Fort Collins	498,073	150	354,401	6	143,672	144
U. Colorado Anschutz Medical Campus	686,026	62,501	474,523	7,558	211,503	54,943
U. Northern Colorado	9,064	32	1,705	0	7,359	32
Private						
U. Denver	53,484	671	33,148	636	20,336	35
Connecticut						
Public						
U. Connecticut	390,165	10,267	238,701	7,939	151,464	2,328
Private						
Trinity C., Hartford	4,099	98	687	98	3,412	0
Yale U.	1,326,807	41,353	741,198	0	585,609	41,353
Delaware						
Public						
U. Delaware	428,128	3,828	202,469	3,814	225,659	14
District of Columbia						
Private						
Gallaudet U.	9,894	1,103	5,523	891	4,371	212
George Washington U.	360,260	10,235	162,892	5,120	197,368	5,115
Georgetown U.	337,006	14,006	127,370	4	209,636	14,002
Howard U.	84,756	554	47,662	42	37,094	512
Florida						
Public						
Florida Atlantic U.	77,593	435	35,108	327	42,485	108
Florida International U.	306,434	9,802	156,381	9,162	150,053	640
Florida State U.	414,463	6,087	195,323	5,223	219,140	864
U. Central Florida	247,259	1,407	124,256	1,259	123,003	148
U. Florida	1,250,201	53,702	529,391	18,554	720,810	35,148
U. South Florida	461,390	20,153	242,224	243	219,166	19,910
Private						
Nova Southeastern U.	50,173	560	11,637	312	38,536	248
U. Miami	509,951	55,437	291,783	15,118	218,168	40,319
Georgia						
Public						
Augusta U.	139,121	5,106	64,410	276	74,711	4,830
U. Georgia	570,956	853	221,804	573	349,152	280

TABLE 73

Higher education R&D expenditures at institutions reporting clinical trials, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total		Federal		Nonfederal	
	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials
Private						
Emory U.	1,094,328	63,284	664,370	14,456	429,958	48,828
Mercer U.	45,247	260	29,944	0	15,303	260
Morehouse School of Medicine	57,125	3,692	41,069	0	16,056	3,692
Hawaii						
Public						
U. Hawaii, Manoa	313,143	122	192,205	28	120,938	94
Illinois						
Public						
Southern Illinois U., Carbondale	58,291	4,631	17,209	3,021	41,082	1,610
U. Illinois, Chicago	492,936	32,022	274,424	24,598	218,512	7,424
U. Illinois, Urbana-Champaign	821,023	1,468	460,491	767	360,532	701
Private						
Loyola U., Chicago	52,445	4,033	29,712	568	22,733	3,465
Midwestern U.	12,725	242	2,862	202	9,863	40
Northwestern U.	1,114,269	369,078	678,062	305,866	436,207	63,212
Rosalind Franklin U. of Medicine and Science	11,629	3	7,124	0	4,505	3
Rush U.	132,394	25,705	93,180	10,790	39,214	14,915
U. Chicago	628,302	36,774	476,689	323	151,613	36,451
Indiana						
Public						
Ball State U.	11,650	2,415	6,355	2,415	5,295	0
Indiana U., Bloomington	853,056	68,056	432,223	34,391	420,833	33,665
Indiana U.-Purdue U., Indianapolis	87,648	1,911	39,869	1,548	47,779	363
Iowa						
Public						
U. Iowa	662,134	22,624	331,824	0	330,310	22,624
Private						
Des Moines U.	3,932	57	556	10	3,376	47
Palmer C. of Chiropractic, Davenport	1,725	1,500	1,500	1,500	225	0
Kansas						
Public						
U. Kansas	466,222	27,280	211,111	1,594	255,111	25,686
Kentucky						
Public						

TABLE 73

Higher education R&D expenditures at institutions reporting clinical trials, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total		Federal		Nonfederal	
	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials
U. Kentucky	504,005	12,140	265,543	3,609	238,462	8,531
U. Louisville	220,568	11,264	100,890	3,689	119,678	7,575
Louisiana						
Public						
Louisiana State U., Baton Rouge	384,268	16,698	127,243	13,699	257,025	2,999
Louisiana State U., Health Sciences Center, New Orleans	68,707	767	35,933	144	32,774	623
Louisiana State U., Health Sciences Center, Shreveport	35,624	4,244	18,742	469	16,882	3,775
Private						
Tulane U.	258,439	9,074	152,468	86	105,971	8,988
Maine						
Private						
U. New England	6,756	16	4,777	16	1,979	0
Maryland						
Public						
U. Maryland ^a	1,385,302	30,384	825,546	7,577	559,756	22,807
Private						
Johns Hopkins U. ^b	3,801,585	51,211	3,324,551	582	477,034	50,629
Massachusetts						
Public						
U. Massachusetts, Medical School	326,731	7,260	223,490	126	103,241	7,134
Private						
Boston C.	81,425	3,520	39,356	1,154	42,069	2,366
Boston U.	773,200	2,892	409,551	553	363,649	2,339
Harvard U.	1,435,218	60,181	639,953	56,931	795,265	3,250
New England C. of Optometry	2,491	895	1,946	767	545	128
Tufts U.	247,276	1,659	154,458	1,345	92,818	314
Michigan						
Public						
Central Michigan U.	25,363	514	9,591	186	15,772	328
Grand Valley State U.	6,231	422	1,808	422	4,423	0
Michigan State U.	844,076	7,646	435,564	6,164	408,512	1,482
Oakland U.	37,263	535	9,600	435	27,663	100
U. Michigan, Ann Arbor	1,925,875	46,238	1,041,430	5,652	884,445	40,586
Wayne State U.	250,911	16,469	128,521	871	122,390	15,598
Western Michigan U. and Homer Stryker M.D. School of Medicine	45,157	375	12,631	2	32,526	373

TABLE 73

Higher education R&D expenditures at institutions reporting clinical trials, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total		Federal		Nonfederal	
	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials
Minnesota						
Public						
U. Minnesota, Twin Cities	1,320,183	62,801	702,483	37,174	617,700	25,627
Mississippi						
Public						
Alcorn State U.	19,141	529 i	10,996	421 i	8,145	108 i
U. Mississippi	172,176	1,374	85,186	666	86,990	708
Missouri						
Public						
U. Missouri, Columbia	462,435	2,965	217,091	285	245,344	2,680
U. Missouri, Kansas City	54,565	207	28,115	0	26,450	207
Private						
Saint Louis U.	85,921	9,231	44,157	4,413	41,764	4,818
Washington U., Saint Louis	1,168,861	50,652	758,464	0	410,397	50,652
Montana						
Public						
Montana State U., Bozeman	229,682	1,727	142,965	1,711	86,717	16
Nebraska						
Public						
U. Nebraska, Lincoln and Medical Center ^c	617,372	15,653	280,120	7,340	337,252	8,313
U. Nebraska, Omaha	30,841	474	22,096	454	8,745	20
Private						
Creighton U.	28,443	2,391 i	12,681	675 i	15,762	1,716 i
Nevada						
Public						
U. Nevada, Las Vegas	98,751	116	38,815	0	59,936	116
U. Nevada, Reno	188,505	529	83,603	529	104,902	0
Private						
Roseman U. of Health Sciences	6,065	56	38	0	6,027	56
New Hampshire						
Private						
Dartmouth C. and Dartmouth Hitchcock Medical Center	366,856	19,982	168,740	15,999	198,116	3,983
New Jersey						
Public						
Rutgers, State U. New Jersey, New Brunswick	831,719	16,822	400,930	4,867	430,789	11,955

TABLE 73

Higher education R&D expenditures at institutions reporting clinical trials, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total		Federal		Nonfederal	
	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials
New Mexico						
Public						
New Mexico Highlands U.	3,468	421 i	3,416	421 i	52	0 i
U. New Mexico	316,026	10,828	205,351	6,053	110,675	4,775
New York						
Public						
CUNY, C. Staten Island	4,730	677	3,296	519	1,434	158
SUNY, C. of Optometry	4,423	1,266	2,469	9	1,954	1,257
SUNY, Downstate Health Sciences U.	35,600	495	28,543	137	7,057	358
SUNY, Stony Brook U.	324,531	10,334	192,448	4,980	132,083	5,354
SUNY, U. Buffalo	471,569	6,525	257,857	595	213,712	5,930
SUNY, Upstate Medical U.	53,219	6,864	30,069	608	23,150	6,256
Private						
Albany Medical C.	23,259	2,355	14,193	17	9,066	2,338
Albert Einstein C. of Medicine	336,238	323	230,151	314	106,087	9
Columbia U. in the City of New York	1,341,952	110,102	988,670	52,550	353,282	57,552
Cornell U.	1,451,971	27,115	705,132	11,003	746,839	16,112
Icahn School of Medicine at Mount Sinai	972,476	143,186	658,916	74,289	313,560	68,897
Ithaca C.	861	10	453	10	408	0
New School	22,680	568	1,337	489	21,343	79
New York Medical C.	17,113	2,711	8,226	342	8,887	2,369
New York U.	1,457,424	50,040	787,204	4,097	670,220	45,943
Rockefeller U.	385,168	105	101,422	46	283,746	59
Syracuse U.	183,850	19	46,595	19	137,255	0
U. Rochester	481,227	38,450	368,190	16,230	113,037	22,220
North Carolina						
Public						
East Carolina U.	67,082	3,432	30,851	298	36,231	3,134
U. North Carolina, Chapel Hill	1,549,617	54,752	907,710	11,653	641,907	43,099
U. North Carolina, Greensboro	44,521	1,368	31,581	1,368	12,940	0
Private						
Duke U.	1,507,996	720,471	974,202	506,571	533,794	213,900
Wake Forest U.	308,972	40,875	204,713	24,830	104,259	16,045
Ohio						
Public						

TABLE 73

Higher education R&D expenditures at institutions reporting clinical trials, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total		Federal		Nonfederal	
	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials
Kent State U.	58,984	576	17,959	516	41,025	60
Miami U.	28,430	208	10,724	208	17,706	0
Ohio State U.	1,449,188	100,145	694,647	37,152	754,541	62,993
Ohio U.	59,877	224	21,919	221	37,958	3
U. Cincinnati	698,642	35,719	391,943	14,624	306,699	21,095
U. Toledo	67,656	1,164	37,872	176	29,784	988
Wright State U.	26,189	685	19,081	419	7,108	266
Private						
Case Western Reserve U.	553,740	28,431	431,736	27,190	122,004	1,241
Oklahoma						
Public						
Oklahoma State U., Center for Health Sciences	12,500	253	4,773	241	7,727	12
U. Oklahoma, Norman and Health Science Center	436,964	8,242	219,964	323	217,000	7,919
U. Oklahoma, Tulsa	5,826	60	1,328	0	4,498	60
Private						
U. Tulsa	24,845	2	8,545	0	16,300	2
Oregon						
Public						
Oregon Health and Science U.	517,742	76,099	374,043	30,232	143,699	45,867
U. Oregon	164,500	7,293	100,265	7,117	64,235	176
Private						
National U. of Natural Medicine	1,336	214	862	45	474	169
Pacific U.	10,719	2,052	7,133	1,983	3,586	69
Pennsylvania						
Public						
Pennsylvania State U., University Park and Hershey Medical Center	1,206,793	21,120	781,303	13,260	425,490	7,860
Temple U.	292,029	22,245	154,516	1,087	137,513	21,158
U. Pittsburgh, Pittsburgh	1,398,078	39,861	916,735	17,955	481,343	21,906
West Chester U. Pennsylvania	6,132	323	1,386	323	4,746	0
Private						
Carnegie Mellon U.	484,757	1,451	279,954	1,449	204,803	2
Drexel U.	169,583	740	108,724	147	60,859	593
Thomas Jefferson U.	258,345	24,900	110,366	6,208	147,979	18,692
U. Pennsylvania	1,953,617	77,389	936,469	7,691	1,017,148	69,698
Rhode Island						

TABLE 73

Higher education R&D expenditures at institutions reporting clinical trials, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total		Federal		Nonfederal	
	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials
Public						
U. Rhode Island	144,013	109	102,056	109	41,957	0
South Carolina						
Public						
Medical U. South Carolina	333,826	49,658 i	168,957	22,921 i	164,869	26,737 i
U. South Carolina, Columbia	262,207	247	124,330	113	137,877	134
South Dakota						
Public						
Black Hills State U.	2,260	63	1,918	63	342	0
Tennessee						
Public						
U. Tennessee, Health Science Center	130,472	3,878	70,676	18	59,796	3,860
U. Tennessee, Knoxville	338,847	6	153,637	0	185,210	6
Private						
Meharry Medical C.	22,002	935	18,398	761	3,604	174
Vanderbilt U. and Vanderbilt U. Medical Center	1,253,156	97,246	751,019	50,684	502,137	46,562
Texas						
Public						
Texas A&M U., College Station and Health Science Center	1,277,814	2,537	546,481	1,087	731,333	1,450
Texas State U.	141,291	128	44,297	128	96,994	0
Texas Tech U.	240,107	11	58,922	11	181,185	0
Texas Tech U., Health Sciences Center	48,638	190	14,732	13	33,906	177
Texas Tech U., Health Sciences Center, El Paso	13,189	895	2,415	535	10,774	360
Texas Woman's U.	6,922	138	2,439	35	4,483	103
U. Houston	231,942	4,653	99,450	4,426	132,492	227
U. North Texas, Health Science Center	94,652	111	77,660	94	16,992	17
U. Texas Health Science Center, Houston	374,105	25,829	197,759	12,755	176,346	13,074
U. Texas Health Science Center, San Antonio	281,078	13,435	143,730	4,520	137,348	8,915
U. Texas Health Science Center, Tyler	32,077	189	12,555	52	19,522	137
U. Texas M. D. Anderson Cancer Center	1,255,190	198,319	259,285	4,163	995,905	194,156
U. Texas Medical Branch	233,192	5,149	150,272	3,404	82,920	1,745
U. Texas Rio Grande Valley	82,444	898	25,068	898	57,376	0
U. Texas Southwestern Medical Center	800,391	61,870	336,126	30,154	464,265	31,716
U. Texas, Arlington	147,265	1,057	56,337	706	90,928	351
U. Texas, Austin	1,035,838	2,479	621,223	480	414,615	1,999

TABLE 73

Higher education R&D expenditures at institutions reporting clinical trials, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total		Federal		Nonfederal	
	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials
U. Texas, El Paso	145,724	942	70,873	942	74,851	0
U. Texas, San Antonio	158,453	328	58,171	328	100,282	0
Private						
Baylor C. of Medicine	847,305	49,333	440,345	20,619	406,960	28,714
Baylor U.	82,074	1,277	17,147	1,277	64,927	0
Rice U.	255,115	856	119,853	605	135,262	251
Texas Christian U.	24,050	5,251	7,627	5,239	16,423	12
Utah						
Public						
U. Utah	723,713	37,370	416,079	0	307,634	37,370
Vermont						
Public						
U. Vermont	233,806	9,565	128,645	7,530	105,161	2,035
Virginia						
Public						
Eastern Virginia Medical School	23,991	1,439	17,947	166	6,044	1,273
Old Dominion U.	71,334	870	31,104	753	40,230	117
U. Virginia, Charlottesville	714,457	13,165	354,748	2,222	359,709	10,943
Virginia Commonwealth U.	479,930	5,112	184,852	1,540	295,078	3,572
Virginia Polytechnic Institute and State U.	598,113	9,548	282,152	9,354	315,961	194
Washington						
Public						
U. Washington, Seattle	1,734,091	97,300	1,188,836	39,769	545,255	57,531
Washington State U.	378,744	7,881	207,086	7,751	171,658	130
West Virginia						
Public						
West Virginia U.	246,173	2,438	114,708	1,007	131,465	1,431
Wisconsin						
Public						
U. Wisconsin-Madison	1,731,949	24,903	816,814	1,913	915,135	22,990
Private						
Marquette U.	47,819	3,521	20,055	3,019	27,764	502
Medical C. Wisconsin	346,691	30,149	155,403	760	191,288	29,389
Puerto Rico						
Public						

TABLE 73

Higher education R&D expenditures at institutions reporting clinical trials, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total		Federal		Nonfederal	
	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials
U. Puerto Rico, Medical Sciences Campus	61,235	2,708	46,789	2,707	14,446	1
Private						
U. Central del Caribe	4,878	57	2,929	0	1,949	57

i = imputed.

^a The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^b Johns Hopkins University includes the Applied Physics Laboratory, with zero in both total and federally financed clinical trials R&D expenditures in FY 2023.

^c The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 74

Total and federally financed higher education R&D expenditures received as a subrecipient, by highest degree granted and institutional control: FY 2023

(Dollars in thousands)

R&D expenditures and type of institution	All R&D expenditures	R&D expenditures received as a subrecipient				
		Total	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Total R&D, all institutions	108,681,008	10,626,607	5,276,187	1,528,445	2,173,477	1,648,498
Doctorate	107,813,315	10,544,990	5,224,427	1,524,839	2,164,759	1,630,965
Nondoctorate	867,693	81,617	51,760	3,606	8,718	17,533
Public	71,001,044	7,136,333	3,266,450	1,070,988	1,394,348	1,404,547
Private	37,679,964	3,490,274	2,009,737	457,457	779,129	243,951
Federally financed R&D, all institutions	59,603,993	9,292,657	4,818,870	1,269,034	1,750,269	1,454,484
Doctorate	59,120,821	9,226,948	4,773,568	1,266,733	1,742,898	1,443,749
Nondoctorate	483,172	65,709	45,302	2,301	7,371	10,735
Public	37,015,780	6,252,502	3,010,022	883,597	1,104,285	1,254,598
Private	22,588,213	3,040,155	1,808,848	385,437	645,984	199,886

Note(s):

This table includes only institutions reporting \$1 million or more in total R&D expenditures in 2022. Institutions reporting less than \$1 million in total R&D expenditures in 2022 completed a shorter version of the survey form in FY 2023, and that form only requested R&D expenditures received from higher education institutions. For a listing of R&D expenditures received from higher education institutions at institutions completing the shorter version of the survey, see [table 86](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 75

Total and federally financed higher education R&D expenditures passed through to subrecipients, by highest degree granted and institutional control: FY 2023

(Dollars in thousands)

Type of institution	All R&D expenditures	R&D expenditures passed through to subrecipients				
		Total	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Total R&D, all institutions	108,681,008	9,514,892	5,187,467	1,711,781	1,724,170	891,474
Doctorate	107,813,315	9,473,272	5,160,665	1,707,534	1,718,274	886,799
Nondoctorate	867,693	41,620	26,802	4,247	5,896	4,675
Public	71,001,044	5,737,216	3,178,188	1,104,624	867,137	587,267
Private	37,679,964	3,777,676	2,009,279	607,157	857,033	304,207
Federally financed R&D, all institutions	59,603,993	8,205,341	4,657,136	1,379,718	1,442,979	725,508
Doctorate	59,120,821	8,172,258	4,634,321	1,375,928	1,439,126	722,883
Nondoctorate	483,172	33,083	22,815	3,790	3,853	2,625
Public	37,015,780	5,026,899	2,844,526	952,144	728,626	501,603
Private	22,588,213	3,178,442	1,812,610	427,574	714,353	223,905

Note(s):

This table includes only institutions reporting \$1 million or more in total R&D expenditures in 2022. Institutions reporting less than \$1 million in total R&D expenditures in 2022 completed a shorter version of the survey form in FY 2023, and that form requested R&D expenditures passed through only to higher education institutions. For a list of R&D expenditures passed through to higher education institutions at institutions completing the shorter version of the survey, see [table 86](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 76

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
United States	10,626,607	5,276,187	1,528,445	2,173,477	1,648,498	9,292,657	4,818,870	1,269,034	1,750,269	1,454,484
Alabama										
Public										
Alabama A&M U.	2,024	1,866	120	38	0	2,024	1,866	120	38	0
Alabama State U.	353	353	0	0	0	353	353	0	0	0
Auburn U., Auburn	46,569	13,435	11,909	1,113	20,112	43,484	12,302	11,421	609	19,152
Troy U.	667	396	0	0	271	395	157	0	0	238
U. Alabama, Birmingham	53,138	35,767	6,363	6,459	4,549	53,138	35,767	6,363	6,459	4,549
U. Alabama, Huntsville	52,160	6,210	40,797	1,757	3,396	50,491	6,119	40,066	1,458	2,848
U. Alabama, Tuscaloosa	29,912	10,520	7,681	3,723	7,988	29,222	10,194	7,609	3,603	7,816
U. South Alabama	11,498	6,971	913	423	3,191	10,085	6,971	257	258	2,599
Private										
Tuskegee U.	2,053	1,632	37	367	17	2,053	1,632	37	367	17
Alaska										
Public										
U. Alaska, Anchorage	1,570	881	17	198	474	1,514	840	17	198	459
U. Alaska, Fairbanks	11,917	5,102	568	4,328	1,919	10,653	4,784	568	3,448	1,853
U. Alaska, Southeast	282	99	0	183	0	247	99	0	148	0
Private										
Alaska Pacific U.	348	348	0	0	0	348	348	0	0	0
Arizona										
Public										
Arizona State U.	124,442	34,846	17,020	57,189	15,387	70,843	31,443	13,275	12,043	14,082
Dine C.	29	29	0	0	0	29	29	0	0	0
Northern Arizona U.	8,872	7,209	522	1,069	72	8,850	7,208	522	1,069	51
U. Arizona	90,945	37,800	15,966	26,589	10,590	79,097	34,773	11,234	22,579	10,511
Arkansas										
Public										
Arkansas State U., Jonesboro	1,569	953	49	0	567	1,332	716	49	0	567
U. Arkansas for Medical Sciences	19,615	5,635	3,494	4,062	6,424	16,933	4,873	2,927	3,147	5,986
U. Arkansas, Fayetteville	19,013	10,104	2,084	1,341	5,484	17,379	9,372	2,030	851	5,126
U. Arkansas, Little Rock	2,975	1,498	0	0	1,477	2,975	1,498	0	0	1,477
U. Arkansas, Pine Bluff	397	387	0	0	10	391	381	0	0	10

TABLE 76

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
U. Central Arkansas	2,132	1,292	96	16	728	1,633	987	87	16	543
California										
Public										
California Polytechnic State U., San Luis Obispo	4,386	1,728	901	805	952	3,799	1,494	833	641	831
California State Polytechnic U., Humboldt	3,120	1,640	285	571	624	1,631	712	45	279	595
California State Polytechnic U., Pomona	1,675	1,011	215	53	396	1,467	922	215	0	330
California State U., Bakersfield	108	21	0	11	76	76	0	0	0	76
California State U., Channel Islands	413	353	0	60	0	348	288	0	60	0
California State U., Chico	951	726	0	0	225	712	712	0	0	0
California State U., Dominguez Hills	1,409	394	41	18	956	394	394	0	0	0
California State U., East Bay	884	463	82	84	255	587	226	55	69	237
California State U., Fresno	3,379	2,732	134	86	427	857	391	52	0	414
California State U., Fullerton	685	627	30	28	0	643	585	30	28	0
California State U., Long Beach	2,579	1,908	80	423	168	1,328	1,105	80	48	95
California State U., Los Angeles	1,279	1,130	0	149	0	978	829	0	149	0
California State U., Monterey Bay	3,875	1,530	5	1,653	687	2,716	670	0	1,625	421
California State U., Northridge	2,926	1,994	83	458	391	1,805	1,116	83	215	391
California State U., Sacramento	5,947	1,017	0	56	4,874	5,711	781	0	56	4,874
California State U., San Bernardino	1,016	890	0	0	126	955	829	0	0	126
California State U., San Marcos	974	590	0	239	145	915	562	0	208	145
California State U., Stanislaus	171	171	0	0	0	171	171	0	0	0
Naval Postgraduate School	912	191	654	67	0	0	0	0	0	0
San Diego State U.	13,557	9,895	840	2,293	529	11,627	7,965	840	2,293	529
San Francisco State U.	3,348	2,396	145	342	465	2,581	2,097	145	166	173
San Jose State U.	5,280	4,174	11	444	651	5,221	4,174	11	385	651
Sonoma State U.	786	720	1	40	25	531	483	1	40	7
U. California, Berkeley	81,555	53,868	6,581	11,560	9,546	67,687	45,550	5,657	7,651	8,829
U. California, Davis	74,941	42,919	6,432	17,388	8,202	65,969	40,407	5,253	12,618	7,691
U. California, Irvine	38,032	24,385	5,900	7,205	542	31,180	22,824	2,265	5,642	449
U. California, Los Angeles	116,695	66,469	11,660	27,793	10,773	103,076	61,646	10,686	23,587	7,157
U. California, Merced	4,777	1,746	366	988	1,677	3,109	1,384	366	278	1,081
U. California, Office of the President	0	0	0	0	0	0	0	0	0	0
U. California, Riverside	18,880	11,413	1,885	3,828	1,754	16,552	10,361	1,528	3,009	1,654

TABLE 76

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Colorado School of Mines	16,891	8,294	5,351	3,008	238	15,846	7,450	5,302	2,994	100
Colorado State U., Fort Collins	63,041	30,158	9,183	6,503	17,197	55,237	28,580	8,801	4,409	13,447
Colorado State U., Pueblo	126	126	0	0	0	126	126	0	0	0
Fort Lewis C.	656	517	0	75	64	632	517	0	51	64
U. Colorado Anschutz Medical Campus	103,920	57,701	17,522	19,365	9,332	98,390	56,272	16,216	17,801	8,101
U. Colorado Boulder	88,216	49,483	13,064	11,570	14,099	85,957	48,874	12,411	11,112	13,560
U. Colorado Colorado Springs	2,215	587	1,364	264	0	2,113	489	1,364	260	0
U. Colorado Denver	6,568	2,133	1,300	147	2,988	6,429	2,097	1,267	108	2,957
U. Northern Colorado	307	137	134	0	36	307	137	134	0	36
U.S. Air Force Academy	0	0	0	0	0	0	0	0	0	0
Private										
Colorado C.	19	7	0	12	0	7	7	0	0	0
U. Denver	9,989	3,371	1,281	4,265	1,072	9,470	2,998	1,281	4,217	974
Connecticut										
Public										
Central Connecticut State U.	365	113	0	0	252	365	113	0	0	252
Eastern Connecticut State U.	21	21	0	0	0	21	21	0	0	0
Southern Connecticut State U.	566	354	12	2	198	354	354	0	0	0
U. Connecticut	38,897	15,769	3,432	6,813	12,883	36,329	14,499	3,103	6,355	12,372
U.S. Coast Guard Academy	32	32	0	0	0	0	0	0	0	0
Private										
Connecticut C.	231	231	0	0	0	231	231	0	0	0
Fairfield U.	72	49	15	8	0	43	20	15	8	0
Hartford International U. for Religion and Peace	0	0	0	0	0	0	0	0	0	0
Sacred Heart U.	151	151	0	0	0	151	151	0	0	0
Trinity C., Hartford	6	6	0	0	0	6	6	0	0	0
U. Hartford	207	79	0	128	0	207	79	0	128	0
U. New Haven	229	104	0	125	0	134	39	0	95	0
Wesleyan U.	1,125	829	49	247	0	613	464	49	100	0
Yale U.	80,855	56,934	3,167	15,488	5,266	73,248	51,140	2,926	14,137	5,045
Delaware										
Public										
Delaware State U.	5,476	5,459	0	0	17	5,334	5,317	0	0	17

TABLE 76

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total						Federally financed					
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities		
Albany State U.	430	309	0	0	121	232	232	0	0	0		
Augusta U.	5,040	3,986	552	502	0	4,971	3,986	528	457	0		
Fort Valley State U.	662	662	0	0	0	662	662	0	0	0		
Georgia Institute of Technology	134,254	2,903	37,954	14,269	79,128	119,275	1,366	36,127	4,765	77,017		
Georgia Southern U.	1,797	584	263	334	616	1,521	569	263	73	616		
Georgia State U.	20,467	13,212	1,515	2,383	3,357	16,371	12,143	552	1,069	2,607		
Kennesaw State U.	148	148	0	0	0	148	148	0	0	0		
Savannah State U.	372	338	0	4	30	372	338	0	4	30		
U. Georgia	46,570	27,305	3,084	9,231	6,950	43,596	25,176	2,810	8,996	6,614		
U. North Georgia	203	203	0	0	0	187	187	0	0	0		
Private												
Clark Atlanta U.	783	783	0	0	0	783	783	0	0	0		
Emory U.	128,430	68,992	11,277	43,410	4,751	110,009	63,181	6,099	37,897	2,832		
Mercer U.	2,512	382	2,124	6	0	381	375	0	6	0		
Morehouse C.	296	296	0	0	0	296	296	0	0	0		
Morehouse School of Medicine	11,964	11,964	0	0	0	11,964	11,964	0	0	0		
Spelman C.	701	674	0	0	27	674	674	0	0	0		
Hawaii												
Public												
U. Hawaii, Hilo	1,155	228	31	217	679	1,155	228	31	217	679		
U. Hawaii, Manoa	26,348	11,237	1,142	4,419	9,550	26,162	11,189	1,142	4,281	9,550		
U. Hawaii, Maui C.	0	0	0	0	0	0	0	0	0	0		
U. Hawaii, system office	231	0	65	166	0	231	0	65	166	0		
Private												
Hawaii Pacific U.	1,094	1,070	0	14	10	1,070	1,070	0	0	0		
Idaho												
Public												
Boise State U.	8,542	4,322	509	3,208	503	8,542	4,322	509	3,208	503		
Idaho State U.	2,373	1,994	17	34	328	2,373	1,994	17	34	328		
U. Idaho	8,417	5,394	41	158	2,824	7,935	5,144	41	37	2,713		
Illinois												
Public												
Chicago State U.	524	524	0	0	0	524	524	0	0	0		

TABLE 76

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Illinois State U.	1,033	957	0	42	34	999	957	0	42	0
Northeastern Illinois U.	161	59	0	102	0	161	59	0	102	0
Northern Illinois U.	3,492	1,307	341	1,742	102	3,148	1,084	341	1,642	81
Southern Illinois U., Carbondale	6,229 i	1,761 i	559 i	166 i	3,743 i	5,409	1,541	321	0	3,547
Southern Illinois U., Edwardsville	1,724	596	187	33	908	1,685	557	187	33	908
U. Illinois, Chicago	61,347	38,941	7,397	10,666	4,343	57,930	37,134	7,174	9,283	4,339
U. Illinois, Springfield	0	0	0	0	0	0	0	0	0	0
U. Illinois, Urbana-Champaign	74,584	41,050	8,960	7,636	16,938	65,807	36,988	8,160	5,483	15,176
Western Illinois U.	1,076	899	0	0	177	1,074	897	0	0	177
Private										
DePaul U.	964	651	45	119	149	964	651	45	119	149
Erikson Institute	118	118	0	0	0	118	118	0	0	0
Illinois Institute of Technology	5,731	2,424	1,328	315	1,664	5,004	2,382	860	146	1,616
Loyola U., Chicago	8,242	6,962	133	561	586	7,347	6,240	132	445	530
Midwestern U.	843	313	0	247	283	829	299	0	247	283
Northwestern U.	111,443	63,236	34,694	13,139	374	79,820	58,489	10,393	10,745	193
Rosalind Franklin U. of Medicine and Science	564	564	0	0	0	564	564	0	0	0
Rush U.	20,920	16,886	0	2,581	1,453	18,408	14,480	0	2,480	1,448
Toyota Technological Institute, Chicago	307	307	0	0	0	307	307	0	0	0
U. Chicago	106,828	67,015	27,417	9,478	2,918	99,496	62,422	27,330	7,507	2,237
Wheaton C., Wheaton	131	131	0	0	0	81	81	0	0	0
Indiana										
Public										
Ball State U.	1,593	1,065	58	102	368	724	266	58	73	327
Indiana State U.	52	36	0	0	16	52	36	0	0	16
Indiana U., Bloomington	88,969	42,078	14,371	28,793	3,727	70,548	39,322	4,188	24,262	2,776
Indiana U., South Bend	203	203	0	0	0	89	89	0	0	0
Indiana U.-Purdue U., Indianapolis	12,124	4,324	1,133	2,347	4,320	11,490	3,994	1,122	2,094	4,280
Purdue U., Fort Wayne	503	122	82	36	263	36	0	0	36	0
Purdue U., Northwest	1,442	843	53	18	528	907	655	28	0	224
Purdue U., West Lafayette	112,632	45,160	23,057	9,859	34,556	82,708	42,319	20,996	7,180	12,213
Private										
Butler U.	33	33	0	0	0	9	9	0	0	0

TABLE 76

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Marian U., Indianapolis	100	100	0	0	0	100	100	0	0	0
U. Notre Dame	44,317	16,127	19,040	5,340	3,810	40,969	14,527	18,155	4,522	3,765
Iowa										
Public										
Iowa State U.	38,350	15,746	3,237	5,971	13,396	35,726	13,903	3,237	5,389	13,197
U. Iowa	11,629	2,311	1,023	1,663	6,632	11,629	2,311	1,023	1,663	6,632
U. Northern Iowa	1,480	482	0	0	998	1,480	482	0	0	998
Private										
Des Moines U.	61	61	0	0	0	46	46	0	0	0
Drake U.	910	139	281	0	490	620	130	0	0	490
Grinnell C.	49	49	0	0	0	49	49	0	0	0
Palmer C. of Chiropractic, Davenport	12	12	0	0	0	12	12	0	0	0
Kansas										
Public										
Kansas State U.	12,760	5,377	1,592	4,646	1,145	10,803	4,428	1,491	3,769	1,115
Pittsburg State U.	675	675	0	0	0	675	675	0	0	0
U. Kansas	49,467	21,805	4,150	6,344	17,168	43,338	19,482	3,203	5,334	15,319
Wichita State U.	4,765	1,145	222	783	2,615	4,640	1,145	202	775	2,518
Kentucky										
Public										
Eastern Kentucky U.	389	346	0	0	43	389	346	0	0	43
Kentucky State U.	294	294	0	0	0	294	294	0	0	0
Morehead State U.	548	0	530	18	0	547	0	530	17	0
Murray State U.	738	605	4	109	20	596	567	0	17	12
Northern Kentucky U.	1,174	619	0	0	555	1,174	619	0	0	555
U. Kentucky	47,415	21,955	6,410	4,142	14,908	44,123	19,027	6,277	4,004	14,815
U. Louisville	23,368	10,998	4,461	5,666	2,243	17,739	9,376	1,881	4,497	1,985
Western Kentucky U.	2,827	1,683	226	159	759	2,068	1,683	226	159	0
Louisiana										
Public										
Grambling State U.	397	397	0	0	0	377	377	0	0	0
Louisiana State U., Baton Rouge	26,410	19,405	1,300	1,991	3,714	25,717	19,337	1,279	1,981	3,120
Louisiana State U., Health Sciences Center, New Orleans	8,273	6,466	930	877	0	8,207	6,447	930	830	0

TABLE 76

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Louisiana State U., Health Sciences Center, Shreveport	1,436	1,382	54	0	0	1,436	1,382	54	0	0
Louisiana Tech U.	3,750	855	495	1,167	1,233	3,543	855	439	1,020	1,229
Northwestern State U. Louisiana	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Southeastern Louisiana U.	779	686	0	0	93	779	686	0	0	93
Southern U. and A&M C., Agricultural Research and Extension Center	303	303	0	0	0	303	303	0	0	0
Southern U. and A&M C., Baton Rouge	648	0	618	0	30	0	0	0	0	0
Southern U., New Orleans	0	0	0	0	0	0	0	0	0	0
U. Louisiana, Lafayette	10,278	3,795	630	582	5,271	8,492	2,584	605	32	5,271
U. Louisiana, Monroe	1,120	825	30	100	165	990	825	0	0	165
U. New Orleans	2,228	1,569	79	429	151	1,807	1,286	54	320	147
Private										
Dillard U.	225	42	0	175	8	225	42	0	175	8
Tulane U.	31,836	18,574	7,163	5,468	631	28,999	17,694	6,272	4,402	631
Xavier U. Louisiana	2,643	1,544	0	348	751	1,946	1,544	0	348	54
Maine										
Public										
U. Maine	20,802	5,971	5,548	109	9,174	20,339	5,948	5,426	18	8,947
U. Southern Maine	1,648	1,037	0	611	0	1,576	1,037	0	539	0
Private										
Bates C.	745	382	0	363	0	745	382	0	363	0
Bowdoin C.	503	89	0	414	0	503	89	0	414	0
Colby C.	767	261	0	410	96	693	232	0	365	96
U. New England	736	474	0	262	0	602	474	0	128	0
Maryland										
Public										
Bowie State U.	968	968	0	0	0	968	968	0	0	0
Morgan State U.	13,556	11,800	1,429	327	0	13,077	11,332	1,429	316	0
Salisbury U.	2,534	1,686	0	781	67	2,090	1,242	0	781	67
St. Mary's C. Maryland	82	0	0	0	82	51	0	0	0	51
Towson U.	780	77	306	115	282	743	77	269	115	282
U. Baltimore	877	201	0	0	676	877	201	0	0	676
U. Maryland ^a	102,674	36,165	8,907	34,420	23,182	85,727	33,371	8,127	21,206	23,023
U. Maryland Center for Environmental Science	3,558	1,608	23	971	956	2,615	1,539	23	187	866

TABLE 76

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
U. Maryland, Baltimore County	30,142	22,509	614	716	6,303	30,079	22,446	614	716	6,303
U. Maryland, Eastern Shore	1,119	1,119	0	0	0	1,119	1,119	0	0	0
U.S. Naval Academy	334	56	0	278	0	278	0	0	278	0
Uniformed Services U. of the Health Sciences	0	0	0	0	0	0	0	0	0	0
Private										
Johns Hopkins U. ^b	169,726	80,668	28,616	47,815	12,627	139,034	70,774	21,426	36,557	10,277
Massachusetts										
Public										
Framingham State U.	0	0	0	0	0	0	0	0	0	0
U. Massachusetts, Amherst	30,306	14,101	4,775	4,999	6,431	27,590	12,860	3,716	4,620	6,394
U. Massachusetts, Boston	6,843	2,732	280	2,635	1,196	5,295	2,471	250	1,393	1,181
U. Massachusetts, Dartmouth	3,168	838	717	1,201	412	3,025	792	620	1,201	412
U. Massachusetts, Lowell	16,672 i	9,597 i	2,450 i	3,641 i	984 i	15,901	9,333	2,321	3,510	737
U. Massachusetts, Medical School	33,403	19,394	2,007	11,862	140	28,198	17,031	1,747	9,280	140
Private										
Amherst C.	215	215	0	0	0	208	208	0	0	0
Babson C.	13 i	13 i	0 i	0 i	0 i	2	2	0	0	0
Bentley U.	120	120	0	0	0	120	120	0	0	0
Boston C.	6,933	3,678	1,192	1,482	581	5,191	2,909	1,192	1,061	29
Boston U.	75,000	39,301	5,741	22,711	7,247	65,495	34,212	5,630	18,825	6,828
Brandeis U.	6,033	3,823	193	845	1,172	5,023	3,410	0	510	1,103
Clark U.	715	334	94	203	84	460	332	0	128	0
Franklin W. Olin C. of Engineering	301	283	0	18	0	270	252	0	18	0
Harvard U.	135,858	56,837	8,253	27,606	43,162	108,546	49,147	4,239	19,803	35,357
Massachusetts Institute of Technology	143,311	80,350	23,748	33,720	5,493	120,517	66,589	23,057	28,106	2,765
Merrimack C.	130	30	0	100	0	30	30	0	0	0
MGH Institute of Health Professions	795	795	0	0	0	795	795	0	0	0
Mount Holyoke C.	480	480	0	0	0	480	480	0	0	0
New England C. of Optometry	81	81	0	0	0	78	78	0	0	0
Northeastern U.	38,539	18,133	4,036	13,431	2,939	35,669	16,448	3,949	13,023	2,249
Smith C.	790	359	27	404	0	509	326	0	183	0
Suffolk U.	74	74	0	0	0	74	74	0	0	0
Tufts U.	19,608	94	19	1,388	18,107	18,107	94	0	0	18,013

TABLE 76

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Wellesley C.	415	352	1	61	1	411	351	0	60	0
Western New England U.	427	427	0	0	0	154	154	0	0	0
Williams C.	136	136	0	0	0	136	136	0	0	0
Woods Hole Oceanographic Institution	23,786	12,138	6,923	4,106	619	22,540	11,762	6,897	3,296	585
Worcester Polytechnic Institute	7,709	3,295	3,432	982	0	7,424	3,159	3,362	903	0
Michigan										
Public										
Central Michigan U.	1,636	1,456	0	78	102	1,507	1,327	0	78	102
Eastern Michigan U.	534	415	47	72	0	487	415	0	72	0
Ferris State U.	25	25	0	0	0	0	0	0	0	0
Grand Valley State U.	836	563	0	182	91	661	392	0	178	91
Lake Superior State U.	1,183	71	0	0	1,112	1,183	71	0	0	1,112
Michigan State U.	74,015	46,055	6,289	9,640	12,031	68,889	43,753	5,978	7,945	11,213
Michigan Technological U.	15,597	3,119	8,787	1,405	2,286	14,883	2,874	8,670	1,285	2,054
Northern Michigan U.	321	106	0	0	215	287	72	0	0	215
Oakland U.	3,029	1,739	96	0	1,194	2,889	1,642	96	0	1,151
Saginaw Valley State U.	141	3	0	12	126	141	3	0	12	126
U. Michigan, Ann Arbor	181,880	89,095	28,434	48,723	15,628	157,536	81,818	17,660	43,097	14,961
U. Michigan, Dearborn	752	172	345	216	19	562	64	294	204	0
Wayne State U.	15,552	9,716	1,739	2,512	1,585	14,351	9,670	1,432	1,997	1,252
Western Michigan U. and Homer Stryker M.D. School of Medicine	2,156	817	266	247	826	1,750	793	266	62	629
Private										
Albion C.	0	0	0	0	0	0	0	0	0	0
Andrews U.	257	228	0	29	0	257	228	0	29	0
Calvin U.	110	81	0	29	0	110	81	0	29	0
Hope C.	2,164	307	0	2	1,855	2,036	179	0	2	1,855
Lawrence Technological U.	79	0	70	0	9	79	0	70	0	9
U. Detroit Mercy	40	40	0	0	0	40	40	0	0	0
Van Andel Research Institute	6,431	3,797	2,032	569	33	3,911	1,399	1,943	569	0
Minnesota										
Public										
Minnesota State U., Mankato	500	245	66	65	124	445	225	57	56	107
St. Cloud State U.	198	177	0	0	21	87	87	0	0	0

TABLE 76

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Montana State U., Bozeman	11,736	7,215	1,361	2,204	956	9,475	6,107	1,090	1,762	516
Montana Technological U.	956	801	12	0	143	918	801	12	0	105
U. Montana, Missoula	19,674	7,914	1,859	2,001	7,900	19,674	7,914	1,859	2,001	7,900
Nebraska										
Public										
U. Nebraska, Kearney	1,580	878	0	13	689	1,031	848	0	13	170
U. Nebraska, Lincoln and Medical Center ^c	70,754	28,505	12,533	18,155	11,561	52,995	27,008	3,432	13,080	9,475
U. Nebraska, Omaha	3,593	3,020	94	246	233	3,374	2,887	93	214	180
Private										
Creighton U.	6,042	3,937	36	2,069	0	6,042	3,937	36	2,069	0
Nevada										
Public										
Desert Research Institute	4,650	3,636	527	334	153	3,954	3,240	243	330	141
Nevada State C.	1,134	1,134	0	0	0	1,101	1,101	0	0	0
U. Nevada, Las Vegas	11,157	3,281	2,130	2,400	3,346	9,557	2,807	1,781	1,903	3,066
U. Nevada, Reno	14,820	8,568	1,885	2,021	2,346	13,724	8,054	1,818	1,795	2,057
Private										
Roseman U. of Health Sciences	38	38	0	0	0	38	38	0	0	0
New Hampshire										
Public										
U. New Hampshire	39,618	25,326	1,383	6,525	6,384	38,539	24,362	1,383	6,525	6,269
Private										
Dartmouth C. and Dartmouth Hitchcock Medical Center	32,383	17,860	2,239	9,346	2,938	28,525	15,726	2,189	7,818	2,792
New Jersey										
Public										
C. New Jersey	231	124	0	107	0	221	114	0	107	0
Kean U.	523	517	0	6	0	523	517	0	6	0
Montclair State U.	1,408	674	0	631	103	698	473	0	170	55
New Jersey Institute of Technology	39,505	3,152	2,195	550	33,608	39,280	3,067	2,055	550	33,608
Rowan U.	2,511	1,111	1,217	0	183	2,405	1,111	1,217	0	77
Rutgers, State U. New Jersey, Camden	828	424	45	54	305	646	374	0	0	272
Rutgers, State U. New Jersey, New Brunswick	64,203	35,566	6,052	7,999	14,586	64,147	35,549	6,052	7,999	14,547
Rutgers, State U. New Jersey, Newark	1,878	821	667	119	271	1,504	718	574	4	208

TABLE 76

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Stockton U.	148	95	1	22	30	85	40	1	14	30
William Paterson U.	23	12	0	8	3	15	12	0	0	3
Private										
Monmouth U.	142	66	0	76	0	78	15	0	63	0
Princeton U.	44,282	33,499	4,023	502	6,258	37,988	28,175	3,756	400	5,657
Seton Hall U.	74	74	0	0	0	74	74	0	0	0
Stevens Institute of Technology	5,962	2,701	2,810	211	240	5,318	2,340	2,638	149	191
New Mexico										
Public										
New Mexico Highlands U.	165 i	165 i	0 i	0 i	0 i	165 i	165 i	0 i	0 i	0 i
New Mexico Institute of Mining and Technology	13,934	2,114	3,831	4,803	3,186	13,384	2,114	3,831	4,803	2,636
New Mexico State U.	19,653	8,229	8,619	780	2,025	18,375	7,401	8,619	780	1,575
U. New Mexico	52,636	18,315	16,128	5,100	13,093	51,343	17,795	16,087	4,935	12,526
New York										
Public										
CUNY, Advanced Science Research Center	1,816	1,085	423	292	16	1,489	1,085	112	292	0
CUNY, Baruch C.	337	171	143	23	0	178	111	67	0	0
CUNY, Brooklyn C.	56	56	0	0	0	56	56	0	0	0
CUNY, C. Staten Island	403	221	114	68	0	403	221	114	68	0
CUNY, City C.	5,891	4,059	101	1,226	505	5,517	3,896	101	1,015	505
CUNY, Graduate Center	1,075	869	59	140	7	914	774	0	140	0
CUNY, Graduate School of Public Health and Health Policy	4,323	2,745	497	1,006	75	3,707	2,745	497	390	75
CUNY, Hunter C.	3,884	3,571	3	267	43	3,293	3,167	3	123	0
CUNY, John Jay C. of Criminal Justice	933	749	0	157	27	798	693	0	105	0
CUNY, Lehman C.	507	439	25	43	0	371	371	0	0	0
CUNY, New York City C. of Technology	137	102	0	35	0	137	102	0	35	0
CUNY, Queens C.	332	286	11	6	29	318	272	11	6	29
CUNY, system office	18	0	18	0	0	0	0	0	0	0
CUNY, York C.	164	0	26	138	0	164	0	26	138	0
SUNY, Binghamton U.	7,398	1,956	1,576	115	3,751	6,936	1,884	1,220	115	3,717
SUNY, Buffalo State U.	859	831	0	4	24	835	831	0	4	0
SUNY, C. Brockport	159	101	0	0	58	58	0	0	0	58
SUNY, C. of Environmental Science and Forestry	2,920	1,520	61	568	771	1,821	1,169	61	565	26

TABLE 76

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
New School	900	857	0	0	43	678	641	0	0	37
New York Institute of Technology	946	946	0	0	0	946	946	0	0	0
New York Medical C.	1,876	1,426	450	0	0	1,876	1,426	450	0	0
New York U.	92,254	60,403	5,132	24,112	2,607	79,187	57,300	4,413	15,799	1,675
Pace U.	50	50	0	0	0	50	50	0	0	0
Pratt Institute	0	0	0	0	0	0	0	0	0	0
Rensselaer Polytechnic Institute	13,431	7,712	4,618	1,004	97	12,241	6,897	4,305	1,004	35
Rochester Institute of Technology	12,748	4,002	3,833	4,709	204	9,986	3,883	3,776	2,327	0
Rockefeller U.	18,907	9,376	13	9,518	0	18,430	9,376	13	9,041	0
Skidmore C.	50	50	0	0	0	50	50	0	0	0
St. John's U., New York	435	405	30	0	0	435	405	30	0	0
Syracuse U.	12,063	5,476	1,343	4,854	390	10,932	4,724	1,341	4,706	161
Teachers C., Columbia U.	4,902	2,071	0	1,873	958	3,197	1,824	0	1,093	280
Touro U., New York	16,631	146	16,485	0	0	16,631	146	16,485	0	0
U. Rochester	46,509	34,364	10,432	1,599	114	43,389	31,746	9,978	1,599	66
Union C., Schenectady	21	21	0	0	0	21	21	0	0	0
Vassar C.	111	81	0	0	30	76	76	0	0	0
Yeshiva U.	347	347	0	0	0	347	347	0	0	0
North Carolina										
Public										
Appalachian State U.	879	783	51	17	28	862	783	51	0	28
East Carolina U.	9,486	6,278	1,605	992	611	7,815	5,834	613	811	557
Elizabeth City State U.	451	451	0	0	0	58	58	0	0	0
Fayetteville State U.	541	541	0	0	0	0	0	0	0	0
North Carolina A&T State U.	8,436	4,544	339	1,823	1,730	8,436	4,544	339	1,823	1,730
North Carolina Central U.	2,279	918	181	594	586	965	755	0	53	157
North Carolina State U.	42,310	38,425	2,667	597	621	38,063	37,522	144	141	256
U. North Carolina, Asheville	1,318	773	27	463	55	920	773	27	120	0
U. North Carolina, Chapel Hill	204,619	112,118	15,419	28,624	48,458	179,758	98,173	12,285	21,672	47,628
U. North Carolina, Charlotte	10,234	4,663	3,256	1,323	992	9,337	3,954	3,161	1,295	927
U. North Carolina, Greensboro	9,699	4,515	479	1,566	3,139	7,509	3,920	175	602	2,812
U. North Carolina, Wilmington	3,936	1,458	1,373	48	1,057	2,774	1,069	1,026	48	631
Western Carolina U.	268	209	0	59	0	155	155	0	0	0

TABLE 76

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Winston-Salem State U.	375	241	0	29	105	310	241	0	21	48
Private										
Davidson C.	13	13	0	0	0	13	13	0	0	0
Duke U.	140,135	77,921	14,476	40,581	7,157	125,155	71,253	11,749	36,978	5,175
Elon U.	111	100	0	11	0	111	100	0	11	0
Johnson C. Smith U.	412	412	0	0	0	412	412	0	0	0
Wake Forest U.	59,324	41,423	1,856	14,377	1,668	54,271	37,488	1,840	13,275	1,668
North Dakota										
Public										
North Dakota State U.	12,921	4,620	724	2,053	5,524	12,338	4,402	664	2,052	5,220
U. North Dakota	27,228	4,675	13,056	1,921	7,576	18,221	4,675	4,360	1,760	7,426
Private										
United Tribes Technical C.	407	407	0	0	0	407	407	0	0	0
Ohio										
Public										
Air Force Institute of Technology	649	95	554	0	0	649	95	554	0	0
Bowling Green State U.	3,120	1,544	345	325	906	1,792	819	283	291	399
Central State U.	546	499	0	0	47	546	499	0	0	47
Cleveland State U.	8,332	5,674	381	1,422	855	7,486	5,390	352	905	839
Kent State U.	3,827	1,929	337	342	1,219	3,145	1,722	180	210	1,033
Miami U.	2,978	1,790	452	326	410	2,542	1,590	330	245	377
Northeast Ohio Medical U.	836	597	92	91	56	788	594	92	46	56
Ohio State U.	188,182	64,183	32,761	43,031	48,207	160,624	57,665	21,540	34,449	46,970
Ohio U.	5,487	2,440	1,336	185	1,526	4,342	2,217	665	109	1,351
U. Akron	5,124	2,226	1,686	723	489	4,759	2,000	1,579	722	458
U. Cincinnati	61,293	29,433	4,203	20,123	7,534	53,393	26,532	4,127	15,389	7,345
U. Toledo	10,528	4,624	2,694	1,510	1,700	8,715	3,147	2,451	1,417	1,700
Wright State U.	5,334	2,194	1,418	1,356	366	4,425	1,924	1,278	857	366
Youngstown State U.	2,192	1,196	105	891	0	2,087	1,196	0	891	0
Private										
C. Wooster	69	69	0	0	0	69	69	0	0	0
Case Western Reserve U.	69,804	50,576	6,101	7,580	5,547	62,591	45,331	5,868	6,624	4,768
Heidelberg U.	109	94	0	15	0	94	94	0	0	0

TABLE 76

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Kenyon C.	91	0	0	91	0	91	0	0	91	0
Oberlin C.	60	59	0	1	0	51	50	0	1	0
U. Dayton	20,457	1,985	12,053	2,990	3,429	18,789	1,129	11,836	2,395	3,429
Oklahoma										
Public										
Langston U.	254	248	0	6	0	254	248	0	6	0
Oklahoma State U., Center for Health Sciences	866	563	0	0	303	866	563	0	0	303
Oklahoma State U., Stillwater	17,092	6,696	3,966	643	5,787	16,516	6,510	3,912	643	5,451
U. Central Oklahoma	929	547	0	33	349	864	515	0	0	349
U. Oklahoma, Norman and Health Science Center	40,719	18,474	7,222	7,933	7,090	36,711	17,752	4,314	7,726	6,919
U. Oklahoma, Tulsa	1,308	743	5	486	74	1,019	721	5	233	60
Private										
U. Tulsa	1,141	447	220	96	378	1,040	400	220	95	325
Oregon										
Public										
Oregon Health and Science U.	60,440	29,829	16,239	1,920	12,452	54,894	27,998	15,009	1,121	10,766
Oregon Institute of Technology	106	106	0	0	0	106	106	0	0	0
Oregon State U.	57,911	23,773	3,933	15,079	15,126	54,688	22,634	3,628	14,325	14,101
Portland State U.	6,521	3,887	653	958	1,023	5,591	3,398	494	840	859
U. Oregon	20,590	10,936	2,706	4,088	2,860	17,843	10,578	2,493	1,948	2,824
Private										
Lewis and Clark C.	0	0	0	0	0	0	0	0	0	0
National U. of Natural Medicine	53	48	0	5	0	53	48	0	5	0
Pacific U.	1,015	962	0	53	0	1,015	962	0	53	0
Reed C.	399	236	0	0	163	399	236	0	0	163
Willamette U.	17	17	0	0	0	17	17	0	0	0
Pennsylvania										
Public										
East Stroudsburg U. Pennsylvania	52	0	0	52	0	0	0	0	0	0
Indiana U. Pennsylvania	1,133	179	0	954	0	1,018	179	0	839	0
Lincoln U.	95	95	0	0	0	95	95	0	0	0
Pennsylvania State U., Altoona	277	277	0	0	0	271	271	0	0	0
Pennsylvania State U., Behrend	365	270	88	0	7	331	236	88	0	7

TABLE 76

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Brown U.	34,128	19,986	1,251	9,957	2,934	31,328	18,450	1,145	9,224	2,509
Bryant U.	433	433	0	0	0	433	433	0	0	0
Providence C.	1,153	1,048	0	105	0	1,153	1,048	0	105	0
Roger Williams U.	1,054	909	65	39	41	923	785	65	32	41
South Carolina										
Public										
C. Charleston	1,261	694	106	15	446	1,216	670	106	0	440
Citadel Military C. South Carolina	1,228	1,228	0	0	0	1,191	1,191	0	0	0
Clemson U.	35,122 i	15,324 i	5,223 i	5,142 i	9,433 i	32,961	14,537 i	4,806 i	4,710 i	8,908 i
Coastal Carolina U.	1,359	719	392	90	158	1,309	689	392	90	138
Medical U. South Carolina	28,591 i	18,336 i	6,495 i	3,442 i	318 i	24,257 i	17,702 i	4,293 i	1,944 i	318 i
South Carolina State U.	1,472	680 i	0 i	397 i	395 i	1,470	678	0	397	395
U. South Carolina, Aiken	239	55	0	184	0	233	49	0	184	0
U. South Carolina, Beaufort	177	102	0	75	0	177	102	0	75	0
U. South Carolina, Columbia	22,497	10,329	4,633	4,261	3,274	20,206	9,893	4,633	2,506	3,174
Winthrop U.	706	297	0	0	409	706	297	0	0	409
Private										
Benedict C.	1,249	636	613	0	0	629	629	0	0	0
Clafin U.	1,025	236	0	0	789	1,025	236	0	0	789
Furman U.	907	504	128	253	22	551	357	0	172	22
South Dakota										
Public										
Black Hills State U.	1,408	1,188	0	0	220	1,408	1,188	0	0	220
Dakota State U.	309	309	0	0	0	122	122	0	0	0
South Dakota School of Mines and Technology	4,233	2,040	1,417	631	145	4,192	1,999	1,417	631	145
South Dakota State U.	8,678	3,380	839	523	3,936	6,484	2,538	757	268	2,921
U. South Dakota	3,541	1,894	384	316	947	3,329	1,745	369	268	947
Tennessee										
Public										
Austin Peay State U.	50	11	0	0	39	50	11	0	0	39
East Tennessee State U.	1,075	950	76	49	0	950	950	0	0	0
Middle Tennessee State U.	886	451	0	205	230	883	448	0	205	230
Tennessee State U.	1,254	929	10	43	272	1,198	929	10	43	216

TABLE 76

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

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	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Tennessee Technological U.	5,480	897	332	1,034	3,217	4,370	897	212	918	2,343
U. Memphis	10,604	2,968	1,813	2,281	3,542	8,896	2,878	1,775	786	3,457
U. Tennessee, Chattanooga	1,720	1,182	71	85	382	1,469	1,135	0	0	334
U. Tennessee, Health Science Center	9,127	7,096	392	855	784	8,301	6,814	260	714	513
U. Tennessee, Knoxville	29,156	18,344	3,445	2,603	4,764	26,603	17,471	3,070	2,179	3,883
Private										
Fisk U.	1,150	804	346	0	0	1,110	803	307	0	0
Lincoln Memorial U.	0	0	0	0	0	0	0	0	0	0
Lipscomb U.	68	68	0	0	0	59	59	0	0	0
Meharry Medical C.	6,693	4,410	2,038	245	0	6,693	4,410	2,038	245	0
Vanderbilt U. and Vanderbilt U. Medical Center	130,043	71,577	16,083	36,540	5,843	118,809	64,199	14,287	34,583	5,740
Texas										
Public										
Lamar U.	270	53	105	35	77	244	50	105	35	54
Prairie View A&M U.	1,741	978	187	87	489	1,485	888	187	87	323
Sam Houston State U.	589	589	0	0	0	505	505	0	0	0
Stephen F. Austin State U.	393	393	0	0	0	5	5	0	0	0
Sul Ross State U.	494	36	0	0	458	380	36	0	0	344
Tarleton State U.	739	44	20	0	675	585	44	0	0	541
Texas A&M International U.	281	156	125	0	0	281	156	125	0	0
Texas A&M U., College Station and Health Science Center	136,923	50,354	18,866	30,639	37,064	124,167	45,713	17,310	28,494	32,650
Texas A&M U.-Commerce	147	139	0	8	0	147	139	0	8	0
Texas A&M U.-Corpus Christi	6,947	4,289	700	233	1,725	6,667	4,282	700	233	1,452
Texas A&M U.-Kingsville	2,093	983	64	419	627	1,580	470	64	419	627
Texas A&M U.-San Antonio	0	0	0	0	0	0	0	0	0	0
Texas Southern U.	2,605	812	117	367	1,309	2,605	812	117	367	1,309
Texas State U.	2,353	1,853	279	159	62	1,916	1,575	279	0	62
Texas Tech U.	23,380	5,311	4,077	1,490	12,502	20,878	4,456	3,662	1,063	11,697
Texas Tech U., Health Sciences Center	5,783	2,112	235	0	3,436	2,347	2,112	235	0	0
Texas Tech U., Health Sciences Center, El Paso	3,774	994	0	21	2,759	749	749	0	0	0
Texas Woman's U.	366	366	0	0	0	366	366	0	0	0
U. Houston	22,506	10,651	5,662	2,214	3,979	20,012	9,320	5,058	1,908	3,726
U. Houston-Clear Lake	484	306	112	60	6	477	299	112	60	6

TABLE 76

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
U. Houston-Downtown	32	32	0	0	0	32	32	0	0	0
U. North Texas, Denton	8,558	4,642	1,670	630	1,616	8,013	4,196	1,608	600	1,609
U. North Texas, Health Science Center	8,836	4,116	1,774	464	2,482	7,438	3,677	1,762	314	1,685
U. Texas Health Science Center, Houston	36,862	28,446	1,972	5,190	1,254	32,793	24,469	1,972	5,190	1,162
U. Texas Health Science Center, San Antonio	27,584	14,833	8,582	3,811	358	19,580	14,765	708	3,749	358
U. Texas Health Science Center, Tyler	0	0	0	0	0	0	0	0	0	0
U. Texas M. D. Anderson Cancer Center	51,404	30,365	8,566	12,238	235	42,215	27,272	4,160	10,557	226
U. Texas Medical Branch	40,822	13,424	14,427	7,846	5,125	35,577	13,288	14,427	7,846	16
U. Texas of the Permian Basin	370	370	0	0	0	119	119	0	0	0
U. Texas Rio Grande Valley	5,949	4,401	0	457	1,091	4,679	4,222	0	457	0
U. Texas Southwestern Medical Center	34,023	20,501	3,176	5,848	4,498	29,559	18,951	2,718	4,821	3,069
U. Texas, Arlington	15,997	9,636	2,229	1,164	2,968	15,472	9,240	2,136	1,128	2,968
U. Texas, Austin	224,749	57,538	35,686	65,907	65,618	128,865	48,627	8,008	17,577	54,653
U. Texas, Dallas	3,913	1,699	0	0	2,214	1,537	1,537	0	0	0
U. Texas, El Paso	20,167	6,631	1,947	10,301	1,288	19,693	6,526	1,947	10,019	1,201
U. Texas, San Antonio	9,032	6,854	3	2,167	8	8,269	6,354	0	1,915	0
U. Texas, Tyler	17	17	0	0	0	17	17	0	0	0
West Texas A&M U.	214	66	0	0	148	214	66	0	0	148
Private										
Abilene Christian U.	0	0	0	0	0	0	0	0	0	0
Baylor C. of Medicine	72,397	54,279	1,894	16,224	0	59,553	48,896	1,318	9,339	0
Baylor U.	4,642	3,260	885	285	212	3,197	1,817	885	283	212
Rice U.	30,098	17,068	3,707	3,677	5,646	28,790	15,931	3,707	3,506	5,646
Southern Methodist U.	3,559	2,982	428	32	117	2,977	2,631	314	32	0
St. Edward's U.	332	332	0	0	0	146	146	0	0	0
Texas Christian U.	1,333	885	25	423	0	1,194	746	25	423	0
Trinity U.	296	207	0	89	0	264	175	0	89	0
U. of the Incarnate Word	110	0	0	78	32	32	0	0	0	32
Utah										
Public										
U. Utah	70,299	40,179	12,439	8,770	8,911	70,141	40,169	12,374	8,687	8,911
Utah State U.	61,442	14,053	44,768	232	2,389	61,442	14,053	44,768	232	2,389
Utah Valley U.	122	20	0	102	0	122	20	0	102	0

TABLE 76

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Central Washington U.	759	251	363	145	0	677	180	363	134	0
Eastern Washington U.	441	225	3	3	210	327	117	0	0	210
Northwest Indian C.	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
U. Washington, Bothell	266	154	0	19	93	229	148	0	15	66
U. Washington, Seattle	269,227	95,575	26,976	120,684	25,992	242,625	87,428	25,432	107,127	22,638
U. Washington, Tacoma	2,707	471	200	75	1,961	2,356	284	200	75	1,797
Washington State U.	30,670	15,374	2,611	4,990	7,695	29,273	15,134	2,589	4,140	7,410
Western Washington U.	1,373	1,124	0	52	197	1,183	990	0	34	159
Private										
Seattle U.	181	181	0	0	0	98	98	0	0	0
U. Puget Sound	30	30	0	0	0	30	30	0	0	0
Whitman C.	62	62	0	0	0	62	62	0	0	0
West Virginia										
Public										
Marshall U.	5,586 i	1,826 i	91 i	178 i	3,491 i	5,195	1,723	0	53	3,419
West Virginia School of Osteopathic Medicine	499 i	499 i	0 i	0 i	0 i	488 i	488 i	0 i	0 i	0 i
West Virginia State U.	226	190	0	0	36	190	190	0	0	0
West Virginia U.	29,948 i	11,200 i	5,899 i	4,203 i	8,646 i	27,499	10,540	5,190	3,704	8,065
Wisconsin										
Public										
U. Wisconsin-Eau Claire	58	58	0	0	0	56	56	0	0	0
U. Wisconsin-Green Bay	60 i	2 i	19 i	15 i	24 i	55 i	2 i	18 i	13 i	22 i
U. Wisconsin-La Crosse	383	189	0	0	194	382	188	0	0	194
U. Wisconsin-Madison	137,463	74,029	11,764	22,950	28,720	122,277	68,075	8,601	17,056	28,545
U. Wisconsin-Milwaukee	5,278	3,249	463	775	791	4,814	2,972	404	688	750
U. Wisconsin-Oshkosh	540	495	0	45	0	495	450	0	45	0
U. Wisconsin-Platteville	59 i	36 i	4 i	6 i	13 i	50 i	31 i	3 i	5 i	11 i
U. Wisconsin-River Falls	196	129	0	0	67	131	80	0	0	51
U. Wisconsin-Stevens Point	508	237	0	32	239	446	217	0	7	222
U. Wisconsin-Superior	137	4	0	0	133	137	4	0	0	133
Private										
Marquette U.	3,084	2,304	216	266	298	2,693	2,080	216	156	241
Medical C. Wisconsin	25,451	10,978	2,815	9,120	2,538	22,846	10,080	2,815	7,436	2,515

TABLE 76

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Milwaukee School of Engineering	263	263	0	0	0	261	261	0	0	0
Northland C.	28 i	0 i	4 i	14 i	10 i	27 i	0 i	4 i	13 i	10 i
Wyoming										
Public										
U. Wyoming	11,805	4,959	861	414	5,571	10,763	4,959	493	51	5,260
Guam										
Public										
U. Guam	1,776	975	93	132	576	1,168	975	61	132	0
Puerto Rico										
Public										
U. Puerto Rico, Cayey	300	300	0	0	0	300	300	0	0	0
U. Puerto Rico, Humacao	292	292	0	0	0	292	292	0	0	0
U. Puerto Rico, Mayaguez	1,129	1,002	0	125	2	1,002	1,002	0	0	0
U. Puerto Rico, Medical Sciences Campus	10,111	9,224	0	887	0	10,111	9,224	0	887	0
U. Puerto Rico, Ponce	129	129	0	0	0	129	129	0	0	0
U. Puerto Rico, Rio Piedras	2,838	2,789	0	0	49	2,838	2,789	0	0	49
Private										
U. Ana G. Mendez, Gurabo	0	0	0	0	0	0	0	0	0	0
U. Central del Caribe	1,823	1,220	0	0	603	1,144	1,144	0	0	0
Virgin Islands										
Public										
U. of the Virgin Islands	4,070	838	48	74	3,110	2,938	838	0	0	2,100

i = imputed.

^a The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^b Johns Hopkins University includes the Applied Physics Laboratory, with zero in both total and federally financed R&D expenditures received as a subrecipient in FY 2023.

^c The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

Note(s):

This table includes only institutions reporting \$1 million or more in total R&D expenditures in 2022. Institutions reporting less than \$1 million in total R&D expenditures in 2022 completed a shorter version of the survey form in FY 2023, and that form only requested R&D expenditures received from higher education institutions. For a listing of R&D expenditures received from higher education institutions at institutions completing the shorter version of the survey, see [table 86](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 77

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
United States	9,514,892	5,187,467	1,711,781	1,724,170	891,474	8,205,341	4,657,136	1,379,718	1,442,979	725,508
Alabama										
Public										
Alabama A&M U.	615	565	50	0	0	615	565	50	0	0
Alabama State U.	401	401	0	0	0	401	401	0	0	0
Auburn U., Auburn	11,288	6,372 i	2,271 i	720 i	1,925 i	10,896	6,018 i	2,233 i	720 i	1,925 i
Troy U.	262	150	0	112	0	262	150	0	112	0
U. Alabama, Birmingham	71,988	44,505	14,802	11,531	1,150	67,401	43,724	14,021	8,510	1,146
U. Alabama, Huntsville	11,413	10,114	155	958	186	11,065	9,952	155	958	0
U. Alabama, Tuscaloosa	16,696	10,691	2,994	2,470	541	16,496	10,649	2,911	2,414	522
U. South Alabama	8,420	6,145	867	326	1,082	7,348	5,081	867	326	1,074
Private										
Tuskegee U.	735	608	127	0	0	735	608	127	0	0
Alaska										
Public										
U. Alaska, Anchorage	799	0	NA	NA	799 i	799	0	0 i	0 i	799 i
U. Alaska, Fairbanks	24,303	30	NA	21 i	24,252 i	24,303	30	0 i	21 i	24,252 i
U. Alaska, Southeast	0	0	0	0	0	0	0	0	0	0
Private										
Alaska Pacific U.	0	0	0	0	0	0	0	0	0	0
Arizona										
Public										
Arizona State U.	63,564	32,692	9,279	16,137	5,456	53,848	28,269	8,188	13,272	4,119
Dine C.	762	699	0	0	63	699	699	0	0	0
Northern Arizona U.	6,535	3,588	427	1,702	818	5,901	2,967	427	1,693	814
U. Arizona	73,221	31,486	26,858	12,556	2,321	70,817	29,634	26,522	12,340	2,321
Arkansas										
Public										
Arkansas State U., Jonesboro	372	372	0	0	0	367	367	0	0	0
U. Arkansas for Medical Sciences	12,293	10,246	487	1,460	100	11,798	9,851	484	1,363	100
U. Arkansas, Fayetteville	14,359	12,127	859	818	555	12,671	11,044	859	593	175
U. Arkansas, Little Rock	1,321	1,321	0	0	0	1,282	1,282	0	0	0
U. Arkansas, Pine Bluff	521	461	0	0	60	521	461	0	0	60

TABLE 77

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
U. Central Arkansas	191	41	57	0	93	191	41	57	0	93
California										
Public										
California Polytechnic State U., San Luis Obispo	1,292	776	0	304	212	857	381	0	301	175
California State Polytechnic U., Humboldt	829	198	372	94	165	100	0	55	45	0
California State Polytechnic U., Pomona	185	99	37	0	49	185	99	37	0	49
California State U., Bakersfield	72	72	0	0	0	72	72	0	0	0
California State U., Channel Islands	81	81	0	0	0	81	81	0	0	0
California State U., Chico	991	956	0	3	32	951	951	0	0	0
California State U., Dominguez Hills	312	214	0	0	98	214	214	0	0	0
California State U., East Bay	4,775	1,004	404	922	2,445	4,555	840	404	922	2,389
California State U., Fresno	428	302	126	0	0	311	251	60	0	0
California State U., Fullerton	729	282	395	52	0	668	282	386	0	0
California State U., Long Beach	1,621	903	22	524	172	1,212	853	15	172	172
California State U., Los Angeles	195	149	0	46	0	181	135	0	46	0
California State U., Monterey Bay	1,365	1,365	0	0	0	575	575	0	0	0
California State U., Northridge	976	804	56	116	0	911	763	32	116	0
California State U., Sacramento	6,076	49	3,581	2,416	30	2,860	29	415	2,416	0
California State U., San Bernardino	577	547	0	30	0	264	264	0	0	0
California State U., San Marcos	593	459	0	134	0	585	451	0	134	0
California State U., Stanislaus	28	28	0	0	0	16	16	0	0	0
Naval Postgraduate School	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
San Diego State U.	7,429	3,675	199	2,592	963	6,414	3,262	199	2,300	653
San Francisco State U.	1,233	1,063	2	116	52	1,032	949	0	51	32
San Jose State U.	3,528	3,112	0	133	283	1,118	1,111	0	0	7
Sonoma State U.	830	342	0	488	0	830	342	0	488	0
U. California, Berkeley	100,754	56,989	19,010	13,328	11,427	81,745	46,525	15,491	10,934	8,795
U. California, Davis	69,085	38,714	13,206	9,259	7,906	56,144	31,952	10,641	7,510	6,041
U. California, Irvine	37,809	32,002	2,024	3,442	341	31,070	26,411	1,551	3,108	0
U. California, Los Angeles	182,123	101,463	35,125	24,665	20,870	157,887	89,863	29,921	21,124	16,979
U. California, Merced	2,653	971	345	242	1,095	1,758	971	345	242	200
U. California, Office of the President	224	0	0	0	224	0	0	0	0	0
U. California, Riverside	14,755	13,876	365	514	0	11,846	11,074	258	514	0

TABLE 77

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Colorado School of Mines	10,422	6,948	3,012	329	133	9,636	6,239	3,010	254	133
Colorado State U., Fort Collins	27,668	18,794	3,471	1,893	3,510	22,887	15,675	2,991	1,820	2,401
Colorado State U., Pueblo	0	0	0	0	0	0	0	0	0	0
Fort Lewis C.	306	260	14	32	0	292	260	0	32	0
U. Colorado Anschutz Medical Campus	75,749	41,421	5,197	26,034	3,097	65,207	38,520	4,038	20,896	1,753
U. Colorado Boulder	75,022	42,147	24,074	5,064	3,737	67,420	38,674	21,235	4,329	3,182
U. Colorado Colorado Springs	860	604	138	73	45	815	604	138	73	0
U. Colorado Denver	987	500	266	221	0	920	500	199	221	0
U. Northern Colorado	285	285	0	0	0	282	282	0	0	0
U.S. Air Force Academy	0	0	0	0	0	0	0	0	0	0
Private										
Colorado C.	12	12	0	0	0	12	12	0	0	0
U. Denver	5,776	2,262	1,027	2,375	112	4,757	2,007	532	2,106	112
Connecticut										
Public										
Central Connecticut State U.	0	0	0	0	0	0	0	0	0	0
Eastern Connecticut State U.	0	0	0	0	0	0	0	0	0	0
Southern Connecticut State U.	148	48	0	100	0	148	48	0	100	0
U. Connecticut	35,205	24,368	1,684	8,014	1,139	33,684	23,463	1,596	7,656	969
U.S. Coast Guard Academy	0	0	0	0	0	0	0	0	0	0
Private										
Connecticut C.	91	91	0	0	0	91	91	0	0	0
Fairfield U.	0	0	0	0	0	0	0	0	0	0
Hartford International U. for Religion and Peace	0	0	0	0	0	0	0	0	0	0
Sacred Heart U.	0	0	0	0	0	0	0	0	0	0
Trinity C., Hartford	201	201	0	0	0	201	201	0	0	0
U. Hartford	339	242	2	95	0	312	227	2	83	0
U. New Haven	376	103	0	273	0	376	103	0	273	0
Wesleyan U.	114	114	0	0	0	114	114	0	0	0
Yale U.	94,742	51,139	2,964	33,362	7,277	87,124	47,707	2,721	30,673	6,023
Delaware										
Public										
Delaware State U.	2,378	2,359	0	8	11	2,378	2,359	0	8	11

TABLE 77

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Albany State U.	80	23	36	0	21	0	0	0	0	0
Augusta U.	5,696	4,176	21	1,499	0	5,438	4,075	21	1,342	0
Fort Valley State U.	53	53	0	0	0	53	53	0	0	0
Georgia Institute of Technology	232,687	39,474	186,860	2,661	3,692	222,212	35,757	182,551	1,902	2,002
Georgia Southern U.	124	116	0	8	0	80	72	0	8	0
Georgia State U.	13,035	5,679	288	4,554	2,514	11,534	5,659	42	3,734	2,099
Kennesaw State U.	0	0	0	0	0	0	0	0	0	0
Savannah State U.	108	108	0	0	0	108	108	0	0	0
U. Georgia	38,861	26,611	1,031	9,250	1,969	37,317	25,704	584	9,216	1,813
U. North Georgia	0	0	0	0	0	0	0	0	0	0
Private										
Clark Atlanta U.	896	896	0	0	0	896	896	0	0	0
Emory U.	154,670	58,615	25,780	54,950	15,325	121,566	53,898	13,066	45,425	9,177
Mercer U.	2,085	27	1,738	320	0	2,080	27	1,733	320	0
Morehouse C.	966	966	0	0	0	966	966	0	0	0
Morehouse School of Medicine	6,357	4,315	0	2,042	0	5,735	3,932	0	1,803	0
Spelman C.	83	83	0	0	0	83	83	0	0	0
Hawaii										
Public										
U. Hawaii, Hilo	192	11	61	67	53	192	11	61	67	53
U. Hawaii, Manoa	16,070	6,517	4,332	4,055	1,166	14,411	6,315	3,831	3,653	612
U. Hawaii, Maui C.	227	0	58	169	0	227	0	58	169	0
U. Hawaii, system office	3,156	3,125	31	0	0	3,156	3,125	31	0	0
Private										
Hawaii Pacific U.	40	40	0	0	0	40	40	0	0	0
Idaho										
Public										
Boise State U.	2,688	2,502	0	71	115	2,523	2,348	0	71	104
Idaho State U.	395	374	0	0	21	395	374	0	0	21
U. Idaho	9,416	8,853	46	192	325	8,766	8,203	46	192	325
Illinois										
Public										
Chicago State U.	239	239	0	0	0	239	239	0	0	0

TABLE 77

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Illinois State U.	4,083	1,981	161	1,262	679	3,168	1,227	0	1,262	679
Northeastern Illinois U.	238	146	0	92	0	238	146	0	92	0
Northern Illinois U.	338	122	60	0	156	331	115	60	0	156
Southern Illinois U., Carbondale	1,320	1,304	0	0	16	665	651	0	0	14
Southern Illinois U., Edwardsville	400	0	4	34	362	267	0	0	7	260
U. Illinois, Chicago	29,498	20,576	1,058	3,632	4,232	23,013	17,003	665	3,024	2,321
U. Illinois, Springfield	67	0	0	0	67	63	0	0	0	63
U. Illinois, Urbana-Champaign	90,849	59,851	17,558	8,551	4,889	82,794	57,438	17,425	5,524	2,407
Western Illinois U.	2,021	1,579	248	11	183	2,021	1,579	248	11	183
Private										
DePaul U.	1,928	829	410	566	123	1,307	233	408	543	123
Erikson Institute	0	0	0	0	0	0	0	0	0	0
Illinois Institute of Technology	4,100	2,745	723	632	0	4,062	2,707	723	632	0
Loyola U., Chicago	3,621	2,676	150	227	568	3,311	2,472	135	227	477
Midwestern U.	281	213	0	53	15	281	213	0	53	15
Northwestern U.	106,606	590	203	105,813	0	100,022	561	0	99,461	0
Rosalind Franklin U. of Medicine and Science	763	423	340	0	0	713	373	340	0	0
Rush U.	22,334	13,972	0	7,351	1,011	20,188	12,629	0	6,643	916
Toyota Technological Institute, Chicago	134	134	0	0	0	134	134	0	0	0
U. Chicago	78,395	44,698	858	27,719	5,120	73,406	43,446	640	26,090	3,230
Wheaton C., Wheaton	154	154	0	0	0	134	134	0	0	0
Indiana										
Public										
Ball State U.	2,670	2,612	0	58	0	2,664	2,612	0	52	0
Indiana State U.	87	87	0	0	0	87	87	0	0	0
Indiana U., Bloomington	80,260	44,332	4,364	23,657	7,907	73,788	40,317	4,143	22,135	7,193
Indiana U., South Bend	38	38	0	0	0	38	38	0	0	0
Indiana U.-Purdue U., Indianapolis	2,858	1,138	19	1,323	378	1,865	784	19	1,018	44
Purdue U., Fort Wayne	0	0	0	0	0	0	0	0	0	0
Purdue U., Northwest	49	0	0	0	49	49	0	0	0	49
Purdue U., West Lafayette	60,389	43,385	6,541	3,899	6,564	53,179	37,677	5,730	3,734	6,038
Private										
Butler U.	90	90	0	0	0	90	90	0	0	0

TABLE 77

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Marian U., Indianapolis	58	58	0	0	0	46	46	0	0	0
U. Notre Dame	38,217	22,923	2,475	6,902	5,917	27,728	19,616	1,394	3,618	3,100
Iowa										
Public										
Iowa State U.	23,651	16,797	5,042	1,095	717	20,604	15,146	4,148	791	519
U. Iowa	61,308	58,243	0	0	3,065	59,059	56,106	0	0	2,953
U. Northern Iowa	283	275	0	8	0	276	268	0	8	0
Private										
Des Moines U.	57	41	0	0	16	41	41	0	0	0
Drake U.	44	0	0	44	0	0	0	0	0	0
Grinnell C.	0	0	0	0	0	0	0	0	0	0
Palmer C. of Chiropractic, Davenport	600	600	0	0	0	600	600	0	0	0
Kansas										
Public										
Kansas State U.	10,194	8,004	166	479	1,545	9,268	7,652	87	164	1,365
Pittsburg State U.	0	0	0	0	0	0	0	0	0	0
U. Kansas	20,766	15,270	1,798	1,797	1,901	18,718	14,262	975	1,777	1,704
Wichita State U.	31,664	8,054	23,344	266	0	26,487	2,877	23,344	266	0
Kentucky										
Public										
Eastern Kentucky U.	51	51	0	0	0	51	51	0	0	0
Kentucky State U.	178	178	0	0	0	178	178	0	0	0
Morehead State U.	29	29	0	0	0	29	29	0	0	0
Murray State U.	42	42	0	0	0	42	42	0	0	0
Northern Kentucky U.	131	15	0	116	0	122	14	0	108	0
U. Kentucky	26,538	18,447	4,111	2,437	1,543	23,386	16,537	2,970	2,341	1,538
U. Louisville	8,246	5,133	1,236	1,156	721	7,975	5,000	1,178	1,108	689
Western Kentucky U.	138	138	0	0	0	118	118	0	0	0
Louisiana										
Public										
Grambling State U.	58	58	0	0	0	58	58	0	0	0
Louisiana State U., Baton Rouge	19,260	15,589	1,360	2,129	182	17,791	14,393	1,243	1,994	161
Louisiana State U., Health Sciences Center, New Orleans	5,791	2,991	127	1,859	814	5,517	2,922	0	1,793	802

TABLE 77

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Louisiana State U., Health Sciences Center, Shreveport	635	635	0	0	0	403	403	0	0	0
Louisiana Tech U.	112	112	0	0	0	106	106	0	0	0
Northwestern State U. Louisiana	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Southeastern Louisiana U.	3	3	0	0	0	3	3	0	0	0
Southern U. and A&M C., Agricultural Research and Extension Center	375	375	0	0	0	375	375	0	0	0
Southern U. and A&M C., Baton Rouge	151	0	148	0	3	151	0	148	0	3
Southern U., New Orleans	0	0	0	0	0	0	0	0	0	0
U. Louisiana, Lafayette	6,411	4,528	1,883	0	0	6,116	4,233	1,883	0	0
U. Louisiana, Monroe	53	0	0	53	0	53	0	0	53	0
U. New Orleans	684	99	100	170	315	684	99	100	170	315
Private										
Dillard U.	0	0	0	0	0	0	0	0	0	0
Tulane U.	18,529	9,259	3,454	3,946	1,870	14,523	8,386	2,089	2,953	1,095
Xavier U. Louisiana	657	322	0	335	0	322	322	0	0	0
Maine										
Public										
U. Maine	4,695	3,424	402	798	71	4,400	3,327	402	600	71
U. Southern Maine	38	0	16	22	0	38	0	16	22	0
Private										
Bates C.	260	241	0	16	3	200	200	0	0	0
Bowdoin C.	152	17	0	135	0	152	17	0	135	0
Colby C.	1,095	559	0	536	0	1,095	559	0	536	0
U. New England	402	38	0	364	0	366	38	0	328	0
Maryland										
Public										
Bowie State U.	0	0	0	0	0	0	0	0	0	0
Morgan State U.	2,106	1,543	563	0	0	2,056	1,493	563	0	0
Salisbury U.	1,306	128	877	62	239	397	96	0	62	239
St. Mary's C. Maryland	0	0	0	0	0	0	0	0	0	0
Towson U.	712	551	132	0	29	394	365	25	0	4
U. Baltimore	1,277	365	0	750	162	1,180	327	0	691	162
U. Maryland ^a	141,903	101,867	18,468	6,684	14,884	122,070	90,748	12,881	5,968	12,473
U. Maryland Center for Environmental Science	3,570	2,898	231	5	436	2,785	2,357	231	5	192

TABLE 77

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
U. Maryland, Baltimore County	12,904	11,556	603	681	64	12,100	10,880	475	681	64
U. Maryland, Eastern Shore	3,103	3,089	14	0	0	3,103	3,089	14	0	0
U.S. Naval Academy	0	0	0	0	0	0	0	0	0	0
Uniformed Services U. of the Health Sciences	0	0	0	0	0	0	0	0	0	0
Private										
Johns Hopkins U. ^b	226,661	101,222	18,665	91,380	15,394	184,216	90,139	17,671	64,161	12,245
Massachusetts										
Public										
Framingham State U.	0	0	0	0	0	0	0	0	0	0
U. Massachusetts, Amherst	16,137	9,585	947	4,818	787	11,455	7,765	582	2,562	546
U. Massachusetts, Boston	6,340	3,415	576	2,218	131	3,102	1,810	215	946	131
U. Massachusetts, Dartmouth	1,125	399	331	388	7	818	357	154	300	7
U. Massachusetts, Lowell	8,708	3,858	1,889	2,950	11	6,728	3,180	987	2,550	11
U. Massachusetts, Medical School	31,027	18,078	3,769	9,037	143	29,205	17,726	3,707	7,629	143
Private										
Amherst C.	317	317	0	0	0	309	309	0	0	0
Babson C.	NA	NA	NA	NA	NA	0	0	0	0	0
Bentley U.	258	243	0	0	15	253	243	0	0	10
Boston C.	6,505	2,245	25	1,873	2,362	4,116	2,151	0	1,352	613
Boston U.	140,472	45,993	68,962	24,941	576	74,038	37,983	14,621	20,927	507
Brandeis U.	5,726	3,549	165	1,190	822	4,737	3,396	165	911	265
Clark U.	268	235	33	0	0	232	199	33	0	0
Franklin W. Olin C. of Engineering	109	23	0	86	0	23	23	0	0	0
Harvard U.	167,605	59,948	4,330	34,498	68,829	130,094	48,109	4,168	27,297	50,520
Massachusetts Institute of Technology	88,095	35,355	21,653	12,850	18,237	64,430	27,211	17,185	8,815	11,219
Merrimack C.	304	304	0	0	0	304	304	0	0	0
MGH Institute of Health Professions	625	625	0	0	0	625	625	0	0	0
Mount Holyoke C.	0	0	0	0	0	0	0	0	0	0
New England C. of Optometry	196	196	0	0	0	196	196	0	0	0
Northeastern U.	42,570	23,726	4,757	13,573	514	41,159	22,813	4,722	13,145	479
Smith C.	171	171	0	0	0	171	171	0	0	0
Suffolk U.	412	21	0	391	0	73	21	0	52	0
Tufts U.	32,836	101	369	1,255	31,111	28,713	0	0	0	28,713

TABLE 77

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Wellesley C.	228	228	0	0	0	228	228	0	0	0
Western New England U.	31	4	0	27	0	31	4	0	27	0
Williams C.	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Woods Hole Oceanographic Institution	38,119	31,207	1,673	3,105	2,134	36,654	29,983	1,634	2,903	2,134
Worcester Polytechnic Institute	8,343	3,638	1,195	2,289	1,221	8,055	3,350	1,195	2,289	1,221
Michigan										
Public										
Central Michigan U.	3,191	3,077	0	8	106	3,177	3,063	0	8	106
Eastern Michigan U.	789	737	0	52	0	755	715	0	40	0
Ferris State U.	0	0	0	0	0	0	0	0	0	0
Grand Valley State U.	65	65	0	0	0	64	64	0	0	0
Lake Superior State U.	69	25	0	0	44	25	25	0	0	0
Michigan State U.	51,565	27,583	3,494	11,429	9,059	47,700	25,437	3,387	10,640	8,236
Michigan Technological U.	8,219	4,760	2,806	270	383	7,918	4,711	2,787	269	151
Northern Michigan U.	55	55	0	0	0	55	55	0	0	0
Oakland U.	1,017	254	564	199	0	741	164	564	13	0
Saginaw Valley State U.	690 i	0 i	176 i	0 i	514 i	690 i	0 i	176 i	0 i	514 i
U. Michigan, Ann Arbor	130,747	90,063	13,038	17,224	10,422	118,342	84,051	11,270	16,340	6,681
U. Michigan, Dearborn	397	21	244	0	132	265	21	244	0	0
Wayne State U.	13,923	10,983	78	2,862	0	13,608	10,849	75	2,684	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	1,874	735	916	2	221	1,854	715	916	2	221
Private										
Albion C.	0	0	0	0	0	0	0	0	0	0
Andrews U.	43	43	0	0	0	43	43	0	0	0
Calvin U.	142	123	0	0	19	0	0	0	0	0
Hope C.	0	0	0	0	0	0	0	0	0	0
Lawrence Technological U.	0	0	0	0	0	0	0	0	0	0
U. Detroit Mercy	582	582	0	0	0	582	582	0	0	0
Van Andel Research Institute	2,090	871	42	1,047	130	1,849	760	42	1,047	0
Minnesota										
Public										
Minnesota State U., Mankato	467 i	253 i	92 i	63 i	59 i	414 i	228 i	78 i	57 i	51 i
St. Cloud State U.	130	24	0	0	106	50	24	0	0	26

TABLE 77

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Montana State U., Bozeman	24,409	17,043	2,434	2,533	2,399	23,928	16,915	2,416	2,522	2,075
Montana Technological U.	517	475	0	10	32	496	454	0	10	32
U. Montana, Missoula	10,840	7,327	2,959	322	232	10,655	7,273	2,836	322	224
Nebraska										
Public										
U. Nebraska, Kearney	492	355	136	0	1	492	355	136	0	1
U. Nebraska, Lincoln and Medical Center ^c	41,411	27,636	10,233	2,332	1,210	39,635	26,823	9,871	2,051	890
U. Nebraska, Omaha	7,833	4,364	814	2,564	91	7,723	4,254	814	2,564	91
Private										
Creighton U.	1,314 i	882 i	194 i	238 i	0 i	1,314 i	882 i	194 i	238 i	0 i
Nevada										
Public										
Desert Research Institute	1,867	1,070	222	78	497	1,813	1,044	222	78	469
Nevada State C.	38	33	0	5	0	38	33	0	5	0
U. Nevada, Las Vegas	5,953	5,495	229	130	99	5,485	5,254	29	103	99
U. Nevada, Reno	7,597	6,283	831	289	194	7,456	6,219	754	289	194
Private										
Roseman U. of Health Sciences	0	0	0	0	0	0	0	0	0	0
New Hampshire										
Public										
U. New Hampshire	55,389	7,952	38,605	8,746	86	54,283	7,616	37,939	8,662	66
Private										
Dartmouth C. and Dartmouth Hitchcock Medical Center	28,380	19,158	2,361	6,861	0	23,258	16,981	1,583	4,694	0
New Jersey										
Public										
C. New Jersey	124	39	0	70	15	85	0	0	70	15
Kean U.	0	0	0	0	0	0	0	0	0	0
Montclair State U.	746	595	34	117	0	442	442	0	0	0
New Jersey Institute of Technology	18,639	3,125	5,387	5,348	4,779	18,213	2,878	5,214	5,342	4,779
Rowan U.	2,314	1,461	853	0	0	1,399	1,266	133	0	0
Rutgers, State U. New Jersey, Camden	1,833	0	28	1,573	232	295	0	0	243	52
Rutgers, State U. New Jersey, New Brunswick	72,255	19,596	6,342	6,551	39,766	62,836	14,462	5,840	5,462	37,072
Rutgers, State U. New Jersey, Newark	1,628	346	47	0	1,235	1,398	252	47	0	1,099

TABLE 77

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Stockton U.	339	40	299	0	0	17	17	0	0	0
William Paterson U.	9	0	0	9	0	0	0	0	0	0
Private										
Monmouth U.	442	15	0	427	0	0	0	0	0	0
Princeton U.	37,291	29,345	4,528	306	3,112	30,408	22,984	4,307	194	2,923
Seton Hall U.	90	90	0	0	0	90	90	0	0	0
Stevens Institute of Technology	12,859	12,072	268	34	485	12,760	12,017	268	31	444
New Mexico										
Public										
New Mexico Highlands U.	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
New Mexico Institute of Mining and Technology	5,759	3,133	1,476	0	1,150	5,608	3,020	1,438	0	1,150
New Mexico State U.	8,595	3,436	4,047	669	443	8,593	3,434	4,047	669	443
U. New Mexico	30,601	15,801	3,277	7,962	3,561	26,655	15,319	3,175	6,923	1,238
New York										
Public										
CUNY, Advanced Science Research Center	2,980	2,799	0	134	47	2,819	2,638	0	134	47
CUNY, Baruch C.	152	30	0	122	0	20	20	0	0	0
CUNY, Brooklyn C.	1,224	1,211	0	13	0	714	714	0	0	0
CUNY, C. Staten Island	262	110	0	152	0	262	110	0	152	0
CUNY, City C.	6,041	3,537	2,023	478	3	3,861	3,415	45	398	3
CUNY, Graduate Center	498	0	0	498	0	0	0	0	0	0
CUNY, Graduate School of Public Health and Health Policy	9,530	1,427	7,441	283	379	2,329	1,414	253	283	379
CUNY, Hunter C.	2,471	914	319	1,223	15	2,254	826	190	1,223	15
CUNY, John Jay C. of Criminal Justice	3,455	1,481	1,337	548	89	2,498	883	1,267	259	89
CUNY, Lehman C.	53	53	0	0	0	53	53	0	0	0
CUNY, New York City C. of Technology	31	31	0	0	0	31	31	0	0	0
CUNY, Queens C.	2,393	1,117	942	310	24	2,383	1,107	942	310	24
CUNY, system office	1,192	1,165	0	27	0	1,192	1,165	0	27	0
CUNY, York C.	8	8	0	0	0	8	8	0	0	0
SUNY, Binghamton U.	7,275	1,702	4,115	777	681	5,497	1,702	2,616	745	434
SUNY, Buffalo State U.	137	137	0	0	0	137	137	0	0	0
SUNY, C. Brockport	39	39	0	0	0	1	1	0	0	0
SUNY, C. of Environmental Science and Forestry	862	563	105	160	34	530	311	41	160	18

TABLE 77

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
New School	1,517	550	25	942	0	13	13	0	0	0
New York Institute of Technology	217	217	0	0	0	217	217	0	0	0
New York Medical C.	691	691	0	0	0	691	691	0	0	0
New York U.	249,578	210,338	2,560	28,476	8,204	235,004	203,783	1,247	22,735	7,239
Pace U.	759	280	0	479	0	759	280	0	479	0
Pratt Institute	0	0	0	0	0	0	0	0	0	0
Rensselaer Polytechnic Institute	7,871	5,169	1,139	1,107	456	7,515	4,934	1,018	1,107	456
Rochester Institute of Technology	2,731	1,990	304	424	13	2,132	1,561	304	267	0
Rockefeller U.	16,946	9,046	60	5,265	2,575	9,526	5,880	0	3,092	554
Skidmore C.	74	19	20	35	0	55	0	20	35	0
St. John's U., New York	26	26	0	0	0	0	0	0	0	0
Syracuse U.	11,486	4,249	5,257	1,965	15	5,713	3,707	645	1,346	15
Teachers C., Columbia U.	4,545	3,334	0	1,146	65	1,712	796	0	851	65
Touro U., New York	483	0	483	0	0	0	0	0	0	0
U. Rochester	36,911	24,396	1,090	6,673	4,752	34,550	23,277	1,080	6,000	4,193
Union C., Schenectady	0	0	0	0	0	0	0	0	0	0
Vassar C.	0	0	0	0	0	0	0	0	0	0
Yeshiva U.	0	0	0	0	0	0	0	0	0	0
North Carolina										
Public										
Appalachian State U.	398	52	0	116	230	125	52	0	73	0
East Carolina U.	3,923	2,950	478	387	108	3,688	2,812	478	316	82
Elizabeth City State U.	0	0	0	0	0	0	0	0	0	0
Fayetteville State U.	0	0	0	0	0	0	0	0	0	0
North Carolina A&T State U.	5,382	4,990	346	0	46	5,262	4,870	346	0	46
North Carolina Central U.	1,596	793	66	737	0	1,596	793	66	737	0
North Carolina State U.	50,571	110	22,066	15,532	12,863	45,457	110	19,947	14,082	11,318
U. North Carolina, Asheville	1,016	63	0	953	0	311	4	0	307	0
U. North Carolina, Chapel Hill	218,559	113,537	48,964	41,449	14,609	181,038	89,690	44,455	37,993	8,900
U. North Carolina, Charlotte	4,154	3,738	274	90	52	3,933	3,560	274	47	52
U. North Carolina, Greensboro	2,166	762	820	334	250	2,088	704	812	322	250
U. North Carolina, Wilmington	1,271	840	85	299	47	560	470	51	0	39
Western Carolina U.	233	91	38	104	0	113	9	0	104	0

TABLE 77

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Kenyon C.	18	18	0	0	0	18	18	0	0	0
Oberlin C.	0	0	0	0	0	0	0	0	0	0
U. Dayton	50,635	8,727	38,815	3,032	61	50,574	8,727	38,815	3,032	0
Oklahoma										
Public										
Langston U.	441	336	81	8	16	441	336	81	8	16
Oklahoma State U., Center for Health Sciences	665	252	2	313	98	655	248	2	307	98
Oklahoma State U., Stillwater	10,336	8,283	1,124	626	303	9,112	7,761	459	620	272
U. Central Oklahoma	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
U. Oklahoma, Norman and Health Science Center	47,723	15,974	23,036	6,676	2,037	46,368	15,200	22,593	6,538	2,037
U. Oklahoma, Tulsa	73	34	0	39	0	21	21	0	0	0
Private										
U. Tulsa	461	447	0	14	0	447	447	0	0	0
Oregon										
Public										
Oregon Health and Science U.	68,007	35,852	15,013	14,564	2,578	61,270	32,279	12,460	14,137	2,394
Oregon Institute of Technology	0	0	0	0	0	0	0	0	0	0
Oregon State U.	30,779	24,537	3,273	1,785	1,184	28,925	23,122	3,243	1,732	828
Portland State U.	5,690	4,878	286	263	263	5,298	4,590	267	187	254
U. Oregon	9,851	7,003	1,723	1,011	114	9,157	6,321	1,723	999	114
Private										
Lewis and Clark C.	0	0	0	0	0	0	0	0	0	0
National U. of Natural Medicine	0	0	0	0	0	0	0	0	0	0
Pacific U.	358	353	0	5	0	358	353	0	5	0
Reed C.	29 i	29 i	0 i	0 i	0 i	29 i	29 i	0 i	0 i	0 i
Willamette U.	155	155	0	0	0	155	155	0	0	0
Pennsylvania										
Public										
East Stroudsburg U. Pennsylvania	193	193	0	0	0	193	193	0	0	0
Indiana U. Pennsylvania	335	29	0	306	0	335	29	0	306	0
Lincoln U.	0	0	0	0	0	0	0	0	0	0
Pennsylvania State U., Altoona	0	0	0	0	0	0	0	0	0	0
Pennsylvania State U., Behrend	822	498 i	159 i	76 i	89 i	799	493 i	146 i	72 i	88 i

TABLE 77

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Brown U.	50,446	25,334	1,951	18,926	4,235	43,857	23,818	1,487	14,619	3,933
Bryant U.	0	0	0	0	0	0	0	0	0	0
Providence C.	0	0	0	0	0	0	0	0	0	0
Roger Williams U.	13	13	0	0	0	13	13	0	0	0
South Carolina										
Public										
C. Charleston	1,360	1,268	49	34	9	1,326	1,268	49	0	9
Citadel Military C. South Carolina	0	0	0	0	0	0	0	0	0	0
Clemson U.	13,181	5,318 i	2,206 i	3,464 i	2,193 i	12,262	5,318 i	2,007 i	3,019 i	1,918 i
Coastal Carolina U.	209	176	0	33	0	176	176	0	0	0
Medical U. South Carolina	19,358 i	12,093 i	2,317 i	3,194 i	1,754 i	18,082 i	11,252 i	1,943 i	3,146 i	1,741 i
South Carolina State U.	235	0	64	0	171	235	0	64	0	171
U. South Carolina, Aiken	0	0	0	0	0	0	0	0	0	0
U. South Carolina, Beaufort	243	139	44	45	15	243	139	44	45	15
U. South Carolina, Columbia	22,851	14,383	4,710	2,285	1,473	19,925	12,985	4,474	1,261	1,205
Winthrop U.	0	0	0	0	0	0	0	0	0	0
Private										
Benedict C.	139	139	0	0	0	139	139	0	0	0
Claflin U.	13	13	0	0	0	13	13	0	0	0
Furman U.	25	25	0	0	0	15	15	0	0	0
South Dakota										
Public										
Black Hills State U.	0	0	0	0	0	0	0	0	0	0
Dakota State U.	464	464	0	0	0	464	464	0	0	0
South Dakota School of Mines and Technology	2,480	2,410	0	69	1	1,919	1,849	0	69	1
South Dakota State U.	3,387	3,181	73	125	8	2,987	2,814	73	99	1
U. South Dakota	2,482	2,184	0	298	0	2,482	2,184	0	298	0
Tennessee										
Public										
Austin Peay State U.	164	123	0	41	0	117	76	0	41	0
East Tennessee State U.	2,945	1,294	139	1,512	0	1,214	1,207	7	0	0
Middle Tennessee State U.	265	243	11	11	0	265	243	11	11	0
Tennessee State U.	1,818	1,756	50	0	12	1,818	1,756	50	0	12

TABLE 77

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Tennessee Technological U.	1,321	501	498	322	0	1,321	501	498	322	0
U. Memphis	3,625	1,867	320	1,335	103	2,963	1,569	256	1,078	60
U. Tennessee, Chattanooga	460	460	0	0	0	440	440	0	0	0
U. Tennessee, Health Science Center	9,825	8,037	713	503	572	9,541	7,924	713	503	401
U. Tennessee, Knoxville	10,848	7,650	1,400	1,002	796	10,305	7,231	1,351	953	770
Private										
Fisk U.	0	0	0	0	0	0	0	0	0	0
Lincoln Memorial U.	0	0	0	0	0	0	0	0	0	0
Lipscomb U.	0	0	0	0	0	0	0	0	0	0
Meharry Medical C.	1,237	547	50	640	0	1,237	547	50	640	0
Vanderbilt U. and Vanderbilt U. Medical Center	147,987	108,799	7,799	28,878	2,511	135,373	99,816	6,570	26,544	2,443
Texas										
Public										
Lamar U.	420	312	0	108	0	65	65	0	0	0
Prairie View A&M U.	491	491	0	0	0	491	491	0	0	0
Sam Houston State U.	743	637	0	0	106	671	581	0	0	90
Stephen F. Austin State U.	3	3	0	0	0	3	3	0	0	0
Sul Ross State U.	0	0	0	0	0	0	0	0	0	0
Tarleton State U.	529	0	16	0	513	469	0	0	0	469
Texas A&M International U.	0	0	0	0	0	0	0	0	0	0
Texas A&M U., College Station and Health Science Center	95,698	52,128	29,608	4,855	9,107	70,760	45,770	13,649	3,963	7,378
Texas A&M U.-Commerce	18	18	0	0	0	18	18	0	0	0
Texas A&M U.-Corpus Christi	2,408	1,553	738	117	0	1,214	1,069	58	87	0
Texas A&M U.-Kingsville	223	211	0	12	0	205	193	0	12	0
Texas A&M U.-San Antonio	24	0	0	0	24	7	0	0	0	7
Texas Southern U.	1,158	525	0	379	254	525	525	0	0	0
Texas State U.	3,984	3,006	539	371	68	2,965	2,609	187	169	0
Texas Tech U.	8,194	6,097	1,646	117	334	5,936	3,895	1,646	115	280
Texas Tech U., Health Sciences Center	2,120	1,161	959	0	0	1,139	1,009	130	0	0
Texas Tech U., Health Sciences Center, El Paso	223	105	0	64	54	111	32	0	53	26
Texas Woman's U.	0	0	0	0	0	0	0	0	0	0
U. Houston	15,769	11,032	2,721	1,618	398	13,359	9,109	2,621	1,238	391
U. Houston-Clear Lake	68	67	0	1	0	68	67	0	1	0

TABLE 77

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
U. Houston-Downtown	0	0	0	0	0	0	0	0	0	0
U. North Texas, Denton	2,900	2,417	212	226	45	2,601	2,393	183	0	25
U. North Texas, Health Science Center	28,796	17,033	2,678	8,892	193	28,705	16,986	2,634	8,892	193
U. Texas Health Science Center, Houston	26,443	22,914	241	2,825	463	24,828	21,706	144	2,594	384
U. Texas Health Science Center, San Antonio	25,644	20,398	641	3,524	1,081	23,625	19,397	630	2,629	969
U. Texas Health Science Center, Tyler	909	0	0	0	909	909	0	0	0	909
U. Texas M. D. Anderson Cancer Center	27,665	16,791	760	9,068	1,046	22,332	13,396	561	7,618	757
U. Texas Medical Branch	27,504	9,110	14,690	791	2,913	27,154	8,760	14,690	791	2,913
U. Texas of the Permian Basin	0	0	0	0	0	0	0	0	0	0
U. Texas Rio Grande Valley	3,213	2,575	21	302	315	3,196	2,558	21	302	315
U. Texas Southwestern Medical Center	47,076	15,243	2,300	15,630	13,903	41,387	14,325	2,300	13,414	11,348
U. Texas, Arlington	8,803	6,565	189	1,933	116	8,469	6,240	189	1,933	107
U. Texas, Austin	53,598	39,669	3,517	10,130	282	44,194	34,208	1,794	7,950	242
U. Texas, Dallas	1,735	56	0	0	1,679	1,545	56	0	0	1,489
U. Texas, El Paso	8,250	5,849	449	1,463	489	7,387	5,649	449	800	489
U. Texas, San Antonio	10,739	8,037	325	2,137	240	9,069	6,783	290	1,849	147
U. Texas, Tyler	35	35	0	0	0	35	35	0	0	0
West Texas A&M U.	32	32	0	0	0	32	32	0	0	0
Private										
Abilene Christian U.	0	0	0	0	0	0	0	0	0	0
Baylor C. of Medicine	63,536	57,845	1,699	3,992	0	58,388	54,036	1,456	2,896	0
Baylor U.	3,390	2,169	49	992	180	2,424	1,581	0	774	69
Rice U.	24,660	15,428	2,708	1,555	4,969	15,457	13,193	557	1,555	152
Southern Methodist U.	2,735	1,890	39	177	629	2,512	1,667	39	177	629
St. Edward's U.	95	12	0	83	0	83	0	0	83	0
Texas Christian U.	839	404	412	23	0	816	393	400	23	0
Trinity U.	549	175	0	294	80	505	131	0	294	80
U. of the Incarnate Word	0	0	0	0	0	0	0	0	0	0
Utah										
Public										
U. Utah	135,497	4,176	1,050	5,499	124,772	125,940	615	72	3,125	122,128
Utah State U.	46,807	9,303	37,232	128	144	45,192	9,197	35,778	125	92
Utah Valley U.	49	49	0	0	0	32	32	0	0	0

TABLE 77

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Central Washington U.	224	224	0	0	0	224	224	0	0	0
Eastern Washington U.	1	0	1	0	0	1	0	1	0	0
Northwest Indian C.	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
U. Washington, Bothell	310	247	0	63	0	151	88	0	63	0
U. Washington, Seattle	191,113	95,394	11,756	80,794	3,169	140,473	79,644	8,477	49,455	2,897
U. Washington, Tacoma	95	49	0	31	15	20	20	0	0	0
Washington State U.	29,906	15,831	3,387	6,091	4,597	27,610	15,627	2,927	5,632	3,424
Western Washington U.	694	343	133	74	144	434	129	133	29	143
Private										
Seattle U.	94	94	0	0	0	94	94	0	0	0
U. Puget Sound	0	0	0	0	0	0	0	0	0	0
Whitman C.	0	0	0	0	0	0	0	0	0	0
West Virginia										
Public										
Marshall U.	3,157	2,939	132	86	0	2,701	2,483	132	86	0
West Virginia School of Osteopathic Medicine	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
West Virginia State U.	0	0	0	0	0	0	0	0	0	0
West Virginia U.	15,897	7,234	1,550	6,564	549	15,749	7,173	1,550	6,502	524
Wisconsin										
Public										
U. Wisconsin-Eau Claire	19	19	0	0	0	19	19	0	0	0
U. Wisconsin-Green Bay	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
U. Wisconsin-La Crosse	29	29	0	0	0	20	20	0	0	0
U. Wisconsin-Madison	114,941	77,160	7,504	23,705	6,572	106,739	74,019	6,092	21,682	4,946
U. Wisconsin-Milwaukee	6,136	5,040	40	286	770	5,739	4,697	24	266	752
U. Wisconsin-Oshkosh	261	261	0	0	0	243	243	0	0	0
U. Wisconsin-Platteville	52 i	38 i	6 i	7 i	1 i	48 i	34 i	6 i	7 i	1 i
U. Wisconsin-River Falls	0	0	0	0	0	0	0	0	0	0
U. Wisconsin-Stevens Point	175	175	0	0	0	174	174	0	0	0
U. Wisconsin-Superior	0	0	0	0	0	0	0	0	0	0
Private										
Marquette U.	3,674	2,274	1,307	82	11	3,287	2,055	1,221	0	11
Medical C. Wisconsin	34,136	14,650	4,477	14,931	78	33,319	14,294	4,477	14,470	78

TABLE 77

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Milwaukee School of Engineering	0	0	0	0	0	0	0	0	0	0
Northland C.	12 i	0 i	2 i	8 i	2 i	10 i	0 i	2 i	6 i	2 i
Wyoming										
Public										
U. Wyoming	11,912	6,848	4,593	230	241	11,788	6,766	4,563	220	239
Guam										
Public										
U. Guam	747	239	508	0	0	747	239	508	0	0
Puerto Rico										
Public										
U. Puerto Rico, Cayey	162	162	0	0	0	128	128	0	0	0
U. Puerto Rico, Humacao	323	323	0	0	0	323	323	0	0	0
U. Puerto Rico, Mayaguez	1,315	1,072	0	241	2	1,072	1,072	0	0	0
U. Puerto Rico, Medical Sciences Campus	3,549	1,971	1,578	0	0	3,549	1,971	1,578	0	0
U. Puerto Rico, Ponce	0	0	0	0	0	0	0	0	0	0
U. Puerto Rico, Rio Piedras	3,620	3,620	0	0	0	3,324	3,324	0	0	0
Private										
U. Ana G. Mendez, Gurabo	0	0	0	0	0	0	0	0	0	0
U. Central del Caribe	0	0	0	0	0	0	0	0	0	0
Virgin Islands										
Public										
U. of the Virgin Islands	3,990	3,339	0	0	651	3,990	3,339	0	0	651

i = imputed. NA = not available; data were not provided by institution.

^a The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^b Johns Hopkins University includes the Applied Physics Laboratory, with zero in both total and federally financed R&D expenditures passed through to subrecipients in FY 2023.

^c The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

Note(s):

This table includes only institutions reporting \$1 million or more in total R&D expenditures in 2022. Institutions reporting less than \$1 million in total R&D expenditures in 2022 completed a shorter version of the survey form in FY 2023, and that form requested R&D expenditures passed through only to higher education institutions. For a list of R&D expenditures passed through to higher education institutions at institutions completing the shorter version of the survey, see [table 86](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 78

Headcount and FTEs of R&D personnel at higher education institutions, by personnel function and sex: FYs 2020–23

(Number)

Personnel functions	2020		2021		2022		2023	
	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs
All personnel functions	965,442	457,440	972,579	471,904	1,037,272	500,603	1,064,295	518,383
Female	NA	na	NA	na	518,986	na	536,507	na
Male	NA	na	NA	na	493,670	na	503,932	na
Sex unknown or not stated	NA	na	NA	na	24,616	na	23,856	na
Researchers	345,339	180,339	358,483	188,483	369,591	196,789	380,165	200,061
Female	NA	na	NA	na	154,300	na	162,744	na
Male	NA	na	NA	na	206,881	na	209,952	na
Sex unknown or not stated	NA	na	NA	na	8,410	na	7,469	na
R&D technicians	356,499	178,529	371,958	183,475	391,541	181,806	403,388	195,114
Female	NA	na	NA	na	200,954	na	207,743	na
Male	NA	na	NA	na	182,083	na	188,066	na
Sex unknown or not stated	NA	na	NA	na	8,504	na	7,579	na
R&D support staff	263,604	98,572	242,138	99,946	276,140	122,008	280,742	123,208
Female	NA	na	NA	na	163,732	na	166,020	na
Male	NA	na	NA	na	104,706	na	105,914	na
Sex unknown or not stated	NA	na	NA	na	7,702	na	8,808	na

NA = not available; headcount demographic subfields are not available for FYs 2020 and 2021. na = not applicable; FTEs by sex are not collected.

FTE = full-time equivalent.

Note(s):

FTE R&D personnel are calculated as the total working effort spent on R&D during a specific period divided by the total effort representing a full-time schedule within the same period. This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2022. Institutions reporting less than \$1 million in total R&D expenditures in FY 2022 completed a shorter version of the survey form in FY 2023 that did not include this question.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 79

Headcount and FTEs of R&D personnel at higher education institutions, by state, institutional control, institution, and personnel function: FY 2023

(Number)

State, institutional control, and institution	All personnel functions			Researchers			R&D technicians			R&D support staff		
	Headcount	FTEs		Headcount	FTEs		Headcount	FTEs		Headcount	FTEs	
Public												
California Polytechnic State U., San Luis Obispo	987	485.6	i	190	86.6	i	797	399.0	i	0	0.0	
California State Polytechnic U., Humboldt	568	107.4		77	11.9		179	43.1		312	52.4	
California State Polytechnic U., Pomona	395	47.0		153	11.0		23	6.0		219	30.0	
California State U., Bakersfield	53	13.5		24	4.9		25	8.3		4	0.3	
California State U., Channel Islands	120	17.7		55	6.7		60	8.4		5	2.6	
California State U., Chico	238	26.9		64	8.2		81	11.2		93	7.5	
California State U., Dominguez Hills	91	40.3		36	6.3		37	23.0		18	11.0	
California State U., East Bay	488	204.3	i	184	83.9	i	115	57.7	i	189	62.7	i
California State U., Fresno	431	186.5	i	159	72.5	i	141	70.5	i	131	43.5	i
California State U., Fullerton	800	88.1		512	60.1		244	21.2		44	6.8	
California State U., Long Beach	531	80.6		155	27.9		344	30.4		32	22.3	
California State U., Los Angeles	713	100.0		306	43.0		157	22.0		250	35.0	
California State U., Monterey Bay	217	49.4		51	15.8		102	24.9		64	8.7	
California State U., Northridge	455	165.4	i	60	27.3	i	42	21.0	i	353	117.1	i
California State U., Sacramento	584	265.9	i	583	265.6	i	NA	NA		1	0.3	i
California State U., San Bernardino	182	23.5		47	12.1		92	5.4		43	6.0	
California State U., San Marcos	448	209.0		127	40.0		287	146.0		34	23.0	
California State U., Stanislaus	166	13.3		57	4.3		106	8.6		3	0.4	
Naval Postgraduate School	452	202.9	i	425	193.6	i	2	1.0	i	25	8.3	i
San Diego State U.	2,764	1,300.4	i	1,490	678.8	i	1,178	589.7	i	96	31.9	i
San Francisco State U.	1,000	374.7		304	138.8		651	216.3		45	19.6	
San Jose State U.	894	201.3		218	99.3		83	17.2		593	84.8	
Sonoma State U.	195	94.5	i	40	18.2	i	147	73.6	i	8	2.7	i
U. California, Berkeley	9,361	3,695.4		5,533	2,486.9		777	455.2		3,051	753.3	
U. California, Davis	10,788	4,207.2		5,548	2,380.1		1,932	1,113.7		3,308	713.4	
U. California, Irvine	4,789	1,927.6		3,537	1,479.8		661	288.4		591	159.4	
U. California, Los Angeles	12,114	5,035.6		6,205	2,440.6		2,825	1,390.0		3,084	1,205.0	
U. California, Merced	1,088	317.4		749	242.3		47	17.7		292	57.4	
U. California, Office of the President	575	212.3		104	18.7		117	49.6		354	144.0	
U. California, Riverside	2,869	1,026.4		1,817	732.9		262	128.7		790	164.8	
U. California, San Diego	13,020	5,363.8		6,504	2,729.0		3,529	1,789.0		2,987	845.8	
U. California, San Francisco	10,745	5,970.2		5,510	3,010.4		3,209	2,014.0		2,026	945.8	
U. California, Santa Barbara	3,380	1,266.9		1,980	874.5		364	155.7		1,036	236.7	
U. California, Santa Cruz	2,545	895.1		1,565	666.5		202	93.0		778	135.6	

TABLE 79

Headcount and FTEs of R&D personnel at higher education institutions, by state, institutional control, institution, and personnel function: FY 2023

(Number)

State, institutional control, and institution	All personnel functions		Researchers		R&D technicians		R&D support staff	
	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs
Private								
Azusa Pacific U.	133	30.0	125	26.0	0	0.0	8	4.0
Biola U.	239	163.9	148	104.5	64	41.0	27	18.4
California Institute of Technology	2,176	1,480.7	1,289	908.6	763	487.7	124	84.4
Chapman U.	246	65.0	62	17.3	39	10.2	145	37.5
Charles R. Drew U. of Medicine and Science	98	66.1	60	42.3	15	8.1	23	15.7
Claremont Graduate U.	211	121.8	34	8.1	119	80.6	58	33.1
Claremont McKenna C.	534	50.6	81	14.1	392	25.7	61	10.8
Harvey Mudd C.	107	23.8	31	4.4	76	19.4	0	0.0
High Tech High Graduate School of Ed.	25	19.0	19	14.0	0	0.0	6	5.0
Keck Graduate Institute	72	50.7	69	49.2	2	1.0	1	0.5
La Sierra U.	126	86.1	60	42.5	39	24.9	27	18.7
Loma Linda U.	307	59.0	243	24.0	60	33.0	4	2.0
Loyola Marymount U.	595	65.0	235	27.4	185	27.1	175	10.5
Marshall B. Ketchum U.	176	120.9	114	80.2	34	21.4	28	19.3
Occidental C.	161	109.2	50	35.2	49	31.5	62	42.5
Pepperdine U.	142	100.1	142	100.1	NA	NA	NA	NA
Pomona C.	217	151.6	37	5.3	180	146.3	0	0.0
Santa Clara U.	233	158.5	69	48.9	52	33.4	112	76.2
Scripps Research Institute	1,549	1,470.6	173	154.4	1,185	1,154.7	191	161.5
Stanford U.	11,465	7,208.0	4,440	3,129.7	4,924	2,648.0	2,101	1,430.3
Touro U., California	20	11.1	6	1.3	14	9.8	0	0.0
U. of the Pacific	49	23.0	13	3.0	8	7.0	28	13.0
U. San Diego	160	132.9	74	72.5	71	49.9	15	10.5
U. San Francisco	285	192.7	88	62.1	87	55.6	110	75.0
U. Southern California	10,033	3,976.7	1,735	705.3	5,836	2,374.9	2,462	896.5
Western U. of Health Sciences	152	51.2	29	4.3	80	25.4	43	21.5
Colorado								
Public								
Colorado School of Mines	1,538	1,063.1	1,102	786.6	388	253.3	48	23.2
Colorado State U., Fort Collins	2,409	972.4	2,136	878.3	59	32.5	214	61.6
Colorado State U., Pueblo	56	18.4	21	2.3	17	9.2	18	6.9
Fort Lewis C.	290	142.5	40	18.2	245	122.6	5	1.7
U. Colorado Anschutz Medical Campus	6,347	3,946.0	2,303	1,527.0	2,708	1,826.0	1,336	593.0
U. Colorado Boulder	7,433	5,316.0	1,616	843.2	4,042	3,100.7	1,775	1,372.1

TABLE 79

Headcount and FTEs of R&D personnel at higher education institutions, by state, institutional control, institution, and personnel function: FY 2023

(Number)

State, institutional control, and institution	All personnel functions		Researchers		R&D technicians		R&D support staff	
	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs
U. Colorado Colorado Springs	64	48.0	17	8.0	8	3.0	39	37.0
U. Colorado Denver	768	225.0	226	20.0	357	150.0	185	55.0
U. Northern Colorado	306	125.7	122	55.6	53	26.5	131	43.6
U.S. Air Force Academy	300	59.0	300	59.0	NA	NA	NA	NA
Private								
Colorado C.	63	42.1	29	20.4	34	21.7	0	0.0
U. Denver	1,081	944.4	272	254.3	781	663.1	28	27.0
Connecticut								
Public								
Central Connecticut State U.	94	4.9	55	2.2	39	2.7	0	0.0
Eastern Connecticut State U.	52	7.9	28	7.0	24	0.9	0	0.0
Southern Connecticut State U.	211	54.0	109	44.0	87	7.0	15	3.0
U. Connecticut	4,400	1,249.6	1,202	285.7	2,928	881.1	270	82.8
U.S. Coast Guard Academy	9	4.6	4	1.7	0	0.0	5	2.9
Private								
Connecticut C.	24	5.2	10	1.5	1	1.0	13	2.7
Fairfield U.	136	94.7	91	64.1	0	0.0	45	30.6
Hartford International U. for Religion and Peace	7	5.0	5	4.0	0	0.0	2	1.0
Sacred Heart U.	153	17.3	153	17.3	NA	NA	NA	NA
Trinity C., Hartford	209	47.8	39	19.9	170	27.9	0	0.0
U. Hartford	69	10.8	61	8.9	1	0.1	7	1.8
U. New Haven	199	32.0	93	12.0	85	11.0	21	9.0
Wesleyan U.	278	187.6	63	44.4	75	47.9	140	95.3
Yale U.	7,015	2,612.7	3,975	1,900.8	1,998	550.7	1,042	161.2
Delaware								
Public								
Delaware State U.	154	66.8	141	55.8	8	7.0	5	4.0
U. Delaware	4,156	2,291.0	786	606.0	2,058	1,029.0	1,312	656.0
District of Columbia								
Public								
National Defense U.	29	26.0	23	22.0	0	0.0	6	4.0
U. of the District of Columbia	182	77.2	76	34.6	43	21.6	63	21.0
Private								
American U.	1,734	1,052.0	447	86.0	393	295.0	894	671.0
Catholic U. of America	325	218.4	148	101.4	166	107.9	11	9.1

TABLE 79

Headcount and FTEs of R&D personnel at higher education institutions, by state, institutional control, institution, and personnel function: FY 2023

(Number)

State, institutional control, and institution	All personnel functions		Researchers		R&D technicians		R&D support staff	
	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs
Gallaudet U.	179	62.0	101	31.0	59	20.0	19	11.0
George Washington U.	3,470	1,137.8	840	374.3	577	391.8	2,053	371.7
Georgetown U.	3,649	1,478.6	682	354.6	1,564	707.2	1,403	416.8
Howard U.	971	457.2	308	138.7	377	167.3	286	151.2
Florida								
Public								
Florida A&M U.	3,214	732.0	111	41.2	139	86.0	2,964	604.8
Florida Atlantic U.	1,341	768.6	327	261.6	830	415.0	184	92.0
Florida Gulf Coast U.	207	112.7	41	33.5	38	12.8	128	66.4
Florida International U.	5,050	2,979.6	889	799.5	3,384	1,442.8	777	737.3
Florida Polytechnic U.	116	21.6	43	7.8	16	8.1	57	5.7
Florida State U.	3,820	1,736.1	1,334	487.7	2,025	895.1	461	353.3
New C. Florida	103	48.0	i 74	33.7	i 28	14.0	i 1	0.3
U. Central Florida	2,818	1,012.6	i 626	285.2	i NA	NA	2,192	727.4
U. Florida	14,827	5,879.2	4,657	2,387.3	6,647	2,430.6	3,523	1,061.3
U. North Florida	616	184.0	63	15.0	417	111.0	136	58.0
U. South Florida	3,737	2,104.4	1,913	816.3	153	96.6	1,671	1,191.5
U. West Florida	292	68.0	61	15.0	41	9.0	190	44.0
Private								
Embry-Riddle Aeronautical U.	172	121.2	i 172	121.2	i NA	NA	NA	NA
Florida Institute of Technology	343	225.3	i 88	62.0	i 246	157.2	i 9	6.1
Nova Southeastern U.	832	740.2	566	542.9	180	127.4	86	69.9
U. Miami	3,519	2,361.4	i 2,546	1,794.6	i 668	359.2	i 305	207.6
Georgia								
Public								
Albany State U.	117	47.3	i 25	11.6	i 29	14.7	i 63	21.0
Augusta U.	1,540	1,353.0	676	658.0	749	581.0	115	114.0
Fort Valley State U.	102	42.6	i 27	12.3	i 32	16.0	i 43	14.3
Georgia Institute of Technology	9,726	4,493.4	i 2,967	1,351.8	i 5,326	2,666.1	i 1,433	475.5
Georgia Southern U.	1,259	272.3	790	212.8	441	44.8	28	14.7
Georgia State U.	4,254	1,591.7	i 1,046	476.6	i 299	149.7	i 2,909	965.4
Kennesaw State U.	973	445.2	i 618	281.6	i 272	136.1	i 83	27.5
Savannah State U.	178	42.0	151	37.0	3	3.0	24	2.0
U. Georgia	6,213	3,056.6	1,949	1,237.2	2,485	1,038.9	1,779	780.5
U. North Georgia	73	31.9	43	21.5	0	0.0	30	10.4

TABLE 79

Headcount and FTEs of R&D personnel at higher education institutions, by state, institutional control, institution, and personnel function: FY 2023

(Number)

State, institutional control, and institution	All personnel functions		Researchers		R&D technicians		R&D support staff	
	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs
Private								
Clark Atlanta U.	165	140.0	24	23.5	126	102.5	15	14.0
Emory U.	6,352	4,539.0	1,062	838.0	1,249	1,027.0	4,041	2,674.0
Mercer U.	502	280.9	254	65.2	184	171.9	64	43.8
Morehouse C.	87	61.3	87	61.3	0	0.0	0	0.0
Morehouse School of Medicine	319	264.6	132	102.9	96	74.4	91	87.3
Spelman C.	106	37.4	58	9.0	9	6.3	39	22.1
Hawaii								
Public								
U. Hawaii, Hilo	140	66.6	22	8.9	54	25.3	64	32.4
U. Hawaii, Manoa	3,410	1,784.1	703	432.3	2,233	1,061.5	474	290.3
U. Hawaii, Maui C.	61	12.1	29	8.7	30	3.3	2	0.1
U. Hawaii, system office	42	33.9	9	8.2	13	7.1	20	18.6
Private								
Hawaii Pacific U.	181	55.0	117	26.0	42	21.0	22	8.0
Idaho								
Public								
Boise State U.	805	362.1	258	117.5	373	186.8	174	57.8
Idaho State U.	549	242.0	134	61.1	254	127.3	161	53.6
U. Idaho	2,560	1,812.3	627	596.3	991	700.0	942	516.0
Illinois								
Public								
Chicago State U.	121	52.2	32	14.4	49	24.6	40	13.2
Illinois State U.	823	363.9	390	177.8	251	125.7	182	60.4
Northeastern Illinois U.	54	24.2	37	12.2	6	3.0	11	9.0
Northern Illinois U.	953	251.1	644	111.4	21	20.8	288	118.9
Southern Illinois U., Carbondale	1,049	431.5	366	166.7	568	226.8	115	38.0
Southern Illinois U., Edwardsville	94	20.1	21	6.9	51	8.1	22	5.1
U. Illinois, Chicago	6,450	2,166.1	2,135	703.3	2,809	958.3	1,506	504.5
U. Illinois, Springfield	109	47.2	26	5.2	44	24.0	39	18.0
U. Illinois, Urbana-Champaign	20,622	8,176.4	2,400	1,681.8	17,414	5,969.3	808	525.3
Western Illinois U.	104	50.5	27	12.3	75	37.5	2	0.7
Private								
DePaul U.	281	81.0	155	51.3	36	5.9	90	23.8
Erikson Institute	32	13.0	9	4.0	19	7.0	4	2.0

TABLE 79

Headcount and FTEs of R&D personnel at higher education institutions, by state, institutional control, institution, and personnel function: FY 2023

(Number)

State, institutional control, and institution	All personnel functions		Researchers		R&D technicians		R&D support staff	
	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs
U. Maine	2,367	1,059.2	1,137	549.8	661	279.8	569	229.6
U. Southern Maine	101	27.7	30	5.5	36	10.9	35	11.3
Private								
Bates C.	69	45.5	21	14.8	48	30.7	0	0.0
Bowdoin C.	87	10.1	31	2.9	15	6.1	41	1.1
Colby C.	128	30.0	44	10.0	9	4.0	75	16.0
U. New England	100	29.2	35	10.2	34	15.2	31	3.8
Maryland								
Public								
Bowie State U.	173	43.0	41	10.0	0	0.0	132	33.0
Morgan State U.	583	184.0	266	97.0	55	24.0	262	63.0
Salisbury U.	371	90.7	66	12.7	0	0.0	305	78.0
St. Mary's C. Maryland	28	9.6	10	1.5	1	0.8	17	7.3
Towson U.	575	272.1	350	159.5	225	112.6	0	0.0
U. Baltimore	167	62.0	16	12.0	0	0.0	151	50.0
U. Maryland ^a	12,999	6,145.7	2,622	1,560.9	6,458	3,595.2	3,919	989.6
U. Maryland Center for Environmental Science	418	336.0	70	59.0	194	139.0	154	138.0
U. Maryland, Baltimore County	1,884	940.6	56	25.5	1,828	915.1	NA	NA
U. Maryland, Eastern Shore	56	25.7	30	13.7	20	10.0	6	2.0
U.S. Naval Academy	136	39.2	136	39.2	0	0.0	0	0.0
Uniformed Services U. of the Health Sciences	1,296	530.2	643	292.9	309	123.2	344	114.1
Private								
Johns Hopkins U. ^b	19,576	13,059.4	9,874	7,824.0	7,670	3,574.0	2,032	1,661.4
Massachusetts								
Public								
Framingham State U.	8	2.0	8	2.0	0	0.0	0	0.0
U. Massachusetts, Amherst	3,275	1,439.0	1,035	471.4	1,329	665.1	911	302.5
U. Massachusetts, Boston	1,289	365.8	354	115.9	795	201.3	140	48.6
U. Massachusetts, Dartmouth	546	320.3	158	144.3	18	17.8	370	158.2
U. Massachusetts, Lowell	1,740	1,370.0	320	236.0	1,120	930.0	300	204.0
U. Massachusetts, Medical School	3,048	2,488.0	1,486	1,113.3	996	877.0	566	497.7
Private								
Amherst C.	390	263.3	158	111.6	147	93.9	85	57.8
Babson C.	171	115.2	56	39.8	78	49.9	37	25.5
Bentley U.	12	1.2	12	1.2	0	0.0	0	0.0

TABLE 79

Headcount and FTEs of R&D personnel at higher education institutions, by state, institutional control, institution, and personnel function: FY 2023

(Number)

State, institutional control, and institution	All personnel functions		Researchers		R&D technicians		R&D support staff	
	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs
Boston C.	949	584.3	170	168.6	647	334.1	132	81.6
Boston U.	5,291	4,994.1	1,817	1,659.7	784	690.4	2,690	2,644.0
Brandeis U.	1,469	1,021.0	389	307.0	151	92.0	929	622.0
Clark U.	111	27.4	37	10.8	61	10.6	13	6.0
Franklin W. Olin C. of Engineering	67	4.5	14	1.6	52	2.8	1	0.1
Harvard U.	7,287	2,974.0	3,452	1,894.1	1,502	594.3	2,333	485.6
Massachusetts Institute of Technology	9,051	6,274.5	6,928	4,883.5	1,305	834.1	818	556.9
Merrimack C.	64	6.7	30	3.7	6	0.6	28	2.4
MGH Institute of Health Professions	52	32.0	52	32.0	0	0.0	0	0.0
Mount Holyoke C.	47	9.0	20	4.0	4	3.0	23	2.0
New England C. of Optometry	104	70.1	36	25.3	31	19.5	37	25.3
Northeastern U.	2,930	1,818.9	535	505.8	1,068	331.7	1,327	981.4
Smith C.	318	39.3	54	9.5	264	29.8	0	0.0
Suffolk U.	23	10.8	8	2.8	3	1.0	12	7.0
Tufts U.	3,834	949.1	897	316.0	279	163.5	2,658	469.6
Wellesley C.	361	247.4	76	53.6	5	3.2	280	190.6
Western New England U.	42	6.3	16	2.0	3	2.5	23	1.8
Williams C.	170	116.0	99	69.5	42	26.7	29	19.8
Woods Hole Oceanographic Institution	937	448.4	306	205.6	567	227.7	64	15.1
Worcester Polytechnic Institute	980	304.0	321	152.0	622	136.0	37	16.0
Michigan								
Public								
Central Michigan U.	547	230.9	230	104.8	309	123.4	8	2.7
Eastern Michigan U.	211	74.1	33	15.0	0	0.0	178	59.1
Ferris State U.	89	10.3	89	10.3	0	0.0	0	0.0
Grand Valley State U.	93	42.4	93	42.4	NA	NA	NA	NA
Lake Superior State U.	99	7.8	14	3.5	11	2.8	74	1.5
Michigan State U.	8,342	3,313.5	2,312	936.2	3,092	1,339.2	2,938	1,038.1
Michigan Technological U.	1,493	728.8	309	140.8	1,156	578.7	28	9.3
Northern Michigan U.	118	17.0	45	9.0	73	8.0	0	0.0
Oakland U.	489	137.4	136	28.4	353	109.0	NA	NA
Saginaw Valley State U.	209	93.4	105	47.6	66	33.1	38	12.7
U. Michigan, Ann Arbor	23,779	8,960.2	8,341	4,573.1	10,981	2,721.0	4,457	1,666.1
U. Michigan, Dearborn	447	72.4	114	21.5	319	47.6	14	3.3
Wayne State U.	2,889	2,057.1	811	655.7	1,336	1,060.9	742	340.5

TABLE 79

Headcount and FTEs of R&D personnel at higher education institutions, by state, institutional control, institution, and personnel function: FY 2023

(Number)

State, institutional control, and institution	All personnel functions		Researchers		R&D technicians		R&D support staff	
	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs
Western Michigan U. and Homer Stryker M.D. School of Medicine	729	202.4	222	90.3	74	34.8	433	77.3
Private								
Albion C.	4	1.5	4	1.5	0	0.0	0	0.0
Andrews U.	112	14.0	15	5.6	93	6.8	4	1.6
Calvin U.	121	21.9	62	8.0	54	13.0	5	0.9
Hope C.	608	401.5	108	76.1	360	230.1	140	95.3
Lawrence Technological U.	53	8.2	24	2.4	0	0.0	29	5.8
U. Detroit Mercy	176	121.3	114	80.4	34	21.5	28	19.4
Van Andel Research Institute	316	316.0	74	74.0	117	117.0	125	125.0
Minnesota								
Public								
Minnesota State U., Mankato	337	142.4	88	39.9	118	58.9	131	43.6
St. Cloud State U.	163	16.8	44	5.6	13	5.5	106	5.7
U. Minnesota, Duluth	447	102.8	173	39.7	20	1.5	254	61.6
U. Minnesota, Twin Cities	12,297	1,880.1	4,769	765.1	1,172	111.0	6,356	1,004.0
Private								
C. of Saint Benedict	130	88.5	62	43.7	40	25.6	28	19.2
Carleton C.	330	224.4	128	90.2	92	59.1	110	75.1
Gustavus Adolphus C.	97	14.3	42	4.0	4	2.9	51	7.4
Macalester C.	33	8.0	33	8.0	0	0.0	0	0.0
Saint John's U.	135	91.8	64	45.3	42	26.6	29	19.9
St. Olaf C.	185	32.6	54	8.9	131	23.7	0	0.0
U. of St. Thomas (MN)	320	15.4	38	1.0	227	10.5	55	3.9
Mississippi								
Public								
Alcorn State U.	307	129.6	115	52.2	83	41.3	109	36.1
Jackson State U.	229	104.2	111	51.8	2	1.3	116	51.1
Mississippi State U.	4,274	2,792.7	1,267	762.5	2,740	1,837.3	267	192.9
U. Mississippi	3,343	1,770.7	1,679	795.1	361	266.5	1,303	709.1
U. Southern Mississippi	198	192.9	90	89.5	64	60.4	44	43.0
Private								
Tougaloo C.	138	92.9	44	30.9	47	30.2	47	31.8
Missouri								
Public								
Lincoln U., Jefferson City	190	74.2	48	21.9	31	15.5	111	36.8

TABLE 79

Headcount and FTEs of R&D personnel at higher education institutions, by state, institutional control, institution, and personnel function: FY 2023

(Number)

State, institutional control, and institution	All personnel functions		Researchers		R&D technicians		R&D support staff	
	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs
Public								
C. New Jersey	84	10.8	34	4.4	48	5.6	2	0.8
Kean U.	338	70.4	334	69.9	2	0.3	2	0.2
Montclair State U.	719	413.7	441	135.7	0	0.0	278	278.0
New Jersey Institute of Technology	1,089	845.0	540	450.0	224	120.0	325	275.0
Rowan U.	1,052	243.0	274	48.5	344	86.0	434	108.5
Rutgers, State U. New Jersey, Camden	37	16.9	37	16.9	NA	NA	NA	NA
Rutgers, State U. New Jersey, New Brunswick	1,400	637.8	1,400	637.8	NA	NA	NA	NA
Rutgers, State U. New Jersey, Newark	115	52.4	115	52.4	NA	NA	NA	NA
Stockton U.	138	20.1	30	13.7	108	6.4	0	0.0
William Paterson U.	39	13.0	30	9.0	4	3.0	5	1.0
Private								
Monmouth U.	60	16.0	17	5.0	40	9.0	3	2.0
Princeton U.	2,538	1,543.0	1,534	860.0	526	361.0	478	322.0
Seton Hall U.	124	94.0	34	19.0	12	10.0	78	65.0
Stevens Institute of Technology	155	107.0	155	107.0	NA	NA	NA	NA
New Mexico								
Public								
New Mexico Highlands U.	275	122.3	160	72.8	68	33.9	47	15.6
New Mexico Institute of Mining and Technology	1,100	446.9	165	75.2	364	182.2	571	189.5
New Mexico State U.	2,226	908.0	474	319.0	55	45.0	1,697	544.0
U. New Mexico	4,086	2,474.0	1,390	570.9	1,900	1,412.5	796	490.6
New York								
Public								
CUNY, Advanced Science Research Center	315	60.7	280	53.9	10	1.3	25	5.5
CUNY, Baruch C.	126	11.9	99	7.9	6	1.0	21	3.0
CUNY, Brooklyn C.	217	36.0	135	17.1	15	4.6	67	14.3
CUNY, C. Staten Island	133	22.0	109	17.6	1	0.1	23	4.3
CUNY, City C.	678	228.8	386	132.8	16	7.4	276	88.6
CUNY, Graduate Center	220	30.5	104	11.9	1	0.5	115	18.1
CUNY, Graduate School of Public Health and Health Policy	455	63.9	426	58.7	0	0.0	29	5.2
CUNY, Hunter C.	648	146.3	405	82.7	21	7.4	222	56.2
CUNY, John Jay C. of Criminal Justice	843	77.0	172	27.6	7	1.3	664	48.1
CUNY, Lehman C.	145	19.2	86	10.8	9	1.1	50	7.3
CUNY, New York City C. of Technology	69	5.0	34	3.3	13	0.4	22	1.3

TABLE 79

Headcount and FTEs of R&D personnel at higher education institutions, by state, institutional control, institution, and personnel function: FY 2023

(Number)

State, institutional control, and institution	All personnel functions		Researchers		R&D technicians		R&D support staff	
	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs
CUNY, Queens C.	321	72.2	151	21.5	19	5.2	151	45.5
CUNY, system office	27	6.0	8	2.0	1	0.0	18	4.0
CUNY, York C.	74	6.6	22	2.9	8	2.6	44	1.1
SUNY, Binghamton U.	1,543	708.9	868	485.4	611	159.5	64	64.0
SUNY, Buffalo State U.	73	36.0	15	3.0	9	8.0	49	25.0
SUNY, C. Brockport	63	17.8	10	2.0	52	15.0	1	0.8
SUNY, C. of Environmental Science and Forestry	585	210.7	70	22.2	214	141.5	301	47.0
SUNY, C. of Optometry	28	9.5	12	2.6	9	5.2	7	1.7
SUNY, C. Plattsburgh	37	9.6	10	5.8	5	1.8	22	2.0
SUNY, Cobleskill	19	10.0	3	2.0	16	8.0	0	0.0
SUNY, Downstate Health Sciences U.	205	138.0	84	23.0	96	91.0	25	24.0
SUNY, Geneseo	68	9.8	62	8.5	5	0.8	1	0.5
SUNY, Oswego	69	6.9	14	2.5	7	0.9	48	3.5
SUNY, Polytechnic Institute	265	120.8	125	56.9	103	51.6	37	12.3
SUNY, Stony Brook U.	3,138	1,753.2	625	605.1	1,984	996.4	529	151.7
SUNY, U. Albany	1,486	931.5	790	470.0	147	122.6	549	338.9
SUNY, U. Buffalo	4,271	1,741.1	1,945	886.0	1,234	492.6	1,092	362.5
SUNY, Upstate Medical U.	409	384.4	188	156.0	218	219.2	3	9.2
U.S. Military Academy	278	106.4	229	84.5	15	9.3	34	12.6
Private								
Albany C. of Pharmacy and Health Sciences	148	100.2	60	42.5	56	35.7	32	22.0
Albany Medical C.	356	229.7	149	105.0	113	61.0	94	63.7
Albert Einstein C. of Medicine	1,625	1,007.4	493	347.5	774	416.2	358	243.7
Alfred U.	41	13.8	35	10.8	6	3.0	0	0.0
Barnard C.	135	31.8	23	2.0	27	20.0	85	9.8
Canisius U.	38	26.0	7	4.9	0	0.0	31	21.1
Clarkson U.	597	400.0	127	89.5	229	146.4	241	164.1
Cold Spring Harbor Laboratory	1,145	764.0	376	265.4	603	385.3	166	113.3
Colgate U.	257	38.9	25	4.3	232	34.6	0	0.0
Columbia U. in the City of New York	11,166	9,560.0	6,305	5,455.5	684	647.0	4,177	3,457.5
Cornell U.	12,705	9,588.1	3,175	2,196.6	4,791	3,826.8	4,739	3,564.7
Fordham U.	411	280.7	38	26.8	0	0.0	373	253.9
Hamilton C.	149	27.0	70	15.7	60	10.0	19	1.3
Hobart and William Smith Colleges	93	17.8	20	2.5	73	15.3	0	0.0
Hofstra U.	287	187.5	191	134.6	87	46.8	9	6.1

TABLE 79

Headcount and FTEs of R&D personnel at higher education institutions, by state, institutional control, institution, and personnel function: FY 2023

(Number)

State, institutional control, and institution	All personnel functions		Researchers		R&D technicians		R&D support staff	
	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs
Icahn School of Medicine at Mount Sinai	3,650	2,703.0	1,187	645.0	1,918	1,673.0	545	385.0
Ithaca C.	78	3.7	44	0.8	0	0.0	34	2.9
Long Island U.	373	105.1	257	72.8	95	20.4	21	11.9
Manhattan C.	209	143.8	110	77.8	35	22.2	64	43.8
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	49	47.0	49	47.0	0	0.0	0	0.0
New School	480	329.3	191	134.6	47	30.0	242	164.7
New York Institute of Technology	171	105.0	41	21.0	82	43.0	48	41.0
New York Medical C.	163	111.3	116	81.8	17	9.1	30	20.4
New York U.	9,114	7,326.0	4,898	4,075.0	574	268.0	3,642	2,983.0
Pace U.	161	42.3	92	11.5	9	3.9	60	26.9
Pratt Institute	0	0.0	0	0.0	0	0.0	0	0.0
Rensselaer Polytechnic Institute	1,605	1,081.0	627	442.2	640	408.9	338	229.9
Rochester Institute of Technology	1,245	287.3	532	179.6	629	72.5	84	35.2
Rockefeller U.	975	772.4	512	425.5	348	298.1	115	48.8
Skidmore C.	76	15.3	30	7.1	46	8.2	0	0.0
St. John's U., New York	154	103.5	65	45.7	55	34.9	34	22.9
Syracuse U.	2,851	971.0	2,276	853.9	65	13.0	510	104.1
Teachers C., Columbia U.	72	50.8	72	50.8	NA	NA	NA	NA
Touro U., New York	417	386.4	69	58.1	185	171.4	163	156.9
U. Rochester	4,445	2,634.1	1,139	802.9	2,933	1,577.3	373	253.9
Union C., Schenectady	318	214.8	174	122.7	143	91.4	1	0.7
Vassar C.	54	38.0	52	36.7	1	0.6	1	0.7
Yeshiva U.	53	35.3	21	14.8	32	20.5	0	0.0
North Carolina								
Public								
Appalachian State U.	116	11.0	114	10.0	2	1.0	0	0.0
East Carolina U.	1,771	389.1	635	75.0	951	227.9	185	86.2
Elizabeth City State U.	13	4.0	13	4.0	NA	NA	NA	NA
Fayetteville State U.	393	159.7	117	53.2	88	44.0	188	62.5
North Carolina A&T State U.	686	329.0	320	145.8	366	183.2	0	0.0
North Carolina Central U.	477	214.4	153	69.6	221	110.6	103	34.2
North Carolina State U.	7,422	5,737.3	3,500	3,165.3	889	782.2	3,033	1,789.8
U. North Carolina, Asheville	130	63.0	50	25.0	53	25.0	27	13.0
U. North Carolina, Chapel Hill	12,634	5,031.9	3,992	1,818.6	5,126	2,046.4	3,516	1,166.9
U. North Carolina, Charlotte	1,384	310.7	306	40.3	841	233.7	237	36.7

TABLE 79

Headcount and FTEs of R&D personnel at higher education institutions, by state, institutional control, institution, and personnel function: FY 2023

(Number)

State, institutional control, and institution	All personnel functions		Researchers		R&D technicians		R&D support staff	
	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs
U. North Carolina, Greensboro	1,106	516.8	555	252.9	480	240.3	71	23.6
U. North Carolina, Wilmington	681	324.0	305	115.0	159	111.0	217	98.0
Western Carolina U.	139	82.9	29	2.9	108	78.1	2	1.9
Winston-Salem State U.	51	16.0	49	15.0	2	1.0	0	0.0
Private								
Davidson C.	250	52.0	30	7.0	7	7.0	213	38.0
Duke U.	9,844	6,470.4	4,620	2,894.6	3,919	2,825.1	1,305	750.7
Elon U.	242	166.3	96	67.7	18	11.5	128	87.1
Johnson C. Smith U.	66	26.0	13	5.5	0	0.0	53	20.5
Wake Forest U.	2,730	1,763.1	884	623.1	816	438.8	1,030	701.2
North Dakota								
Public								
North Dakota State U.	2,741	1,919.6	342	255.6	1,191	811.2	1,208	852.8
U. North Dakota	1,407	611.0	1,015	462.4	274	109.4	118	39.2
Private								
United Tribes Technical C.	25	10.0	5	4.0	5	4.0	15	2.0
Ohio								
Public								
Air Force Institute of Technology	402	247.7	206	88.5	153	137.7	43	21.5
Bowling Green State U.	837	224.7	98	29.1	739	195.6	0	0.0
Central State U.	167	47.0	38	17.0	6	4.0	123	26.0
Cleveland State U.	1,105	492.8	515	234.7	368	184.4	222	73.7
Kent State U.	1,266	601.8	644	293.4	604	302.4	18	6.0
Miami U.	597	272.0	597	272.0	NA	NA	NA	NA
Northeast Ohio Medical U.	140	106.8	91	63.9	43	37.9	6	5.0
Ohio State U.	13,842	5,451.1	3,663	1,523.6	9,581	3,648.9	598	278.6
Ohio U.	712	147.9	189	50.8	522	96.5	1	0.6
U. Akron	539	263.6	126	57.4	410	205.2	3	1.0
U. Cincinnati	4,715	2,282.0	1,777	882.0	2,519	1,148.0	419	252.0
U. Toledo	1,351	768.6	551	476.7	527	198.9	273	93.0
Wright State U.	388	161.6	100	61.4	275	88.2	13	12.0
Youngstown State U.	127	23.8	22	2.9	105	20.9	0	0.0
Private								
C. Wooster	51	35.1	17	12.0	2	1.3	32	21.8
Case Western Reserve U.	3,236	2,040.0	1,022	720.7	1,313	706.1	901	613.2

TABLE 79

Headcount and FTEs of R&D personnel at higher education institutions, by state, institutional control, institution, and personnel function: FY 2023

(Number)

State, institutional control, and institution	All personnel functions		Researchers		R&D technicians		R&D support staff	
	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs
Heidelberg U.	10	8.4	5	4.3	4	3.5	1	0.6
Kenyon C.	62	7.9	15	4.2	47	3.7	0	0.0
Oberlin C.	102	7.8	26	3.7	76	4.1	0	0.0
U. Dayton	1,243	784.1	909	525.5	128	103.9	206	154.7
Oklahoma								
Public								
Langston U.	206	93.2	143	65.4	42	20.8	21	7.0
Oklahoma State U., Center for Health Sciences	121	57.2	50	12.3	12	5.6	59	39.3
Oklahoma State U., Stillwater	2,467	1,050.4	1,616	675.2	183	113.7	668	261.5
U. Central Oklahoma	174	72.8	38	17.5	59	29.7	77	25.6
U. Oklahoma, Norman and Health Science Center	3,236	1,278.6	833	379.5	1,510	602.8	893	296.3
U. Oklahoma, Tulsa	135	52.5	24	10.9	72	28.7	39	12.9
Private								
U. Tulsa	489	161.9	287	97.9	12	7.1	190	56.9
Oregon								
Public								
Oregon Health and Science U.	3,977	1,585.2	1,317	600.0	1,521	607.2	1,139	378.0
Oregon Institute of Technology	143	62.4	94	43.0	19	9.3	30	10.1
Oregon State U.	4,865	1,445.2	870	257.1	3,143	971.6	852	216.5
Portland State U.	688	492.0	592	411.0	54	44.0	42	37.0
U. Oregon	1,773	593.3	351	66.9	1,354	501.5	68	24.9
Private								
Lewis and Clark C.	223	34.2	46	13.7	162	14.9	15	5.6
National U. of Natural Medicine	13	8.7	11	7.1	0	0.0	2	1.6
Pacific U.	206	139.4	77	54.3	65	41.5	64	43.6
Reed C.	155	104.3	41	28.8	63	40.5	51	35.0
Willamette U.	88	13.2	39	6.5	44	4.2	5	2.5
Pennsylvania								
Public								
East Stroudsburg U. Pennsylvania	69	23.3	34	7.5	34	15.3	1	0.5
Indiana U. Pennsylvania	254	46.2	109	17.8	137	26.6	8	1.8
Lincoln U.	16	7.0	16	7.0	0	0.0	0	0.0
Pennsylvania State U., Altoona	32	14.6	32	14.6	NA	NA	NA	NA
Pennsylvania State U., Behrend	90	41.0	90	41.0	NA	NA	NA	NA
Pennsylvania State U., Harrisburg	78	35.5	78	35.5	NA	NA	NA	NA

TABLE 79

Headcount and FTEs of R&D personnel at higher education institutions, by state, institutional control, institution, and personnel function: FY 2023

(Number)

State, institutional control, and institution	All personnel functions			Researchers			R&D technicians			R&D support staff		
	Headcount	FTEs		Headcount	FTEs		Headcount	FTEs		Headcount	FTEs	
Pennsylvania State U., University Park and Hershey Medical Center	4,608	2,099.4	i	4,608	2,099.4	i	NA	NA		NA	NA	
Temple U.	3,423	2,438.4		643	346.5		1,039	901.1		1,741	1,190.8	
U. Pittsburgh, Pittsburgh	12,470	6,969.4		2,800	1,618.3		6,492	3,970.1		3,178	1,381.0	
U.S. Army War C.	155	68.9	i	63	28.6	i	58	29.1	i	34	11.2	i
West Chester U. Pennsylvania	491	197.8	i	272	123.9	i	7	3.5	i	212	70.4	i
Private												
Arcadia U.	59	11.6		19	4.0		39	7.4		1	0.2	
Bryn Mawr C.	152	32.4		142	31.0		2	0.3		8	1.1	
Bucknell U.	441	304.0	i	174	122.7	i	12	7.7	i	255	173.6	i
Carnegie Mellon U.	4,542	3,081.7	i	2,589	1,825.0	i	1,750	1,118.5	i	203	138.2	i
Drexel U.	2,511	2,194.6		1,422	1,259.1		477	353.0		612	582.5	
Duquesne U.	342	233.5		52	51.5		67	37.0		223	145.0	
Franklin and Marshall C.	271	44.0		36	9.0		69	18.0		166	17.0	
Gettysburg C.	44	2.0		20	2.0		24	NA		0	0.0	
Haverford C.	37	9.1		29	1.3		7	7.0		1	0.8	
Lafayette C.	230	156.2	i	140	98.7	i	90	57.5	i	0	0.0	i
Lehigh U.	1,041	430.2		193	47.1		770	336.0		78	47.1	
Philadelphia C. of Osteopathic Medicine	32	27.2		7	3.1		21	20.4		4	3.7	
Robert Morris U.	123	17.0		119	13.0		0	0.0		4	4.0	
Saint Joseph's U.	151	31.0		76	9.3		46	19.6		29	2.1	
Swarthmore C.	381	72.4		48	9.1		54	11.4		279	51.9	
Thomas Jefferson U.	1,680	707.0		693	208.0		877	474.0		110	25.0	
U. Pennsylvania	16,297	11,984.2		1,492	558.2		2,675	2,420.4		12,130	9,005.6	
U. Scranton	248	170.3	i	154	108.8	i	56	35.9	i	38	25.6	i
Ursinus C.	36	24.7	i	19	13.4	i	6	3.8	i	11	7.5	i
Villanova U.	327	94.3		144	37.3		164	48.0		19	9.0	
Rhode Island												
Public												
Naval War C.	0	0.0		0	0.0		0	0.0		0	0.0	
Rhode Island C.	15	4.1		12	2.7		3	1.4		0	0.0	
U. Rhode Island	1,781	470.1		1,458	383.4		16	9.8		307	76.9	
Private												
Brown U.	790	576.0		215	117.0		552	448.0		23	11.0	
Bryant U.	60	9.0		51	6.2		9	2.8		0	0.0	
Providence C.	63	12.0		32	7.0		5	1.0		26	4.0	

TABLE 79

Headcount and FTEs of R&D personnel at higher education institutions, by state, institutional control, institution, and personnel function: FY 2023

(Number)

State, institutional control, and institution	All personnel functions		Researchers		R&D technicians		R&D support staff	
	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs
Roger Williams U.	153	16.4	48	6.9	93	9.0	12	0.5
South Carolina								
Public								
C. Charleston	193	32.2	62	10.3	124	17.7	7	4.2
Citadel Military C. South Carolina	85	18.1	31	11.4	52	6.0	2	0.7
Clemson U.	3,425	823.0	450	13.0	646	101.0	2,329	709.0
Coastal Carolina U.	134	21.7	39	6.7	94	14.9	1	0.1
Medical U. South Carolina	2,221	884.5	702	319.7	901	359.7	618	205.1
South Carolina State U.	201	49.0	50	15.0	114	23.0	37	11.0
U. South Carolina, Aiken	61	33.6	15	15.0	21	8.8	25	9.8
U. South Carolina, Beaufort	29	23.2	11	10.1	9	6.2	9	6.9
U. South Carolina, Columbia	2,889	1,992.8	567	552.7	1,593	974.1	729	466.0
Winthrop U.	153	20.0	33	8.0	114	11.0	6	1.0
Private								
Benedict C.	23	8.0	15	3.0	2	1.0	6	4.0
Clafin U.	20	4.6	8	0.7	1	0.1	11	3.8
Furman U.	69	9.4	37	4.3	5	1.2	27	3.9
South Dakota								
Public								
Black Hills State U.	21	7.6	6	2.0	11	3.0	4	2.6
Dakota State U.	29	15.3	24	14.0	4	1.0	1	0.3
South Dakota School of Mines and Technology	284	87.0	81	19.0	200	66.0	3	2.0
South Dakota State U.	1,268	350.9	292	111.4	941	230.3	35	9.2
U. South Dakota	1,094	648.3	327	312.9	614	217.7	153	117.7
Tennessee								
Public								
Austin Peay State U.	163	65.9	47	3.1	97	48.5	19	14.3
East Tennessee State U.	395	257.0	118	77.0	169	110.0	108	70.0
Middle Tennessee State U.	246	100.4	60	27.2	67	33.6	119	39.6
Tennessee State U.	363	127.1	224	102.1	0	0.0	139	25.0
Tennessee Technological U.	404	62.0	74	9.8	330	52.2	0	0.0
U. Memphis	2,296	173.3	159	37.0	NA	NA	2,137	136.3
U. Tennessee, Chattanooga	390	118.0	150	33.0	212	64.0	28	21.0
U. Tennessee, Health Science Center	1,239	758.0	610	376.0	535	327.0	94	55.0
U. Tennessee, Knoxville	5,782	2,792.0	1,879	1,112.0	3,338	1,202.0	565	478.0

TABLE 79

Headcount and FTEs of R&D personnel at higher education institutions, by state, institutional control, institution, and personnel function: FY 2023

(Number)

State, institutional control, and institution	All personnel functions		Researchers		R&D technicians		R&D support staff	
	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs
Private								
Fisk U.	153	15.8	146	9.8	4	3.5	3	2.5
Lincoln Memorial U.	0	0.0	0	0.0	0	0.0	0	0.0
Lipscomb U.	31	5.3	31	5.3	0	0.0	0	0.0
Meharry Medical C.	149	98.2	75	52.9	36	19.4	38	25.9
Vanderbilt U. and Vanderbilt U. Medical Center	9,211	6,044.3	4,249	2,994.9	3,129	1,801.9	1,833	1,247.5
Texas								
Public								
Lamar U.	408	172.0	98	44.6	145	72.6	165	54.8
Prairie View A&M U.	581	351.8	192	152.9	25	25.0	364	173.9
Sam Houston State U.	368	144.4	99	45.1	149	59.5	120	39.8
Stephen F. Austin State U.	275	122.9	69	31.4	137	68.6	69	22.9
Sul Ross State U.	175	71.9	56	25.7	41	20.4	78	25.8
Tarleton State U.	429	291.0	100	99.0	68	51.0	261	141.0
Texas A&M International U.	153	63.0	49	22.5	36	17.9	68	22.6
Texas A&M U., College Station and Health Science Center	15,205	5,163.9	2,574	913.7	8,267	2,966.2	4,364	1,284.0
Texas A&M U.-Commerce	304	114.9	59	26.9	40	20.0	205	68.0
Texas A&M U.-Corpus Christi	740	207.4	248	70.0	164	62.8	328	74.6
Texas A&M U.-Kingsville	634	386.2	163	131.9	175	84.4	296	169.9
Texas A&M U.-San Antonio	81	54.6	28	16.9	18	12.0	35	25.7
Texas Southern U.	113	69.1	51	36.8	30	20.0	32	12.3
Texas State U.	1,689	563.0	331	110.0	0	0.0	1,358	453.0
Texas Tech U.	4,139	1,408.5	1,382	626.9	1,748	504.1	1,009	277.5
Texas Tech U., Health Sciences Center	564	239.6	230	72.1	233	91.8	101	75.7
Texas Tech U., Health Sciences Center, El Paso	165	95.5	36	17.2	83	48.9	46	29.4
Texas Woman's U.	315	115.0	84	38.3	0	0.0	231	76.7
U. Houston	2,150	1,529.8	1,278	995.9	44	43.5	828	490.4
U. Houston-Clear Lake	80	29.0	76	27.0	2	1.0	2	1.0
U. Houston-Downtown	105	65.0	37	30.0	0	0.0	68	35.0
U. North Texas, Denton	1,594	840.0	874	465.0	633	299.0	87	76.0
U. North Texas, Health Science Center	202	192.1	202	192.1	0	0.0	0	0.0
U. Texas Health Science Center, Houston	4,904	2,837.5	888	527.1	2,773	1,540.7	1,243	769.7
U. Texas Health Science Center, San Antonio	2,387	1,565.0	603	302.6	1,304	967.0	480	295.4
U. Texas Health Science Center, Tyler	324	142.0	219	99.8	44	22.1	61	20.1
U. Texas M. D. Anderson Cancer Center	7,735	5,115.0	1,931	1,129.0	4,781	3,323.0	1,023	663.0

TABLE 79

Headcount and FTEs of R&D personnel at higher education institutions, by state, institutional control, institution, and personnel function: FY 2023

(Number)

State, institutional control, and institution	All personnel functions		Researchers		R&D technicians		R&D support staff	
	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs
Public								
Christopher Newport U.	137	29.0	137	29.0	0	0.0	0	0.0
Eastern Virginia Medical School	193	110.2	73	20.6	98	75.2	22	14.4
George Mason U.	3,093	1,433.4	660	620.3	1,426	668.3	1,007	144.8
James Madison U.	497 i	221.2 i	235 i	107.1 i	160 i	80.2 i	102 i	33.9 i
Norfolk State U.	118	71.3	39	30.5	67	32.8	12	8.0
Old Dominion U.	971	207.6	335	76.0	621	124.0	15	7.6
Radford U.	65	57.0	65	57.0	0	0.0	0	0.0
U. of Mary Washington	46	10.8	25	7.5	15	1.5	6	1.8
U. Virginia's C. Wise	35	13.7 i	10	4.6 i	5	2.5 i	20	6.6 i
U. Virginia, Charlottesville	7,800	3,030.7 i	1,884	858.3 i	3,104	1,239.2 i	2,812	933.2 i
Virginia Commonwealth U.	4,518	1,558.1 i	475	216.4 i	NA	NA	4,043	1,341.7 i
Virginia Military Institute	65	19.5	18	8.0	42	9.0	5	2.5
Virginia Polytechnic Institute and State U.	8,225 i	3,285.9 i	2,586 i	1,178.0 i	3,516 i	1,403.5 i	2,123 i	704.4 i
Virginia State U.	243 i	106.3 i	156 i	71.0 i	38 i	19.0 i	49 i	16.3 i
William & Mary	1,652 i	794.0 i	392 i	178.6 i	1,169 i	585.3 i	91	30.1
Private								
Edward Via C. of Osteopathic Medicine	76	37.0	55	23.0	11	8.0	10	6.0
Hampton U.	106	78.0	51	44.0	0	0.0	55	34.0
Liberty U.	163 i	108.3 i	113 i	79.4 i	33 i	17.6 i	17 i	11.3 i
Marymount U.	124	23.1	95	18.9	21	3.2	8	1.0
U. Richmond	130	23.3	41	9.3	76	11.0	13	3.0
Washington								
Public								
Central Washington U.	125	19.0	44	8.0	78	9.0	3	2.0
Eastern Washington U.	84	15.1	14	2.9	43	8.3	27	3.9
Northwest Indian C.	160 i	70.4 i	89 i	40.4 i	38 i	19.2 i	33 i	10.8 i
U. Washington, Bothell	160	31.0	93	21.0	6	3.0	61	7.0
U. Washington, Seattle	14,134	5,690.0	8,710	3,421.0	1,322	772.0	4,102	1,497.0
U. Washington, Tacoma	140	26.1	88	16.9	18	4.4	34	4.8
Washington State U.	4,628	1,766.7 i	1,183	539.0 i	1,254	500.6 i	2,191	727.1 i
Western Washington U.	519	102.9	161	30.5	327	68.9	31	3.5
Private								
Seattle U.	85	59.9 i	85	59.9 i	NA	NA	NA	NA
U. Puget Sound	248 i	170.8 i	161 i	113.2 i	47 i	30.3 i	40 i	27.3 i

TABLE 79

Headcount and FTEs of R&D personnel at higher education institutions, by state, institutional control, institution, and personnel function: FY 2023

(Number)

State, institutional control, and institution	All personnel functions		Researchers		R&D technicians		R&D support staff	
	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs
Whitman C.	233	21.6	228	20.3	5	1.3	0	0.0
West Virginia								
Public								
Marshall U.	671	303.0	251	50.0	126	75.0	294	178.0
West Virginia School of Osteopathic Medicine	258	105.4	124	56.7	61	24.5	73	24.2
West Virginia State U.	48	27.9	16	13.0	12	10.2	20	4.7
West Virginia U.	3,937	2,232.7	1,385	769.3	1,429	895.1	1,123	568.3
Wisconsin								
Public								
U. Wisconsin-Eau Claire	201	97.6	60	27.3	139	69.6	2	0.7
U. Wisconsin-Green Bay	318	139.4	130	59.4	105	52.4	83	27.6
U. Wisconsin-La Crosse	267	32.5	85	7.0	176	19.8	6	5.7
U. Wisconsin-Madison	18,259	6,885.0	4,571	2,196.7	6,841	2,831.6	6,847	1,856.7
U. Wisconsin-Milwaukee	1,775	950.8	269	241.9	1,506	708.9	0	0.0
U. Wisconsin-Oshkosh	86	20.0	69	10.0	15	8.7	2	1.3
U. Wisconsin-Platteville	161	68.2	40	18.2	59	29.5	62	20.5
U. Wisconsin-River Falls	268	116.0	158	71.8	47	23.3	63	20.9
U. Wisconsin-Stevens Point	195	74.3	23	10.5	40	20.0	132	43.8
U. Wisconsin-Superior	77	18.0	28	6.0	42	9.0	7	3.0
Private								
Marquette U.	1,335	624.5	375	194.5	612	289.5	348	140.5
Medical C. Wisconsin	2,634	1,266.2	778	325.1	1,610	840.7	246	100.4
Milwaukee School of Engineering	101	39.8	38	10.6	46	27.6	17	1.6
Northland C.	249	171.4	161	113.6	48	30.4	40	27.4
Wyoming								
Public								
U. Wyoming	1,787	699.5	223	88.0	548	274.3	1,016	337.2
Guam								
Public								
U. Guam	324	187.9	44	25.4	214	113.4	66	49.1
Puerto Rico								
Public								
U. Puerto Rico, Cayey	66	21.0	15	4.0	3	2.0	48	15.0
U. Puerto Rico, Humacao	42	10.6	23	5.4	12	2.9	7	2.3
U. Puerto Rico, Mayaguez	360	86.0	60	32.0	0	0.0	300	54.0

TABLE 79

Headcount and FTEs of R&D personnel at higher education institutions, by state, institutional control, institution, and personnel function: FY 2023

(Number)

State, institutional control, and institution	All personnel functions		Researchers		R&D technicians		R&D support staff	
	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs
U. Puerto Rico, Medical Sciences Campus	409	142.0	128	56.0	107	33.0	174	53.0
U. Puerto Rico, Ponce	4	1.0	4	1.0	0	0.0	0	0.0
U. Puerto Rico, Rio Piedras	512	294.0	146	75.0	26	24.0	340	195.0
Private								
U. Ana G. Mendez, Gurabo	33	22.3	i 10	7.0	i 9	5.8	i 14	9.5
U. Central del Caribe	114	86.0	29	27.0	62	44.0	23	15.0
Virgin Islands								
Public								
U. of the Virgin Islands	297	109.1	i 37	16.9	i 35	17.5	i 225	74.7

i = imputed. NA = not available; data were not provided by institution.

FTE = full-time equivalent.

^a The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^b Johns Hopkins University includes the Applied Physics Laboratory, with 8,404 personnel and 8,150 FTEs in FY 2023.

^c The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

Note(s):

FTE R&D personnel are calculated as the total working effort spent on R&D during a specific period divided by the total effort representing a full-time schedule within the same period. This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2022. Institutions reporting less than \$1 million in total R&D expenditures in FY 2022 completed a shorter version of the survey form in FY 2023 that did not include this question.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 80

Higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
All institutions	-	58,387,551	61,988,017	62,198,981	63,342,770	63,733,283	64,906,285	67,603,195	70,847,390	74,381,834	78,633,035	81,267,384	84,582,281	91,807,095	101,776,017
Johns Hopkins U. ^a	1	1,997,252	2,135,547	2,092,999	2,149,770	2,227,536	2,299,057	2,425,199	2,556,641	2,656,152	2,913,280	3,104,669	3,174,937	3,410,192	3,787,630
U. California, San Francisco	2	935,509	995,226	1,032,673	1,042,841	1,084,031	1,126,620	1,294,261	1,409,398	1,595,732	1,595,098	1,651,073	1,710,036	1,805,950	2,046,539
U. Michigan, Ann Arbor	3	1,128,686	1,212,990	1,247,680	1,304,074	1,279,603	1,300,340	1,357,228	1,434,535	1,493,353	1,571,320	1,572,931	1,521,417	1,649,126	1,815,339
U. Pennsylvania	4	793,523	851,522	813,210	790,265	792,314	828,649	1,140,833	1,247,686	1,304,291	1,368,837	1,432,968	1,492,554	1,651,972	1,807,563
U. Washington, Seattle	5	995,036	1,112,526	1,065,414	1,111,508	1,091,135	1,101,078	1,197,773	1,270,642	1,342,509	1,347,667	1,371,333	1,414,987	1,491,668	1,663,801
U. California, San Diego	6	937,982	1,003,584	1,065,306	1,066,979	1,060,207	1,093,784	1,079,429	1,126,269	1,256,171	1,344,185	1,395,348	1,385,097	1,506,966	1,651,984
U. California, Los Angeles	7	899,677	942,450	969,682	934,135	920,183	992,009	1,002,013	1,037,780	1,242,619	1,249,535	1,338,707	1,396,451	1,470,554	1,646,389
U. Wisconsin-Madison	8	940,286	1,022,723	1,030,605	997,523	984,830	938,366	1,051,311	1,105,261	1,113,968	1,209,224	1,272,053	1,294,884	1,427,742	1,616,058
Duke U.	9	980,514	1,018,241	1,004,759	987,393	1,031,404	1,029,193	1,044,046	1,113,921	1,153,947	1,212,928	1,180,209	1,222,283	1,374,670	1,490,185
Stanford U.	10	810,300	868,393	854,580	900,547	912,244	969,643	1,012,351	1,055,418	1,106,314	1,158,689	1,159,809	1,230,009	1,339,958	1,489,131
U. North Carolina, Chapel Hill	11	746,828	846,499	864,748	942,467	955,601	939,252	1,013,128	1,061,535	1,094,063	1,113,654	1,115,776	1,160,524	1,304,611	1,476,168
Cornell U.	12	747,199	779,809	799,794	841,224	874,727	946,419	956,184	963,166	1,033,740	1,103,810	1,147,119	1,143,319	1,250,601	1,392,924
U. Pittsburgh, Pittsburgh	13	806,014	880,425	839,793	846,556	835,838	852,333	880,508	930,198	995,762	1,068,746	1,092,847	1,124,822	1,241,506	1,387,873
Ohio State U.	14	719,574	794,023	720,082	743,321	752,836	745,238	751,293	804,699	818,428	876,402	914,199	1,176,605	1,289,443	1,377,779
Georgia Institute of Technology	15	611,226	650,588	683,894	726,377	720,248	757,116	780,118	785,603	859,009	931,076	1,017,808	1,086,161	1,208,017	1,377,515
New York U.	16	343,762	402,327	425,043	435,095	490,614	505,071	751,393	822,329	801,961	845,249	858,190	986,894	1,160,923	1,333,400
U. Maryland ^b	17	na	na	na	na	na	na	na	na	na	1,047,276	1,047,911	1,087,629	1,165,409	1,314,997
Yale U.	18	621,125	654,259	654,824	787,609	764,002	792,953	865,970	930,569	972,856	1,056,640	1,079,696	1,147,777	1,182,633	1,311,353
Harvard U.	19	561,703	623,116	753,973	910,569	875,964	955,246	1,011,950	1,032,590	1,066,612	1,129,158	1,116,344	1,144,925	1,197,301	1,297,039
Columbia U. in the City of New York	20	770,888	841,173	847,809	845,847	844,766	826,010	793,710	848,733	908,771	965,696	981,906	1,043,130	1,168,337	1,279,144
U. Minnesota, Twin Cities	21	764,916	824,489	806,832	834,181	850,880	844,016	872,514	881,286	915,798	970,212	999,314	1,034,743	1,159,697	1,268,198
U. Texas M. D. Anderson Cancer Center	22	599,529	663,279	685,814	718,096	794,980	833,406	852,095	888,029	929,710	969,496	1,051,297	1,124,971	1,182,536	1,255,190
Texas A&M U., College Station and Health Science Center	23	666,516	682,553	669,968	796,101	826,152	836,250	859,952	869,100	882,191	911,375	1,089,944	1,108,197	1,096,371	1,212,809
U. Florida	24	636,607	686,048	649,988	642,502	652,341	699,750	741,945	766,469	831,362	880,771	889,677	919,504	1,040,885	1,197,363
Pennsylvania State U., University Park and Hershey Medical Center	25	762,041	776,945	783,894	825,011	785,705	774,384	809,985	826,683	885,661	924,031	970,457	936,007	982,289	1,162,431

TABLE 80

Higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Vanderbilt U. and Vanderbilt U. Medical Center	26	478,345	534,806	533,878	548,086	659,418	619,866	612,351	681,286	702,128	730,378	774,717	968,571	1,008,824	1,147,280
Washington U., Saint Louis	27	693,749	707,404	689,035	665,484	646,756	680,150	726,622	740,005	797,267	866,478	894,681	960,656	1,016,233	1,133,032
U. Southern California	28	574,366	579,717	593,003	610,382	650,506	650,457	662,029	725,528	854,673	869,142	899,507	915,525	978,728	1,080,317
Emory U.	29	498,309	479,678	474,537	493,734	551,556	574,472	597,971	646,146	693,172	773,843	780,693	842,940	938,203	1,076,968
Northwestern U.	30	554,228	595,202	602,451	612,009	621,504	627,320	684,767	724,060	776,458	827,607	847,679	888,101	968,460	1,074,978
U. California, Berkeley	31	659,572	670,926	696,904	690,299	708,485	748,139	734,486	724,817	747,690	751,584	796,303	794,847	906,277	989,192
Icahn School of Medicine at Mount Sinai	32	370,666	405,527	400,680	428,654	463,429	508,353	540,296	575,448	640,141	722,241	747,014	820,260	893,968	972,476
Massachusetts Institute of Technology	33	646,222	693,714	770,367	833,884	815,008	858,917	880,111	878,964	893,508	940,079	926,053	896,339	940,291	950,099
U. California, Davis	34	669,282	698,193	704,999	715,870	699,689	706,087	726,070	726,469	774,775	791,184	804,674	805,386	870,660	946,501
U. Texas, Austin	35	531,412	558,377	549,312	572,959	526,173	551,654	565,708	598,597	617,567	619,929	726,915	709,163	780,041	939,669
U. Arizona	36	577,958	597,988	615,434	616,487	575,864	592,874	592,412	609,965	672,038	715,290	743,233	741,376	794,268	920,973
Baylor C. of Medicine	37	447,874	466,061	474,700	508,799	496,314	520,220	572,527	604,952	623,396	651,920	685,641	716,976	827,005	847,305
Indiana U., Bloomington	38	156,996	160,038	151,240	173,464	172,380	451,508	471,055	507,553	534,811	630,449	676,116	659,073	712,423	810,419
U. Texas Southwestern Medical Center	39	419,220	431,883	435,085	440,620	434,627	438,824	442,666	461,797	474,260	496,697	595,939	632,134	719,002	800,391
Rutgers, State U. New Jersey, New Brunswick	40	407,170	415,502	420,737	474,192	627,076	607,257	610,648	633,789	666,368	621,194	661,656	615,280	682,102	793,416
Michigan State U.	41	399,358	423,766	471,620	479,145	492,501	519,994	573,204	653,611	673,959	682,018	674,384	672,904	719,859	788,407
U. Illinois, Urbana- Champaign	42	493,386	522,769	558,022	721,587	598,531	614,011	587,264	602,641	609,984	640,880	658,561	695,919	727,068	774,185
Purdue U., West Lafayette	43	477,145	520,001	528,140	528,564	502,457	498,887	517,879	533,598	535,826	598,411	638,715	623,530	691,359	772,289
U. Alabama, Birmingham	44	483,862	497,680	449,108	434,882	421,475	509,586	531,492	553,651	575,060	595,361	608,545	636,451	701,768	769,258
Arizona State U.	45	296,458	323,567	344,611	367,277	380,581	403,708	441,411	484,315	559,391	572,588	594,927	595,651	668,826	740,538
Boston U.	46	344,687	348,593	330,247	359,312	353,850	372,267	379,117	398,754	435,864	508,813	554,084	625,491	690,805	726,464
U. Colorado Anschutz Medical Campus ^c	47	na	na	na	na	na	na	na	na	na	na	na	561,527	609,216	679,578
U. Cincinnati	48	393,518	419,456	408,294	414,738	399,571	408,412	401,701	427,236	464,289	513,397	511,252	530,944	591,320	667,209
U. Utah	49	375,420	410,392	425,558	486,245	476,017	509,409	322,670	318,956	534,208	548,714	577,238	597,318	552,484	625,984
U. Iowa	50	435,118	433,088	432,980	423,097	436,852	423,528	447,718	466,462	484,253	483,809	510,793	522,141	560,653	625,846
U. Virginia, Charlottesville	51	271,843	377,757	363,569	366,103	337,732	339,813	367,926	431,793	490,902	547,179	584,678	551,703	592,325	618,586
U. Colorado Boulder	52	335,983	372,034	373,512	369,663	362,882	403,654	433,850	474,496	488,883	486,073	496,549	519,045	574,814	616,498

TABLE 80

Higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
North Carolina State U.	53	357,802	374,446	400,046	413,524	440,392	462,347	479,039	488,974	497,851	523,124	528,089	529,307	567,750	616,381
U. Chicago	54	432,943	446,512	411,864	389,900	378,322	402,777	402,491	419,996	412,791	448,263	448,404	489,005	578,354	615,859
U. Nebraska, Lincoln and Medical Center ^d	55	na	na	na	na	na	na	na	na	na	na	na	na	na	577,079
Virginia Polytechnic Institute and State U.	56	393,888	445,302	448,054	487,121	502,486	495,502	512,333	511,340	520,575	532,154	546,172	531,482	573,228	573,516
U. California, Irvine	57	311,105	328,870	335,874	329,500	322,315	313,798	325,582	339,309	399,295	422,781	456,453	487,480	503,202	572,793
Case Western Reserve U.	58	417,805	428,206	430,246	422,041	417,436	400,167	403,827	406,196	430,379	435,852	437,725	419,933	466,233	549,317
Oregon Health and Science U.	59	314,990	334,324	305,360	307,134	313,112	325,268	329,414	346,710	372,148	415,629	446,826	452,798	479,094	517,742
U. Miami	60	278,664	321,830	361,772	338,568	342,852	328,082	355,690	365,310	355,132	358,621	380,470	375,130	434,763	501,252
U. Georgia	61	274,380	300,388	311,498	308,486	313,445	330,273	360,520	403,575	390,773	414,909	419,656	429,421	474,974	497,285
Uniformed Services U. of the Health Sciences	62	134,126	175,365	143,250	164,232	262,489	361,173	256,203	298,370	308,326	417,300	324,510	384,490	277,240	496,441
Princeton U.	63	231,862	255,483	264,980	264,998	287,730	272,379	285,733	321,953	351,297	370,700	382,414	389,652	444,425	495,427
Scripps Research Institute	64	387,298	400,768	398,673	399,899	386,231	384,161	364,670	354,582	396,839	427,734	444,964	485,435	492,639	494,946
California Institute of Technology	65	359,245	374,636	374,075	333,548	358,137	350,833	356,204	380,711	363,007	375,558	418,697	422,491	447,479	490,393
U. Kentucky	66	350,857	364,175	354,132	332,366	322,313	325,558	340,295	367,934	382,973	398,384	406,131	418,800	463,357	489,039
Colorado State U., Fort Collins	67	291,621	321,130	335,336	303,461	300,572	308,785	323,068	328,221	356,951	382,252	384,044	432,131	445,539	483,436
U. Rochester	68	412,704	428,144	388,401	382,399	347,161	344,921	344,489	351,924	369,072	392,275	395,774	407,058	448,264	478,207
U. Illinois, Chicago	69	355,581	373,750	381,918	358,797	339,644	344,619	314,365	352,200	343,254	365,409	396,061	411,904	422,763	470,851
Carnegie Mellon U.	70	221,376	240,956	254,992	270,898	250,497	241,829	304,383	313,145	318,218	346,356	373,131	386,540	432,701	467,061
SUNY, U. Buffalo	71	337,976	337,783	340,930	371,387	370,083	367,133	373,308	386,386	393,241	394,279	401,640	407,266	417,058	445,479
U. Missouri, Columbia	72	133,120	130,269	234,975	232,760	233,613	243,430	262,919	272,196	275,413	288,501	303,906	354,500	397,821	414,590
U. Delaware	73	147,204	160,503	161,327	170,470	169,641	167,904	169,384	176,455	179,560	200,935	214,517	224,655	343,559	404,163
Utah State U.	74	147,612	172,563	155,305	156,774	167,256	173,848	178,830	184,746	215,994	280,476	300,894	322,139	339,964	396,560
U. South Florida ^e	75	330,528	343,366	394,694	410,092	436,578	420,002	447,812	502,216	334,944	330,968	287,339	320,913	339,213	393,881
Iowa State U.	76	243,890	261,016	252,675	259,320	297,293	295,635	316,822	310,100	343,890	342,498	306,338	334,671	368,288	388,281
Rockefeller U.	77	265,750	272,491	292,896	298,474	316,368	323,932	335,136	348,845	353,142	351,089	356,217	357,543	360,877	385,168
Virginia Commonwealth U.	78	176,422	185,566	179,310	175,880	177,540	196,412	202,150	210,827	222,757	230,882	255,589	291,853	329,600	383,985
U. Connecticut	79	230,387	247,252	250,468	236,126	247,379	251,621	257,958	257,176	256,826	273,034	270,397	296,090	356,880	375,572
U. Oklahoma, Norman and Health Science Center	80	201,187	223,828	217,177	220,916	227,104	227,568	240,239	250,627	262,863	283,375	337,624	334,058	354,567	374,189

TABLE 80

Higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
U. Texas Health Science Center, Houston	81	240,772	261,172	236,250	233,256	233,737	234,299	237,016	246,060	258,411	271,525	273,862	308,823	342,633	374,105
Louisiana State U., Baton Rouge	82	280,432	281,221	279,019	276,748	282,462	274,001	282,574	258,402	278,075	287,203	277,811	283,507	333,398	360,920
U. Kansas	83	251,992	248,076	256,310	267,050	251,186	257,766	241,656	251,140	269,494	282,642	292,485	304,800	318,765	351,785
Wichita State U.	84	51,068	51,862	50,108	52,831	53,614	49,902	53,092	65,491	66,916	113,618	139,670	174,661	245,510	349,888
Medical C. Wisconsin	85	191,816	215,358	209,040	201,237	199,713	199,283	199,925	209,618	229,436	251,300	264,325	276,850	309,244	346,691
Albert Einstein C. of Medicine	86	na	na	na	na	na	na	289,660	289,685	297,328	298,824	288,654	301,715	318,314	336,238
Brown U.	87	201,116	223,455	234,906	222,945	291,917	i 286,332	i 235,373	201,253	233,689	245,883	256,871	264,138	297,930	336,126
Washington State U.	88	285,120	299,905	288,693	261,537	255,190	i 277,819	275,208	288,629	289,326	302,309	294,831	324,631	322,562	333,953
Medical U. South Carolina	89	224,632	213,346	236,586	245,451	242,594	243,534	260,098	262,267	282,253	295,600	272,590	277,761	284,553	333,826
Oregon State U.	90	215,400	227,752	239,571	231,342	229,456	242,874	252,541	260,893	266,684	257,935	262,426	271,218	292,006	331,625
U. Massachusetts, Medical School	91	232,039	262,714	256,090	245,923	241,869	250,338	253,099	279,884	274,211	281,507	279,096	347,337	358,204	326,731
Dartmouth C. and Dartmouth Hitchcock Medical Center	92	193,608	210,274	195,251	198,995	204,360	203,660	224,497	277,638	287,951	284,843	285,551	292,979	305,348	324,057
SUNY, Stony Brook U.	93	201,846	206,207	218,209	224,030	210,301	219,485	227,942	235,430	240,949	257,048	260,203	270,403	308,351	317,911
Florida State U.	94	208,834	216,869	208,005	224,425	231,390	237,427	243,327	247,319	260,486	257,656	270,051	250,915	267,537	311,122
U. Hawaii, Manoa	95	303,085	318,316	312,311	326,402	319,818	313,046	300,864	288,294	272,971	277,704	273,320	268,692	273,968	309,293
U. New Mexico	96	207,906	217,206	216,218	220,840	221,817	224,321	227,591	236,623	245,400	233,310	237,249	327,382	325,361	308,439
U. Tennessee, Knoxville ^f	97	133,877	i 151,814	165,708	175,264	170,471	166,591	177,240	199,356	233,705	221,726	292,314	287,374	292,996	304,807
Auburn U., Auburn	98	143,874	161,785	130,222	143,545	140,110	132,970	149,411	167,352	184,650	199,851	221,503	229,394	263,383	303,144
Wake Forest U.	99	192,034	208,460	203,730	182,721	176,380	171,538	169,533	181,876	190,991	236,494	241,271	259,165	261,740	300,987
Mississippi State U.	100	223,032	217,793	222,320	197,359	200,251	216,817	229,939	233,024	235,581	255,674	264,367	257,912	283,416	299,226
George Washington U.	101	189,113	189,427	187,652	192,152	213,334	226,132	214,984	226,005	242,029	249,198	249,745	248,501	257,177	292,976
U. California, Santa Barbara	102	217,952	217,877	222,916	225,976	225,614	213,537	219,907	225,767	223,349	230,097	241,523	232,800	266,443	290,568
Woods Hole Oceanographic Institution	103	181,746	198,775	204,352	198,232	220,016	216,592	212,374	194,088	204,400	229,143	227,573	262,048	255,017	i 287,825
SUNY, Polytechnic Institute	104	na	na	na	na	412,851	295,313	316,680	308,843	257,316	352,788	355,519	465,149	413,602	284,497
Georgetown U.	105	155,538	164,301	171,829	170,503	162,983	157,308	162,734	187,948	192,160	210,896	225,504	249,329	268,486	284,267
U. Texas Health Science Center, San Antonio	106	207,115	198,655	184,298	175,983	172,716	170,277	194,885	169,200	179,219	188,483	202,572	219,734	238,510	281,078

TABLE 80

Higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Florida International U.	107	92,250	97,804	83,639	92,463	107,487	124,631	133,831	146,431	165,748	191,754	210,258	215,873	249,706	280,968
U. Notre Dame	108	104,288	121,466	143,328	156,234	160,461	171,148	175,187	184,061	190,469	211,694	200,815	214,388	242,040	277,165
Temple U.	109	115,543	122,663	126,288	207,190	206,556	210,371	232,379	249,156	253,548	263,217	274,258	280,000	281,483	275,678
Thomas Jefferson U.	110	103,064	104,923	100,506	89,273	118,378	119,631	122,396	142,569	148,573	170,458	171,354	200,364	246,206	258,324
Northeastern U.	111	74,998	81,230	102,911	111,134	111,779	115,664	121,574	134,827	156,546	174,485	189,802	199,031	211,408	258,000
Rice U.	112	97,288	109,197	115,235	128,621	136,419	141,935	151,855	163,312	157,352	177,126	192,213	200,803	210,310	249,537
U. Massachusetts, Amherst	113	164,850	176,545	178,207	172,217	183,210	197,183	193,863	194,030	193,495	203,885	204,998	201,187	223,427	247,651
Tulane U.	114	151,686	154,530	154,196	151,314	148,784	140,118	153,298	167,338	179,813	182,444	190,724	191,868	207,447	241,922
Wayne State U.	115	248,753	252,620	221,666	217,984	213,253	207,830	214,306	220,199	230,231	235,072	229,753	222,694	230,996	238,057
Tufts U.	116	153,113	154,760	159,140	154,694	156,411	162,510	181,011	216,895	197,478	196,559	209,283	221,029	226,775	237,304
West Virginia U.	117	146,944	159,206	161,961	159,865	156,946	160,560	164,501	175,403	176,082	178,575	180,349	190,951	206,080	234,752
U. Texas Medical Branch	118	188,399	193,555	180,888	180,198	178,014	173,506	179,541	185,106	181,831	175,372	180,595	185,759	204,518	233,192
George Mason U.	119	77,966	80,284	79,913	82,849	85,493	89,845	92,649	98,488	125,416	164,053	196,362	193,205	202,471	225,039
U. Dayton	120	91,943	89,037	79,877	82,349	83,409	93,319	111,363	127,207	143,636	163,924	162,216	189,741	209,436	224,964
Clemson U.	121	144,562	135,681	110,493	116,138	116,871	120,858	133,342	144,728	160,361	165,227	174,342	183,496	204,021	220,165
U. Central Florida	122	108,662	97,309	102,562	108,560	143,063	169,770	166,000	168,630	176,094	185,873	178,762	182,161	185,692	218,321
U. Vermont	123	129,612	132,107	115,569	115,055	109,343	114,090	115,230	117,433	128,179	135,673	178,828	182,307	201,859	217,726
U. Alaska, Fairbanks	124	127,808	126,691	121,640	118,907	152,352	139,605	141,976	150,064	138,989	142,307	150,364	170,923	200,660	216,506
U. South Carolina, Columbia	125	218,771	196,820	186,559	178,800	181,363	181,742	183,478	180,127	145,739	136,433	178,990	168,442	184,190	214,489
U. New Hampshire	126	103,801	128,348	152,276	134,535	130,951	130,700	136,006	133,592	133,378	137,626	145,844	152,800	191,700	210,296
U. Arkansas for Medical Sciences	127	119,518	122,066	129,056	133,677	131,438	132,451	125,378	128,508	139,187	153,135	174,549	194,709	205,493	209,409
U. California, Riverside	128	121,541	125,902	129,609	126,916	128,506	136,493	147,268	159,305	162,054	172,146	177,921	183,414	193,235	206,655
U. Louisville	129	162,447	166,918	165,319	160,338	163,199	154,598	164,371	168,906	168,433	166,122	184,869	187,772	217,449	206,161
Montana State U., Bozeman	130	124,227	114,244	113,235	103,144	104,646	98,467	102,179	118,221	114,496	140,359	147,443	174,739	180,951	205,324
Kansas State U.	131	154,888	163,494	169,863	177,525	178,304	180,082	181,933	183,513	201,866	202,244	199,739	190,199	199,055	203,337
U. Houston	132	106,646	98,231	105,844	112,469	122,163	125,973	142,081	149,795	158,543	168,909	174,582	177,843	208,653	196,606
U. California, Santa Cruz	133	136,964	149,702	149,824	145,092	147,536	147,518	146,237	119,990	123,221	138,455	146,771	156,839	171,771	194,339
U. Arkansas, Fayetteville	134	104,336	110,310	111,502	112,296	111,703	120,679	132,648	135,925	146,029	148,960	141,283	142,272	164,018	192,171
Oklahoma State U., Stillwater	135	147,094	162,786	166,523	134,500	126,543	126,607	150,167	152,605	154,418	150,021	153,586	151,936	159,739	188,378
Texas Tech U.	136	106,220	114,648	105,147	114,506	125,126	128,554	132,766	144,898	139,500	147,317	147,162	150,907	169,184	186,256
U. Louisiana, Lafayette	137	57,333	56,313	51,873	52,089	59,068	55,250	58,984	78,780	102,812	131,601	138,225	148,749	164,578	181,217
North Dakota State U.	138	125,294	132,717	133,874	144,069	148,352	148,934	152,106	149,230	140,507	145,723	149,867	149,983	165,968	179,375

TABLE 80

Higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
U. Maine	139	106,238	111,129	91,673	77,169	100,493	78,608	78,576	98,748	105,810	121,621	124,999	136,719	161,080	177,452
U. Nevada, Reno	140	94,420	86,372	83,137	85,085	81,028	83,385	90,673	99,156	127,049	136,707	144,327	158,566	165,839	170,327
U. North Dakota	141	76,262	74,636	79,792	68,636	67,199	63,590	69,145	91,958	100,061	100,841	102,047	132,941	136,282	168,464
Georgia State U.	142	61,971	54,221	62,188	79,235	80,955	79,813	103,731	133,242	133,302	126,225	126,387	135,070	149,641	164,924
Drexel U.	143	115,458	109,729	112,390	118,754	124,464	122,366	120,789	132,507	148,107	140,907	134,792	144,102	142,544	156,311
U. Alabama, Huntsville	144	73,266	72,988	83,076	96,932	85,994	84,745	91,549	89,392	94,519	104,824	124,322	141,890	160,626	153,500
New Jersey Institute of Technology	145	81,240	89,250	91,407	97,088	94,371	96,386	95,235	101,334	124,565	136,801	146,635	143,190	155,441	152,630
U. Alabama, Tuscaloosa	146	39,992	52,601	52,021	49,728	47,920	51,555	53,395	52,151	59,911	68,032	72,260	99,710	122,764	143,863
U. Mississippi	147	100,712	113,281	109,897	98,354	97,286	89,707	102,660	114,674	117,390	137,475	115,972	104,529	123,477	143,476
U. Wyoming	148	53,957	55,320	63,812	63,149	48,736	54,928	108,552	121,927	112,857	79,928	91,738	92,230	132,538	139,898
Augusta U.	149	na	na	na	64,033	64,116	67,736	71,338	99,637	99,043	96,396	103,886	116,415	125,126	136,158
U. Rhode Island	150	84,523	101,202	97,845	94,381	84,393	86,139	90,562	95,197	98,271	107,429	102,059	120,266	115,189	133,865
U. Oregon	151	83,545	87,161	87,656	78,654	77,655	65,226	68,631	72,517	83,132	82,231	88,598	108,990	129,211	133,852
U. Texas, Dallas	152	75,236	89,767	83,124	93,582	94,961	92,374	99,328	105,140	100,950	113,560	119,531	112,959	120,737	133,017
Rush U.	153	73,398	79,212	80,300	81,770	80,551	79,048	73,351	74,062	89,101	96,267	94,438	107,398	114,874	132,394
U. Maryland, Baltimore County	154	81,894	83,155	65,628	62,887	64,329	67,944	69,404	69,926	70,358	76,918	79,669	81,658	100,757	132,287
U. Tennessee, Health Science Center	155	81,900	81,216	77,749	71,897	67,841	65,771	71,547	73,393	79,460	96,979	99,716	109,562	115,161	130,113
U. Idaho	156	85,475	94,345	95,327	93,941	92,512	95,459	99,354	105,475	105,578	107,351	109,184	102,636	112,198	128,693
U. Texas, Arlington	157	62,410	60,003	64,684	72,571	74,261	74,702	82,355	82,065	87,257	100,734	107,017	105,993	113,736	124,535
New Mexico State U.	158	146,364	137,301	135,214	136,254	129,124	127,000	103,871	99,975	93,993	100,033	105,817	109,520	120,064	124,334
U. Texas, El Paso	159	64,134	67,576	72,033	73,005	70,475	77,515	80,981	83,892	80,824	92,205	87,437	86,892	106,992	123,377
San Diego State U.	160	95,064	91,789	75,670	69,338	77,474	76,131	74,504	70,862	69,858	74,733	78,865	86,282	102,089	122,695
U. Montana, Missoula	161	62,814	59,617	58,735	59,809	54,808	60,282	69,994	84,109	86,096	96,246	101,504	112,294	113,897	122,536
SUNY, Binghamton U.	162	66,512	65,816	73,098	67,892	63,960	70,367	75,332	88,735	105,017	93,446	105,920	110,490	110,499	122,491
Cold Spring Harbor Laboratory	163	ne	89,913	84,072	78,236	76,733	84,653	88,943	97,288	115,870	126,773	115,051	114,885	118,034	117,483
SUNY, U. Albany	164	356,517	146,987	135,673	135,879	129,434	110,284	105,605	140,392	151,303	161,613	120,484	100,353	104,873	117,257
New Mexico Institute of Mining and Technology	165	51,696	43,857	37,875	32,442	48,260	26,222	19,238	20,404	21,260	24,523	24,267	28,487	87,527	116,033
U. Texas, San Antonio	166	51,480	50,496	48,700	48,599	42,318	50,012	49,383	64,143	66,192	75,719	91,606	98,032	111,983	115,721
Rensselaer Polytechnic Institute	167	83,601	84,346	92,348	92,365	104,844	102,122	93,907	96,533	94,221	99,326	114,386	110,580	114,332	111,059
U. Massachusetts, Lowell	168	55,120	55,257	53,980	51,465	52,595	57,435	58,437	60,735	65,060	76,770	85,346	87,311	102,312	108,925

TABLE 80

Higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Colorado School of Mines	169	43,403	45,816	55,925	57,778	58,498	57,425	59,576	58,175	58,288	67,310	74,763	79,464	90,864	101,290
Touro U., New York ⁹	170	ne	947	573	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	100,542
Michigan Technological U.	171	60,183	66,812	67,977	66,192	64,791	66,135	68,863	68,681	75,194	76,853	74,731	78,507	87,980	100,525
Syracuse U.	172	76,808	56,598	56,192	48,195	48,034	49,384	53,864	78,329	78,642	83,679	77,690	79,680	79,843	97,938
U. North Texas, Health Science Center	173	38,862	45,943	46,865	44,904	47,002	46,335	50,567	48,476	49,503	50,124	42,766	50,698	72,675	94,652
Brandeis U.	174	67,672	71,638	69,489	69,398	67,048	68,690	56,871	62,745	56,750	56,738	77,912	80,095	86,979	92,206
Brigham Young U., Provo	175	27,766	29,980	26,499	30,076	30,797	31,849	35,512	36,791	34,276	33,275	33,810	39,753	40,734	91,376
U. Nevada, Las Vegas	176	42,202	37,711	33,130	34,299	38,229	39,564	49,405	53,073	62,711	73,777	77,606	74,115	72,478	82,262
Van Andel Research Institute	177	ne	ne	ne	ne	ne	40,502	40,040	44,578	55,171	61,738	58,982	65,789	78,626	80,748
Howard U.	178	38,626	41,471	44,587	41,351	38,366	45,764	40,412	44,613	44,592	43,227	44,077	51,442	66,646	78,042
Cleveland State U.	179	33,857	55,044	60,481	67,137	61,291	56,683	70,665	77,518	77,203	73,854	72,092	65,974	73,255	77,861
U. North Texas, Denton	180	22,762	34,421	40,796	43,342	39,453	38,001	30,858	35,443	37,731	54,523	57,764	56,738	66,521	76,478
Saint Louis U.	181	46,589	52,134	48,303	47,174	42,316	40,831	40,426	53,643	55,913	61,907	66,858	75,470	79,565	75,825
Northern Arizona U.	182	27,281	28,581	27,078	30,134	30,903	34,731	38,800	45,572	52,105	57,763	62,548	67,558	64,332	74,479
Indiana U.-Purdue U., Indianapolis	183	290,490	314,004	308,101	325,562	316,650	51,479	52,050	51,783	54,270	58,150	63,477	58,855	56,684	73,603
Naval Postgraduate School	184	96,067	95,153	124,531	89,616	91,400	74,293	54,558	52,404	52,551	60,522	58,276	58,240	58,894	71,645
William & Mary	185	51,453	48,835	46,547	48,183	49,428	52,642	54,491	54,197	54,508	55,687	55,857	58,063	64,142	71,623
South Dakota State U.	186	67,269	69,646	68,554	63,751	58,199	57,433	60,582	63,328	63,287	66,462	60,600	51,153	59,064	70,404
Texas State U.	187	19,496	19,243	24,285	26,671	25,910	29,934	30,064	28,479	29,444	35,440	39,242	40,513	57,743	70,079
U. Texas Rio Grande Valley	188	na	na	na	na	na	na	27,400	28,547	25,623	42,714	47,610	48,450	52,702	69,289
Louisiana State U., Health Sciences Center, New Orleans	189	59,776	57,007	53,712	49,443	45,486	46,840	43,067	40,785	38,989	40,914	43,419	44,370	53,995	68,707
U. North Carolina, Charlotte	190	28,216	24,323	22,504	21,744	20,646	21,836	23,610	24,190	34,870	42,697	45,181	47,458	38,264	68,218
Florida Atlantic U.	191	41,896	47,027	46,782	22,594	21,760	19,718	25,158	42,918	44,634	46,399	50,002	54,980	58,593	67,610
U. Memphis	192	40,589	39,315	41,841	39,306	44,351	37,539	40,374	41,192	50,819	47,225	54,193	50,121	54,238	67,560
Old Dominion U.	193	76,710	80,696	79,305	76,187	52,832	48,418	53,097	54,635	51,747	59,858	58,862	58,478	59,895	66,104
U. Southern Mississippi	194	41,480	45,207	54,151	44,912	45,127	41,432	47,195	49,769	49,785	65,249	64,496	60,447	64,443	65,634
Rochester Institute of Technology	195	33,537	29,709	31,893	32,199	31,471	36,030	39,952	45,563	43,679	49,949	49,572	48,513	54,566	65,120

TABLE 80

Higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
U. California, Office of the President	196	72,542	63,420	65,627	67,447	50,103	48,233	39,051	46,399	55,676	67,702	60,686	50,462	54,568	63,364
U. Toledo	197	66,839	70,164	63,348	63,119	56,710	48,391	45,687	46,697	48,184	52,655	51,843	51,629	59,820	62,285
Worcester Polytechnic Institute	198	17,154	20,647	18,558	23,780	26,544	33,910	34,921	31,662	31,477	37,822	41,949	47,250	53,527	62,038
U. Puerto Rico, Medical Sciences Campus	199	39,134	64,017	45,649	43,374	40,444	43,316	46,232	42,423	41,216	45,014	37,217	44,111	47,578	61,235
San Jose State U.	200	32,947	34,075	29,554	32,100	36,354	39,833	38,326	36,594	38,252	39,818	40,474	48,531	55,187	61,157
Missouri U. of Science and Technology	201	37,259	36,325	33,797	35,400	38,509	35,144	35,531	37,958	42,657	47,521	46,813	51,669	51,242	60,845
East Carolina U.	202	23,370	25,727	29,468	36,425	29,169	26,248	25,251	25,551	36,066	47,612	47,123	42,053	46,984	60,449
Stevens Institute of Technology	203	32,230	39,973	29,893	26,788	28,917	33,042	34,413	34,018	31,565	35,477	42,640	41,313	51,988	58,947
Baylor U.	204	8,452	10,277	8,184	11,877	17,877	20,721	22,237	25,052	25,289	26,291	31,313	42,087	51,527	58,410
Morehouse School of Medicine	205	30,669	i 33,946	37,586	36,638	i 41,858	33,367	38,774	35,454	33,215	31,289	29,813	32,637	42,489	57,125
Air Force Institute of Technology	206	28,318	30,090	30,609	26,234	23,335	26,323	29,722	35,703	33,360	34,016	35,584	45,703	44,391	56,848
U. California, Merced	207	20,730	20,307	21,826	21,730	22,612	28,278	27,185	32,448	35,753	42,611	43,421	39,867	43,445	55,105
Southern Illinois U., Carbondale	208	69,924	71,130	71,097	70,854	65,256	57,509	53,172	48,416	49,636	41,729	41,617	47,210	46,967	54,232
Boston C.	209	36,960	i 30,446	30,436	30,700	28,326	26,123	40,724	43,825	42,801	44,768	43,168	45,726	46,563	53,820
U. Wisconsin-Milwaukee	210	58,417	56,845	52,271	47,568	51,316	55,883	50,661	48,017	53,585	50,950	54,782	49,581	50,505	53,570
SUNY, Upstate Medical U.	211	43,824	39,988	35,897	34,286	33,460	32,453	31,892	35,551	36,674	38,091	41,557	44,870	50,586	53,219
Lehigh U.	212	34,897	29,639	28,949	31,003	32,860	33,693	30,375	33,752	35,849	35,414	36,427	39,118	48,362	52,911
North Carolina A&T State U.	213	35,216	34,725	33,963	33,251	34,160	34,514	31,782	35,285	34,714	33,297	31,382	35,189	41,426	52,521
U. Maryland Center for Environmental Science	214	42,670	50,007	48,224	53,683	50,814	49,341	52,861	54,491	53,398	55,121	53,676	50,322	52,814	52,486
U. South Alabama	215	30,012	36,975	34,194	34,737	33,994	38,245	42,466	40,629	40,519	51,968	50,571	46,500	41,920	51,968
Ohio U.	216	44,428	43,399	42,798	44,746	58,238	i 57,786	i 55,828	i 57,321	i 49,518	i 45,581	42,369	44,199	47,490	51,678
Loyola U., Chicago	217	42,120	40,994	44,785	50,150	48,996	47,000	41,152	38,070	37,049	37,210	38,210	42,342	44,182	50,656
U. Missouri, Kansas City	218	24,461	27,000	23,902	23,521	26,452	24,097	23,955	22,806	22,857	30,096	34,695	31,756	50,685	50,602
Boise State U.	219	18,045	23,519	26,885	24,027	25,351	29,955	30,384	32,279	37,959	35,528	38,919	43,167	44,696	50,051
Florida A&M U.	220	30,282	33,719	31,375	33,538	29,895	31,676	32,856	33,024	34,437	36,605	34,194	35,945	41,786	49,716
Texas Tech U., Health Sciences Center	221	51,282	58,774	61,219	61,309	36,932	39,261	38,717	38,657	36,784	42,959	43,102	40,567	44,961	47,072
Nova Southeastern U.	222	9,740	11,912	12,599	12,415	13,532	14,439	18,991	22,021	22,406	24,277	25,476	24,185	27,786	46,860

TABLE 80

Higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
U.S. Air Force Academy	223	54,509	70,285	43,512	49,471	41,539	35,157	50,659	40,635	33,467	34,940	33,308	32,086	36,504	44,754
Mercer U.	224	26,862	28,998	31,352	28,876	30,162	32,771	31,653	29,366	34,098	44,037	48,955	51,895	50,073	44,663
CUNY, City C.	225	45,050	56,734	56,618	54,316	52,072	51,905	61,354	53,738	53,132	51,305	44,175	55,178	60,571	44,208
U. Massachusetts, Boston	226	39,387	31,864	28,869	29,875	30,021	30,305	35,220	37,929	33,865	38,998	36,827	37,121	37,753	43,791
Kent State U.	227	24,616	24,388	23,353	19,962	21,785	25,917	21,951	27,413	26,703	32,867	33,929	36,040	36,440	42,291
Rowan U.	228	2,610	3,185	3,657	2,729	8,118	7,921	10,113	12,710	15,818	21,980	25,269	26,086	29,723	40,855
U. Massachusetts, Dartmouth	229	24,312	23,708	21,556	25,559	25,879	23,875	24,363	24,336	24,536	26,554	25,326	27,986	31,852	40,530
Catholic U. of America	230	20,871	24,933	24,275	22,795	22,009	23,817	24,360	23,337	24,269	23,402	24,099	26,557	30,035	39,584
Southern Methodist U.	231	16,121	22,008	20,917	17,972	24,443	20,538	22,729	21,128	21,505	27,503	26,882	25,998	37,318	37,236
Morgan State U.	232	12,768	12,544	17,470	14,942	15,337	13,406	15,353	14,527	12,727	12,791	16,919	18,888	25,178	37,085
Marquette U.	233	13,124	16,525	15,208	16,257	17,267	19,985	21,968	23,692	24,623	28,856	29,152	29,369	30,871	36,826
Portland State U.	234	40,203	41,692	40,939	38,785	39,134	36,355	38,717	36,595	36,526	38,726	33,654	33,096	33,017	36,811
Oakland U.	235	11,796	14,725	15,439	14,033	12,515	15,015	14,083	12,757	11,961	17,226	12,851	19,663	37,108	36,473
American U.	236	16,809	18,212	18,404	23,794	38,038	25,350	28,170	26,551	31,906	39,531	37,505	29,508	31,685	35,861
Louisiana State U., Health Sciences Center, Shreveport	237	30,817	31,021	29,365	28,266	25,004	24,069	23,353	22,560	24,463	26,262	25,321	24,600	29,502	35,624
SUNY, Downstate Health Sciences U.	238	32,512	41,993	43,257	39,354	33,331	28,652	33,735	31,873	34,661	36,015	33,204	34,459	30,918	35,600
Western Michigan U. and Homer Stryker M.D. School of Medicine	239	14,432	15,875	13,546	12,821	13,500	13,375	11,974	17,687	15,913	15,160	15,350	17,672	20,850	35,010
Texas A&M U.-Corpus Christi	240	15,034	15,146	13,626	15,161	19,058	22,985	21,911	25,644	28,077	29,296	28,246	27,070	31,991	34,934
Teachers C., Columbia U.	241	15,149	17,459	19,829	18,538	19,457	22,359	22,868	23,189	23,261	24,234	22,170	24,303	30,921	33,950
Illinois Institute of Technology	242	34,348	40,199	32,148	36,426	30,938	33,810	29,430	32,362	32,566	34,220	29,003	29,542	29,710	32,834
Delaware State U.	243	14,723	17,993	15,416	17,260	17,654	15,964	20,384	19,136	18,916	22,512	19,627	19,194	23,434	32,774
San Francisco State U.	244	24,959	25,772	29,447	31,948	28,710	26,178	25,149	26,712	27,841	29,667	31,177	32,882	34,059	32,114
U. Texas Health Science Center, Tyler	245	ne	ne	ne	ne	ne	12,191	11,799	16,292	17,949	19,606	21,265	27,928	33,872	32,077
SUNY, C. of Environmental Science and Forestry	246	26,916	25,007	23,117	21,225	19,013	22,036	24,221	27,755	26,559	28,979	29,000	28,145	31,623	31,318
Desert Research Institute	247	34,367	35,331	33,056	27,695	23,778	22,103	29,422	29,440	27,875	26,991	26,428	26,365	28,478	30,716
CUNY, Graduate Center	248	6,799	4,964	6,861	8,835	5,719	4,144	4,979	5,727	4,145	4,163	3,613	3,352	1,881	30,712

TABLE 80

Higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
California Polytechnic State U., San Luis Obispo	249	19,148	15,489	15,939	15,098	14,648	15,666	17,559	17,304	15,860	24,954	23,679	22,541	29,000	30,553
U. Denver	250	12,348	13,018	11,575	12,716	11,216	10,614	16,858	18,327	21,618	21,642	22,612	21,373	24,694	29,625
Marshall U.	251	24,398	26,268	18,998	19,607	20,154	19,835	18,777	16,423	18,043	17,823	19,020	21,555	22,982	29,518
CUNY, Hunter C.	252	35,751	35,645	36,085	36,741	35,702	33,483	33,508	26,496	29,752	32,773	33,951	30,854	27,656	29,064
U. Nebraska, Omaha	253	6,783	7,903	7,536	7,966	7,640	6,688	9,093	10,637	10,987	11,775	12,878	17,554	22,893	29,048
Chapman U.	254	2,135	2,098	2,396	2,734	3,189	3,074	5,023	8,568	9,895	12,498	13,951	16,594	21,500	27,895
Georgia Southern U.	255	3,164	3,505	5,185	17,287	19,584	16,456	16,465	15,221	12,150	9,634	10,049	25,292	24,155	27,473
Creighton U.	256	25,432	28,907	29,911	27,709	24,073	22,228	21,843	22,310	18,896	22,278	18,899	21,647	25,850	26,655
CUNY, Graduate School of Public Health and Health Policy	257	na	na	na	na	na	na	na	na	8,636	9,521	12,177	15,035	16,423	26,651
U. South Dakota	258	27,511	25,321	27,060	30,364	27,367	21,671	22,543	24,830	27,168	28,456	24,766	22,891	26,140	26,604
Embry-Riddle Aeronautical U.	259	12,189	10,705	14,225	11,575	14,741	11,528	16,409	13,133	16,601	12,307	17,436	19,054	27,382	26,209
Wright State U.	260	48,396	47,795	45,901	49,760	54,456	53,881	55,241	59,263	67,615	63,779	48,974	25,852	27,217	26,109
Louisiana Tech U.	261	20,752	21,641	20,265	18,983	17,088	17,744	16,639	17,079	18,089	19,760	20,371	20,780	21,384	25,668
Tuskegee U.	262	14,258	14,321	13,188	17,094	24,066	20,704	16,508	16,508	13,402	20,562	20,973	21,355	21,897	25,608
U. North Carolina, Greensboro	263	12,818	16,230	12,590	12,629	15,735	16,673	16,129	14,416	14,374	16,500	15,364	18,992	22,203	25,293
Rutgers, State U. New Jersey, Newark	264	25,953	31,714	31,287	29,110	23,235	19,913	18,412	21,586	23,190	21,291	23,118	20,252	23,306	25,098
Montclair State U.	265	1,368	3,373	4,470	4,005	3,342	3,433	4,250	4,006	4,965	7,960	10,604	11,470	20,806	24,994
U. Minnesota, Duluth	266	20,237	22,301	20,863	20,818	21,122	26,958	26,949	24,452	24,693	26,859	25,634	23,276	22,937	24,952
Texas A&M U.-Kingsville	267	14,213	14,572	14,824	15,308	18,371	18,170	18,849	19,360	18,443	19,537	20,568	21,280	21,858	24,950
CUNY, Queens C.	268	16,233	22,831	22,067	18,601	22,053	18,332	18,538	15,522	15,969	17,643	15,606	14,946	21,027	24,716
Central Michigan U.	269	3,229	5,865	8,190	9,996	11,506	9,725	10,304	11,521	13,406	15,607	16,050	20,390	24,004	24,000
Eastern Virginia Medical School	270	44,420	36,569	37,745	44,183	43,917	42,296	32,550	28,671	30,010	27,064	20,870	19,415	22,165	23,991
California State U., Sacramento	271	11,673	13,822	12,056	12,444	11,783	16,585	17,705	17,647	18,017	20,279	21,425	20,072	20,388	23,729
Villanova U.	272	9,191	9,281	7,831	6,931	11,645	12,208	12,934	15,189	16,376	18,225	20,414	19,197	18,882	23,728
Albany Medical C.	273	22,953	20,876	17,735	15,093	16,093	18,043	20,166	20,443	21,187	23,028	23,510	22,443	22,297	23,259
Northern Illinois U.	274	23,353	17,672	18,147	18,866	15,165	13,660	16,515	12,565	18,965	18,337	16,675	19,357	20,720	23,087
Clarkson U.	275	18,289	17,772	14,787	12,009	13,642	13,194	12,799	14,180	15,780	16,211	14,095	15,512	19,365	22,822
Miami U.	276	14,561	14,795	21,151	17,875	16,035	14,904	14,111	15,482	17,120	19,280	21,808	23,045	22,655	22,282
Loma Linda U.	277	32,915	37,169	29,762	29,799	23,120	25,417	22,956	21,846	19,537	17,621	15,705	13,788	15,498	22,257
Meharry Medical C.	278	27,001	29,055	25,559	22,532	18,997	13,998	14,768	16,782	16,980	18,286	13,870	15,840	17,960	22,002

TABLE 80

Higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023					
Tennessee State U.	279	11,253	11,961	14,108	15,149	19,437	19,208	18,324	16,247	16,355	14,376	25,478	21,796	i	17,825	21,880				
California State U., Northridge	280	16,747	9,795	15,619	9,466	12,628	12,053	12,471	15,336	17,036	18,758	19,405	15,220		17,724	21,829				
U. Guam	281	5,555	5,477	5,975	5,873	6,790	5,919	7,351	8,803	11,053	12,001	12,674	17,212		19,708	21,815				
U. Puerto Rico, Rio Piedras	282	27,780	30,139	31,877	26,755	26,656	26,544	22,610	17,600	13,889	18,019	17,888	19,797		22,159	21,289				
U. North Carolina, Wilmington	283	20,618	19,961	17,015	15,490	12,212	13,166	13,597	14,000	15,058	16,039	15,005	15,051		17,634	21,273				
U. Akron	284	47,558	52,881	59,765	62,331	64,270	54,089	57,351	39,566	31,789	29,090	22,595	16,747		19,449	20,778				
Southern Illinois U., Edwardsville	285	30,958	33,318	25,608	24,594	17,215	18,248	17,243	15,559	16,914	15,513	14,260	13,603		18,193	20,557				
South Dakota School of Mines and Technology	286	28,572	32,010	18,991	12,156	10,472	14,970	15,396	15,541	15,092	12,973	14,490	15,746		20,061	20,337				
U. of the Virgin Islands	287	31,272	21,373	i	24,543	i	18,374	i	14,732	i	19,456	21,215	12,031	11,853	11,668	13,622	15,231	20,259	20,259	
U.S. Military Academy	288	19,763	i	12,314	11,702	11,612	13,247	13,135	12,281	7,247	6,313	6,432	11,872	19,040	20,439	20,247				
East Tennessee State U.	289	9,185	9,496	10,657	8,506	6,954	6,173	7,680	9,146	13,694	i	13,903	i	13,618	i	17,396	i	22,453	i	20,068
U. Tulsa	290	22,690	18,703	19,895	21,186	26,460	24,135	21,347	20,567	19,797	18,180	18,487	16,426		16,456	19,901				
Charles R. Drew U. of Medicine and Science	291	22,152	22,150	20,580	18,250	20,686	14,128	13,360	15,652	11,490	13,739	13,682	13,228		14,581	19,551				
Alcorn State U.	292	10,280	11,397	11,515	11,315	10,060	9,396	8,204	16,129	13,834	14,435	13,710	14,188		16,664	i	19,141			
Tennessee Technological U.	293	16,152	11,809	9,138	8,705	9,410	9,804	9,776	11,467	12,227	13,107	13,613	14,616		15,248	19,054				
U. Alaska, Anchorage	294	11,328	12,380	13,004	13,022	15,112	15,396	18,382	18,646	19,254	20,655	22,123	20,590		19,625	18,767				
California State U., Long Beach	295	14,762	14,006	i	13,250	i	12,494	9,746	8,108	14,175	16,993	18,408	17,459	15,900	14,210	15,781	18,622			
Jackson State U.	296	38,114	39,867	38,027	32,119	24,132	22,163	22,408	21,272	18,972	18,057	14,979	14,822		16,118	18,585				
Tarleton State U.	297	9,931	9,720	8,646	7,854	9,961	8,956	8,880	10,250	11,960	11,566	12,253	14,688		16,794	18,544				
Montana Technological U.	298	7,424	6,705	11,765	11,059	11,348	11,595	11,851	13,059	12,666	12,731	12,987	14,933		14,188	18,375				
Prairie View A&M U.	299	12,557	15,226	14,523	13,174	12,248	12,932	12,511	13,455	14,766	15,538	16,103	14,867		17,361	18,127				
California State Polytechnic U., Humboldt	300	7,505	9,520	9,464	7,999	8,242	11,173	16,084	15,914	14,983	14,891	13,899	13,649		14,985	17,630				
CUNY, Advanced Science Research Center	301	na	na	na	na	na	569	ne	3,293	5,462	8,300	11,226	15,400		16,499	17,274				
Idaho State U.	302	19,234	21,047	20,764	21,476	19,962	17,540	20,305	18,398	17,659	14,560	14,232	13,746		16,361	17,255				
U. West Florida	303	4,079	3,551	2,559	4,004	5,080	5,180	12,310	12,461	15,710	12,173	11,122	11,069		14,445	17,168				
New York Medical C.	304	28,400	27,316	23,277	20,243	17,908	17,653	17,311	15,637	i	8,141	i	19,398	i	20,137	18,872	16,461	17,113		
Kennesaw State U.	305	1,401	1,374	1,738	i	2,100	1,881	1,316	6,279	7,728	8,006	10,320	14,555		14,161	16,128	17,046			

TABLE 80

Higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
California State U., Fullerton	306	11,147	14,330	11,094	10,230	7,104	5,318	5,029	4,890	5,724	6,017	5,457	6,363	12,400	16,880
Florida Institute of Technology	307	11,427	9,749	9,187	9,195	10,564	i 11,201	15,196	18,040	16,343	16,847	17,276	22,238	16,928	16,618
U. Colorado Denver ^c	308	na	na	na	na	na	na	na	na	na	na	na	13,067	13,123	16,471
New School	309	3,167	3,277	3,695	5,919	3,843	5,254	15,747	11,123	8,112	9,179	9,255	10,162	12,593	16,294
North Carolina Central U.	310	6,870	9,043	10,573	8,190	10,158	10,971	10,539	11,689	11,299	13,352	13,699	11,840	14,414	16,024
Texas Christian U.	311	3,815	3,841	5,105	5,342	5,132	5,095	4,053	4,330	3,279	4,291	13,590	13,075	15,427	15,622
Fort Valley State U.	312	4,586	3,850	3,665	3,688	4,547	4,320	5,138	5,374	3,916	4,562	4,921	4,842	9,969	15,536
Xavier U. Louisiana	313	8,022	9,836	10,606	8,789	9,335	9,588	12,060	12,372	11,586	9,999	11,335	12,660	14,141	15,497
Texas Southern U.	314	4,744	4,255	4,424	5,518	2,855	3,089	3,764	4,702	2,637	4,893	8,600	7,880	10,576	14,972
Alabama A&M U.	315	30,297	28,813	i 28,573	i 28,335	i 28,095	i 27,855	i 23,784	i 19,887	i 15,989	i 12,089	i 8,237	i 8,725	i 9,225	i 14,790
Missouri State U.	316	7,737	5,576	4,340	3,879	3,677	3,516	3,027	3,104	4,391	5,669	13,020	9,994	11,156	14,654
Bowling Green State U.	317	8,030	8,834	8,426	12,808	8,630	6,263	10,999	9,374	9,570	10,112	11,699	12,417	13,363	14,301
U. Hawaii, system office	318	ne	ne	ne	ne	ne	ne	ne	ne	12,340	12,159	13,568	12,918	12,645	14,172
U. New Orleans	319	25,932	23,290	22,275	19,790	17,182	16,980	14,551	13,436	12,148	12,713	13,686	13,398	14,689	13,417
Northeast Ohio Medical U.	320	10,819	13,581	13,358	12,722	15,916	17,103	18,823	19,216	18,218	18,007	15,756	13,853	13,465	13,095
Long Island U.	321	630	i 672	i 671	i 676	ne	ne	611	1,602	1,731	4,858	10,148	10,652	13,678	12,967
Midwestern U.	322	3,596	4,022	5,200	6,292	7,310	8,560	7,732	9,207	10,173	10,343	10,479	10,961	11,069	12,725
Western Washington U.	323	6,630	7,738	6,501	6,577	6,768	7,619	7,997	9,294	10,912	9,896	10,315	11,045	11,769	12,716
U. Puerto Rico, Mayaguez	324	25,536	33,509	31,143	28,041	25,920	26,986	24,908	25,328	23,764	26,092	25,896	16,322	15,914	12,645
Oklahoma State U., Center for Health Sciences	325	4,398	2,815	2,122	2,137	1,805	1,625	1,924	2,374	2,497	5,339	8,342	7,752	8,307	12,481
U. Tennessee, Chattanooga	326	8,786	7,308	8,865	5,928	4,627	5,318	3,962	4,814	5,834	7,337	9,060	9,380	10,514	12,270
U. North Florida	327	6,316	8,773	6,620	4,126	2,657	3,160	4,366	5,059	5,666	5,439	5,490	5,358	9,051	12,227
Duquesne U.	328	12,078	13,603	12,858	12,385	13,019	13,767	14,211	14,396	14,121	13,176	13,851	7,589	10,379	12,074
Texas Tech U., Health Sciences Center, El Paso	329	ne	ne	ne	ne	22,634	18,186	16,674	15,526	12,145	11,649	10,294	10,555	13,073	11,829
Towson U.	330	3,002	3,570	2,529	2,795	2,265	2,200	1,945	2,593	3,033	3,245	3,259	3,290	6,225	11,822
Virginia State U.	331	6,907	8,094	10,060	9,213	8,175	7,657	7,948	8,053	8,674	9,223	7,826	8,784	10,152	11,738
Rosalind Franklin U. of Medicine and Science	332	12,426	14,261	15,587	17,401	17,794	16,604	16,760	17,006	16,765	16,126	14,601	13,805	12,988	11,629
James Madison U.	333	6,858	7,075	8,428	5,539	4,516	3,700	3,283	3,108	3,859	4,968	6,169	8,687	11,045	11,620
Kentucky State U.	334	4,887	4,559	6,843	5,580	5,694	6,017	7,060	8,151	i 9,125	8,432	7,963	8,756	9,280	11,591

TABLE 80

Higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
California State U., San Bernardino	335	2,630	i 7,266	7,472	10,872	12,572	14,342	9,725	10,319	11,535	12,419	7,415	7,999	8,321	11,449
Clark U.	336	5,237	6,032	7,041	5,481	5,644	6,357	6,404	7,408	7,650	9,426	9,795	7,750	8,570	11,293
Central State U.	337	3,060	3,694	3,490	2,769	2,025	1,508	1,643	2,008	3,615	3,766	6,107	8,751	10,274	11,123
U.S. Naval Academy	338	11,093	10,543	9,156	10,476	10,661	9,609	11,364	13,524	14,057	13,481	12,827	10,747	10,664	10,920
California State U., Fresno	339	8,117	8,296	8,283	7,117	7,303	7,248	7,431	7,228	8,414	8,241	8,347	8,284	12,062	10,809
U. Maryland, Eastern Shore	340	8,692	8,664	7,265	8,786	8,982	9,631	8,175	7,403	4,941	7,128	8,092	8,636	9,274	10,730
California State U., San Marcos	341	5,049	5,044	i 5,040	i 5,034	4,470	i 4,637	5,212	4,962	7,185	9,446	11,918	9,220	8,384	10,654
U. Missouri, Saint Louis	341	10,050	12,344	12,840	13,156	14,632	9,991	10,876	10,411	10,708	12,865	12,676	11,484	10,179	10,654
California State U., Monterey Bay	343	5,305	6,959	6,567	6,129	4,780	5,459	5,679	5,384	5,702	6,192	5,763	6,844	8,914	10,549
Langston U.	344	4,492	5,206	5,326	4,932	8,512	8,126	10,941	10,592	i 10,459	i 10,326	13,954	6,090	6,248	10,331
U. Michigan, Dearborn	345	6,377	7,025	5,720	6,419	7,744	7,179	7,050	7,664	7,411	8,092	8,141	7,174	7,766	10,247
Clark Atlanta U.	346	8,515	8,205	10,405	9,156	9,172	9,929	8,482	7,948	7,810	8,508	8,259	8,712	8,779	10,113
West Texas A&M U.	347	5,741	4,307	4,346	4,122	3,663	3,924	3,776	4,690	4,441	5,021	5,488	9,014	8,744	9,732
Illinois State U.	348	5,622	5,492	4,852	5,155	5,212	5,042	5,586	4,658	5,157	6,584	7,128	7,664	7,811	9,687
California State U., Los Angeles	349	7,178	8,682	6,876	7,192	4,881	4,461	4,860	8,031	9,487	12,083	i 10,188	8,892	9,320	9,417
Hampton U.	350	14,455	12,292	15,290	12,620	11,153	14,767	13,572	15,908	13,669	12,943	10,842	11,181	11,049	9,398
Gallaudet U.	351	4,975	4,404	4,305	4,468	3,457	3,543	4,014	7,060	7,046	3,255	2,904	6,116	6,087	9,124
Western Kentucky U.	352	9,527	8,003	10,259	8,744	7,398	6,936	7,480	9,062	8,003	7,872	7,022	6,092	7,103	8,458
Ball State U.	353	4,780	9,159	4,701	3,616	4,364	4,810	5,689	5,215	6,412	7,025	6,771	6,262	7,404	8,379
Lamar U.	354	5,316	4,685	3,570	2,564	2,439	2,218	1,824	3,359	3,316	3,196	2,339	3,154	4,222	8,360
Fordham U.	355	5,212	4,494	5,624	6,704	7,086	6,352	9,477	8,429	7,336	6,623	5,472	5,479	7,554	8,263
Lincoln U., Jefferson City	356	8,475	8,518	7,899	6,585	6,742	6,296	5,826	5,164	4,215	4,581	5,777	7,621	11,500	8,195
U. Hawaii, Hilo	357	11,567	5,927	14,841	11,607	9,242	14,431	11,216	6,976	7,048	6,818	6,957	7,379	7,955	8,098
Sam Houston State U.	358	6,045	2,637	3,643	3,225	3,235	2,804	3,170	3,408	5,622	6,180	5,758	6,422	7,790	8,047
California State Polytechnic U., Pomona	359	4,040	4,737	4,599	6,702	i 5,349	4,513	5,254	5,732	7,538	5,323	7,151	6,878	7,000	8,034
Abilene Christian U.	360	625	486	ne	ne	ne	ne	ne	ne	ne	ne	ne	4,412	6,073	7,941
Southern U. and A&M C., Agricultural Research and Extension Center	361	ne	6,143	8,122	5,530	5,606	4,761	4,704	5,000	i 5,296	5,448	4,475	6,164	7,048	7,764
Rutgers, State U. New Jersey, Camden	362	2,573	2,792	2,278	4,923	4,691	4,440	4,192	2,912	2,050	1,889	3,351	3,883	5,192	7,756

TABLE 80

Higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Wesleyan U.	363	7,599	9,356	8,162	7,280	6,017	6,330	6,760	7,589	8,529	7,714	5,971	5,596	7,234	7,686
Edward Via C. of Osteopathic Medicine	364	ne	2,453	2,576	4,992	2,633	2,237	5,692	8,119	7,601	7,225	7,475	6,629	7,121	7,597
Florida Gulf Coast U.	365	3,841	3,611	3,190	2,943	2,150	1,967	2,112	1,888	1,742	1,470	3,454	5,057	6,017	7,504
Philadelphia C. of Osteopathic Medicine	366	1,278	2,401	1,898	2,614	2,209	2,561	2,458	2,969	3,059	3,162	3,360	6,186	6,667	7,459
Appalachian State U.	367	2,550	3,498	4,196	2,877	3,977	3,507	2,868	4,318	3,387	3,060	4,141	3,650	6,301	7,391
U. Arkansas, Pine Bluff	368	8,343	9,415	9,073	8,909	8,198	8,425	8,873	8,136	8,314	9,005	8,527	8,713	7,506	7,284
U. Arkansas, Little Rock	369	9,754	11,320	10,245	11,994	7,055	6,276	6,971	6,050	7,079	9,134	8,883	6,896	6,734	7,225
Arkansas State U., Jonesboro	370	11,043	13,339	14,064	10,320	7,956	8,391	8,158	7,936	8,238	8,906	8,637	8,379	8,141	7,209
Pepperdine U.	371	239	1,134	1,455	1,107	1,298	1,725	1,820	897	691	1,025	1,153	1,564	2,693	7,164
CUNY, Brooklyn C.	372	6,266	8,706	8,485	7,631	8,232	8,553	9,205	6,748	6,054	6,299	6,518	5,768	5,432	7,070
Pennsylvania State U., Behrend	373	2,500	2,724	3,169	3,041	4,156	3,614	5,104	3,598	2,617	3,268	1,713	5,102	5,905	7,067
Amherst C.	374	2,622	3,230	3,618	4,007	3,171	3,401	3,072	3,105	3,546	5,380	3,991	4,226	6,454	7,054
Saint Joseph's U.	375	1,957	1,840	1,704	937	569	650	911	1,316	1,255	1,688	1,748	1,398	7,309	7,015
Loyola Marymount U.	376	1,364	3,938	2,369	2,285	3,610	3,286	4,168	4,075	4,120	4,322	4,489	5,436	6,028	6,816
South Carolina State U.	377	7,166	8,157	9,149	6,674	7,838	9,002	12,077	13,254	14,021	3,010	4,340	5,141	5,943	6,747
U. New England	378	3,560	4,016	5,217	6,637	7,456	7,360	7,289	7,817	6,668	7,346	6,881	6,229	6,641	6,740
Middle Tennessee State U.	379	3,370	2,825	5,491	3,384	1,522	1,965	3,971	4,092	3,735	4,474	4,780	14,240	14,731	6,658
Pacific U.	380	1,567	927	481	2,387	1,094	978	1,509	5,299	4,156	6,607	4,540	3,767	4,714	6,648
Yeshiva U.	381	314,240	281,334	289,027	271,166	306,826	306,174	46,130	3,258	3,302	2,420	2,763	4,083	6,188	6,621
Texas Woman's U.	382	2,155	2,576	3,196	2,067	1,970	1,812	2,635	3,130	3,265	2,996	3,238	3,850	4,658	6,620
DePaul U.	383	4,302	5,256	5,344	4,828	5,681	8,506	8,590	7,590	6,325	5,241	5,754	5,293	6,129	6,565
U. San Diego	384	2,567	2,340	2,485	2,552	2,873	2,332	2,566	3,543	3,491	3,742	3,900	3,774	5,114	6,538
CUNY, John Jay C. of Criminal Justice	385	4,354	4,125	5,001	3,799	3,726	3,515	3,252	3,738	5,893	2,986	4,557	1,908	4,881	6,496
Claremont McKenna C.	386	4,788	4,425	5,365	5,414	5,463	ne	6,054	5,818	5,299	5,923	5,403	4,204	5,545	6,483
U. Central Oklahoma	387	1,786	1,537	998	1,058	1,207	1,619	1,214	1,054	1,228	1,429	1,422	1,489	5,712	6,357
Kean U.	388	ne	550	1,191	473	ne	1,064	400	ne	ne	ne	1,076	393	4,158	6,277
C. Charleston	389	11,422	6,446	7,217	8,078	7,121	7,327	6,955	6,740	5,450	5,206	4,142	5,109	5,229	6,207
MGH Institute of Health Professions	390	ne	587	ne	ne	ne	3,931	2,228	1,839	2,957	3,494	3,014	2,500	4,628	6,200
Salisbury U.	391	844	880	2,689	2,587	3,677	4,180	4,523	3,679	4,867	4,870	4,432	4,956	4,352	6,177
Roseman U. of Health Sciences	392	ne	840	ne	ne	3,021	3,287	3,433	4,167	3,973	4,176	4,380	5,893	6,285	6,065

TABLE 80

Higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023							
U.S. Army War C.	393	ne	ne	ne	ne	ne	ne	ne	ne	ne	2,146	i	ne	4,662	i	5,496	i	6,035	i			
California State U., East Bay	394	1,312	1,644	1,039	934	ne	ne	837	ne	ne	ne	5,515	6,104	7,450	6,032							
Eastern Michigan U.	395	5,388	5,044	5,428	2,655	1,244	1,509	2,642	3,467	3,637	4,706	6,584	4,842	4,509	5,826							
Grand Valley State U.	396	4,968	6,296	i	7,624	i	8,954	7,934	7,213	6,595	6,268	6,729	6,204	6,354	6,315	6,183	5,818					
New York Institute of Technology	397	1,785	1,934	2,056	3,214	4,916	3,507	3,846	3,094	3,663	5,705	3,473	4,389	5,477	5,778							
Barnard C.	398	3,240	3,916	3,611	2,893	2,403	2,562	3,103	3,108	2,938	3,539	3,449	4,124	4,693	5,755							
U. Colorado Colorado Springs	399	8,805	6,935	3,996	3,688	4,312	5,962	5,679	5,611	4,730	3,440	4,385	4,495	6,780	5,740							
U. Southern Maine	400	3,125	7,236	13,682	11,527	6,723	i	5,095	i	3,465	6,550	6,696	6,058	5,180	5,341	5,298	5,729					
Bryn Mawr C.	401	4,482	4,807	6,247	5,429	5,329	6,369	6,136	6,270	5,708	4,971	5,508	4,803	5,539	5,676							
Seton Hall U.	402	3,030	5,560	679	691	688	736	825	850	724	810	539	1,003	1,206	5,672							
Oregon Institute of Technology	403	ne	258	ne	ne	ne	788	4,027	3,537	i	3,145	i	3,357	i	2,968	i	4,314	i	5,086	i	5,585	i
U. Washington, Tacoma	404	106	142	261	23	1	1,812	1,784	971	2,105	3,052	3,179	3,862	4,922	5,467							
Morehouse C.	405	7,704	8,280	i	8,856	9,169	6,973	5,836	4,199	3,663	4,365	4,427	4,686	4,102	5,056	5,371						
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	406	ne	2,342	2,562	2,979	3,356	3,089	3,177	3,285	3,502	3,769	3,737	3,776	4,954	5,324							
Dakota State U.	407	ne	1,015	5,709	1,574	1,446	1,152	2,026	2,276	3,610	3,706	4,412	3,255	4,684	5,253							
West Virginia State U.	408	3,770	4,176	5,087	4,467	6,689	7,364	5,224	6,305	6,535	5,763	5,775	6,438	6,703	5,226							
U. Northern Colorado	409	2,029	1,801	2,012	2,174	3,252	2,670	2,866	3,220	3,722	3,157	2,362	2,309	2,402	5,220							
California State U., Chico	410	2,710	2,288	2,430	2,833	2,284	1,676	2,152	1,474	2,298	2,562	3,671	3,634	3,571	5,218							
Purdue U., Northwest	411	na	na	na	na	na	na	na	4,920	4,695	3,111	4,415	4,260	4,619	5,196							
Bucknell U.	412	5,169	4,618	3,623	3,867	4,143	3,790	4,005	i	4,321	i	4,639	4,061	4,645	i	4,136	4,874	5,157				
Reed C.	413	1,904	1,839	1,837	2,395	3,091	3,050	3,213	1,415	2,607	3,240	3,662	3,682	i	4,525	i	5,154	i				
CUNY, Lehman C.	414	2,932	i	3,168	2,982	2,242	2,543	2,613	3,847	4,114	4,657	2,594	3,429	2,968	3,937	5,148						
Hope C.	415	3,552	3,605	3,320	3,367	2,719	2,932	2,811	3,213	3,011	2,694	3,157	4,429	5,496	5,082							
Smith C.	416	4,215	4,156	3,777	3,688	4,047	5,006	4,124	5,211	5,360	5,330	4,047	3,633	5,036	5,063							
U. Detroit Mercy	417	1,084	1,127	933	ne	1,305	1,872	3,649	2,737	4,577	5,170	4,756	4,422	5,092	4,986							
Western U. of Health Sciences	418	1,283	900	2,773	2,218	2,384	2,219	3,717	5,740	4,063	3,936	4,866	5,598	7,043	4,946							
Wellesley C.	419	5,271	4,130	5,253	6,156	6,537	5,653	6,896	5,489	4,896	5,076	4,957	4,701	4,514	4,945							
Santa Clara U.	420	3,812	2,327	3,082	2,201	2,772	1,654	2,038	2,026	2,182	2,220	2,569	2,790	3,566	4,905							
U. Central del Caribe	421	7,122	7,515	7,313	7,095	7,181	6,964	7,090	5,634	4,111	3,953	3,931	3,831	5,053	4,878							

TABLE 80

Higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Fisk U.	422	7,686	4,631	4,058	5,429	i 7,366	7,247	i 7,681	4,333	2,781	4,606	3,904	4,143	3,877	4,865
Williams C.	423	4,691	4,165	4,080	3,127	3,213	4,461	4,506	4,393	4,372	3,735	3,549	i 3,560	i 4,249	i 4,841
U. San Francisco	424	1,546	1,734	3,405	2,233	2,208	1,848	1,718	1,009	1,169	1,195	1,157	1,007	2,079	4,802
California State U., Dominguez Hills	425	2,743	2,780	2,894	3,088	1,384	i 1,035	1,460	1,105	1,582	1,563	1,810	1,985	2,931	4,795
Grinnell C.	426	1,797	1,072	2,001	2,603	2,336	2,091	2,055	3,174	3,798	3,655	2,921	2,129	2,841	4,786
Texas A&M U.-Commerce	427	2,147	1,316	1,550	1,758	1,606	1,972	1,409	2,250	2,558	2,428	2,544	2,031	3,574	4,742
Winston-Salem State U.	428	ne	743	1,280	436	ne	ne	1,069	1,175	1,289	1,468	4,378	6,890	5,678	4,727
U. of the District of Columbia	429	5,012	3,700	4,011	3,073	2,361	2,043	3,469	3,733	2,960	4,043	3,942	7,054	9,475	4,659
Occidental C.	430	2,154	1,803	1,592	1,634	2,177	1,426	1,907	1,764	1,432	2,458	2,657	3,523	4,068	i 4,638
Toyota Technological Institute, Chicago	431	ne	746	ne	ne	ne	2,543	2,710	2,880	3,251	3,681	5,887	4,967	4,470	4,636
U. Wisconsin-Superior	432	5,890	6,187	i 6,041	i ne	3,022	i ne	ne	ne	3,060	2,250	2,295	2,598	4,601	4,627
Hofstra U.	433	1,151	1,095	1,546	955	1,354	2,039	1,916	1,455	1,347	1,253	977	3,107	3,958	4,624
U. Wisconsin-Stevens Point	434	6,674	6,063	i 5,452	4,300	3,876	i 3,404	i 2,933	i 3,377	i 3,822	i 4,266	i 4,713	4,393	3,729	4,589
Spelman C.	435	2,740	1,833	1,874	1,366	1,185	1,035	1,291	1,227	1,673	2,004	2,136	1,886	2,409	4,558
Southern U. and A&M C., Baton Rouge	436	6,865	6,819	i 6,773	4,727	3,153	4,054	3,267	3,554	3,532	3,713	3,232	3,899	3,673	4,539
Norfolk State U.	437	5,944	6,930	8,336	6,179	6,780	5,122	7,196	7,237	6,877	7,935	7,121	4,308	3,234	4,508
Trinity U.	438	1,387	1,355	1,611	2,815	2,499	2,225	2,096	2,712	2,637	3,185	2,834	2,598	3,076	4,496
SUNY, C. of Optometry	439	3,529	3,738	3,466	3,637	3,481	3,906	4,169	3,304	3,120	2,968	3,477	3,460	4,497	4,423
U. of Health Sciences and Pharmacy in St. Louis	440	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	4,835	5,313	4,280	4,343
U. Northern Iowa	441	2,077	3,451	3,302	3,395	3,510	3,281	3,559	3,248	2,946	3,601	2,870	3,180	3,443	4,336
Azusa Pacific U.	442	ne	3,414	i 1,930	i ne	ne	3,953	4,996	4,330	4,207	2,731	3,609	2,466	1,891	4,296
U. Washington, Bothell	443	471	497	553	13	742	2,168	744	1,114	1,361	2,356	1,260	2,246	3,366	4,202
Alfred U.	444	4,181	5,946	5,377	6,014	4,156	5,064	3,735	3,197	3,628	5,153	2,780	2,660	3,477	4,154
Keck Graduate Institute	445	ne	2,313	1,920	2,357	2,132	1,708	1,660	i 1,598	i 1,536	i 1,474	i 1,412	i 1,350	i 1,282	4,059
U. North Carolina, Asheville	445	2,322	2,603	2,575	2,189	1,597	2,046	2,794	2,418	2,641	2,226	2,932	3,149	3,732	4,059
Swarthmore C.	447	2,381	2,364	2,684	2,744	2,657	2,215	2,310	2,643	2,690	2,795	2,540	2,396	2,883	3,999
Colgate U.	448	2,559	2,109	3,004	2,340	2,226	2,244	2,631	2,728	3,142	3,128	2,163	2,807	3,391	3,991
Sonoma State U.	449	858	787	ne	1,938	1,714	1,146	572	ne	ne	ne	1,459	2,878	3,456	3,985
Colby C.	450	1,515	1,528	1,709	1,571	1,475	1,573	1,639	1,643	1,948	1,641	1,390	1,133	2,081	3,946

TABLE 80

Higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Southern Connecticut State U.	451	0	899 i	1,034 i	632 i	2,472 i	2,058 i	1,406	1,481	1,684	2,756	3,526	2,867	3,303	3,912
CUNY, C. Staten Island	452	3,137	2,162	3,151	2,477 i	2,089	1,907	2,780	2,988	3,644 i	3,517	3,534	2,726	3,198	3,910
Coastal Carolina U.	453	2,383	2,035	2,232	2,411	2,079	1,750	1,585	1,875	1,629	2,042	1,903	2,062	2,955	3,878
Des Moines U.	454	855	924	ne	ne	929	ne	1,206	1,355	1,351	1,643	4,395	4,911 i	5,080	3,818
California State U., Channel Islands	455	ne	363	ne	1,101	3,324	1,640	1,282	1,002	1,170	1,517	1,399	2,262	3,292	3,791
Carleton C.	456	2,916	3,081	3,529	4,768	4,426	2,718	1,451	1,794	1,918	3,946	2,758	2,984	3,671	3,790 i
Pomona C.	457	2,377	3,115	2,694	3,364	3,412	3,234	3,447	2,787	2,425	2,239	2,582	1,878	2,327	3,763
Chicago State U.	458	1,598	2,014	565	ne	ne	ne	910	ne	1,154	894	ne	ne	3,701	3,756
St. John's U., New York	459	1,509	1,697	1,971	2,376	2,392	2,225	1,832	2,200	2,635	2,309	2,930	2,696	3,245	3,718
Central Washington U.	460	5,132	2,854	2,752	2,087	1,998	2,182	2,751	3,755	3,050	3,205	2,620	2,400	3,134	3,649
Harvey Mudd C.	461	3,214	3,830	3,507	3,531	3,088	3,204	4,302	3,706	3,717	3,292	2,850	2,328	3,295	3,633
Indiana U. Pennsylvania	462	767	967	958	337	414	ne	628	1,798	2,474	3,637	3,668	3,249	4,070	3,611
California State U., Bakersfield	463	2,083	3,130	1,115	2,380	2,254	2,857	2,725	3,751	4,633	6,612	5,902	4,608	2,696	3,590
Haverford C.	464	3,603 i	2,765 i	2,588 i	2,370 i	2,546 i	2,266 i	1,750 i	1,945 i	2,630 i	3,324 i	4,473 i	3,424 i	3,961 i	3,568 i
Western Illinois U.	465	1,210	1,524	4,514	1,983	1,349	778	ne	1,904	2,414	2,307	2,297	3,394	4,166	3,564
West Chester U. Pennsylvania	466	4,634 i	7,785	1,914	969	1,294	2,294	3,138	3,302	3,247	3,787	2,862	2,377	3,186	3,553
U. Baltimore	467	3,606	4,452	3,894	3,865	3,951	4,091	5,188	4,972	3,794	3,474	3,456	2,915	2,885	3,504
U. New Haven	468	ne	595	456	728	511 i	518	2,535	985	5,577	5,045	3,736	4,015	4,401	3,464
New Mexico Highlands U.	469	1,463	1,444	1,241	1,209	979	ne	1,111	1,023	952	ne	1,090	1,867 i	2,660 i	3,454
Northern Kentucky U.	470	2,188	2,214	1,970	1,641	1,867	1,715	1,650	1,517	1,429	2,025	2,411	3,266	3,777	3,437
Milwaukee School of Engineering	471	3,944	4,347	4,599	4,351	4,410	4,524	3,930	3,374	3,232	4,026	3,190	3,193	3,545	3,303
Texas A&M International U.	472	1,596	1,336	1,225	1,349	1,450	925	1,617	2,974	3,729	4,034	1,713	2,336	2,701	3,287
Austin Peay State U.	473	ne	1,603	1,358	1,413	868	863	556	955	1,191	1,169	1,974	2,083	2,391	3,240
U. Texas, Tyler	474	2,566	2,394	3,705	2,343	2,573	2,349	1,120	1,710	1,589	2,029	1,882	2,114	2,985	3,238
Youngstown State U.	475	4,518	4,625	3,533	3,713	3,410	3,331	2,333	4,416	4,435	4,368	3,996	2,290	4,074	3,237
Citadel Military C. South Carolina	476	ne	305	ne	ne	ne	ne	ne	ne	ne	ne	693	1,497	4,125	3,186
Murray State U.	477	3,384	3,713	3,341	2,179	2,053	2,341	2,092	2,438	2,860	3,676	2,993	3,757	3,345	3,169
Troy U.	478	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,589	1,394	2,271	3,127
Pennsylvania State U., Harrisburg	479	2,728	3,446	2,774	1,906	2,482	3,379	2,546	1,638	2,087	2,497	1,798	2,652	1,832	3,023

TABLE 80

Higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Alabama State U.	480	13,340	12,340	13,607	1,927	2,236	2,303	2,372	2,253	2,434	2,577	2,582	2,631	3,146	2,989
Pittsburg State U.	481	1,759	1,687	1,479	1,536	2,458	2,205	2,162	2,255	2,253	2,513	2,173	2,730	2,884	2,979
Christopher Newport U.	482	1,096	1,669	1,327	1,173	1,469	1,002	1,036	1,137	1,437	1,961	2,244	2,373	2,377	2,933
U. Nebraska, Kearney	482	1,441	2,137	948	1,234	1,275	1,216	1,588	3,011	2,091	2,636	2,524	2,867	3,196	2,933
Hawaii Pacific U.	484	ne	592	1,016	983	1,524	1,221	2,351	2,155	2,094	1,960	1,796	1,817	2,474	2,910
Franklin and Marshall C.	485	3,444	3,140	2,543	2,855	2,123	3,045	2,447	2,876	2,911	3,092	1,919	2,199	2,829	2,877
Touro U., California	485	999	1,196	1,993	1,772	3,067	3,106	3,466	3,122	3,233	3,543	3,539	3,475	2,290	2,877
U. Oklahoma, Tulsa	487	ne	ne	ne	ne	ne	2,554	3,107	2,667	3,868	4,003	4,591	3,432	3,939	2,865
Sul Ross State U.	488	2,970	3,101	2,296	2,159	2,528	2,187	1,908	2,498	2,934	2,352	2,068	1,811	2,325	2,841
Stephen F. Austin State U.	489	7,536	4,664	3,370	2,877	3,207	3,920	2,968	2,801	2,599	3,241	2,456	2,520	2,407	2,810
Bowdoin C.	490	2,532	2,633	4,277	4,025	2,950	2,873	3,079	2,200	2,506	2,677	2,554	2,112	2,290	2,809
Middlebury C.	491	2,284	2,358	3,015	2,083	1,371	1,574	1,822	2,043	1,822	1,657	1,720	2,927	2,467	2,742
Minnesota State U., Mankato	492	3,344	1,990	1,614	1,945	1,798	1,632	3,605	1,849	2,293	2,665	2,339	2,034	2,166	2,711
Claremont Graduate U.	493	5,068	1,100	6,200	7,030	5,907	5,252	4,598	3,944	3,290	2,634	4,365	3,281	2,820	2,698
Dine C.	493	ne	911	ne	ne	ne	ne	ne	ne	1,238	1,126	347	ne	2,091	2,698
Pace U.	495	2,413	2,709	3,306	2,914	3,570	3,436	2,946	2,847	2,148	2,384	3,077	2,346	2,154	2,695
Morehead State U.	496	1,882	2,000	2,064	2,376	1,433	1,420	2,089	2,564	2,223	1,624	1,862	1,735	2,880	2,658
Davidson C.	497	1,432	1,808	1,291	2,213	1,629	2,305	1,463	1,583	1,338	1,549	1,842	2,279	2,588	2,632
Trinity C., Hartford	498	1,292	1,449	1,675	1,369	1,654	1,217	1,217	2,496	1,423	1,579	1,309	1,720	1,473	2,608
Roger Williams U.	499	1,174	1,616	1,369	1,283	1,927	1,450	1,815	1,900	1,665	1,459	1,285	1,470	1,689	2,607
U. Wisconsin-Green Bay	500	1,128	984	991	998	1,003	1,010	1,446	1,364	1,353	1,936	1,849	1,752	2,516	2,606
SUNY, Buffalo State U.	501	1,889	2,532	2,970	2,099	1,971	2,355	2,195	1,868	1,905	2,009	2,208	1,935	2,120	2,603
Albany C. of Pharmacy and Health Sciences	502	3,074	3,496	2,639	2,637	3,200	2,520	1,789	2,561	2,730	3,381	3,765	3,687	2,276	2,594
C. New Jersey	503	809	420	ne	ne	ne	ne	ne	1,023	867	ne	1,389	1,828	3,301	2,578
U. Wisconsin-La Crosse	504	3,852	3,366	2,879	2,815	3,121	2,948	2,795	2,840	3,178	2,355	2,570	2,847	2,778	2,561
Eastern Washington U.	505	3,171	3,780	2,538	2,027	1,820	2,973	3,276	1,964	2,506	1,971	2,221	1,918	2,430	2,546
Lake Superior State U.	506	ne	752	ne	ne	ne	1,122	991	1,066	630	ne	ne	ne	2,056	2,545
U. Wisconsin-River Falls	507	438	272	ne	ne	ne	ne	ne	688	623	ne	712	837	ne	2,540
Saginaw Valley State U.	508	585	925	748	576	ne	838	804	978	1,584	2,750	2,301	2,386	2,316	2,537
National Defense U.	509	ne	ne	ne	4,906	6,712	4,832	5,720	5,723	2,219	2,155	2,583	2,586	3,420	2,494
New England C. of Optometry	510	1,457	1,751	2,237	2,172	1,234	1,077	980	ne	1,026	1,223	1,150	1,978	1,868	2,491
Fort Lewis C.	511	360	606	ne	ne	ne	ne	ne	ne	ne	1,460	1,370	1,906	2,192	2,466
CUNY, Baruch C.	512	1,860	1,342	2,143	967	900	1,379	2,315	1,843	1,736	1,987	2,243	2,297	2,222	2,458

TABLE 80

Higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023			
SUNY, Cobleskill	513	1,404	909	ne	844	ne	ne	ne	ne	ne	ne	ne	ne	1,211	2,441			
Marian U., Indianapolis	514	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	2,428			
Vassar C.	515	1,236	1,552	993	1,136	999	2,118	i	1,417	1,579	4,185	i	1,009	1,553	1,498	2,214	2,426	
Monmouth U.	516	2,195	1,956	904	ne	865	ne	900	ne	ne	1,294	1,729	1,667	1,928	2,413			
Suffolk U.	517	ne	847	477	748	757	625	714	i	884	i	ne	845	635	379	2,410		
Tougaloo C.	518	2,978	2,542	1,865	1,857	1,894	1,868	1,747	2,252	2,860	2,293	2,102	2,092	i	2,098	i	2,392	i
Sacred Heart U.	519	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	174	ne	2,391			
Stockton U.	520	ne	1,226	609	ne	1,155	1,297	759	ne	2,560	2,630	3,198	1,246	1,657	2,386			
CUNY, system office	521	ne	ne	819	435	652	828	820	444	2,940	1,713	1,470	1,664	2,860	2,318			
Franklin W. Olin C. of Engineering	522	ne	1,012	1,777	1,157	1,561	2,136	1,762	1,301	876	534	491	936	2,380	2,312			
Benedict C.	523	1,533	3,009	2,754	2,664	2,479	1,373	1,653	1,676	1,934	1,269	647	ne	ne	2,307			
Hobart and William Smith Colleges	524	1,320	1,355	1,120	2,042	1,100	654	ne	923	ne	1,846	2,007	1,886	3,084	2,256			
U. Richmond	525	3,243	3,051	3,302	2,602	2,921	2,484	2,559	2,532	2,301	2,311	2,073	2,117	2,347	2,248			
Skidmore C.	526	2,632	1,941	1,758	1,733	1,646	1,620	1,208	1,741	2,451	2,924	2,316	2,269	1,605	2,232			
California State U., Stanislaus	527	ne	1,419	i	1,758	1,104	892	1,078	1,108	1,326	1,371	1,435	1,769	2,056	1,883	2,229		
Virginia Military Institute	528	825	355	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,686	2,223			
Southeastern Louisiana U.	529	2,172	1,638	1,733	1,642	1,408	1,984	1,550	1,606	1,304	1,140	1,564	1,071	1,700	2,220			
Furman U.	530	2,202	2,023	1,889	1,994	1,513	1,748	1,864	2,029	2,015	1,628	2,079	1,776	2,617	2,193			
U. Louisiana, Monroe	531	2,869	2,801	2,439	2,753	2,267	1,640	2,430	2,297	2,123	2,359	2,349	2,135	3,087	2,173			
Wheaton C., Wheaton	532	ne	769	658	ne	850	532	ne	739	1,156	2,063	1,298	678	ne	2,133			
U. Wisconsin-Eau Claire	533	1,774	1,287	1,225	1,132	798	ne	1,170	1,557	1,136	1,468	1,275	1,777	1,594	2,125			
East Stroudsburg U. Pennsylvania	534	ne	250	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	860	2,100			
U. Central Arkansas	534	1,700	1,457	1,563	1,444	2,201	2,037	2,132	2,167	2,253	2,150	2,107	1,939	2,627	2,100			
U. Puerto Rico, Humacao	536	1,968	i	1,976	1,949	1,452	1,102	748	ne	ne	1,168	1,195	1,456	1,321	1,448	2,074		
Seattle U.	537	1,190	i	1,274	642	ne	1,500	1,975	1,610	1,177	1,368	1,128	908	509	1,078	2,043		
CUNY, New York City C. of Technology	538	133	284	ne	ne	ne	ne	ne	ne	2,358	2,576	1,902	1,029	1,524	2,038			
Bates C.	539	1,545	1,814	2,031	2,444	1,531	2,725	1,730	1,750	1,508	2,074	2,237	2,577	2,377	2,036			
Mount Holyoke C.	540	2,305	2,810	2,838	2,716	3,335	3,565	3,297	3,635	2,601	2,689	1,895	1,845	1,868	2,027			
C. Wooster	541	938	1,110	880	ne	1,135	1,135	i	ne	1,379	1,338	1,586	823	1,150	i	1,443	2,016	
Providence C.	542	895	758	ne	887	ne	1,311	1,151	997	1,186	1,016	1,060	755	ne	2,014			
Western Carolina U.	543	2,353	1,419	1,768	1,011	1,048	1,145	1,305	1,431	1,430	2,518	2,352	2,441	2,278	2,011			

TABLE 80

Higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Utah Valley U.	544	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,850	2,009
Florida Polytechnic U.	545	na	na	na	na	na	212	ne	ne	ne	1,981	1,071	1,166	1,566	2,002
Dillard U.	546	3,707	5,577	7,448	7,692	6,907	9,385	9,459	6,943	6,573	2,730	2,487	1,733	1,746	1,992
U. of St. Thomas (MN)	547	1,003	1,037	751	1,019	647	ne	909	929	1,344	1,395	2,047	4,471	1,936	1,983
U. Houston-Clear Lake	548	831	1,273	1,253	1,175	1,013	853	1,067	1,146	1,227	1,113	1,128	1,399	1,712	1,980
U. of the Incarnate Word	549	ne	302	ne	ne	ne	576	ne	ne	1,057	1,428	1,408	1,895	1,789	1,978
Bowie State U.	550	ne	1,910	1,739	1,422	1,761	1,497	1,507	987	1,100	876	1,368	980	3,112	1,977
U. of the Pacific	551	4,429	3,241	3,753	3,479	1,877	1,488	2,289	1,592	2,228	2,387	1,690	1,370	1,832	1,972
Black Hills State U.	552	1,741	1,568	1,909	1,983	1,322	1,197	1,722	1,297	918	1,254	1,439	1,204	1,907	1,943
Fayetteville State U.	553	2,188	2,378	1,771	2,050	2,499	2,092	3,040	2,502	2,501	2,224	1,985	2,272	1,745	1,940
Albany State U.	554	740	1,416	2,213	1,658	1,549	1,233	1,324	1,209	1,111	1,329	730	698	ne	1,920
Marymount U.	555	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,812	995	1,866
Ferris State U.	556	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,851
SUNY, C. Brockport	557	831	1,248	1,487	1,183	1,130	1,329	1,331	1,270	1,268	1,372	1,713	1,111	1,447	1,847
Northeastern Illinois U.	558	376	388	ne	ne	613	ne	ne	805	1,877	2,078	1,378	1,370	1,663	1,807
Purdue U., Fort Wayne	559	4,832	5,206	4,563	5,080	4,348	4,013	3,930	3,317	3,401	1,220	1,380	1,317	1,363	1,798
Lafayette C.	560	1,544	1,720	1,308	1,269	973	1,201	959	1,459	1,239	1,101	1,185	859	1,803	1,778
Marshall B. Ketchum U.	561	ne	ne	ne	ne	1,030	1,468	1,491	1,512	1,451	1,430	1,357	1,351	1,559	1,777
Hamilton C.	562	1,431	1,476	1,136	1,660	1,178	627	897	1,036	880	841	785	781	815	1,768
Alaska Pacific U.	563	434	518	ne	ne	ne	976	1,009	835	1,325	1,627	1,234	1,034	1,568	1,742
Palmer C. of Chiropractic, Davenport	564	4,693	4,861	4,507	3,774	2,736	1,698	1,510	1,189	1,600	1,650	1,900	2,233	2,050	1,725
U. Alaska, Southeast	565	1,620	1,147	1,107	1,241	1,484	1,588	1,725	1,621	1,640	1,341	1,257	1,176	1,570	1,723
SUNY, C. Plattsburgh	566	1,613	1,098	913	ne	1,008	1,087	1,020	1,003	1,604	1,649	1,419	1,229	1,043	1,722
SUNY, Geneseo	567	1,174	2,239	1,989	1,082	957	1,162	1,594	1,626	1,813	1,958	1,528	1,847	1,859	1,712
Savannah State U.	568	1,874	2,700	1,996	2,613	2,210	1,801	2,261	1,405	1,793	1,720	1,804	1,804	1,888	1,706
Colorado C.	569	543	751	701	398	896	1,423	1,003	1,346	1,294	1,053	828	686	1,527	1,701
Liberty U.	570	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,429	1,167	722	ne	1,685
Macalester C.	571	3,080	3,343	1,518	1,241	1,256	1,096	1,389	1,754	1,218	1,582	1,565	1,133	1,423	1,675
Union C., Schenectady	572	1,957	1,527	1,378	2,312	1,807	1,431	2,031	1,042	1,297	1,454	837	1,353	1,309	1,664
Colorado State U., Pueblo	573	413	364	ne	ne	ne	ne	ne	ne	ne	2,008	1,937	2,159	1,649	1,624
Lincoln Memorial U.	574	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,622
CUNY, York C.	575	ne	2,134	1,153	826	ne	315	ne	ne	ne	1,574	1,648	1,060	1,805	1,583
U. Texas of the Permian Basin	576	1,274	1,024	969	716	1,216	1,132	1,080	597	300	ne	939	2,268	2,374	1,561
St. Olaf C.	577	1,545	1,078	1,415	1,209	1,191	1,118	1,389	1,346	904	836	873	727	ne	1,547

TABLE 80

Higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Manhattan C.	609	498	521	ne	ne	ne	ne	ne	ne	ne	969	1,064	1,522	1,318	1,121
Western New England U.	610	ne	1,111	461	ne	ne	ne	1,254	551	ne	ne	ne	ne	2,052	1,115
U. Hawaii, Maui C.	611	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	857	ne	1,081
Indiana U., South Bend	612	1,037	992	1,098	1,271	1,413	1,514	1,385	927	785	ne	ne	714	ne	1,073
U. Illinois, Springfield	613	1,808	1,536	2,155	2,205	1,852	2,040	1,293	2,246	2,104	1,727	2,859	2,286	2,082	1,018
Saint John's U.	614	390	563	ne	763	907	745	909	738	568	560 i	531 i	773 i	892 i	1,016 i
New C. Florida	615	617	989	886	ne	863	ne	ne	887	ne	ne	ne	ne	ne	1,007
Elizabeth City State U.	616	5,366	10,229	3,811	3,843	2,434	1,837	1,670	1,323	978	ne	1,010	1,319	1,390	1,000
Lawrence Technological U.	616	3,103	3,158	1,471	1,666	1,393	1,962	1,449	1,490	1,068	975	875	673	948	1,000
Winthrop U.	618	ne	1,350	1,465	1,207	1,211	1,163	917	853	865	1,146	1,200	1,441	1,161	983
C. of Saint Benedict	619	ne	513	ne	738	769	662	854	660	520	512 i	487 i	742 i	856 i	975 i
U. Scranton	620	196	176	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	967
Connecticut C.	621	1,532	1,801	1,740	1,842	1,966	1,900	1,972	1,875	1,349	1,894	1,598	1,244	1,683	952
Robert Morris U.	622	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	844 i	933
Gettysburg C.	623	664	541	ne	ne	ne	ne	ne	1,014	1,407	1,525	813	ne	ne	923
U. Houston-Downtown	624	1,010	1,272	2,123	584	605	1,016	818	1,111	953	481	682	994	548	907
Canisius U.	625	221	205	ne	ne	ne	ne	ne	1,398	1,054	943	ne	1,036	1,160	905
St. Cloud State U.	626	2,326	1,992	1,489	1,418	1,511	2,148	1,576	1,676	1,694	1,435	1,040	1,179	716	891
Texas A&M U.-San Antonio	627	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,169	858
Fairfield U.	628	2,233	2,720	2,640 i	2,557	2,897	2,400	2,705	3,535	1,534	704	684	457	ne	851
Northwest Indian C.	629	2,271 i	2,557 i	2,590	2,760	2,503 i	1,575 i	ne	ne	1,649	2,201	572 i	683 i	791	846 i
Rhode Island C.	630	ne	2,316	1,569	1,167	907	1,396	1,259	960	776	809	1,438	1,629	1,367	839
Biola U.	631	ne	ne	ne	ne	ne	ne	1,959 i	2,024 i	2,124 i	2,262 i	2,323 i	2,433 i	2,641	828
Gustavus Adolphus C.	632	271	299	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	821
Willamette U.	633	1,161	1,161	1,825	1,484	1,183	1,643	1,054	1,345	1,543	895	665	810	1,238	818
Naval War C.	634	ne	ne	0 i	0 i	0 i	0	0	4,240 i	5,270	679	724	794	929	800
Radford U.	635	397	404	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	787
Drake U.	636	680	644	ne	863	ne	ne	1,147	759	563	485	ne	784	899	757
U. North Georgia	637	ne	ne	ne	ne	ne	ne	ne	331	544	551	363	596	951	733
Framingham State U.	638	ne	ne	ne	ne	ne	ne	ne	1,875	131	ne	2,317	1,502 i	1,115 i	728
Ithaca C.	639	1,046	963	1,079	1,141	1,079	836	ne	ne	ne	ne	1,129	966	909	716
Andrews U.	640	788	414	ne	ne	ne	ne	ne	ne	ne	1,048	970	772	ne	687
Indiana State U.	641	1,526	1,980	1,857	1,230	1,434	1,459	1,487	929	977	1,250	1,068	677	928	673
Central Connecticut State U.	642	659	1,083	1,248	1,416	971	1,106	1,198	873	ne	966	989	1,007	831	666

TABLE 80

Higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
U. Virginia's C. Wise	643	481	336	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,346	907	543
U.S. Coast Guard Academy	644	636	490	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	537
Southern U., New Orleans	645	0	310	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	536
Babson C.	646	ne	367	ne	ne	ne	ne	92 i	81 i	1,224 i	0 i	0 i	0 i	555 i	527 i
Lipscomb U.	647	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	289 i	302	ne	519
Eastern Connecticut State U.	648	ne	96	ne	ne	574	606	464	770	588	871	1,057	851	912	497
U. Puerto Rico, Ponce	649	ne	154	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	479
Bryant U.	650	ne	226	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	457
Johnson C. Smith U.	651	ne	ne	ne	ne	ne	ne	641	628	1,425	1,034	1,087	421 i	394	449
U. of Mary Washington	652	ne	563 i	90	ne	ne	266	ne	ne	336	280	449	436	423	445
William Paterson U.	653	574	753	ne	ne	ne	ne	803	1,592	3,691	4,424	4,972	4,000	3,939	366
Grambling State U.	654	993	2,085	1,523	1,327	1,165	1,098	1,454	1,554	1,343	927	855	1,238	1,137 i	347
Lincoln U.	655	1,118	951	1,622	965	ne	ne	ne	ne	645	ne	ne	ne	ne	342
Albion C.	656	ne	563	ne	ne	ne	ne	ne	807	738	753	866	847 i	562 i	276
St. Mary's C. Maryland	657	342	427	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	193
La Sierra U.	658	ne	661	ne	ne	283	280	471	228	147	213	180	6	81	91 i
Arcadia U.	659	511	788	618	ne	ne	ne	ne	ne	ne	ne	ne	285	ne	43
All other surveyed institutions	-	2,110,320	2,539,510	2,551,220	2,468,212	1,818,123	1,846,509	1,880,079	1,990,462	2,092,079	1,161,476	1,107,906	554,051	540,526	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

^a Johns Hopkins University includes the Applied Physics Laboratory, with \$2,333,049 thousand in total R&D expenditures in science and engineering fields in FY 2023.^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.^c The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.^d The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.^e The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.^f The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.^g Touro University, New York includes the Lovelace Biomedical Research Institute. In FY 2023, the Lovelace Biomedical Research Institute joined the Touro University System.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 81

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
All institutions	-	36,510,431	39,648,595	38,939,996	38,264,373	36,824,264	36,775,605	37,675,466	39,032,120	40,612,577	43,217,460	44,869,334	47,761,950	52,483,732	57,879,194
Johns Hopkins U. ^a	1	1,731,818	1,875,410	1,845,845	1,881,959	1,936,953	1,988,993	2,100,097	2,173,734	2,246,705	2,479,371	2,679,737	2,772,522	2,968,175	3,321,265
U. Washington, Seattle	2	809,433	921,399	876,941	869,623	849,713	851,573	893,050	912,856	955,518	958,103	987,195	1,000,152	1,033,866	1,149,114
Georgia Institute of Technology	3	370,532	426,088	482,349	520,754	510,422	548,063	567,100	578,107	646,317	708,682	780,894	838,185	926,720	1,067,031
U. California, San Diego	4	578,889	635,223	653,549	630,009	597,270	601,184	602,336	639,643	634,676	698,138	726,536	773,484	958,169	1,053,900
U. Michigan, Ann Arbor	5	729,779	801,194	773,766	802,114	733,779	728,712	780,080	822,436	841,158	879,954	877,379	882,167	961,590	1,031,416
Duke U.	6	513,469	584,161	585,636	580,416	556,847	558,566	574,738	622,174	644,179	708,544	706,023	775,046	900,220	972,765
Columbia U. in the City of New York	7	561,531	634,973	631,961	619,557	591,523	577,833	585,578	632,994	673,792	724,232	743,915	804,534	875,383	958,967
Stanford U.	8	576,553	633,287	607,578	625,144	608,342	645,633	668,578	684,928	685,871	713,688	725,942	785,118	835,331	917,274
U. Pennsylvania	9	626,816	689,571	656,425	623,939	606,115	597,791	638,336	653,405	671,796	702,747	705,791	776,072	853,506	915,098
U. Pittsburgh, Pittsburgh	10	581,148	647,060	620,070	601,358	565,409	554,658	575,281	612,754	643,129	671,380	682,715	719,750	810,167	912,113
U. North Carolina, Chapel Hill	11	541,910	592,541	597,629	614,627	601,933	577,574	624,131	657,879	681,581	701,623	685,851	727,045	796,847	872,134
U. California, Los Angeles	12	522,423	545,882	527,899	489,820	458,157	482,771	479,718	479,799	557,986	587,740	642,219	706,193	828,111	860,202
U. California, San Francisco	13	514,693	570,116	559,329	566,117	544,697	535,457	602,705	606,768	669,470	671,047	676,331	683,179	780,318	858,066
U. Maryland ^b	14	na	na	na	na	na	na	na	na	na	678,126	669,023	693,294	730,658	798,502
U. Wisconsin-Madison	15	522,473	568,389	557,688	533,220	522,251	506,910	548,247	552,983	555,666	594,094	617,902	631,320	720,984	792,977
New York U.	16	250,006	289,172	300,271	283,382	314,712	326,691	332,483	369,947	395,445	416,137	433,598	534,552	652,614	767,566
Pennsylvania State U., University Park and Hershey Medical Center	17	463,301	459,333	526,212	556,185	516,300	507,889	532,669	528,181	557,323	591,201	632,245	606,189	664,168	765,845
Yale U.	18	475,010	518,195	517,072	502,439	475,585	471,381	494,504	531,995	549,026	573,491	582,575	641,530	686,044	735,656
Washington U., Saint Louis	19	466,993	460,282	432,434	402,702	410,115	424,723	436,229	468,637	496,648	531,885	545,027	588,717	662,135	733,165
Vanderbilt U. and Vanderbilt U. Medical Center	20	377,185	434,213	430,445	432,752	408,743	390,701	395,505	442,669	456,599	470,774	492,333	567,490	644,964	725,882
Cornell U.	21	446,705	476,163	471,024	444,303	438,834	445,266	427,940	435,355	464,468	522,035	558,346	588,001	631,804	699,149
U. Minnesota, Twin Cities	22	420,102	482,639	480,531	489,318	483,542	468,482	462,570	448,814	455,294	483,898	503,414	562,697	643,362	693,128
Northwestern U.	23	356,193	393,449	385,377	389,757	385,888	385,868	424,638	438,732	464,689	497,740	527,958	569,875	615,163	673,622
Ohio State U.	24	384,633	471,331	416,304	425,547	416,177	406,941	418,887	427,154	439,594	465,081	505,626	523,826	594,323	664,435
U. Southern California	25	402,372	443,458	433,136	423,708	421,887	408,105	396,197	436,515	488,081	530,971	549,528	559,032	583,581	663,935
Emory U.	26	336,948	369,945	360,934	364,136	329,254	346,534	360,197	381,151	392,971	423,515	451,487	515,009	567,102	663,101
Icahn School of Medicine at Mount Sinai	27	302,770	296,835	271,722	277,517	300,667	329,641	342,104	367,522	398,656	443,745	480,452	554,582	610,646	658,916

TABLE 81

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Harvard U.	28	467,237	530,908	574,346	575,868	554,944	530,382	549,539	565,269	578,722	611,123	598,313	609,310	620,497	629,219
U. Texas, Austin	29	331,439	334,240	328,560	352,788	313,955	331,388	340,181	377,389	386,954	387,551	478,458	465,529	506,533	581,674
Massachusetts Institute of Technology	30	451,050	482,544	478,955	487,647	480,991	486,650	501,702	484,597	476,576	485,821	484,184	480,092	527,845	555,050
Texas A&M U., College Station and Health Science Center	31	276,977	281,063	259,506	302,356	298,489	291,714	281,015	294,602	316,771	342,390	501,396	512,130	484,899	523,912
U. Colorado Boulder	32	282,008	313,531	319,019	309,072	302,877	341,828	360,827	359,462	376,870	397,709	412,476	444,381	491,940	523,285
U. Florida	33	269,765	296,950	295,745	285,778	279,920	281,317	297,267	314,187	340,725	369,001	375,577	404,432	449,973	510,051
U. California, Davis	34	329,041	359,704	356,540	344,632	327,697	322,919	334,534	337,995	354,823	370,601	377,068	369,231	463,039	488,581
U. California, Berkeley	35	303,201	326,120	333,179	305,932	309,305	342,042	338,562	326,548	324,521	341,328	345,103	348,147	459,518	484,623
U. Colorado Anschutz Medical Campus ^c	36	na	na	na	na	na	na	na	na	na	na	na	363,331	429,452	473,777
U. Chicago	37	348,537	365,824	329,119	294,862	276,237	290,776	293,557	302,361	297,824	327,837	347,734	390,098	449,456	470,517
U. Alabama, Birmingham	38	320,704	340,342	303,677	286,873	276,112	325,008	346,190	356,303	370,401	395,910	397,206	421,209	418,667	450,260
U. Illinois, Urbana-Champaign	39	294,236	312,796	348,536	459,791	336,172	330,479	320,703	344,657	339,732	369,006	376,505	394,374	407,278	444,307
Baylor C. of Medicine	40	284,072	295,529	268,753	285,230	264,641	256,895	267,849	292,806	300,098	309,354	315,101	365,472	420,054	440,345
U. Arizona	41	307,038	324,751	328,369	334,680	286,595	265,878	259,443	269,201	287,852	323,060	325,621	350,487	371,931	430,516
Case Western Reserve U.	42	333,438	352,938	358,722	347,628	328,548	307,960	320,402	325,354	346,935	355,970	356,751	339,658	379,602	429,201
Indiana U., Bloomington	43	67,483	69,298	72,501	82,005	80,109	206,263	216,917	241,350	245,402	304,116	314,721	320,591	353,187	424,488
Michigan State U.	44	198,735	222,937	250,416	246,131	247,970	256,228	294,369	329,533	315,674	317,653	317,885	339,614	369,302	419,655
U. Utah	45	226,489	263,623	271,629	297,099	284,125	270,311	224,270	218,405	302,586	282,157	306,629	329,537	358,535	404,721
Uniformed Services U. of the Health Sciences	46	72,125	117,781	102,134	119,647	213,389	299,007	175,007	204,241	218,702	297,808	235,202	275,573	194,187	403,671
Boston U.	47	298,467	300,923	273,204	265,476	254,285	256,562	250,523	253,828	264,281	313,670	333,387	396,685	406,151	398,889
Rutgers, State U. New Jersey, New Brunswick	48	218,910	235,178	273,498	288,374	355,116	320,311	318,123	316,118	330,823	287,031	304,486	332,033	343,447	389,883
U. Cincinnati	49	261,982	286,003	266,507	256,816	243,705	250,457	229,761	239,659	246,400	249,656	283,059	306,411	347,321	388,399
Oregon Health and Science U.	50	247,054	268,777	242,219	244,867	246,050	243,876	230,608	243,495	264,492	298,227	321,572	329,016	346,724	374,043
Purdue U., West Lafayette	51	221,679	246,116	255,691	258,596	227,857	209,005	214,373	224,965	230,208	231,188	257,641	277,663	335,125	367,130
U. Rochester	52	321,258	337,312	307,390	298,781	265,686	261,023	265,430	267,040	283,973	305,325	295,154	308,426	332,302	366,309
Colorado State U., Fort Collins	53	205,890	230,661	245,573	213,355	206,958	213,685	227,624	232,405	257,355	276,173	276,863	296,067	310,004	345,867
U. Texas Southwestern Medical Center	54	232,027	231,639	207,513	198,114	185,137	183,787	185,263	200,085	197,910	203,544	242,679	257,611	298,154	336,126
U. Iowa	55	280,089	280,989	265,780	252,161	234,122	223,730	236,363	236,679	243,216	248,639	255,617	278,615	307,534	325,739

TABLE 81

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Utah State U.	56	89,750	112,611	107,054	106,074	114,075	119,811	124,981	137,295	158,576	219,912	241,433	263,341	278,857	319,552
U. California, Irvine	57	189,343	204,134	204,062	196,256	180,431	170,622	170,674	178,789	192,182	207,234	225,967	237,874	276,782	319,284
U. Virginia, Charlottesville	58	224,607	239,249	225,558	212,051	192,907	186,676	198,760	215,193	231,161	257,013	282,429	282,472	307,111	310,799
California Institute of Technology	59	325,751	340,131	322,295	272,223	276,447	269,156	260,489	272,323	268,765	278,846	309,386	287,810	322,107	310,262
Arizona State U.	60	164,890	178,153	182,188	190,066	186,126	186,890	200,280	214,845	244,795	253,530	262,377	256,875	288,495	305,566
U. Miami	61	196,435	223,870	222,535	204,315	202,818	192,691	194,346	193,549	191,408	211,493	223,774	230,632	264,366	290,607
Carnegie Mellon U.	62	179,136	200,878	209,307	215,560	198,247	187,259	190,620	189,974	181,958	197,927	217,481	234,743	259,034	279,333
Scripps Research Institute	63	313,746	317,201	309,471	308,628	292,268	274,097	242,489	250,090	267,088	267,122	243,502	272,181	242,135	278,099
U. Nebraska, Lincoln and Medical Center ^d	64	na	na	na	na	na	na	na	na	na	na	na	na	na	275,311
North Carolina State U.	65	137,124	152,790	171,464	174,440	177,722	196,058	197,261	213,544	214,440	224,471	227,964	234,181	245,159	274,398
Virginia Polytechnic Institute and State U.	66	161,636	187,269	181,371	197,462	198,092	191,080	190,975	181,379	195,140	206,208	208,952	214,291	231,144	267,405
U. Illinois, Chicago	67	229,131	245,323	243,622	219,473	201,646	192,930	175,302	188,730	189,322	200,926	215,990	230,140	243,243	266,285
U. Kentucky	68	167,192	175,801	157,813	148,758	140,450	145,097	152,708	168,347	168,968	189,860	197,848	218,566	250,152	261,030
U. Texas M. D. Anderson Cancer Center	69	206,664	236,400	196,753	182,971	158,986	161,171	155,044	166,552	173,206	176,156	186,488	217,073	225,659	259,285
SUNY, U. Buffalo	70	164,477	176,923	186,747	200,212	185,144	174,146	180,095	184,313	183,124	178,458	195,829	207,224	214,559	253,651
Woods Hole Oceanographic Institution	71	153,066	165,819	161,115	158,672	177,616	172,995	166,010	148,491	163,003	184,995	191,186	222,351	211,550	238,554
Brown U.	72	120,749	123,649	127,665	120,977	125,005	127,886	131,751	141,864	161,384	175,849	183,180	195,302	212,899	237,492
U. Connecticut	73	128,700	141,252	150,402	146,400	139,594	135,349	143,955	141,977	139,022	153,496	160,763	180,758	227,351	233,702
Albert Einstein C. of Medicine	74	na	na	na	na	na	na	188,521	188,259	196,457	202,513	204,635	214,619	220,780	230,151
U. Massachusetts, Medical School	75	178,293	208,244	202,149	189,159	183,582	183,588	181,446	200,232	194,953	197,388	192,938	248,873	258,147	223,490
Princeton U.	76	149,164	162,491	160,985	156,070	163,805	157,867	161,562	175,485	179,659	192,747	202,447	204,430	217,505	218,637
U. South Florida ^e	77	219,634	220,931	218,772	207,441	205,155	196,215	210,823	234,871	163,013	164,662	142,086	161,278	187,491	216,706
Oregon State U.	78	135,081	146,069	155,667	148,174	143,815	150,625	156,437	157,708	166,354	162,781	161,646	173,532	186,756	216,070
U. Dayton	79	72,567	69,847	64,369	66,396	63,881	74,548	97,635	112,584	130,488	152,545	153,215	180,479	201,898	214,292
U. Georgia	80	117,225	134,200	133,525	127,487	122,145	127,825	138,374	153,279	144,926	156,628	167,347	184,847	214,505	212,831
U. Oklahoma, Norman and Health Science Center	81	100,065	112,146	124,131	119,762	108,356	122,918	128,260	126,510	142,470	159,640	179,640	181,388	197,521	205,553
Wake Forest U.	82	159,084	173,004	172,779	156,506	153,069	148,084	140,651	147,746	154,031	165,439	166,480	188,809	180,681	204,460
U. New Mexico	83	147,003	161,950	159,302	155,684	151,082	151,619	153,100	159,583	167,315	156,865	158,882	239,587	229,987	202,786
U. Texas Health Science Center, Houston	84	150,324	156,790	146,424	144,235	136,145	125,890	121,098	124,461	128,232	132,647	133,624	165,139	184,205	197,759

TABLE 81

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
U. Delaware	85	102,637	112,523	110,760	114,048	111,933	109,258	108,378	113,031	113,582	128,651	139,682	152,665	189,374	196,590
Iowa State U.	86	108,181	116,109	117,144	120,934	115,285	113,443	124,242	125,607	145,241	145,541	161,153	160,520	179,143	190,704
U. Hawaii, Manoa	87	196,275	201,700	193,722	225,263	202,574	199,818	189,683	181,750	166,398	167,432	163,091	156,953	168,711	190,535
SUNY, Stony Brook U.	88	120,090	124,938	123,198	118,432	111,386	115,031	118,296	125,150	134,802	143,258	145,526	161,552	182,212	190,419
U. Missouri, Columbia	89	113,362	113,072	110,446	108,305	102,784	102,852	116,337	122,821	126,164	128,293	137,029	145,070	161,723	188,337
Washington State U.	90	105,333	115,775	120,146	119,921	112,568	121,627	122,275	133,308	131,229	137,424	135,023	162,455	163,595	180,467
Northeastern U.	91	56,727	65,757	75,733	82,587	77,401	78,379	78,668	90,190	109,443	122,663	131,752	138,641	144,322	178,863
U. California, Santa Barbara	92	127,696	132,490	134,984	131,392	119,816	114,596	114,884	113,173	110,065	115,569	121,120	119,203	159,694	177,990
U. Kansas	93	137,458	143,300	147,052	147,557	131,186	128,374	117,549	126,109	130,036	141,679	151,987	156,707	164,326	171,108
Medical U. South Carolina	94	131,650	143,464	136,907	127,472	118,649	117,255	124,212	134,072	142,639	153,226	153,802	162,394	163,395	168,957
Dartmouth C. and Dartmouth Hitchcock Medical Center	95	117,909	131,518	147,218	154,917	145,080	145,807	138,641	136,977	139,692	137,337	141,040	151,449	154,621	168,127
Florida State U.	96	127,571	136,332	131,998	132,583	140,995	133,569	118,294	118,359	129,435	131,472	141,229	127,509	139,147	164,251
Virginia Commonwealth U.	97	125,713	134,431	124,836	119,293	119,507	123,665	124,962	127,341	122,771	125,393	135,266	141,521	147,509	162,776
George Washington U.	98	120,844	115,463	111,068	119,441	139,148	135,667	138,735	144,567	153,412	152,562	154,026	158,475	159,372	158,866
Medical C. Wisconsin	99	121,750	133,929	125,325	116,765	111,241	109,542	108,529	108,276	111,273	119,036	128,783	136,385	152,301	155,403
U. Alaska, Fairbanks	100	97,889	103,677	97,472	92,602	83,483	78,985	87,829	95,467	93,562	91,405	99,572	126,247	152,929	155,206
Tufts U.	101	115,159	120,864	120,042	112,495	115,046	120,181	124,363	138,004	128,404	136,088	145,473	165,222	148,667	153,579
Tulane U.	102	106,021	110,222	101,130	97,873	94,287	84,143	89,028	93,747	102,090	104,187	107,216	113,434	126,990	151,749
Florida International U.	103	52,784	61,687	54,204	57,858	68,946	67,293	68,539	66,351	80,417	90,067	97,758	100,470	125,166	150,424
U. Texas Medical Branch	104	128,840	128,098	109,867	108,287	101,761	98,050	100,464	104,458	104,356	107,806	114,103	117,915	123,467	150,272
U. New Hampshire	105	76,191	96,552	109,728	92,778	89,640	83,106	89,457	85,714	87,854	84,599	94,554	95,579	127,040	150,165
U. Tennessee, Knoxville ^f	106	83,491	99,712	103,147	104,558	106,778	101,608	106,930	115,320	116,028	121,549	136,741	133,073	145,653	149,311
Temple U.	107	76,170	85,021	85,062	124,764	118,892	119,945	134,132	143,636	141,505	150,201	146,564	146,101	138,403	147,160
Mississippi State U.	108	105,224	97,987	96,132	73,834	70,615	79,181	86,570	87,435	88,365	103,546	119,093	114,492	134,780	146,812
U. Texas Health Science Center, San Antonio	109	121,723	121,200	106,177	99,198	89,303	85,940	89,742	85,455	86,956	96,502	102,959	106,824	119,071	143,730
Wichita State U.	110	13,633	15,425	14,267	10,161	8,100	6,397	7,947	19,507	16,522	26,633	50,042	72,487	91,757	140,006
U. Notre Dame	111	61,645	79,003	82,244	79,268	79,192	82,615	85,870	90,038	92,144	102,335	99,743	104,905	117,559	135,822
U. Massachusetts, Amherst	112	97,131	106,315	106,470	103,233	102,682	97,206	97,576	101,992	103,555	110,063	112,546	112,146	123,598	134,799
Montana State U., Bozeman	113	84,735	78,431	78,409	66,451	66,770	62,827	61,490	66,449	67,705	80,955	84,960	104,973	109,264	131,520
U. Vermont	114	98,588	101,465	87,843	85,028	79,727	83,733	83,124	78,383	86,936	90,378	97,676	103,118	116,827	127,790
Georgetown U.	115	119,509	122,802	113,229	113,703	99,567	87,268	82,819	93,224	88,778	93,004	98,138	128,798	126,625	126,993

TABLE 81

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
U. Alabama, Huntsville	116	71,461	70,197	75,715	83,396	73,913	66,564	68,882	68,259	74,315	84,689	103,599	116,441	131,443	125,243
Wayne State U.	117	131,418	133,925	125,965	118,217	112,608	108,221	109,460	106,865	107,791	114,349	108,536	111,708	122,454	124,307
Auburn U., Auburn	118	53,648	59,061	55,118	56,809	49,739	47,939	54,258	54,693	57,718	63,660	72,844	90,386	101,663	122,035
George Mason U.	119	59,591	61,016	57,504	57,154	53,775	54,113	50,687	52,432	64,315	91,377	99,332	99,910	113,443	121,120
Clemson U.	120	59,374	49,365	48,182	47,825	44,673	45,292	52,184	62,920	66,618	72,335	74,438	83,731	109,121	119,626
U. Central Florida	121	67,795	66,736	72,620	68,691	64,323	81,788	80,365	82,777	89,504	90,851	94,617	102,599	102,637	118,642
Rice U.	122	69,176	78,249	76,431	79,742	73,782	73,817	82,643	83,894	77,607	83,105	86,675	93,114	102,307	118,475
U. California, Riverside	123	58,159	59,351	61,304	57,032	56,327	62,642	69,924	75,920	75,990	79,666	90,235	95,480	112,776	118,426
U. South Carolina, Columbia	124	119,890	100,045	93,237	87,562	87,844	84,723	88,231	89,565	80,948	88,052	83,386	82,827	100,973	118,049
Louisiana State U., Baton Rouge	125	94,611	96,050	91,238	93,281	93,584	82,276	84,954	80,044	83,453	87,498	86,975	97,985	109,092	115,630
U. California, Santa Cruz	126	81,598	95,015	91,409	88,600	89,206	91,249	93,651	65,133	62,218	73,635	75,813	85,887	106,434	111,753
West Virginia U.	127	74,465	84,061	77,981	72,677	67,450	66,608	70,313	70,256	73,518	79,320	77,455	85,717	94,054	110,874
Thomas Jefferson U.	128	77,817	80,027	68,976	56,247	54,676	58,536	58,866	62,029	64,869	74,816	74,653	109,419	114,446	110,345
Rockefeller U.	129	88,705	97,710	84,616	80,384	81,820	81,949	80,667	86,763	87,231	84,566	86,280	96,318	94,693	101,422
Drexel U.	130	75,339	81,424	85,584	74,047	75,557	67,226	65,193	69,326	80,074	81,957	77,965	88,198	93,094	101,027
New Mexico Institute of Mining and Technology	131	42,243	37,316	29,894	23,581	33,168	19,975	16,657	18,271	19,437	22,771	22,598	24,642	70,570	98,627
U. Louisville	132	83,593	84,557	79,252	72,047	63,258	66,368	69,781	69,722	77,281	83,421	83,626	91,928	114,628	98,527
U. Rhode Island	133	60,963	77,668	78,194	70,900	61,836	61,085	58,438	59,623	61,135	69,913	65,860	76,992	90,118	98,450
U. Arkansas for Medical Sciences	134	72,217	75,924	69,883	64,856	55,556	50,603	48,999	51,298	57,523	63,498	70,508	83,387	95,080	94,483
U. Houston	135	50,148	57,090	54,657	57,569	55,574	54,516	58,085	57,263	62,134	66,848	68,987	73,234	78,687	93,713
Rush U.	136	51,304	57,978	57,512	57,063	53,501	52,193	50,332	51,532	64,178	68,941	65,343	73,279	79,647	93,180
U. Maine	137	48,270	59,644	39,428	33,903	50,338	35,033	34,125	37,189	45,206	49,832	52,755	63,250	81,887	90,464
U. Oregon	138	66,809	71,344	71,157	61,856	62,824	56,448	55,137	57,092	56,403	63,912	66,182	68,617	82,841	85,978
U. Maryland, Baltimore County	139	58,597	61,110	44,669	44,257	46,993	47,591	50,645	52,008	52,934	54,740	58,178	58,317	63,336	84,387
U. Nevada, Reno	140	58,115	55,374	55,150	53,898	50,904	49,977	51,630	53,438	59,879	60,967	63,827	76,240	82,904	82,563
U. Mississippi	141	69,031	72,456	72,855	62,816	63,070	58,797	63,372	61,232	62,721	72,731	80,923	74,055	81,102	81,694
Kansas State U.	142	66,400	74,414	73,247	67,524	64,565	66,632	67,863	72,321	77,730	78,878	76,164	74,930	78,508	78,561
U. North Texas, Health Science Center	143	25,847	26,132	26,627	24,187	21,943	22,422	27,163	26,368	27,579	27,260	25,917	32,464	55,062	77,660
U. Alabama, Tuscaloosa	144	25,945	32,387	32,515	27,963	25,477	28,029	27,019	24,344	27,660	33,233	37,198	46,389	59,703	76,827
U. Arkansas, Fayetteville	145	32,659	37,203	34,123	30,562	26,014	33,486	39,527	42,198	48,288	46,871	45,196	45,674	61,088	75,685
Georgia State U.	146	23,732	21,980	27,251	28,216	29,470	36,843	40,897	54,842	55,241	54,882	62,835	61,436	65,436	73,366

TABLE 81

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
New Mexico State U.	147	98,050	90,283	90,338	86,546	80,247	78,253	61,494	59,087	53,417	57,183	60,056	64,235	71,377	71,347
U. Montana, Missoula	148	40,116	38,176	35,590	33,825	30,164	33,617	38,726	44,465	51,975	52,919	58,745	66,840	68,546	71,116
U. Tennessee, Health Science Center	149	52,650	51,840	48,473	42,269	41,830	39,356	38,374	39,138	39,421	42,396	48,264	56,021	60,221	70,356
New Jersey Institute of Technology	150	47,832	52,873	57,513	55,017	51,853	50,554	63,322	64,840	78,313	87,588	82,331	71,860	67,189	68,786
U. Texas, El Paso	151	34,439	34,765	39,274	37,741	34,528	40,334	41,384	43,759	43,214	40,111	37,495	42,385	58,291	68,390
U. Wyoming	152	44,026	47,782	55,663	52,296	39,778	47,232	63,223	56,178	42,538	51,657	56,078	54,183	68,645	68,376
Colorado School of Mines	153	28,416	31,414	31,399	31,585	33,908	33,578	34,708	36,650	39,311	48,593	53,875	59,547	65,518	68,317
U. Texas, Dallas	154	30,019	32,355	34,088	31,903	32,096	30,776	34,532	35,244	39,010	47,443	55,225	57,778	60,073	65,580
Augusta U.	155	na	na	na	47,913	47,771	50,585	50,294	48,921	48,800	47,031	55,797	61,943	64,609	64,390
U. Louisiana, Lafayette	156	12,060	11,879	12,435	10,007	9,050	10,315	9,479	14,953	20,766	30,341	25,919	47,788	56,538	62,263
SUNY, U. Albany	157	123,404	124,848	112,161	113,736	104,861	78,824	74,092	82,551	84,561	91,225	66,162	55,478	50,471	61,824
Oklahoma State U., Stillwater	158	56,998	81,855	85,876	44,200	36,687	38,498	41,186	42,331	40,052	38,757	38,419	45,243	51,084	61,558
U. North Dakota	159	52,381	53,913	54,411	46,397	40,191	37,457	42,253	40,845	48,858	47,235	42,021	56,742	60,188	61,118
U. Idaho	160	45,082	52,812	53,765	52,430	49,423	49,591	50,083	48,879	47,475	48,462	49,818	49,306	54,581	60,143
San Diego State U.	161	53,746	59,769	51,690	45,175	44,807	43,526	42,062	37,226	37,873	37,595	39,049	40,387	51,047	59,822
U. Massachusetts, Lowell	162	24,475	26,802	25,670	25,441	25,874	28,998	26,499	28,078	28,982	33,948	40,037	46,970	60,222	59,386
Naval Postgraduate School	163	86,765	88,950	120,209	86,538	89,284	71,987	50,560	42,246	41,151	49,168	48,709	49,366	40,536	57,426
Texas Tech U.	164	32,680	32,881	27,698	25,153	26,161	25,458	24,586	23,426	24,503	29,857	29,685	32,129	43,014	56,444
U. Texas, San Antonio	165	27,036	28,011	29,168	28,066	22,518	23,108	24,493	28,650	28,943	32,986	32,512	41,177	51,075	54,813
Cleveland State U.	166	24,894	42,292	46,205	50,002	44,139	41,721	49,659	52,317	54,987	50,982	53,234	46,838	52,514	54,376
Cold Spring Harbor Laboratory	167	ne	51,529	43,874	41,002	41,845	49,063	50,478	54,260	67,139	73,854	62,068	56,889	59,163	54,123
Rensselaer Polytechnic Institute	168	54,559	58,951	62,063	60,765	58,940	59,417	48,887	47,749	46,385	47,245	47,934	49,836	48,950	53,500
U. Texas, Arlington	169	29,671	28,190	30,473	28,588	24,079	26,858	24,853	30,588	34,063	39,198	42,157	44,134	52,942	52,832
North Dakota State U.	170	51,198	52,543	45,326	37,128	35,308	35,037	34,792	34,134	34,485	34,693	31,109	37,647	44,254	52,479
Michigan Technological U.	171	27,407	32,508	32,835	31,734	30,214	28,581	29,609	28,332	32,366	34,488	35,912	41,123	48,500	52,027
Northern Arizona U.	172	14,990	17,687	15,946	15,533	18,044	20,111	22,997	25,615	29,137	35,156	38,492	40,890	41,925	49,135
U. Puerto Rico, Medical Sciences Campus	173	29,813	54,381	35,173	31,037	30,197	31,889	33,348	29,869	30,597	34,570	27,033	33,262	35,050	46,789
Brandeis U.	174	43,282	47,793	44,061	43,963	45,800	46,764	47,708	44,819	37,371	40,333	40,815	42,725	43,870	46,567
U. Southern Mississippi	175	36,729	40,764	34,487	28,324	25,956	24,710	23,952	26,104	30,331	45,687	41,791	43,078	46,255	45,653

TABLE 81

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Air Force Institute of Technology	176	13,514	18,986	17,919	17,614	16,342	16,369	19,660	25,558	23,393	21,856	22,854	27,025	32,479	45,087
U.S. Air Force Academy	177	43,803	60,292	36,316	42,303	32,284	29,417	44,567	34,664	27,650	34,940	33,308	31,818	35,826	44,056
Stevens Institute of Technology	178	26,366	31,269	25,794	23,004	22,130	25,054	28,090	26,438	25,521	27,703	32,141	32,625	41,047	43,574
Florida A&M U.	179	26,311	30,771	27,951	28,446	25,313	26,700	28,021	27,899	29,861	32,117	30,022	31,669	36,409	41,958
Saint Louis U.	180	33,655	38,206	35,841	31,230	29,396	27,343	26,323	27,005	27,694	33,941	34,163	40,628	41,625	41,940
Howard U.	181	32,211	35,632	37,336	33,403	32,052	38,051	32,967	33,893	32,573	29,422	28,785	34,907	36,696	41,771
Morehouse School of Medicine	182	25,855	28,128	31,786	34,511	33,020	30,012	28,678	28,792	24,326	22,461	22,500	25,181	31,339	41,069
Touro U., New York ^d	183	ne	0	53	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	40,008
CUNY, City C.	184	32,170	39,064	39,063	39,756	39,860	37,900	37,359	34,718	36,402	32,975	30,038	34,100	38,028	38,168
Indiana U.-Purdue U., Indianapolis	185	147,375	154,966	165,374	151,962	142,589	18,090	19,507	19,630	22,071	25,672	30,289	28,541	27,169	37,518
Syracuse U.	186	26,971	25,272	25,327	22,564	24,163	26,769	28,793	31,902	33,045	32,143	27,538	29,354	28,489	37,435
Lehigh U.	187	22,084	20,485	20,419	20,878	20,677	20,680	19,512	22,640	23,649	24,282	25,574	27,483	33,809	37,342
U. Nevada, Las Vegas	188	31,497	29,642	24,567	23,980	26,585	26,970	24,683	28,460	32,711	27,172	28,187	25,764	27,244	36,275
Worcester Polytechnic Institute	189	12,705	14,773	12,161	16,275	18,310	25,743	24,854	18,559	18,084	22,144	25,320	29,202	32,552	36,101
Louisiana State U., Health Sciences Center, New Orleans	190	46,142	45,581	40,637	36,886	34,637	36,027	31,526	28,018	26,988	31,290	31,381	34,272	33,087	35,933
U. Toledo	191	36,984	42,680	38,563	37,539	31,648	26,428	24,860	22,371	25,056	27,802	27,412	32,411	33,765	34,608
Catholic U. of America	192	15,837	19,651	17,350	17,154	17,061	19,548	19,451	19,364	20,423	21,408	22,244	22,886	26,126	34,527
SUNY, Polytechnic Institute	193	na	na	na	na	21,208	14,641	21,380	41,247	41,753	38,222	27,993	25,427	32,375	34,389
Boise State U.	194	14,237	18,423	19,446	15,181	15,183	17,562	16,112	18,754	23,157	22,354	25,121	30,053	30,559	34,220
Florida Atlantic U.	195	16,457	14,793	14,926	12,480	12,317	10,402	14,443	16,430	18,076	21,050	22,787	27,479	27,717	33,856
North Carolina A&T State U.	196	23,878	22,499	21,468	20,956	22,609	21,802	19,808	23,046	22,212	20,924	19,170	21,835	24,797	33,737
Rochester Institute of Technology	197	19,493	18,546	17,435	16,186	16,765	17,479	22,545	23,913	22,692	22,195	24,079	27,703	28,420	32,574
Missouri U. of Science and Technology	198	28,239	27,961	23,731	25,551	21,474	17,306	18,811	19,534	21,793	22,337	22,853	26,164	28,773	32,457
Boston C.	199	31,351	23,845	23,685	22,780	19,462	17,409	23,184	26,937	27,674	28,017	25,213	28,738	30,840	32,329
Van Andel Research Institute	200	ne	ne	ne	ne	ne	8,138	11,970	13,108	14,285	18,259	18,538	22,231	29,424	30,934
U. North Carolina, Charlotte	201	15,444	14,358	16,997	18,257	16,637	17,028	18,733	19,436	21,366	24,917	26,335	25,804	24,965	30,722

TABLE 81

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
San Jose State U.	202	21,576	23,207	21,830	24,574	28,475	31,250	30,021	30,063	31,592	33,072	32,061	29,856	29,488	30,409
SUNY, Upstate Medical U.	203	27,959	28,663	27,013	23,730	21,334	19,213	18,942	19,991	20,391	22,028	23,940	24,974	27,737	30,069
Brigham Young U., Provo	204	18,373	19,741	17,381	19,931	20,214	20,769	24,791	23,631	21,367	21,977	22,789	28,614	29,844	30,040
Mercer U.	205	18,778	17,904	19,963	19,411	19,666	21,563	21,120	19,772	18,999	27,035	31,572	34,413	32,504	29,561
William & Mary	205	22,478	23,502	25,349	24,619	27,232	27,722	28,771	28,062	27,836	27,112	25,460	24,533	27,979	29,561
SUNY, Binghamton U.	207	20,766	20,443	20,151	16,749	14,757	16,038	18,363	20,601	22,964	23,626	24,027	22,012	23,413	29,416
East Carolina U.	208	15,587	17,636	16,946	17,789	16,992	14,926	13,057	11,386	11,654	15,544	16,583	19,633	26,813	29,137
Loyola U., Chicago	209	27,953	27,588	27,786	32,008	29,989	27,380	24,916	22,861	21,131	22,919	23,277	25,824	26,005	29,046
Old Dominion U.	210	30,534	34,084	31,877	30,478	30,568	27,857	27,556	32,898	28,792	27,633	26,904	23,158	25,424	28,613
SUNY, Downstate Health Sciences U.	211	25,023	33,964	34,884	31,972	25,802	20,779	25,941	22,496	26,302	26,914	26,454	27,620	25,081	28,543
South Dakota State U.	212	38,309	41,876	41,941	33,226	29,454	28,488	29,605	27,940	27,013	29,530	22,387	18,505	22,800	28,399
Illinois Institute of Technology	213	27,780	33,016	27,515	28,255	25,506	25,479	23,542	26,191	27,742	28,753	24,152	24,649	25,938	27,992
U. South Alabama	214	14,343	16,259	13,294	13,361	13,478	15,025	17,131	15,856	14,572	19,383	21,359	22,924	22,586	27,572
U. Missouri, Kansas City	215	16,139	18,748	17,219	15,406	14,613	12,810	12,739	11,145	10,396	18,400	21,921	20,784	30,571	27,122
U. North Texas, Denton	216	11,997	12,255	15,921	14,974	15,054	14,286	11,524	14,043	17,514	16,094	12,019	16,810	21,799	26,890
U. California, Merced	217	9,192	9,744	10,741	10,733	10,506	12,607	12,166	14,660	14,041	16,513	19,505	16,980	21,418	25,993
Morgan State U.	218	10,035	9,878	15,279	13,301	14,131	12,693	14,305	13,215	11,450	11,844	14,016	15,207	20,739	25,763
Portland State U.	219	25,853	29,660	30,090	27,899	26,147	23,389	25,310	23,645	23,437	26,301	24,752	24,097	25,176	25,192
U. Texas Rio Grande Valley	220	na	na	na	na	na	na	16,821	14,766	13,308	13,320	12,590	12,355	17,733	24,006
Delaware State U.	221	9,967	11,901	11,053	11,802	12,464	12,075	14,613	13,909	12,039	11,936	10,841	12,461	19,019	23,974
U. Wisconsin-Milwaukee	222	23,641	28,336	26,424	23,872	23,726	24,222	22,519	21,673	24,348	22,909	24,713	23,944	23,481	23,890
Texas State U.	223	6,815	5,971	6,770	11,088	9,696	11,318	9,786	10,739	12,298	13,503	13,298	15,936	18,755	23,182
U. Memphis	224	17,726	16,738	19,113	15,747	18,344	16,250	16,784	16,958	23,463	17,074	15,927	17,538	21,029	22,873
Embry-Riddle Aeronautical U.	225	8,241	9,257	12,126	9,906	12,614	9,940	13,957	10,501	12,584	8,890	11,391	14,258	22,699	22,601
U. Nebraska, Omaha	226	4,128	5,034	5,589	5,230	4,979	4,484	6,657	7,038	7,043	7,655	8,626	12,949	17,133	21,616
Ohio U.	227	18,209	21,938	20,340	20,134	16,425	17,140	14,421	16,017	13,512	14,453	15,466	19,048	20,360	21,572
CUNY, Hunter C.	228	17,543	21,191	22,078	21,465	18,825	19,018	19,597	18,179	20,053	21,188	23,638	21,275	18,940	20,746
Desert Research Institute	229	28,307	28,489	27,294	22,814	19,932	16,511	18,883	18,839	17,911	16,745	15,791	16,641	17,341	20,061
U. Denver	230	10,180	10,463	9,135	10,082	8,794	8,134	8,895	9,681	12,938	13,157	14,551	13,513	15,544	19,919
Marquette U.	231	9,115	10,898	9,557	8,491	7,988	9,139	10,136	10,111	10,451	12,613	12,981	13,470	14,883	19,446
Marshall U.	232	18,218	21,433	13,154	13,468	12,684	11,080	9,077	9,036	8,519	9,579	11,070	12,522	15,875	19,192
U.S. Military Academy	233	19,763	12,314	11,702	11,612	13,247	13,135	12,281	7,247	6,313	6,432	8,068	13,657	19,344	19,149
U. of the Virgin Islands	234	27,291	15,717	22,605	15,627	10,475	19,456	20,951	10,701	10,748	9,903	11,778	13,099	19,127	19,127

TABLE 81

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Wright State U.	235	24,785	27,422	25,519	26,496	27,523	26,814	30,093	35,514	43,359	41,362	35,267	19,393	20,418	19,060
Louisiana State U., Health Sciences Center, Shreveport	236	13,890	15,316	13,504	11,753	8,490	6,321	6,478	7,055	9,235	12,185	11,452	12,359	15,503	18,742
California State U., Northridge	237	11,122	8,729	13,965	7,778	11,007	10,889	10,136	12,952	13,822	15,543	16,478	13,363	14,692	18,432
U. Guam	238	4,962	5,242	5,311	5,390	6,321	5,455	6,576	8,051	8,425	9,104	9,364	13,862	16,303	18,419
Meharry Medical C.	239	24,302	26,779	23,467	21,135	17,754	13,068	13,528	15,613	14,515	16,443	12,573	13,784	15,048	18,398
Rowan U.	240	1,737	2,071	2,295	1,875	4,588	4,665	5,239	7,110	9,568	11,909	15,276	17,211	18,502	18,392
Eastern Virginia Medical School	241	29,291	25,319	24,694	28,728	28,532	28,637	21,459	21,209	21,356	19,408	15,748	14,774	17,616	17,947
U. Massachusetts, Boston	242	17,787	15,040	17,649	13,471	14,544	15,464	17,326	16,308	16,852	16,117	15,007	14,938	14,823	17,753
U. North Carolina, Greensboro	243	10,857	12,155	10,943	10,520	10,589	11,106	12,279	10,845	10,441	11,527	10,579	12,357	15,462	17,719
CUNY, Queens C.	244	13,496	15,491	14,829	14,689	15,809	13,532	13,966	11,780	11,882	12,862	12,208	11,779	14,611	17,408
Southern Illinois U., Carbondale	245	22,209	23,696	22,055	18,398	16,288	14,895	14,574	13,421	12,733	12,625	12,735	12,655	13,582	17,027
Baylor U.	246	2,842	3,386	3,289	3,435	3,991	3,839	4,214	5,255	5,749	6,885	8,684	10,879	15,512	16,842
San Francisco State U.	247	15,407	17,337	17,075	18,638	16,753	14,336	12,277	13,782	13,346	15,149	15,514	15,670	14,868	16,226
Kent State U.	248	13,311	13,334	13,425	10,009	9,350	9,594	8,733	9,204	10,265	12,576	13,406	13,620	14,228	16,041
Tuskegee U.	249	10,986	11,033	11,243	13,132	14,102	12,265	10,386	10,386	10,386	14,825	15,122	15,424	14,880	16,006
Southern Methodist U.	250	12,142	17,819	15,839	13,516	18,427	11,806	12,910	11,978	11,568	15,219	15,559	14,803	14,798	15,992
Jackson State U.	251	34,927	36,460	33,342	27,285	19,898	18,449	19,934	18,997	16,990	16,156	13,560	12,939	14,261	15,934
U. Puerto Rico, Rio Piedras	252	21,130	24,336	24,867	17,190	17,489	18,177	15,870	11,137	9,826	13,670	13,767	14,953	16,716	15,897
Texas A&M U.-Corpus Christi	253	7,647	7,225	5,387	5,990	7,085	9,155	7,078	9,057	11,694	13,131	12,453	9,782	13,622	15,799
Rutgers, State U. New Jersey, Newark	254	12,243	17,503	19,296	12,420	11,014	11,118	12,662	15,171	15,129	14,063	14,725	14,891	14,641	15,095
Tennessee State U.	255	6,936	7,732	9,393	9,354	11,886	10,920	11,590	9,226	9,336	8,449	19,052	15,066	10,859	15,003
Texas Tech U., Health Sciences Center	256	12,950	14,790	13,944	14,804	9,480	9,949	9,943	8,995	7,477	11,262	12,977	12,114	14,602	14,679
South Dakota School of Mines and Technology	257	25,172	28,051	14,338	7,853	7,029	9,286	10,370	10,639	10,240	9,283	10,659	11,587	15,100	14,640
U. Maryland Center for Environmental Science	258	12,123	18,007	16,081	16,852	13,202	11,993	12,156	14,482	14,276	16,573	14,622	13,242	14,240	14,631
Albany Medical C.	259	15,758	13,884	11,845	10,278	9,716	9,481	10,714	11,040	10,243	11,827	12,940	13,166	13,384	14,193
U. Hawaii, system office	260	ne	ne	ne	ne	ne	ne	ne	ne	12,328	12,052	13,367	12,688	12,511	14,150
North Carolina Central U.	261	6,870	9,043	10,573	7,750	9,320	10,293	9,691	10,627	10,728	12,235	11,883	9,831	12,561	13,916

TABLE 81

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
U. South Dakota	262	16,353	14,337	13,601	14,991	11,932	8,464	8,827	11,117	12,346	13,312	12,899	11,541	13,503	13,861
California Polytechnic State U., San Luis Obispo	263	11,396	8,296	9,618	9,442	8,903	9,651	10,966	10,035	9,313	9,574	9,765	10,785	14,172	13,490
CUNY, Graduate School of Public Health and Health Policy	264	na	na	na	na	na	na	na	na	5,080	5,572	8,722	12,254	11,880	13,413
California State U., Long Beach	265	12,096	11,570	11,044	10,517	7,689	6,047	10,960	12,991	13,704	13,380	11,846	10,849	11,132	13,341
Charles R. Drew U. of Medicine and Science	266	20,430	20,679	19,733	17,144	19,412	12,992	12,089	14,461	10,198	10,427	9,863	9,945	10,656	13,297
U. Colorado Denver ^c	267	na	na	na	na	na	na	na	na	na	na	na	9,058	10,245	13,287
Missouri State U.	268	6,051	4,756	3,697	3,129	3,027	3,141	2,633	2,659	3,977	4,907	12,232	8,928	10,082	12,973
Xavier U. Louisiana	269	5,669	6,673	7,177	5,856	7,077	7,735	10,487	10,901	9,971	8,526	9,628	11,074	11,718	12,830
U. Massachusetts, Dartmouth	270	11,236	12,253	10,329	8,076	8,413	7,134	6,463	7,118	6,595	6,957	6,066	7,626	10,239	12,803
U. Texas Health Science Center, Tyler	271	ne	ne	ne	ne	ne	3,713	3,757	5,792	6,438	7,084	7,732	12,007	14,362	12,555
Loma Linda U.	272	27,175	30,899	23,447	24,991	19,044	21,082	16,118	15,192	13,806	12,548	11,289	10,031	9,134	12,485
Creighton U.	273	11,850	14,080	14,209	13,272	11,427	9,164	10,406	7,787	5,601	8,113	7,444	8,426	11,799	12,446
U. Alaska, Anchorage	274	8,485	9,352	10,041	8,799	7,212	8,015	11,282	11,592	12,530	13,665	15,128	14,852	14,809	12,102
Prairie View A&M U.	275	8,623	11,041	10,561	9,077	8,259	7,958	7,896	8,674	8,386	9,246	9,134	9,315	11,425	11,969
CUNY, Advanced Science Research Center	276	na	na	na	na	na	257	ne	2,355	4,027	6,859	9,208	11,840	12,580	11,916
Teachers C., Columbia U.	277	6,478	8,433	10,120	8,492	8,909	12,666	11,373	10,194	8,925	8,054	7,614	8,521	10,177	11,871
Alabama A&M U.	278	22,154	21,355	21,322	21,290	21,257	21,222	17,863	14,566	11,267	7,968	5,432	7,152	8,874	11,739
Nova Southeastern U.	279	5,669	6,829	6,570	5,334	5,906	5,856	6,922	7,672	7,772	8,911	10,452	10,386	9,253	11,587
Florida Institute of Technology	280	8,903	7,387	7,189	7,112	7,706	8,251	8,714	8,440	8,333	10,043	10,448	12,386	10,429	11,460
U. Puerto Rico, Mayaguez	281	12,505	18,269	19,536	13,830	13,638	15,313	14,403	13,585	14,092	15,653	15,842	12,683	13,923	11,149
Alcorn State U.	282	9,256	8,655	8,598	8,321	7,447	6,784	6,387	8,634	7,372	7,540	7,023	7,593	9,294	10,996
American U.	283	6,263	6,549	5,254	5,613	7,426	8,444	8,280	7,601	11,237	13,762	13,491	9,064	10,345	10,619
U. Akron	284	11,943	12,833	16,605	19,600	20,187	14,510	25,362	16,124	12,280	11,627	10,509	8,953	11,015	10,609
East Tennessee State U.	285	6,121	7,705	8,052	6,825	4,865	4,664	5,655	5,870	7,168	7,688	7,329	8,310	9,714	10,578
Northern Illinois U.	286	16,907	11,226	12,311	12,178	8,697	8,915	9,679	6,164	6,925	6,705	6,025	9,014	9,725	10,352
California State U., Sacramento	287	5,032	6,145	4,878	6,893	4,769	5,148	4,773	5,876	5,620	5,238	4,892	4,319	5,884	10,314
U.S. Naval Academy	288	10,750	10,243	8,868	10,142	10,216	8,978	11,006	12,946	13,331	12,851	12,281	10,247	10,147	10,260
Clarkson U.	289	9,408	9,531	7,061	5,275	5,462	5,436	6,183	6,538	7,814	8,350	6,876	6,872	8,342	10,249

TABLE 81

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
U. Maryland, Eastern Shore	290	8,583	8,587	6,955	8,511	8,902	9,284	7,853	7,265	4,890	6,983	8,084	8,346	9,062	10,201
Texas Southern U.	291	3,638	3,806	4,287	4,741	2,764	2,801	2,825	3,654	2,368	3,238	5,590	4,952	6,768	9,928
Tennessee Technological U.	292	6,958	5,119	4,154	3,566	3,662	3,508	4,015	4,808	5,269	5,996	6,338	7,261	7,612	9,597
Montana Technological U.	293	5,321	4,999	3,293	3,507	3,202	3,420	3,916	5,019	4,691	4,926	4,322	6,133	5,600	9,585
Chapman U.	294	1,429	1,215	1,465	2,227	2,170	2,348	2,951	3,414	3,780	5,359	7,313	7,881	10,454	9,575
Oakland U.	295	7,024	9,001	8,168	6,855	5,986	5,339	6,154	6,414	5,733	6,690	5,058	7,426	9,369	9,572
Central Michigan U.	296	2,301	4,315	4,965	5,325	5,982	5,108	4,883	5,550	7,121	8,100	7,429	6,919	9,764	9,569
Hampton U.	297	14,455	12,292	15,290	12,620	11,153	14,619	13,572	15,908	13,669	12,943	10,842	11,181	11,049	9,398
Miami U.	298	11,546	11,476	12,447	11,314	10,311	9,278	7,699	7,568	7,924	7,680	8,829	8,854	9,147	9,337
Western Michigan U. and Homer Stryker M.D. School of Medicine	299	10,120	11,444	8,295	7,547	7,185	7,216	6,863	7,447	6,948	5,654	5,374	7,853	7,736	9,236
California State U., San Marcos	300	3,548	3,548	3,548	3,550	3,177	3,709	4,591	4,869	6,373	8,007	10,310	7,926	7,193	9,116
SUNY, C. of Environmental Science and Forestry	301	8,907	8,732	8,557	8,382	5,564	7,784	8,109	7,658	6,854	7,632	7,718	6,863	7,678	8,980
Idaho State U.	302	13,591	16,821	15,711	12,738	10,566	11,510	11,827	11,084	9,737	7,222	7,693	7,059	8,925	8,967
Northeast Ohio Medical U.	303	4,009	4,081	3,816	5,244	6,582	7,607	9,181	10,043	9,743	10,107	10,684	9,999	9,400	8,864
Texas A&M U.-Kingsville	304	5,067	4,765	4,980	4,988	6,415	5,483	5,910	5,827	5,640	6,874	8,253	7,822	6,834	8,495
California State U., Los Angeles	305	7,027	8,296	6,739	6,948	4,788	3,794	3,452	6,499	8,530	9,088	8,088	6,932	8,146	8,229
New York Medical C.	306	21,095	21,013	16,471	13,806	11,421	11,326	10,772	9,000	8,141	11,061	12,106	10,739	9,070	8,226
U. West Florida	307	2,310	1,505	809	646	883	1,061	684	793	1,149	1,210	2,688	3,689	5,733	8,158
U. Tulsa	308	6,819	7,547	6,615	6,041	5,487	5,885	6,037	5,816	4,440	3,891	4,555	5,524	5,565	8,112
U. North Carolina, Wilmington	309	13,026	12,933	10,032	7,599	4,480	4,519	4,595	4,834	5,001	6,405	5,984	6,114	6,147	7,788
Villanova U.	310	6,367	6,817	5,518	4,218	5,008	4,563	4,334	3,968	3,955	3,956	4,476	5,105	5,591	7,771
Kentucky State U.	311	3,501	3,146	4,919	3,906	4,335	4,590	5,146	5,382	5,618	4,691	4,456	3,716	4,739	7,605
U. Minnesota, Duluth	312	6,427	8,372	7,560	7,264	5,940	10,025	8,055	6,033	5,520	7,082	6,393	5,282	6,094	7,509
Fort Valley State U.	313	4,586	3,452	3,334	3,329	4,249	4,079	4,844	5,068	3,700	4,433	4,806	4,429	7,265	7,505
Clark Atlanta U.	314	7,229	7,040	8,447	7,576	7,241	7,439	6,017	5,752	5,611	5,550	5,213	5,282	5,895	7,488
Texas Christian U.	315	2,161	2,483	3,253	3,767	3,690	3,291	2,671	2,523	2,311	2,211	2,840	3,984	5,481	7,344
Louisiana Tech U.	316	9,715	10,351	8,296	7,593	6,577	5,433	5,013	5,438	5,710	6,303	7,000	6,234	5,568	7,134
Rosalind Franklin U. of Medicine and Science	317	8,350	9,317	10,084	11,202	9,754	9,368	8,478	8,828	9,249	8,865	8,504	9,357	7,292	7,124

TABLE 81

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Illinois State U.	318	3,449	3,264	2,954	3,203	3,463	2,872	2,878	2,742	2,742	4,390	3,639	5,194	5,797	7,109
U. Arkansas, Little Rock	319	6,578	7,995	7,894	6,076	4,559	3,736	4,473	4,220	4,942	6,114	6,660	6,438	6,043	6,540
California State U., San Bernardino	320	2,119	6,212	5,914	5,633	6,004	5,628	5,920	5,423	5,436	5,991	3,574	3,263	4,331	6,374
Virginia State U.	321	5,080	5,642	6,852	6,108	5,321	4,848	5,017	4,357	4,814	5,486	4,630	3,991	5,751	6,293
MGH Institute of Health Professions	322	ne	408	ne	ne	ne	3,766	2,228	1,839	2,957	3,494	3,014	2,500	4,628	6,200
U. Hawaii, Hilo	323	10,491	5,243	14,195	10,989	8,522	12,718	9,401	5,461	5,264	4,924	5,274	5,510	5,292	6,068
U.S. Army War C.	324	ne	ne	ne	ne	ne	ne	ne	ne	ne	2,146	ne	4,662	5,496	6,035
California State U., Fullerton	325	6,710	7,957	6,477	6,264	6,325	4,640	3,651	3,865	4,610	4,117	4,102	4,535	6,124	5,992
Duquesne U.	326	5,032	5,103	4,614	3,289	3,980	4,394	4,973	4,959	4,944	4,316	4,579	4,435	5,562	5,981
Ball State U.	327	1,712	1,701	2,171	1,267	1,617	1,828	2,813	2,083	2,749	2,607	2,290	2,099	4,635	5,871
U. Tennessee, Chattanooga	328	4,866	2,929	3,199	2,056	1,486	1,949	1,092	1,144	1,490	2,393	3,915	4,416	5,031	5,864
Western Washington U.	329	4,137	4,153	3,714	3,287	3,425	3,879	3,972	4,216	3,884	3,842	3,838	3,963	5,660	5,781
Bowling Green State U.	330	4,963	6,162	6,957	9,287	6,520	4,067	4,221	3,565	3,275	3,878	4,555	5,189	5,437	5,774
California State Polytechnic U., Pomona	331	2,523	2,964	2,635	2,945	2,165	1,826	2,199	3,225	4,181	3,131	5,300	4,267	4,643	5,747
California State U., Monterey Bay	332	3,167	4,713	4,341	4,961	3,862	3,459	3,654	3,574	3,607	3,746	3,889	3,813	5,051	5,552
Central State U.	333	2,544	3,475	3,340	2,686	2,000	1,508	1,546	1,491	2,299	2,517	3,097	4,165	5,576	5,523
Tarleton State U.	334	6,379	6,036	5,086	3,525	3,565	3,801	4,484	4,602	4,288	4,632	4,139	4,620	5,055	5,477
CUNY, Brooklyn C.	335	5,002	6,724	6,305	5,831	5,709	5,439	5,836	4,968	4,149	4,210	4,385	4,335	4,448	5,436
CUNY, John Jay C. of Criminal Justice	336	3,079	3,410	2,786	2,839	2,164	2,342	2,467	1,833	2,949	1,154	2,472	750	4,162	5,393
Morehouse C.	337	7,704	8,280	8,856	9,169	6,919	5,836	4,199	3,663	4,365	4,427	4,686	4,102	5,056	5,371
Langston U.	338	3,313	3,778	3,957	4,153	5,816	5,621	8,941	7,960	7,146	6,331	8,584	2,899	3,484	5,367
South Carolina State U.	339	6,333	6,797	7,261	2,958	2,231	1,503	4,376	13,254	13,846	3,010	3,941	4,344	4,747	5,153
Gallaudet U.	340	4,584	3,876	3,712	3,916	2,586	2,064	2,133	2,273	2,142	1,105	899	2,130	3,014	4,926
Wesleyan U.	341	4,475	5,361	4,612	3,930	3,313	3,582	3,393	3,817	3,990	4,211	3,559	3,452	4,390	4,868
U. New Orleans	342	14,185	12,475	11,481	9,729	8,716	6,787	6,617	5,502	5,246	4,272	3,741	3,566	5,764	4,785
U. New England	343	2,829	3,242	3,359	4,271	4,762	4,856	5,298	5,918	4,976	5,269	5,064	3,864	3,660	4,777
Oklahoma State U., Center for Health Sciences	344	817	377	83	61	31	321	697	984	959	944	2,602	2,304	3,327	4,773
C. Charleston	345	10,105	4,438	5,259	5,354	4,114	4,863	5,026	5,020	3,653	3,689	2,781	3,839	4,305	4,758
DePaul U.	346	3,874	4,601	4,800	4,236	4,818	4,436	4,601	5,393	4,496	4,331	5,024	4,466	3,084	4,701

TABLE 81

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023			
Southern U. and A&M C., Agricultural Research and Extension Center	347	ne	4,049	5,926	3,481	3,363	2,514	2,415	2,736	i	3,057	3,057	2,085	3,588	4,261	4,688		
California State U., Fresno	348	3,089	3,589	3,517	2,682	2,852	3,040	2,979	3,162		3,925	2,897	3,004	3,593	5,838	4,640		
Lincoln U., Jefferson City	349	5,984	7,084	6,306	4,989	5,460	5,492	4,953	4,148		2,498	2,700	3,636	5,621	8,988	4,610		
U. of the District of Columbia	350	1,946	2,313	2,430	2,168	1,627	1,434	2,451	2,659		2,021	2,526	2,020	5,801	8,555	4,533		
Montclair State U.	351	1,113	2,552	3,265	2,944	1,900	2,116	2,301	1,974		2,942	3,050	2,766	2,816	3,917	4,500		
Spelman C.	352	2,740	1,833	1,874	1,366	1,185	1,035	1,291	1,227		1,673	2,004	2,136	1,886	2,409	4,413		
Southern U. and A&M C., Baton Rouge	353	5,920	6,057	i	6,194	3,998	2,714	3,258	2,778		2,812	2,902	2,680	2,567	3,395	3,545	4,377	
U. Colorado Colorado Springs	354	6,453	5,420	2,935	2,471	3,150	3,791	3,717	4,267		3,734	2,752	3,110	3,681	4,606	4,360		
CUNY, Lehman C.	355	2,348	i	2,700	2,208	1,874	2,247	2,371	3,625		3,713	4,177	2,181	2,614	2,606	3,276	4,321	
U. Detroit Mercy	356	629	602	508	ne	317	890	2,565	2,296		4,385	4,908	4,201	3,815	4,640	4,289		
U. Missouri, Saint Louis	357	5,886	8,214	7,990	6,821	5,293	3,984	4,343	4,710		5,889	6,759	5,840	5,299	4,278	4,257		
Kennesaw State U.	358	1,105	983	1,127	i	1,271	1,397	713	1,037		1,306	1,738	1,696	2,562	2,753	4,255		
Barnard C.	359	2,702	3,226	3,122	2,530	2,190	2,166	2,794	2,645		2,291	2,701	2,680	3,422	3,605	4,211		
Pennsylvania State U., Behrend	360	887	1,029	1,232	1,341	1,596	1,474	2,397	1,658		1,025	1,424	543	2,014	2,850	4,159		
Western U. of Health Sciences	361	885	900	1,268	1,130	1,368	1,099	2,299	2,714		2,562	2,573	4,055	5,020	6,202	4,076		
Winston-Salem State U.	362	ne	743	1,280	436	ne	ne	1,069	1,175		1,289	1,468	3,234	4,190	4,442	3,995		
Fisk U.	363	7,686	4,631	4,058	5,429	i	7,366	7,123	i	7,512	4,327	2,781	4,473	3,811	3,926	3,472	3,819	
U. Arkansas, Pine Bluff	364	3,947	4,696	4,540	4,550		3,875	3,912		4,233	3,747	3,648	4,299	4,393	3,960	3,785		
Chicago State U.	365	1,598	2,014	565	ne	ne	ne	910	ne		1,154	894	ne	ne	3,699	3,756		
U. North Florida	366	4,516	5,048	3,760	1,424	1,045	1,184	1,333	1,287		1,325	1,243	1,167	1,917	3,309	3,700		
U. Wisconsin-Superior	367	5,197	5,638	i	5,302	i	ne	1,941	i	ne	ne	1,916	1,527	1,382	1,843	3,635	3,559	
Pacific U.	368	565	75	198	1,669	539	350	708	2,830		1,559	2,731	1,719	1,528	1,903	3,461		
U. Michigan, Dearborn	369	2,801	4,291	2,881	3,103	2,882	1,844	2,035	1,860		1,341	1,722	2,244	2,366	2,528	3,432		
New Mexico Highlands U.	370	963	986	704	741	969	ne	1,086	1,015		741	ne	1,034	1,828	i	2,622	i	3,416
Towson U.	371	1,806	2,630	1,771	2,015	1,870	1,325	1,449	1,453		2,133	2,141	1,999	1,743	2,809	3,413		
Fordham U.	372	3,426	3,086	3,193	3,748	3,239	2,789	4,760	4,750		4,210	3,171	2,834	3,113	3,384	3,371		
James Madison U.	373	5,563	5,218	6,476	4,604	2,997	2,418	2,189	2,172		1,640	2,075	1,973	2,189	2,724	3,343		
Western Kentucky U.	374	6,606	6,079	5,639	4,161	2,916	2,983	3,346	3,285		2,860	3,128	2,977	2,306	3,127	3,317		
U. Washington, Tacoma	375	47	108	130	0	0	1,386	1,595	727		1,523	2,451	2,899	3,130	4,331	3,300		
Middle Tennessee State U.	376	2,428	1,595	4,207	1,897	1,022	1,609	2,564	2,212		2,206	1,572	1,896	4,098	4,088	3,298		

TABLE 81

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023			
CUNY, C. Staten Island	377	949	1,470	1,242	1,302	1,241	1,021	1,694	1,524	1,737	i	2,120	2,262	2,234	2,875	3,296		
Western Illinois U.	378	658	742	3,855	1,183	735	350	ne	1,198	1,535		1,486	1,781	3,163	4,032	3,283		
New York Institute of Technology	379	250	369	950	2,097	3,049	2,070	1,536	983	1,439		3,072	1,485	1,970	2,988	3,252		
Norfolk State U.	380	5,413	6,345	7,739	5,465	6,381	4,918	6,947	7,101	6,877		7,935	7,121	3,976	3,082	3,245		
Georgia Southern U.	381	1,882	1,520	1,341	1,990	3,123	2,923	2,540	2,826	1,758		1,765	1,759	3,298	2,356	3,216		
Appalachian State U.	382	1,662	2,398	2,264	1,722	2,186	1,795	1,896	2,629	1,840		1,298	1,375	1,313	2,372	3,177		
U. San Diego	383	1,332	1,139	1,903	2,002	2,435	1,799	2,121	2,299	2,362		2,494	2,048	1,997	2,504	3,117		
U. of Health Sciences and Pharmacy in St. Louis	384	ne	ne	ne	ne	ne	ne	ne	ne	ne		ne	3,767	4,063	2,523	3,110		
Hope C.	385	2,523	2,414	1,912	1,993	1,834	1,436	1,251	1,157	1,088		1,349	1,126	1,957	3,468	3,097		
Arkansas State U., Jonesboro	386	6,169	8,591	9,595	6,268	3,849	4,315	4,826	4,396	4,371		4,867	4,712	4,249	3,932	3,083		
Florida Gulf Coast U.	387	2,661	2,740	1,902	1,553	1,153	1,139	1,377	1,105	764		944	2,639	2,410	4,008	3,056		
Rutgers, State U. New Jersey, Camden	388	1,765	1,259	1,248	1,511	1,728	1,984	2,637	2,322	1,495		1,096	1,952	2,841	3,349	3,042		
Sonoma State U.	389	690	559	ne	1,800	1,581	964	531	ne	ne		ne	936	2,212	2,730	3,003		
Smith C.	390	2,755	3,101	2,626	2,824	3,042	3,575	2,563	3,352	3,288		2,887	2,483	2,249	2,252	2,965		
Citadel Military C. South Carolina	391	ne	157	ne	ne	ne	ne	ne	ne	ne		ne	470	1,258	3,731	2,941		
Colby C.	392	1,015	1,002	1,148	989	943	1,038	1,061	1,038	1,188		1,058	787	623	1,387	2,929		
U. Central del Caribe	392	6,504	6,613	6,304	5,946	6,407	6,147	6,290	4,866	2,937		2,705	2,743	2,492	2,807	2,929		
California State Polytechnic U., Humboldt	394	2,965	3,292	3,575	2,819	2,498	3,280	4,455	3,796	3,024		2,103	2,399	1,975	2,421	2,899		
Sam Houston State U.	395	4,887	2,098	2,422	1,729	1,733	1,488	1,830	1,872	2,200		2,316	2,444	2,472	3,216	2,891		
Occidental C.	396	644	898	1,079	1,105	1,365	853	1,260	701	888		1,614	1,567	2,284	2,551	i	2,887	i
Santa Clara U.	397	3,494	1,992	1,953	1,641	1,992	1,224	1,634	1,406	1,520		1,266	1,487	1,756	2,249	2,880		
Troy U.	398	ne	ne	ne	ne	ne	ne	ne	ne	ne		ne	1,536	1,341	2,150	2,873		
Wellesley C.	399	3,406	2,461	2,895	3,130	3,579	2,971	5,065	3,725	3,668		3,447	4,024	3,469	2,915	2,870		
Amherst C.	400	966	1,775	1,810	i	1,846	1,543	1,835	1,207	1,228		1,630	2,118	1,775	1,375	2,862	2,869	
Midwestern U.	401	285	438	427	369	517	654	1,060	1,184	1,278		1,045	936	1,506	1,609	2,862		
U. Northern Iowa	402	499	1,597	1,982	2,146	2,007	1,847	2,267	2,153	1,697		2,343	1,792	1,978	2,132	2,860		
Purdue U., Northwest	403	na	na	na	na	na	na	na	2,218	1,927		1,513	1,969	2,165	2,621	2,859		
Alabama State U.	404	13,340	12,340	13,607	1,927	2,236	2,303	2,372	2,253	2,434		2,577	2,582	2,338	2,930	2,848		
West Virginia State U.	405	2,759	3,193	3,945	3,292	5,646	5,561	4,126	5,072	5,361		4,526	3,993	4,119	4,278	2,800		
Carleton C.	406	1,643	2,132	2,212	3,326	3,046	1,077	832	727	933		1,891	1,236	1,493	1,907	2,790	i	
U. North Carolina, Asheville	407	1,367	1,519	1,565	1,505	1,174	1,452	2,202	1,714	1,309		1,262	1,848	1,775	2,053	2,764		

TABLE 81

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
St. John's U., New York	408	1,161	1,181	1,095	868	879	942	868	961	1,528	1,666	1,805	1,931	2,416	2,744
U. Washington, Bothell	409	435	363	323	0	711	1,222	546	747	917	1,800	1,260	1,903	3,145	2,704
Youngstown State U.	410	2,067	3,304	2,159	1,825	1,867	2,346	1,083	3,257	3,634	2,878	3,190	1,717	3,464	2,691
Seton Hall U.	411	2,206	1,259	679	691	688	736	825	850	724	810	539	1,003	1,185	2,689
Southern Illinois U., Edwardsville	412	4,140	3,946	2,808	2,896	2,066	2,111	3,077	3,472	2,907	2,951	2,564	2,800	2,629	2,663
California State U., Chico	413	1,466	1,209	1,332	1,668	1,085	743	851	577	1,051	1,359	1,943	1,706	1,725	2,635
U. Southern Maine	414	2,498	3,592	5,415	4,515	3,071	2,460	1,848	2,252	2,237	2,275	2,128	2,020	2,201	2,598
Middlebury C.	415	2,245	2,289	2,513	1,760	1,320	1,535	1,736	2,002	1,701	1,558	1,546	2,639	2,248	2,536
Central Washington U.	416	4,038	2,238	1,840	1,242	1,108	1,575	1,580	2,287	1,840	2,159	1,701	1,778	2,415	2,494
National Defense U.	416	ne	ne	ne	4,906	6,712	4,832	5,720	5,723	2,219	2,155	2,583	2,586	3,420	2,494
SUNY, C. of Optometry	418	2,829	3,336	3,162	2,757	2,567	2,490	2,487	2,073	1,944	1,823	1,688	2,105	2,080	2,469
Dakota State U.	419	ne	402	3,555	831	908	765	1,448	1,989	3,273	3,006	3,957	2,603	3,976	2,437
Tougaloo C.	420	2,978	2,542	1,865	1,857	1,894	1,868	1,747	2,252	2,860	2,293	2,102	2,092	2,098	2,374
Haverford C.	421	2,698	1,851	1,478	1,547	1,309	1,476	972	1,031	1,660	2,339	2,680	2,455	2,722	2,344
Keck Graduate Institute	422	ne	1,744	1,671	1,227	1,302	937	895	853	811	769	727	685	643	2,338
Eastern Michigan U.	423	3,375	3,802	3,081	2,194	932	1,274	1,200	1,005	1,137	1,971	2,520	2,029	1,828	2,315
Bucknell U.	424	2,626	2,600	1,514	1,581	1,724	1,489	1,368	1,317	1,266	1,403	1,730	1,696	2,532	2,313
Northern Kentucky U.	425	1,476	1,573	1,474	1,239	1,396	1,246	1,061	1,047	780	1,223	1,415	2,155	2,585	2,277
California State U., Dominguez Hills	426	2,658	2,671	2,689	2,738	1,384	1,035	1,124	753	1,072	1,135	1,360	1,528	2,143	2,247
Fort Lewis C.	427	325	511	ne	ne	ne	ne	ne	ne	ne	1,284	1,228	1,730	2,053	2,245
Texas Woman's U.	428	822	942	1,058	588	423	299	573	407	326	677	882	1,009	1,494	2,240
Clark U.	429	3,243	3,776	2,970	2,649	2,643	2,297	1,930	2,465	2,949	3,489	3,350	2,754	2,500	2,235
U. New Haven	430	ne	199	235	728	344	183	2,157	474	3,853	2,786	1,440	2,069	2,447	2,227
Dine C.	431	ne	911	ne	ne	ne	ne	ne	ne	1,238	1,126	347	ne	2,091	2,224
Swarthmore C.	432	901	1,005	1,115	1,203	1,261	1,352	1,393	1,402	1,343	1,367	1,011	1,329	1,612	2,213
Saint Joseph's U.	433	960	683	565	292	147	169	160	129	163	261	775	652	2,122	2,196
Reed C.	434	796	772	678	897	1,092	1,638	1,690	415	1,065	1,423	1,635	1,735	1,921	2,173
Toyota Technological Institute, Chicago	435	ne	496	ne	ne	ne	1,392	1,410	1,581	1,759	1,934	3,038	3,090	2,199	2,127
Trinity U.	436	964	1,046	1,222	1,989	1,535	1,151	956	977	1,116	878	1,195	1,078	1,345	2,104
California State U., East Bay	437	643	921	536	310	ne	ne	479	ne	ne	ne	1,018	1,431	2,382	2,101
U. Wisconsin-Stevens Point	438	4,455	3,752	3,049	2,131	1,740	1,349	957	1,266	1,575	1,884	2,193	1,776	1,235	2,079
Saginaw Valley State U.	439	77	525	330	203	ne	223	228	595	1,215	2,332	1,809	1,899	1,940	2,075

TABLE 81

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Lamar U.	440	4,184	3,959	3,057	1,604	1,118	297	218	917	1,280	1,604	1,157	1,157	625	2,066
Murray State U.	441	2,074	2,471	1,904	816	601	793	555	1,200	1,587	2,607	1,911	2,641	2,161	2,058
Christopher Newport U.	442	1,035	1,587	1,230	1,083	1,263	938	779	859	1,068	1,285	1,347	1,487	1,674	2,053
CUNY, Graduate Center	443	2,663	1,652	1,849	2,180	2,127	1,707	1,004	i 830	2,313	2,785	2,206	2,251	1,289	1,993
Bowie State U.	444	ne	1,910	1,739	1,422	1,761	1,497	1,507	987	1,100	876	1,368	980	3,112	1,977
Harvey Mudd C.	445	2,049	2,594	2,038	2,004	1,457	1,633	2,320	1,521	1,762	1,619	1,748	1,443	1,956	1,968
California State U., Bakersfield	446	637	727	641	1,721	1,140	1,854	1,662	2,416	3,243	4,245	4,244	3,167	1,675	1,967
Alfred U.	447	1,645	1,964	1,625	1,447	1,310	1,305	1,318	883	1,403	1,580	947	939	1,008	1,958
New England C. of Optometry	448	726	1,236	1,685	1,588	533	419	618	ne	837	928	785	1,623	1,609	1,946
Hawaii Pacific U.	449	ne	525	858	850	1,116	789	2,071	1,921	1,905	1,809	1,699	1,741	1,848	1,939
Bowdoin C.	450	1,806	1,876	3,300	3,240	2,330	2,154	2,452	1,811	2,026	1,777	1,862	1,767	1,702	1,938
Long Island U.	451	545	i 590	i 577	i 567	ne	ne	346	1,183	1,416	1,647	1,277	2,538	2,589	1,925
Pennsylvania State U., Harrisburg	452	963	1,288	1,161	377	194	565	270	215	292	80	437	1,597	1,234	1,920
CUNY, New York City C. of Technology	453	59	145	ne	ne	ne	ne	ne	ne	1,978	1,795	1,359	884	1,383	1,849
U. Central Oklahoma	454	1,059	1,146	750	765	993	1,422	1,081	850	1,048	1,277	1,266	i 1,329	i 1,668	i 1,848
Texas A&M International U.	455	1,481	1,191	985	868	977	658	911	1,722	1,980	1,814	941	1,203	1,611	1,831
U. Puerto Rico, Humacao	456	1,950	i 1,976	1,949	1,452	1,102	669	ne	ne	882	828	1,279	1,137	1,160	1,822
Grand Valley State U.	457	1,078	1,610	i 2,142	i 2,675	2,151	2,033	1,479	1,365	1,719	1,663	1,783	1,407	1,802	1,808
Northeastern Illinois U.	458	288	311	ne	ne	588	ne	ne	805	1,877	2,078	1,378	1,370	1,663	1,807
Pace U.	459	627	952	1,469	1,054	1,155	1,329	1,170	862	610	1,537	2,120	1,522	1,472	1,794
Texas Tech U., Health Sciences Center, El Paso	460	ne	ne	ne	ne	5,316	2,689	2,953	2,329	2,489	2,238	1,675	1,566	1,751	1,757
C. New Jersey	461	447	188	ne	ne	ne	ne	ne	874	778	ne	888	1,016	1,860	1,744
West Texas A&M U.	462	2,100	1,340	1,785	1,314	1,324	1,635	1,523	1,108	1,104	1,278	1,253	1,915	1,850	1,743
CUNY, system office	463	ne	ne	819	397	352	828	774	420	1,977	1,347	869	768	764	1,728
California State U., Channel Islands	464	ne	311	ne	316	520	825	244	122	269	500	513	953	1,621	1,720
Morehead State U.	465	1,291	1,656	1,591	1,798	961	1,064	1,668	2,051	1,672	1,471	1,657	1,709	2,086	1,718
Providence C.	466	857	726	ne	827	ne	1,162	981	783	960	857	913	574	ne	1,708
CUNY, Baruch C.	467	1,010	1,025	1,209	547	548	838	1,214	1,027	1,154	1,359	1,470	1,682	1,819	1,705
Indiana U. Pennsylvania	468	489	616	669	101	169	ne	321	1,303	891	1,773	1,221	1,432	1,797	1,702
Savannah State U.	469	1,774	2,518	1,874	2,514	2,127	1,796	2,245	1,388	1,778	1,709	1,804	1,804	1,881	1,675
Coastal Carolina U.	470	1,533	1,439	1,474	1,691	1,281	1,041	858	1,028	1,031	1,294	1,211	944	1,076	1,670

TABLE 81

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Albany State U.	471	396	893	1,988	1,532	1,271	1,005	965	842	649	903	506	370	ne	1,669
Black Hills State U.	472	1,355	1,097	1,118	1,123	662	635	1,127	812	813	860	1,234	1,048	1,600	1,666
Benedict C.	473	1,473	2,925	2,713	2,625	2,443	1,373	1,621	1,634	1,889	1,226	633	ne	ne	1,665
Utah Valley U.	473	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,280	1,665
U. Louisiana, Monroe	475	1,470	1,971	1,752	976	1,705	1,479	2,016	1,838	1,789	1,949	2,025	1,465	1,993	1,655
Mount Holyoke C.	476	1,346	1,883	1,790	1,775	2,374	2,314	2,848	3,168	2,210	2,074	1,442	1,539	1,511	1,612
Pittsburg State U.	477	999	1,280	989	791	1,006	448	270	316	195	339	477	759	1,167	1,591
SUNY, Buffalo State U.	478	1,247	1,958	2,348	1,336	1,076	846	849	860	1,040	1,203	1,240	977	1,255	1,582
U. Nebraska, Kearney	479	289	1,018	714	838	652	513	870	975	1,014	1,227	1,259	1,286	1,794	1,580
Loyola Marymount U.	480	894	2,759	1,139	1,154	906	809	638	705	616	982	997	1,339	1,786	1,577
U. Texas, Tyler	481	1,689	977	2,084	1,325	280	309	352	613	718	813	774	929	1,585	1,550
Virginia Military Institute	482	451	133	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,137	1,534
Roger Williams U.	483	1,056	1,391	1,362	1,206	1,454	1,124	1,215	1,183	854	828	844	972	982	1,522
Colgate U.	484	1,519	1,058	1,497	1,320	1,153	1,109	1,217	1,096	1,389	1,202	858	1,440	1,570	1,521
Palmer C. of Chiropractic, Davenport	485	3,009	3,344	2,906	1,991	1,775	i 1,558	1,485	1,189	1,100	1,100	1,400	1,733	1,550	1,500
Hofstra U.	486	920	948	1,117	666	997	1,836	1,762	1,307	1,060	915	606	960	1,820	1,477
Lake Superior State U.	487	ne	133	ne	ne	ne	327	272	726	237	ne	ne	ne	1,184	1,475
Franklin and Marshall C.	488	1,857	1,397	1,116	879	867	991	945	1,711	1,760	1,580	1,202	1,363	1,680	1,469
CUNY, York C.	489	ne	1,507	812	693	ne	288	ne	ne	ne	1,477	1,480	889	1,638	1,459
U. Central Arkansas	490	1,560	1,300	1,314	1,033	1,145	1,222	931	1,183	1,113	1,347	1,374	1,135	1,482	1,458
Bates C.	491	971	1,485	1,555	1,390	1,114	2,004	1,156	1,053	1,121	1,607	1,885	2,079	1,785	1,455
Ferris State U.	492	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,430
Claflin U.	493	3,226	5,103	5,090	2,556	1,511	1,158	1,726	1,344	1,491	1,735	1,907	1,005	1,179	1,418
Austin Peay State U.	494	ne	729	481	364	189	334	301	347	599	295	475	597	870	1,401
Oregon Institute of Technology	495	ne	193	ne	ne	ne	63	1,268	694	i 217	437	i 326	252	i 340	i 1,375
Norwich U.	496	ne	1,064	733	878	811	1,121	461	122	ne	ne	ne	ne	ne	1,366
U. Alaska, Southeast	497	1,150	941	887	1,001	1,158	1,341	1,502	1,480	1,636	1,235	1,092	1,046	1,392	1,364
U. Northern Colorado	498	1,606	1,513	1,117	956	1,867	1,230	1,674	1,752	1,745	1,518	1,233	1,362	1,300	1,341
West Chester U. Pennsylvania	499	3,531	i 5,691	788	513	392	500	453	618	425	704	575	486	835	1,338
Davidson C.	500	1,153	1,053	651	1,574	1,166	1,703	810	1,099	738	895	1,254	1,112	1,370	1,329
Williams C.	501	2,330	2,117	2,029	1,498	1,029	1,700	1,614	1,703	1,458	1,131	1,086	i 1,152	i 1,165	i 1,318
U. Richmond	502	2,050	1,705	2,097	1,747	2,004	1,738	1,924	1,870	1,628	1,545	1,588	1,522	1,611	1,308
Nevada State C.	503	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,167	1,307
Furman U.	504	1,245	984	1,044	1,108	857	1,071	1,068	1,292	1,110	1,106	847	1,028	1,280	1,300

TABLE 81

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
U. of the Pacific	504	1,667	1,414	749	823	985	1,019	1,879	1,403	2,057	2,144	1,362	1,106	1,351	1,300
U. Puget Sound	504	86	186	ne	ne	ne	ne	ne	459	ne	ne	397	ne	743	1,300
New School	507	1,376	1,512	1,830	2,370	1,892	2,106	2,366	2,126	1,665	1,790	986	960	1,164	1,290
Bryn Mawr C.	508	932	1,469	1,619	1,853	1,346	1,713	1,641	1,432	1,265	1,052	833	774	1,257	1,289
Texas A&M U.-Commerce	508	1,078	941	1,182	1,319	1,067	1,121	582	604	956	780	1,004	1,085	1,494	1,289
Touro U., California	510	999	1,196	1,390	1,351	1,374	1,332	1,199	1,196	1,410	1,540	1,546	1,375	964	1,279
SUNY, Geneseo	511	679	1,278	1,499	609	455	635	908	992	998	1,184	950	1,187	1,514	1,276
U. Hartford	512	820	1,571	1,450	1,165	1,080	992	1,172	1,178	62	1,019	842	766	886	1,269
Albany C. of Pharmacy and Health Sciences	513	1,380	1,634	1,182	1,333	1,643	1,065	380	566	1,092	1,690	1,938	1,900	1,110	1,256 i
Southeastern Louisiana U.	514	942	735	794	815	692	1,212	757	1,027	830	586	884	582	1,074	1,254
Skidmore C.	515	1,872	1,562	1,334	1,448	1,170	969	732	1,179	1,878	2,261	1,827	1,739	796	1,233
Yeshiva U.	516	163,399	197,032	201,397	193,831	186,885	180,791	30,266	816	683	380	772	1,509	1,695	1,229
U. Houston-Clear Lake	517	301	818	730	875	739	541	756	753	894	718	632	865	841	1,207
Pomona C.	518	1,038	1,769	1,528	2,144	1,789	1,074	1,579	1,038	867	861	1,123	930	1,217	1,205
Vassar C.	519	1,236	1,552	993	1,136	999	954	1,417	1,579	4,185 i	909	1,055	918	952	1,204
Southern Connecticut State U.	520	0	899	605 i	446	1,620 i	1,205 i	981	1,004	766	718	885	613	707	1,192
U. Wisconsin-Green Bay	521	724	631 i	592 i	552 i	512 i	470 i	833 i	604 i	526 i	792 i	859 i	845 i	1,009 i	1,179 i
Western Carolina U.	521	1,273	691	931	647	669	740	873	963	992	1,650	1,615	1,625	1,462	1,179
Fayetteville State U.	523	2,188	1,810	1,421	1,690	2,185	1,792	2,740	2,202	2,251	1,974	799	979	1,060	1,174 i
U. Baltimore	524	1,518	2,328	2,391	2,063	2,513	2,390	3,479	2,922	1,642	1,309	1,024	848	1,092	1,171
California State U., Stanislaus	525	ne	1,037 i	1,070	650	341	174	221	478	734	964	1,284	1,354	1,056	1,150
Kean U.	526	ne	550	1,191	347	ne	244	8	ne	ne	ne	522	242	388	1,141
Lafayette C.	526	1,223	1,421	1,149	1,145	853	1,052	858	1,303	968	838	745	499	1,291	1,141
United Tribes Technical C.	528	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,137
SUNY, C. Plattsburgh	529	1,187	726	454	ne	459	717	545	455	1,254	1,142	930	786	584	1,121
Stephen F. Austin State U.	530	4,704	1,385	953	1,055	1,118	1,565	1,011	835	785	1,297	884	814	833	1,098
Kenyon C.	531	413	358	ne	ne	ne	ne	ne	ne	764	776	714	ne	1,021	1,092
U. of the Incarnate Word	532	ne	111	ne	ne	ne	403	ne	ne	868	1,075	869	1,076	1,078	1,086
Butler U.	533	ne	173	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,227	1,077
Grinnell C.	534	1,155	287	648	372	414	546	340	582	588	326	617	309	209	1,068
Dillard U.	535	2,711	5,019 i	7,325	7,692	6,889	8,851	7,585	5,592	5,503	1,390	1,164	841	992	1,048
Macalester C.	536	1,044	1,455	1,075	871	878	708	771	970	553	805	647	617	852	1,044
Claremont McKenna C.	537	1,102	1,061	1,082 i	1,081 i	1,080 i	ne	604	754	555	730	741	637	1,070	1,035
U. Wisconsin-Eau Claire	538	1,271	826	786	646	393	ne	660	925	690	742	647	909	681	1,027

TABLE 81

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023							
Hobart and William Smith Colleges	539	1,030	1,206	914	1,786	666	378	ne	528	ne	1,047	1,072	758	1,264	1,019							
Eastern Washington U.	540	46	559	725	1,226	885	955	1,244	1,181	997	811	1,092	772	848	1,015							
U. San Francisco	540	335	313	1,842	858	738	503	280	405	310	198	148	255	547	1,015							
Colorado State U., Pueblo	542	364	354	ne	ne	ne	ne	ne	ne	ne	1,282	1,161	1,508	1,278	952							
Ursinus C.	543	413	462	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	942							
U. Hawaii, Maui C.	544	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	841	ne	939							
U. Texas of the Permian Basin	545	627	692	786	716	489	595	510	328	50	ne	736	1,610	1,538	935							
Florida Polytechnic U.	546	na	na	na	na	na	203	ne	ne	ne	338	252	424	631	931							
SUNY, Oswego	547	644	871	ne	673	ne	ne	ne	669	661	628	492	415	544	894							
Merrimack C.	548	ne	ne	ne	ne	ne	ne	ne	ne	353	ne	306	ne	ne	892							
Oberlin C.	549	1,359	1,183	1,330	1,204	1,204	1,364	962	1,558	1,096	1,576	743	505	ne	880							
St. Olaf C.	550	1,235	843	1,220	955	760	668	849	769	287	240	227	265	ne	876							
Minnesota State U., Mankato	551	2,001	812	667	297	296	357	1,189	522	639	708	525	575	575	864							
National U. of Natural Medicine	552	ne	247	ne	ne	ne	ne	ne	427	ne	760	912	523	ne	862							
Calvin U.	553	2,031	556	664	731	1,208	1,034	i	795	880	1,332	900	927	i	928	i	930	854				
Abilene Christian U.	554	537	427	ne	ne	ne	ne	ne	ne	ne	ne	ne	757	934	851							
Northwest Indian C.	555	1,943	1,993	i	2,044	2,216	1,705	i	1,154	i	ne	ne	1,649	2,201	572	i	683	i	791	846	i	
U. Wisconsin-Oshkosh	555	769	1,100	1,140	971	i	1,005	i	1,040	i	ne	1,068	i	1,061	i	1,054	i	1,048	i	1,039	1,114	846
Northwestern State U. Louisiana	557	635	683	609	590	494	ne	490	458	490	579	598	738	742	822	i						
Seattle U.	558	467	i	622	530	ne	848	890	809	748	873	574	487	262	452	818						
SUNY, C. Brockport	559	521	677	989	755	564	535	639	747	672	638	781	500	723	802							
Naval War C.	560	ne	ne	0	i	0	i	0	0	3,797	i	4,384	679	724	794	929	800					
Eastern Kentucky U.	561	2,371	2,736	2,149	1,630	1,251	919	1,000	758	619	598	524	530	ne	798							
U. Scranton	562	19	64	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	796							
Rhode Island C.	563	ne	1,195	1,140	993	851	726	1,107	860	669	726	1,102	1,470	1,298	786							
U. South Carolina, Aiken	564	122	i	592	ne	937	759	i	689	1,155	2,697	2,437	2,063	2,328	1,880	857	782					
Lewis and Clark C.	565	818	684	718	1,490	1,378	872	636	723	834	931	1,268	702	746	776							
Northland C.	565	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	615	i	686	i	776	i				
Monmouth U.	567	2,190	1,873	714	ne	635	ne	173	ne	ne	120	110	174	535	762							
U. South Carolina, Beaufort	568	338	i	675	ne	ne	ne	478	ne	ne	ne	ne	ne	ne	752							
U. Houston-Downtown	569	905	1,178	1,824	464	496	773	620	828	703	130	274	504	345	745							

TABLE 81

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
U. Puerto Rico, Cayey	570	601	871	1,515	1,168	1,143	959	1,105	704	632	963	1,210	1,202	757	733
Lawrence Technological U.	571	2,809	2,425	1,106	985	739	971	326	569	457	294	296	252	588	729
Union C., Schenectady	571	1,427	959	867	1,863	1,385	1,080	1,680	554	872	964	462	976	750	729
Milwaukee School of Engineering	573	1,177	1,181	1,207	1,245	1,500	1,335	1,164	775	680	764	613	751	969	722
U. Wisconsin-La Crosse	574	2,150	2,013	i 1,876	1,240	1,095	1,006	1,250	1,158	1,171	775	809	895	968	713
Framingham State U.	575	ne	ne	ne	ne	ne	ne	ne	4	17	ne	179	352	i 525	700
Stockton U.	576	ne	405	160	ne	380	198	221	ne	246	549	663	486	728	688
Edward Via C. of Osteopathic Medicine	577	ne	707	502	517	250	89	88	94	195	749	566	537	482	678
Trinity C., Hartford	578	1,026	1,217	1,432	1,040	1,313	889	893	2,084	794	1,077	1,019	1,348	1,049	666
Texas A&M U.-San Antonio	579	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	394	661
Salisbury U.	580	422	586	360	674	1,155	967	841	806	369	658	204	416	469	658
U. Oklahoma, Tulsa	581	ne	ne	ne	ne	ne	882	1,046	883	1,531	1,415	1,559	681	1,098	649
Franklin W. Olin C. of Engineering	582	ne	666	1,090	946	1,050	1,103	782	473	425	111	255	636	805	641
Robert Morris U.	583	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	567	i 622
Claremont Graduate U.	584	4,888	1,050	6,200	7,030	5,517	i 4,696	i 3,876	i 3,056	i 2,236	i 1,414	803	626	649	617
Colorado C.	585	412	362	307	269	511	570	320	585	259	202	91	197	702	611
SUNY, Cobleskill	586	1,382	909	ne	844	ne	ne	ne	ne	ne	ne	ne	ne	379	605
Marian U., Indianapolis	587	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	596
C. Wooster	588	249	512	183	ne	404	386	i ne	736	744	456	283	505	i 730	583
Elizabeth City State U.	589	5,352	10,176	3,673	3,767	1,956	1,644	1,619	1,305	960	ne	992	1,266	1,150	556
U. Wisconsin-River Falls	590	134	174	i ne	ne	ne	ne	ne	501	445	ne	488	212	ne	551
Alaska Pacific U.	591	283	349	ne	ne	ne	532	322	252	217	304	121	187	542	546
Western New England U.	592	ne	931	325	ne	ne	ne	580	214	ne	ne	ne	ne	648	538
Southern U., New Orleans	593	0	254	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	536
Liberty U.	594	ne	ne	ne	ne	ne	ne	ne	ne	ne	535	486	120	ne	532
Des Moines U.	595	62	91	ne	ne	224	ne	363	842	897	805	425	1,019	i 1,589	521
Gettysburg C.	596	524	266	ne	ne	ne	ne	ne	597	901	841	320	ne	ne	517
U. of St. Thomas (MN)	597	656	720	557	570	352	ne	195	212	320	313	450	1,321	472	514
Northern Michigan U.	598	287	124	ne	ne	ne	ne	228	96	151	258	418	366	513	511
Winthrop U.	598	ne	871	935	651	594	676	490	391	442	634	697	679	628	511
Connecticut C.	600	954	1,005	1,130	833	514	756	817	777	505	752	483	439	554	501

TABLE 81

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
West Virginia School of Osteopathic Medicine	601	22	17	ne	ne	ne	ne	ne	ne	ne	ne	414	418	468	500 i
Willamette U.	602	441	419	911	646	672	730	757	739	807	435	222	486	587	490
Indiana State U.	603	990	1,352	1,268	858	1,005	925	954	510	629	821	635	292	579	464
U. Puerto Rico, Ponce	604	ne	130	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	460
Ithaca C.	605	617	627	774	788	763	570	ne	ne	ne	ne	981	685	703	453
Johnson C. Smith U.	606	ne	ne	ne	ne	ne	ne	483	603	994	913	1,087	405 i	370	449
Whitman C.	606	1,072	957	398	ne	ne	ne	ne	ne	ne	701	558	ne	434	449
U. Virginia's C. Wise	608	76	38	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,307	786	447
Andrews U.	609	280	77	ne	ne	ne	ne	ne	ne	ne	278	263	256	ne	445
Philadelphia C. of Osteopathic Medicine	610	812	850	694	277	104	192	150	260	260	346	422	318	40	442
U. Illinois, Springfield	611	332	373	554	503	405	307	527	1,169	1,108	966	971	1,056	881	440
Bryant U.	612	ne	143	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	436
Marshall B. Ketchum U.	613	ne	ne	ne	ne	48	224	375	368 i	354 i	336 i	323 i	343 i	383 i	433 i
Wheaton C., Wheaton	614	ne	585	114	ne	168	162	ne	70	50	301	324	148	ne	428
Bentley U.	615	ne	ne	ne	ne	ne	ne	ne	110	ne	ne	ne	ne	223	426
U. Wisconsin-Platteville	616	46	50 i	ne	ne	287 i	266 i	ne	299 i	ne	294 i	292 i	321 i	396 i	423 i
Manhattan C.	617	166	245	ne	ne	ne	ne	ne	ne	ne	245	398	397	440	422
Canisius U.	618	154	181	ne	ne	ne	ne	ne	1,330	1,044	943	ne	597	454	411
Hamilton C.	619	812	1,085	1,070	848	413	202	173	48	78	88	61	259	329	409
Pepperdine U.	620	199	172	428	465	586	724	966	343	289	399	261	410	364	402
Marymount U.	621	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	337	178	396
Sul Ross State U.	622	1,595	1,672	1,073	735	546	333	272	440	553	339	481	206 i	294 i	383
Elon U.	623	ne	40	111	161	143	92	194	213	285	264	106	138	361	381
Sacred Heart U.	624	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	103	ne	371
U. North Georgia	625	ne	ne	ne	ne	ne	ne	ne	257	198	222	183	435	597	367
Gustavus Adolphus C.	626	97	109	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	364
Lincoln U.	627	1,114	951	1,313	861	ne	ne	ne	ne	645	ne	ne	ne	ne	342
Drake U.	628	361	229	ne	560	ne	ne	830	486	262	220	ne	371	525	324
Indiana U., South Bend	629	282	494	375	638	575	408	344	239	100	ne	ne	262	ne	323
St. Edward's U.	630	ne	3,073	2,450	2,640	1,633	4,200	3,600	5,560	1,596	4,893	4,568	3,980	1,010	315
Pennsylvania State U., Altoona	631	265	386	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	297
Central Connecticut State U.	632	351	662	666	601	433	193	131	208	ne	328	518	508	470	285

TABLE 81

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2023 R&D expenditures: FYs 2010–23

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
U.S. Coast Guard Academy	633	628	487	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	278
Grambling State U.	634	993	1,515	1,298	1,077	1,065	915	974	846	778	558	359	436	404	i 275
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	635	ne	106	179	340	523	264	643	206	201	191	342	376	858	273
Suffolk U.	636	ne	299	198	351	313	217	411	i 573	i ne	ne	842	634	340	233
Albion C.	637	ne	113	ne	ne	ne	ne	ne	210	114	180	272	257	i 242	i 226
Purdue U., Fort Wayne	638	1,231	1,490	1,132	1,121	806	956	742	688	766	476	561	379	280	208
Heidelberg U.	639	ne	266	i ne	349	199	272	294	428	163	164	188	308	262	197
St. Cloud State U.	640	501	380	215	420	797	1,299	561	554	494	515	141	273	90	196
Fairfield U.	641	372	401	379	i 354	810	339	435	982	1,172	563	365	147	ne	180
William Paterson U.	642	105	140	ne	ne	ne	ne	299	178	195	626	1,072	1,240	1,318	163
Lipscomb U.	643	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	188	i 203	ne	159
U. of Mary Washington	644	ne	563	i 79	ne	ne	187	ne	ne	46	128	207	246	237	149
New C. Florida	645	514	626	451	ne	332	ne	ne	167	ne	ne	ne	ne	ne	146
Azusa Pacific U.	646	ne	970	609	i ne	ne	323	606	334	199	125	128	206	282	140
St. Mary's C. Maryland	646	233	327	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	140
Radford U.	648	136	162	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	109
East Stroudsburg U. Pennsylvania	649	ne	250	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	128	100
Eastern Connecticut State U.	650	ne	0	ne	ne	6	17	27	19	36	181	177	108	42	70
C. of Saint Benedict	651	ne	0	ne	72	71	53	38	44	47	45	i 43	i 42	i 47	i 53
Roseman U. of Health Sciences	652	ne	0	ne	ne	131	0	0	0	18	37	i 56	53	30	38
U. California, Office of the President	653	121	483	1,048	599	248	181	295	288	343	319	217	379	158	25
Arcadia U.	654	460	726	537	ne	ne	ne	ne	ne	ne	ne	ne	178	ne	18
Babson C.	655	ne	187	ne	ne	ne	ne	0	0	0	0	0	0	16	2
Lincoln Memorial U.	655	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	2
All other surveyed institutions	-	1,273,444	1,432,682	1,398,836	1,297,713	1,065,253	1,040,197	1,070,686	1,126,617	1,207,511	633,373	601,309	262,871	251,330	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

^a Johns Hopkins University includes the Applied Physics Laboratory, with \$2,268,228 thousand in federally financed R&D expenditures in science and engineering fields in FY 2023.

^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^c The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

^d The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

^e The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

^f The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

^g Touro University, New York includes the Lovelace Biomedical Research Institute. In FY 2023, the Lovelace Biomedical Research Institute joined the Touro University System.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 82

Higher education R&D expenditures in science and engineering fields, by state: FYs 2010–23

(Dollars in thousands)

State	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
United States	58,387,551	61,988,017	62,198,981	63,342,770	63,733,283	64,906,285	67,603,195	70,847,390	74,381,834	78,633,035	81,267,384	84,582,281	91,807,095	101,776,017
Alabama	829,363	878,622	804,713	807,180	784,855	868,160	912,302	942,186	986,864	1,055,431	1,110,640	1,188,117	1,327,000	1,468,247
Alaska	141,190	140,736	135,751	133,170	168,948	157,565	163,092	171,166	161,208	165,930	174,978	193,723	223,423	238,738
Arizona	901,697	951,223	987,123	1,013,898	987,348	1,031,313	1,072,623	1,139,852	1,284,772	1,346,997	1,401,055	1,404,585	1,530,037	1,738,688
Arkansas	255,537	270,576	275,503	278,640	268,551	278,259	284,160	288,722	311,100	331,290	343,986	362,908	394,519	425,398
California	7,579,752	7,927,260	8,102,898	8,056,392	8,121,682	8,330,954	8,559,613	8,887,137	9,768,877	10,105,735	10,513,989	10,780,830	11,600,480	12,867,611
Colorado	1,128,509	1,240,906	1,249,413	1,200,521	1,184,397	1,226,205	1,326,252	1,402,890	1,486,702	1,539,154	1,569,639	1,670,248	1,809,304	1,988,403
Connecticut	866,600	922,694	924,773	1,041,810	1,029,748	1,062,809	1,143,663	1,210,466	1,251,620	1,352,731	1,370,202	1,463,045	1,560,405	1,711,973
Delaware	161,927	178,496	176,743	187,730	187,295	183,868	189,768	195,591	198,476	223,447	234,144	243,849	366,993	436,937
District of Columbia	430,944	446,448	455,063	463,042	487,260	488,789	483,863	524,970	547,181	575,707	590,359	621,093	673,011	747,007
Florida	1,778,300	1,896,576	1,930,189	1,921,895	2,019,460	2,080,940	2,217,780	2,348,688	2,285,505	2,366,988	2,385,208	2,443,548	2,721,350	3,149,828
Georgia	1,611,447	1,657,919	1,711,596	1,789,112	1,850,346	1,918,019	2,029,544	2,177,129	2,283,980	2,460,830	2,574,883	2,756,632	3,057,858	3,439,094
Hawaii	314,652	325,915	328,168	338,992	330,584	328,698	314,431	297,425	294,453	298,641	295,641	291,663	297,042	335,554
Idaho	122,754	139,392	142,976	139,444	137,825	142,954	150,043	156,152	161,196	157,439	162,335	159,549	173,255	195,999
Illinois	2,146,061	2,264,226	2,269,727	2,407,183	2,238,266	2,284,059	2,265,419	2,369,632	2,438,295	2,577,826	2,637,429	2,794,799	3,025,370	3,307,153
Indiana	1,048,218	1,141,830	1,150,327	1,200,697	1,169,076	1,191,841	1,235,217	1,294,203	1,331,646	1,511,310	1,592,757	1,569,076	1,718,313	1,954,293
Iowa	689,831	705,684	695,465	693,052	743,656	726,233	774,017	786,287	838,401	837,341	829,217	870,733	943,254	1,029,549
Kansas	460,629	466,851	479,721	499,788	485,562	489,955	478,843	502,399	540,529	601,894	635,019	673,119	766,214	907,989
Kentucky	538,189	555,579	546,893	515,406	505,815	499,960	526,377	561,729	576,050	589,110	614,163	631,075	707,191	725,709
Louisiana	657,569	667,523	653,885	632,537	627,547	609,102	630,012	633,514	687,619	728,488	737,195	757,416	858,759	963,915
Maine	118,832	129,236	118,589	103,373	120,628	98,607	97,680	120,471	126,229	141,775	143,241	154,111	179,767	198,712
Maryland	3,094,055	3,366,663	3,308,014	3,376,440	3,514,719	3,704,962	3,744,025	3,967,074	4,112,572	4,555,760	4,660,788	4,829,448	5,068,102	5,866,249
Massachusetts	2,628,804	2,806,845	3,010,696	3,246,125	3,218,358	3,406,239	3,521,012	3,631,981	3,717,256	3,986,389	4,059,512	4,258,997	4,506,757	4,786,106
Michigan	1,903,476	2,029,656	2,076,947	2,134,096	2,115,363	2,202,000	2,320,601	2,497,196	2,604,342	2,712,101	2,693,967	2,654,268	2,887,079	3,162,241
Minnesota	802,840	866,304	840,731	869,824	885,306	882,516	912,843	917,633	951,455	1,011,132	1,037,129	1,072,582	1,195,186	1,308,559
Mississippi	418,235	431,365	437,775	385,916	378,750	381,383	412,153	437,120	438,422	493,183	475,626	453,990	506,216	548,454
Missouri	964,192	984,357	1,055,960	1,028,703	1,014,509	1,046,359	1,112,509	1,146,069	1,213,421	1,318,262	1,383,261	1,508,463	1,632,661	1,772,740
Montana	195,619	182,326	184,754	175,054	172,201	171,530	184,756	216,170	214,221	250,102	262,328	301,966	309,036	346,235
Nebraska	383,260	393,395	419,164	419,565	428,017	435,767	447,703	478,198	498,045	534,272	545,352	549,429	582,731	635,715
Nevada	170,989	160,254	149,323	147,079	146,056	148,339	172,933	185,836	221,608	241,651	252,741	264,939	274,271	290,710
New Hampshire	298,650	341,848	349,891	335,518	337,909	336,857	361,834	413,173	422,319	423,530	432,458	446,698	497,700	534,353
New Jersey	1,022,690	1,091,890	1,060,469	1,120,119	1,081,018	1,048,622	1,067,318	1,137,993	1,231,456	1,227,813	1,308,824	1,261,263	1,429,172	1,618,815
New Mexico	407,429	400,121	390,548	390,745	400,180	377,543	352,296	358,025	361,605	357,866	368,423	467,256	535,612	552,260
New York	4,782,174	5,105,083	5,157,872	5,327,470	5,450,410	5,449,862	5,817,824	6,048,744	6,271,932	6,714,700	6,793,694	7,211,185	7,814,382	8,510,607
North Carolina	2,422,947	2,603,702	2,618,572	2,669,329	2,741,270	2,744,906	2,847,296	2,991,666	3,104,305	3,275,092	3,257,648	3,369,009	3,718,119	4,153,027
North Dakota	202,626	209,430	213,666	212,705	215,551	212,524	221,251	241,188	240,568	246,564	251,914	282,924	302,250	349,010

TABLE 82

Higher education R&D expenditures in science and engineering fields, by state: FYs 2010–23

(Dollars in thousands)

State	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Ohio	1,963,559	2,107,830	2,017,370	2,048,353	2,043,780	2,017,358	2,055,047	2,164,145	2,249,451	2,382,832	2,396,135	2,667,300	2,932,213	3,226,963
Oklahoma	383,110	418,373	412,978	384,729	391,926	392,480	428,939	440,486	455,130	472,673	538,006	521,183	554,968	614,502
Oregon	663,378	701,228	680,956	667,974	670,105	679,739	701,813	731,137	771,348	812,126	846,674	880,461	950,009	1,040,749
Pennsylvania	3,026,823	3,201,566	3,125,789	3,237,847	3,210,166	3,249,295	3,710,218	3,948,483	4,162,865	4,396,905	4,562,113	4,678,719	5,114,877	5,672,383
Rhode Island	287,708	330,272	335,689	320,663	379,144	376,956	330,471	304,913	341,277	357,749	363,967	389,635	417,104	476,708
South Carolina	616,972	576,881	563,599	567,300	565,820	571,747	605,162	617,864	618,354	615,442	645,325	649,734	697,929	797,931
South Dakota	126,562	132,295	123,383	113,284	100,343	97,179	102,269	108,230	111,203	113,692	105,707	95,252	112,565	124,541
Tennessee	879,994	952,398	968,317	973,486	1,079,491	1,022,308	1,037,952	1,133,255	1,209,155	1,244,917	1,307,526	1,515,424	1,576,218	1,761,938
Texas	4,220,820	4,427,560	4,413,601	4,585,482	4,658,686	4,794,484	4,994,430	5,192,867	5,312,828	5,600,114	6,186,567	6,433,187	7,034,671	7,767,791
Utah	551,607	614,316	608,199	673,095	674,070	715,106	537,012	540,493	784,478	862,465	912,369	959,210	935,032	1,115,929
Vermont	132,519	136,623	119,802	120,178	113,711	118,957	119,665	121,257	131,483	138,530	181,505	185,234	204,326	221,895
Virginia	1,134,387	1,300,258	1,283,852	1,323,095	1,287,075	1,302,589	1,356,482	1,436,045	1,540,781	1,665,152	1,763,756	1,752,594	1,895,162	2,020,435
Washington	1,304,992	1,438,349	1,376,467	1,390,618	1,366,825	1,401,988	1,493,125	1,578,678	1,654,786	1,674,824	1,688,927	1,762,281	1,843,810	2,032,112
West Virginia	178,435	195,952	189,225	184,992	184,291	187,867	188,571	198,131	200,660	202,161	206,447	220,189	237,309	270,953
Wisconsin	1,230,932	1,338,580	1,330,338	1,277,944	1,271,868	1,227,594	1,336,139	1,401,938	1,439,377	1,558,846	1,639,168	1,671,344	1,840,748	2,079,218
Wyoming	53,957	55,320	63,812	63,149	48,736	54,928	108,552	121,927	112,857	79,928	91,738	92,230	132,538	139,898
American Samoa	ne	ne	ne	ne	ne	1,337	793	ne	ne	860	ne	815	ne	ne
Guam	5,555	5,477	5,975	5,873	6,790	5,919	7,351	8,803	11,053	12,001	12,674	17,212	19,708	21,815
Puerto Rico	114,982	152,435	141,188	123,784	117,258	121,299	116,936	108,032	98,665	113,669	105,413	112,510	94,830	104,119
Virgin Islands	31,272	21,373	24,543	18,374	14,732	19,456	21,215	12,031	11,853	11,668	13,622	15,231	20,259	20,259

ne = not eligible; no institutions within the state met the criteria for inclusion.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 83

Higher education R&D expenditures at institutions in the short form survey population in FY 2023, by state, institutional control, and institution: FYs 2020–23

(Dollars in thousands)

State, institutional control, and institution	2020	2021	2022	2023
Alabama				
Public				
Auburn U., Montgomery	312	442	698	1,281
Jacksonville State U.	1,244	275	197	538
U. North Alabama	ne	539	650	442
Private				
Alabama C., Osteopathic Medicine	303	184	236	311
Oakwood U.	538	474	340	427
Arizona				
Private				
Sonoran U. Health Sciences	ne	ne	520	600
Arkansas				
Public				
Arkansas Tech U.	856	751	921	668
Southern Arkansas U.	275	611	281	427
Private				
Arkansas C. of Health Education	900	672	301	277
Hendrix C.	649	651	709	587
Ouachita Baptist U.	268 i	217	309	378
California				
Public				
California State U., Maritime Academy	3,202	2,799	526	305
Private				
California Baptist U.	ne	ne	ne	554
California Lutheran U.	630	1,129	627	1,279
Dominican U. California	786 i	823 i	901 i	1,001 i
Fuller Theological Seminary	ne	ne	ne	271
Life Chiropractic C.-West	ne	ne	350	350
Palo Alto U.	417	428	426	473 i
Pitzer C.	313	225	287	330
Point Loma Nazarene U.	237	505	565	482
Southern California U. of Health Sciences	420 i	418	246	378
Westmont C.	211	295	340 i	388 i
Whittier C.	248	300	260 i	220
Colorado				
Public				
Colorado Mesa U.	452	823	802	443
Metropolitan State U. of Denver	496	416	666	651
Western Colorado U.	571	559	826	1,166
Private				
Regis U.	311	476	744	779
Connecticut				
Public				
Western Connecticut State U.	539	353	399	424
Private				
Quinnipiac U.	930 i	926 i	1,069 i	1,218 i
U. Bridgeport	164	ne	ne	542
Florida				
Private				
Barry U.	237	343	367	469

TABLE 83

Higher education R&D expenditures at institutions in the short form survey population in FY 2023, by state, institutional control, and institution: FYs 2020–23

(Dollars in thousands)

State, institutional control, and institution	2020	2021	2022	2023
Bethune-Cookman U.	636	928	707	682
Eckerd C.	406	367	596	1,599
Jacksonville U.	459	460	162	200
Keiser U.	423	443 i	485 i	539 i
Rollins C.	414	533	532	995
Stetson U.	670	611	580	513
U. Tampa	559	551	886	883
Georgia				
Public				
Clayton State U.	346	616	600	732
Columbus State U.	261	206	271	276
Georgia C. and State U.	270	247	216	294
Georgia Gwinnett C.	478	489	367	249
U. West Georgia	483	396 i	309	574
Valdosta State U.	496	423	262	225
Private				
Agnes Scott C.	152	351	433	494 i
Berry C.	646	371	541	1,046
Life U.	429	364	419	248
Idaho				
Public				
Lewis-Clark State C.	660	401	582	468
Private				
Northwest Nazarene U.	408	442	509	456
Illinois				
Public				
Eastern Illinois U.	540	529	553	869
Private				
Augustana C.	205	271	353	351
Benedictine U.	ne	ne	150	489
Bradley U.	851	416	240	301
Elmhurst U.	209	464	676	613
Illinois C. of Optometry	478	490	831	1,324
Lake Forest C.	372	267	493	562 i
Indiana				
Public				
Indiana U., Kokomo	483	441	490	429
Indiana U., Northwest	488	553	495	253
Indiana U., Southeast	582	591	523	421
Private				
DePauw U.	253	304	175	430
Earlham C.	165	287	405	815
Indiana Wesleyan U.	316	878	722	852
Manchester U.	286	266	303	249
Taylor U.	232	214	204	346
U. Evansville	245	284	285	336
Valparaiso U.	718	925	688	1,036
Wabash C.	ne	ne	465	370
Iowa				
Private				

TABLE 83

Higher education R&D expenditures at institutions in the short form survey population in FY 2023, by state, institutional control, and institution: FYs 2020–23

(Dollars in thousands)

State, institutional control, and institution	2020	2021	2022	2023
Coe C.	561	538	614	802
Cornell C.	370	464	409	563
Dordt U.	1,106	696	679	712
Luther C.	365	289 i	212	217
Kansas				
Public				
Emporia State U.	594	586	510	816
Fort Hays State U.	1,172	800	641	732
Kentucky				
Private				
Centre C.	376	265	314	232
Louisiana				
Public				
Louisiana State U., Shreveport	494	462	723	725
McNeese State U.	585	664	432	435
Nicholls State U.	650	551	687	1,259
Private				
Loyola U., New Orleans	338	476	911	419
Maine				
Public				
Maine Maritime Academy	ne	ne	198	203
U. Maine Farmington	961	996 i	1,174 i	1,289 i
U. Maine, Augusta	ne	ne	ne	317
Maryland				
Public				
Coppin State U.	202	299	398	357
Private				
Loyola U., Maryland	672	628	866	1,110
Maryland Institute C. of Art	618	634	407	292
Massachusetts				
Public				
Bridgewater State U.	345	522	954	750
Private				
C. of the Holy Cross	321	445	688	893
Emerson C.	919	581	581	665
Hult International Business School	910 i	953 i	1,043 i	1,159 i
MCPHS U.	473	346	290	426
Simmons U.	604	487	668	620
Stonehill C.	833	695	772	542
Michigan				
Public				
U. Michigan, Flint	1,247	752	933	1,243
Private				
Kalamazoo C.	603 i	600 i	692 i	789 i
Kettering U.	2,081	1,315	816	641
Minnesota				
Public				
Metropolitan State U.	156 i	162 i	176 i	196 i
Minnesota State U., Moorhead	169	462	420 i	378
U. Minnesota, Crookston	210	ne	ne	358

TABLE 83

Higher education R&D expenditures at institutions in the short form survey population in FY 2023, by state, institutional control, and institution: FYs 2020–23

(Dollars in thousands)

State, institutional control, and institution	2020	2021	2022	2023
U. Minnesota, Morris	1,004	855	805	698
U. Minnesota, Rochester	733	730	784	1,192
Private				
Augsburg U.	883	815	815	917
Concordia C., Moorhead	275	308	291	589
Hamline U.	ne	493	162	241
Saint Mary's U. Minnesota	610	640	889	789
St. Catherine U.	963	1,157	933	1,060
Mississippi				
Public				
Delta State U.	592	238	673	351
Mississippi Valley State U.	653	391	344	233
Private				
William Carey U.	ne	ne	ne	170
Missouri				
Public				
Northwest Missouri State U.	239	190	231	360
Truman State U.	296	237	327	318
U. Central Missouri	401	495	642	715
Private				
A. T. Still U. of Health Sciences	656	448	517	345
Graduate School of the Stowers Institute for Medical Research	416	555	780	666
Kansas City U.	235	ne	ne	274
Montana				
Public				
Aaniih Nakoda C.	ne	ne	864	1,226
Montana State U., Billings	399	522	685	870
Montana State U., Northern	322	372	214	292
Salish Kootenai C.	807	596	782	553
Nebraska				
Private				
Doane U.	896 i	699 i	502	374
Nevada				
Public				
C. Southern Nevada	194	335	303	210
Truckee Meadows Community C.	ne	ne	334	403
Private				
Touro U., Nevada	ne	ne	697	853
New Hampshire				
Public				
Keene State C.	1,063	919	770	1,071
Plymouth State U.	664	2,318	669	1,361
New Jersey				
Public				
Ramapo C. New Jersey	441	408	365	346
Private				
Fairleigh Dickinson U.	656	318	225	498
Rider U.	170	322	353	522
New Mexico				
Public				

TABLE 83

Higher education R&D expenditures at institutions in the short form survey population in FY 2023, by state, institutional control, and institution: FYs 2020–23

(Dollars in thousands)

State, institutional control, and institution	2020	2021	2022	2023
Eastern New Mexico U., Portales	358	355	499	394
Northern New Mexico C.	404	350	239	264
New York				
Public				
CUNY, Medgar Evers C.	882	694	595	881
SUNY, C. Cortland	255	381	530	715
SUNY, Farmingdale State C.	589	606	611	631
SUNY, New Paltz	330	329	308	392
SUNY, Old Westbury	335 i	347 i	428	634
SUNY, Oneonta	214	214	288	305
SUNY, Potsdam	ne	540	622	904
SUNY, system office	ne	ne	ne	205
Private				
Adelphi U.	351 i	342	377	495
Bard C.	242	248	255	263
Cooper Union	501	545	501	571 i
Iona U.	239	411	650	649
Marist C.	156	ne	ne	386
Niagara U.	1,124	509	440	661
Siena C.	884	923	675	764
St. Bonaventure U.	585	378	642	1,037
St. Lawrence U.	441	ne	ne	521
Utica U.	549	466	562	812
North Carolina				
Public				
U. North Carolina, general administration	3,942	4,024	3,522	5,735
U. North Carolina, Pembroke	344	243	290	297
Private				
Shaw U.	ne	ne	259	412
North Dakota				
Public				
Minot State U.	253	512	187	412
Ohio				
Private				
Antioch U.	ne	ne	263	225
Baldwin Wallace U.	ne	210	167	463
Denison U.	727	786 i	845	1,012
John Carroll U.	522	374	738	2,083
Ohio Wesleyan U.	323	404	267	323
Wittenberg U.	297	445	508	325
Oklahoma				
Public				
East Central U.	251	242	480	483
Northeastern State U.	406	279	351	187
Rogers State U.	ne	ne	ne	253
Southwestern Oklahoma State U.	484	614	531	582
Private				
Oral Roberts U.	ne	ne	ne	190
Oregon				
Public				

TABLE 83

Higher education R&D expenditures at institutions in the short form survey population in FY 2023, by state, institutional control, and institution: FYs 2020–23

(Dollars in thousands)

State, institutional control, and institution	2020	2021	2022	2023
Eastern Oregon U.	172	162	206	163
Southern Oregon U.	493	534	447	1,092
Private				
Linfield U.	319	239	154	271
U. Portland	737	718	811	986
Pennsylvania				
Public				
Commonwealth U. of Pennsylvania	ne	ne	ne	304
Kutztown U. Pennsylvania	472	292	450	722
Millersville U. Pennsylvania	402	931	395	224
Pennsylvania State U., Abington	ne	369	323	320
Pennsylvania State U., Berks	372	382	564	640
Pennsylvania State U., Great Valley School of Graduate Professional Studies	ne	927	432	712
Pennsylvania State U., New Kensington	ne	152	ne	378
Pennsylvania State U., Wilkes-Barre	ne	250	267	335
Pennsylvania Western U.	na	na	na	508
Slippery Rock U. Pennsylvania	390	295	323	583
Private				
Allegheny C.	449	ne	ne	532
American C. of Financial Services	ne	ne	338	376
Bryn Athyn C.	432	316	317	361 i
Delaware Valley U.	ne	182	265	183
Dickinson C.	929	767	798	1,584
Gannon U.	351	972	569	889
Geisinger Commonwealth School of Medicine	150 i	ne	ne	500
Juniata C.	937	380	545	1,177
La Salle U.	818	829	917	1,045 i
Lake Erie C. of Osteopathic Medicine	472	502	484	517
Mercyhurst U.	1,177 i	920 i	661	734 i
Moravian U.	309	255	386	516
Muhlenberg C.	398	288	447	509 i
Saint Francis U.	878	872	533	592 i
Salus U.	650	677	680	663
Susquehanna U.	496	360	333	499
Widener U., Chester	586	417	600	804
Wilkes U.	968	372	423	682
Rhode Island				
Private				
Rhode Island School of Design	3,918 i	4,499 i	5,080 i	5,661
Salve Regina U.	591	624	813	732
South Carolina				
Public				
Francis Marion U.	216	207	402	308
U. South Carolina Upstate	437	496	594	2,554
Private				
Coker U.	485	ne	ne	398
Converse U.	185	294	254	205
South Dakota				
Public				
Northern State U.	240	190	305	282

TABLE 83

Higher education R&D expenditures at institutions in the short form survey population in FY 2023, by state, institutional control, and institution: FYs 2020–23

(Dollars in thousands)

State, institutional control, and institution	2020	2021	2022	2023
Oglala Lakota C.	516	473	424	588
Private				
Augustana U.	1,038	1,013	724	757
Tennessee				
Private				
Sewanee: U. of the South	864	668	547	592
Southern C. of Optometry	446	ne	ne	288
Texas				
Public				
Angelo State U.	798	943	740	946
Midwestern State U.	891	882	886	1,027
Texas A&M U.-Central Texas	623	814	894	951
U. Houston-Victoria	ne	ne	ne	475
U. North Texas, Dallas	ne	ne	ne	1,293
Private				
Austin C.	342	302	349	388
LeTourneau U.	271	346	239	175
Southwestern U.	261	408	520	575
U. Dallas	ne	249	564	233
Utah				
Public				
Southern Utah U.	955	773	846	1,259
Weber State U.	676	822	813	1,026
Vermont				
Public				
Castleton U.	ne	ne	598	162
Northern Vermont U.	ne	ne	ne	400
Private				
Saint Michael's C.	957	876	754	754
Virginia				
Public				
Longwood U.	368	544	249	838
Private				
Roanoke C.	606	738	955	932
U. Lynchburg	ne	150 i	164 i	182 i
Washington and Lee U.	214	256	249	243
Washington				
Public				
Evergreen State C.	390	783	586	791
Private				
Gonzaga U.	506	212	640	535
Pacific Lutheran U.	449	370	495	347
Pacific Northwest U. of Health Sciences	808	ne	ne	307
Saint Martin's U.	201	299	305	152
Seattle Pacific U.	643	683	742	1,671
Whitworth U.	660	403	438 i	473
West Virginia				
Public				
Bluefield State U.	485	506	642	987
Concord U.	ne	ne	ne	807

TABLE 83

Higher education R&D expenditures at institutions in the short form survey population in FY 2023, by state, institutional control, and institution: FYs 2020–23

(Dollars in thousands)

State, institutional control, and institution	2020	2021	2022	2023
West Liberty U.	738	738	815	910
West Virginia U., Institute of Technology	ne	ne	ne	229
Private				
Future Generations U.	271 i	270 i	312 i	356 i
Wisconsin				
Public				
U. Wisconsin-Stout	555	406	367	512
U. Wisconsin-Whitewater	736	760	713	536
Private				
Alverno C.	237	215	228	263
Carthage C.	ne	ne	ne	1,013
Concordia U., Wisconsin	293	439	168	291
Lawrence U.	423	536	671	794
St. Norbert C.	304	412	741	629
Wyoming				
Public				
Central Wyoming C.	ne	ne	504	489
American Samoa				
Public				
American Samoa Community C.	1,536	815	961 i	1,055 i
Puerto Rico				
Public				
U. Puerto Rico, Aguadilla	562	639	823	741
U. Puerto Rico, Arecibo	ne	ne	ne	150 i
Private				
Polytechnic U. Puerto Rico	813	821	620	1,039
Pontifical Catholic U. Puerto Rico, Ponce	239	350	334	478
San Juan Bautista School of Medicine	612	598	662	740
U. Ana G. Mendez, Carolina	647	602	645	193
U. Ana G. Mendez, Cupey	818	739	728	746

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

Note(s):

Institutions are included in the short form population if they reported less than \$1 million in total R&D expenditures during the previous fiscal year. Institutions can move between the short form and standard form populations as their R&D expenditures increase or decrease; therefore, prior year amounts listed for some institutions may be represented in the aggregate totals for the standard form.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 84

Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields		
United States	160,140	7,678	7,845	52,503	3,857	20,268	3,955	13,745	4,572	6,740	38,977		
Public	68,963	3,696	4,205	20,929	1,799	8,004	847	6,029	1,568	2,688	19,198		
Private	91,177	3,982	3,640	31,574	2,058	12,264	3,108	7,716	3,004	4,052	19,779		
Alabama	2,999	65	100	832	366	347	11	22	153	53	1,050		
Public	2,261	65	100	336	366	347	11	22	13	7	994		
Auburn U., Montgomery	1,281	65	0	179	99	213	3	21	13	0	688		
Jacksonville State U.	538	0	90	153	57	0	0	0	0	6	232		
U. North Alabama	442	0	10	4	210	134	8	1	0	1	74		
Private	738	0	0	496	0	0	0	0	140	46	56		
Alabama C., Osteopathic Medicine	311	0	0	311	0	0	0	0	0	0	0		
Oakwood U.	427	0	0	185	0	0	0	0	140	46	56		
Arizona	600	0	0	600	0	0	0	0	0	0	0		
Private	600	0	0	600	0	0	0	0	0	0	0		
Sonoran U. Health Sciences	600	0	0	600	0	0	0	0	0	0	0		
Arkansas	2,337	70	0	674	62	643	8	283	193	194	210		
Public	1,095	19	0	22	62	312	8	253	193	16	210		
Arkansas Tech U.	668	6	0	0	62	67	0	253	193	13	74		
Southern Arkansas U.	427	13	0	22	0	245	8	0	0	3	136		
Private	1,242	51	0	652	0	331	0	30	0	178	0		
Arkansas C. of Health Education	277	51	0	226	0	0	0	0	0	0	0		
Hendrix C.	587	0	0	226	0	331	0	30	0	0	0		
Ouachita Baptist U.	378	0	0	200	0	0	0	0	0	178	0		
California	6,031	71	75	2,247	176	390	934	612	586	352	588		
Public	305	0	66	0	155	0	0	5	0	79	0		
California State U., Maritime Academy	305	0	66	0	155	0	0	5	0	79	0		
Private	5,726	71	9	2,247	21	390	934	607	586	273	588		
California Baptist U.	554	0	0	0	0	118	140	0	61	178	57		
California Lutheran U.	1,279	9	9	213	0	61	13	249	376	65	284		
Dominican U. California	1,001	i	62	i	0	i	904	i	0	i	0	34	i
Fuller Theological Seminary	271	0	0	0	0	0	271	0	0	0	0		
Life Chiropractic C.-West	350	0	0	350	0	0	0	0	0	0	0		
Palo Alto U.	473	i	0	i	0	i	0	i	473	i	0	0	i
Pitzer C.	330	0	0	33	11	0	31	114	0	0	141		
Point Loma Nazarene U.	482	0	0	150	0	0	0	184	148	0	0		

TABLE 84

Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Southern California U. of Health Sciences	378	0	0	378	0	0	0	0	0	0	0
Westmont C.	388 i	0 i	0 i	126 i	10 i	195 i	2 i	25 i	0 i	30 i	0 i
Whittier C.	220	0	0	93	0	16	4	35	0	0	72
Colorado	3,039	28	52	1,061	82	348	20	141	0	216	1,091
Public	2,260	11	52	492	61	232	0	115	0	216	1,081
Colorado Mesa U.	443	0	51	141	0	151	0	100	0	0	0
Metropolitan State U. of Denver	651	7	1	76	61	67	0	15	0	212	212
Western Colorado U.	1,166	4	0	275	0	14	0	0	0	4	869
Private	779	17	0	569	21	116	20	26	0	0	10
Regis U.	779	17	0	569	21	116	20	26	0	0	10
Connecticut	2,184	555	64	816	29	177	65	87	0	61	330
Public	424	0	0	304	0	8	16	10	0	0	86
Western Connecticut State U.	424	0	0	304	0	8	16	10	0	0	86
Private	1,760	555	64	512	29	169	49	77	0	61	244
Quinnipiac U.	1,218 i	32 i	64 i	512 i	29 i	169 i	49 i	77 i	0 i	61 i	225 i
U. Bridgeport	542	523	0	0	0	0	0	0	0	0	19
Florida	5,880	22	1,540	1,571	11	774	93	634	559	0	676
Private	5,880	22	1,540	1,571	11	774	93	634	559	0	676
Barry U.	469	0	0	237	0	74	0	122	0	0	36
Bethune-Cookman U.	682	0	0	187	0	0	0	0	495	0	0
Eckerd C.	1,599	0	1,106	92	0	174	0	19	0	0	208
Jacksonville U.	200	0	185	15	0	0	0	0	0	0	0
Keiser U.	539 i	22 i	0 i	396 i	0 i	0 i	11 i	41 i	0 i	0 i	69 i
Rollins C.	995	0	0	122	8	317	40	242	64	0	202
Stetson U.	513	0	249	187	0	0	0	77	0	0	0
U. Tampa	883	0	0	335	3	209	42	133	0	0	161
Georgia	4,138	513	341	1,296	263	215	228	557	39	39	647
Public	2,350	337	311	520	33	215	228	251	11	39	405
Clayton State U.	732	118	0	0	19	139	219	218	11	0	8
Columbus State U.	276	179	9	80	0	1	0	2	0	2	3
Georgia C. and State U.	294	0	0	259	0	0	7	3	0	0	25
Georgia Gwinnett C.	249	40	2	152	6	16	2	5	0	0	26
U. West Georgia	574	0	124	29	8	30	0	11	0	37	335
Valdosta State U.	225	0	176	0	0	29	0	12	0	0	8

TABLE 84

Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Private	1,788	176	30	776	230	0	0	306	28	0	242
Agnes Scott C.	494 i	1 i	0 i	418 i	3 i	0 i	0 i	25 i	0 i	0 i	47 i
Berry C.	1,046	175	30	110	227	0	0	281	28	0	195
Life U.	248	0	0	248	0	0	0	0	0	0	0
Idaho	924	35	0	606	0	53	0	0	0	230	0
Public	468	0	0	468	0	0	0	0	0	0	0
Lewis-Clark State C.	468	0	0	468	0	0	0	0	0	0	0
Private	456	35	0	138	0	53	0	0	0	230	0
Northwest Nazarene U.	456	35	0	138	0	53	0	0	0	230	0
Illinois	4,509	38	3	2,603	29	527	43	43	0	162	1,061
Public	869	4	3	587	8	209	9	0	0	0	49
Eastern Illinois U.	869	4	3	587	8	209	9	0	0	0	49
Private	3,640	34	0	2,016	21	318	34	43	0	162	1,012
Augustana C.	351	0	0	81	6	98	5	11	0	0	150
Benedictine U.	489	13	0	322	5	15	0	0	0	0	134
Bradley U.	301	21	0	79	5	17	2	7	0	162	8
Elmhurst U.	613	0	0	0	0	0	9	0	0	0	604
Illinois C. of Optometry	1,324	0	0	1,324	0	0	0	0	0	0	0
Lake Forest C.	562 i	0 i	0 i	210 i	5 i	188 i	18 i	25 i	0 i	0 i	116 i
Indiana	5,537	282	65	1,266	231	1,688	116	239	143	97	1,410
Public	1,103	4	31	59	1	169	33	86	126	0	594
Indiana U., Kokomo	429	0	0	2	0	119	11	14	0	0	283
Indiana U., Northwest	253	4	31	56	1	0	22	21	38	0	80
Indiana U., Southeast	421	0	0	1	0	50	0	51	88	0	231
Private	4,434	278	34	1,207	230	1,519	83	153	17	97	816
DePauw U.	430	88	20	108	41	37	7	98	0	0	31
Earlham C.	815	34	0	194	0	47	0	13	0	0	527
Indiana Wesleyan U.	852	0	0	184	0	426	17	40	17	0	168
Manchester U.	249	0	0	190	0	35	8	2	0	0	14
Taylor U.	346	156	0	38	10	33	28	0	0	52	29
U. Evansville	336	0	0	94	177	25	23	0	0	7	10
Valparaiso U.	1,036	0	14	240	0	744	0	0	0	38	0
Wabash C.	370	0	0	159	2	172	0	0	0	0	37
Iowa	2,294	8	83	502	298	1,053	19	97	4	57	173

TABLE 84

Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Private	2,294	8	83	502	298	1,053	19	97	4	57	173
Coe C.	802	0	0	1	5	685	0	31	0	0	80
Cornell C.	563	6	83	283	18	77	0	11	4	57	24
Dordt U.	712	0	0	165	270	196	0	42	0	0	39
Luther C.	217	2	0	53	5	95	19	13	0	0	30
Kansas	1,548	409	156	663	0	139	28	31	0	0	122
Public	1,548	409	156	663	0	139	28	31	0	0	122
Emporia State U.	816	405	0	343	0	15	21	1	0	0	31
Fort Hays State U.	732	4	156	320	0	124	7	30	0	0	91
Kentucky	232	0	0	53	0	151	0	0	28	0	0
Private	232	0	0	53	0	151	0	0	28	0	0
Centre C.	232	0	0	53	0	151	0	0	28	0	0
Louisiana	2,838	346	0	1,368	0	395	5	163	0	93	468
Public	2,419	346	0	1,307	0	376	5	8	0	93	284
Louisiana State U., Shreveport	725	346	0	345	0	7	0	0	0	0	27
McNeese State U.	435	0	0	81	0	1	5	0	0	93	255
Nicholls State U.	1,259	0	0	881	0	368	0	8	0	0	2
Private	419	0	0	61	0	19	0	155	0	0	184
Loyola U., New Orleans	419	0	0	61	0	19	0	155	0	0	184
Maine	1,809	257	287	581	29	110	46	110	0	239	150
Public	1,809	257	287	581	29	110	46	110	0	239	150
Maine Maritime Academy	203	0	202	0	0	0	0	0	0	1	0
U. Maine Farmington	1,289	58	85	521	29	110	22	76	0	238	150
U. Maine, Augusta	317	199	0	60	0	0	24	34	0	0	0
Maryland	1,759	27	0	526	2	22	86	15	22	88	971
Public	357	27	0	141	0	0	0	15	0	88	86
Coppin State U.	357	27	0	141	0	0	0	15	0	88	86
Private	1,402	0	0	385	2	22	86	0	22	0	885
Loyola U., Maryland	1,110	0	0	385	2	22	86	0	22	0	593
Maryland Institute C. of Art	292	0	0	0	0	0	0	0	0	0	292
Massachusetts	5,055	492	95	1,266	90	489	402	557	504	0	1,160
Public	750	10	67	73	0	249	5	132	97	0	117
Bridgewater State U.	750	10	67	73	0	249	5	132	97	0	117
Private	4,305	482	28	1,193	90	240	397	425	407	0	1,043

TABLE 84

Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
C. of the Holy Cross	893	0	0	464	88	213	128	0	0	0	0
Emerson C.	665	0	0	107	0	0	0	158	155	0	245
Hult International Business School	1,159 i	482 i	0 i	0 i	0 i	0 i	134 i	1 i	1 i	0 i	541 i
MCPHS U.	426	0	0	293	0	0	133	0	0	0	0
Simmons U.	620	0	0	204	2	27	2	258	0	0	127
Stonehill C.	542	0	28	125	0	0	0	8	251	0	130
Michigan	2,673	106	0	520	18	200	0	79	115	620	1,015
Public	1,243	86	0	155	0	41	0	8	115	84	754
U. Michigan, Flint	1,243	86	0	155	0	41	0	8	115	84	754
Private	1,430	20	0	365	18	159	0	71	0	536	261
Kalamazoo C.	789 i	20 i	0 i	365 i	18 i	120 i	0 i	71 i	0 i	0 i	195 i
Kettering U.	641	0	0	0	0	39	0	0	0	536	66
Minnesota	6,418	16	167	2,649	383	1,591	6	318	1	0	1,287
Public	2,822	16	157	1,470	347	81	5	18	1	0	727
Metropolitan State U.	196 i	6 i	11 i	135 i	3 i	14 i	3 i	6 i	1 i	0 i	17 i
Minnesota State U., Moorhead	378	9	11	172	10	49	2	0	0	0	125
U. Minnesota, Crookston	358	0	0	2	334	0	0	0	0	0	22
U. Minnesota, Morris	698	1	135	74	0	18	0	12	0	0	458
U. Minnesota, Rochester	1,192	0	0	1,087	0	0	0	0	0	0	105
Private	3,596	0	10	1,179	36	1,510	1	300	0	0	560
Augsburg U.	917	0	0	48	36	273	0	0	0	0	560
Concordia C., Moorhead	589	0	0	189	0	398	1	1	0	0	0
Hamline U.	241	0	10	137	0	0	0	94	0	0	0
Saint Mary's U. Minnesota	789	0	0	0	0	789	0	0	0	0	0
St. Catherine U.	1,060	0	0	805	0	50	0	205	0	0	0
Mississippi	754	69	116	365	0	129	1	1	0	55	18
Public	584	69	116	207	0	129	0	0	0	55	8
Delta State U.	351	0	116	147	0	58	0	0	0	30	0
Mississippi Valley State U.	233	69	0	60	0	71	0	0	0	25	8
Private	170	0	0	158	0	0	1	1	0	0	10
William Carey U.	170	0	0	158	0	0	1	1	0	0	10
Missouri	2,678	16	0	1,770	109	91	8	35	0	0	649
Public	1,393	16	0	485	109	91	8	35	0	0	649
Northwest Missouri State U.	360	0	0	0	108	0	0	0	0	0	252

TABLE 84

Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Truman State U.	318	16	0	131	1	91	8	16	0	0	55
U. Central Missouri	715	0	0	354	0	0	0	19	0	0	342
Private	1,285	0	0	1,285	0	0	0	0	0	0	0
A. T. Still U. of Health Sciences	345	0	0	345	0	0	0	0	0	0	0
Graduate School of the Stowers Institute for Medical Research	666	0	0	666	0	0	0	0	0	0	0
Kansas City U.	274	0	0	274	0	0	0	0	0	0	0
Montana	2,941	50	384	1,824	0	116	0	10	0	134	423
Public	2,941	50	384	1,824	0	116	0	10	0	134	423
Aaniih Nakoda C.	1,226	0	384	842	0	0	0	0	0	0	0
Montana State U., Billings	870	0	0	640	0	0	0	10	0	0	220
Montana State U., Northern	292	0	0	42	0	116	0	0	0	134	0
Salish Kootenai C.	553	50	0	300	0	0	0	0	0	0	203
Nebraska	374	46	0	194	0	68	17	0	0	49	0
Private	374	46	0	194	0	68	17	0	0	49	0
Doane U.	374	46	0	194	0	68	17	0	0	49	0
Nevada	1,466	0	0	1,430	0	36	0	0	0	0	0
Public	613	0	0	577	0	36	0	0	0	0	0
C. Southern Nevada	210	0	0	174	0	36	0	0	0	0	0
Truckee Meadows Community C.	403	0	0	403	0	0	0	0	0	0	0
Private	853	0	0	853	0	0	0	0	0	0	0
Touro U., Nevada	853	0	0	853	0	0	0	0	0	0	0
New Hampshire	2,432	0	530	834	0	291	5	92	0	525	155
Public	2,432	0	530	834	0	291	5	92	0	525	155
Keene State C.	1,071	0	91	727	0	0	5	0	0	242	6
Plymouth State U.	1,361	0	439	107	0	291	0	92	0	283	149
New Jersey	1,366	249	180	357	62	0	181	328	9	0	0
Public	346	2	0	6	1	0	1	328	8	0	0
Ramapo C. New Jersey	346	2	0	6	1	0	1	328	8	0	0
Private	1,020	247	180	351	61	0	180	0	1	0	0
Fairleigh Dickinson U.	498	247	0	70	0	0	180	0	1	0	0
Rider U.	522	0	180	281	61	0	0	0	0	0	0
New Mexico	658	31	0	396	0	89	10	23	12	95	2
Public	658	31	0	396	0	89	10	23	12	95	2
Eastern New Mexico U., Portales	394	0	0	258	0	89	10	23	12	0	2

TABLE 84

Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Northern New Mexico C.	264	31	0	138	0	0	0	0	0	95	0
New York	10,826	571	274	2,871	293	3,102	191	1,334	339	101	1,750
Public	4,667	42	246	882	38	2,273	43	284	135	32	692
CUNY, Medgar Evers C.	881	42	15	82	6	531	0	24	0	0	181
SUNY, C. Cortland	715	0	0	394	0	190	1	130	0	0	0
SUNY, Farmingdale State C.	631	0	0	0	0	611	0	0	0	20	0
SUNY, New Paltz	392	0	44	111	17	38	1	110	0	12	59
SUNY, Old Westbury	634	0	0	0	15	304	41	8	115	0	151
SUNY, Oneonta	305	0	6	141	0	30	0	12	20	0	96
SUNY, Potsdam	904	0	181	154	0	569	0	0	0	0	0
SUNY, system office	205	0	0	0	0	0	0	0	0	0	205
Private	6,159	529	28	1,989	255	829	148	1,050	204	69	1,058
Adelphi U.	495	19	0	438	0	0	13	0	0	0	25
Bard C.	263	53	0	23	11	69	42	17	48	0	0
Cooper Union	571	0	0	449	51	0	0	0	0	69	2
Iona U.	649	0	0	0	0	209	0	440	0	0	0
Marist C.	386	131	0	196	0	3	0	33	0	0	23
Niagara U.	661	0	0	85	13	110	0	304	0	0	149
Siena C.	764	74	0	172	63	250	18	39	14	0	134
St. Bonaventure U.	1,037	217	0	276	0	99	3	0	142	0	300
St. Lawrence U.	521	34	28	58	93	77	42	154	0	0	35
Utica U.	812	1	0	292	24	12	30	63	0	0	390
North Carolina	6,444	91	0	34	0	297	0	0	287	0	5,735
Public	6,032	0	0	0	0	297	0	0	0	0	5,735
U. North Carolina, general administration	5,735	0	0	0	0	0	0	0	0	0	5,735
U. North Carolina, Pembroke	297	0	0	0	0	297	0	0	0	0	0
Private	412	91	0	34	0	0	0	0	287	0	0
Shaw U.	412	91	0	34	0	0	0	0	287	0	0
North Dakota	412	0	0	406	6	0	0	0	0	0	0
Public	412	0	0	406	6	0	0	0	0	0	0
Minot State U.	412	0	0	406	6	0	0	0	0	0	0
Ohio	4,431	131	32	781	99	910	570	183	224	233	1,268
Private	4,431	131	32	781	99	910	570	183	224	233	1,268
Antioch U.	225	112	20	20	0	0	70	3	0	0	0

TABLE 84

Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Baldwin Wallace U.	463	18	0	34	0	25	0	0	64	233	89
Denison U.	1,012	1	0	0	97	573	4	40	160	0	137
John Carroll U.	2,083	0	0	425	1	29	493	140	0	0	995
Ohio Wesleyan U.	323	0	0	302	1	17	3	0	0	0	0
Wittenberg U.	325	0	12	0	0	266	0	0	0	0	47
Oklahoma	1,695	176	62	856	88	181	13	136	125	25	33
Public	1,505	175	62	679	88	181	13	132	125	24	26
East Central U.	483	6	58	82	7	67	8	117	102	24	12
Northeastern State U.	187	0	4	55	0	114	0	14	0	0	0
Rogers State U.	253	6	0	123	81	0	5	1	23	0	14
Southwestern Oklahoma State U.	582	163	0	419	0	0	0	0	0	0	0
Private	190	1	0	177	0	0	0	4	0	1	7
Oral Roberts U.	190	1	0	177	0	0	0	4	0	1	7
Oregon	2,512	2	62	395	27	790	49	745	178	75	189
Public	1,255	2	12	0	0	524	0	659	52	0	6
Eastern Oregon U.	163	0	12	0	0	151	0	0	0	0	0
Southern Oregon U.	1,092	2	0	0	0	373	0	659	52	0	6
Private	1,257	0	50	395	27	266	49	86	126	75	183
Linfield U.	271	0	0	35	0	112	42	68	0	0	14
U. Portland	986	0	50	360	27	154	7	18	126	75	169
Pennsylvania	16,889	263	743	5,922	758	1,093	164	1,986	226	1,470	4,264
Public	4,726	185	83	622	343	686	96	231	59	361	2,060
Commonwealth U. of Pennsylvania	304	21	2	166	2	7	58	27	0	0	21
Kutztown U. Pennsylvania	722	1	0	41	181	175	10	124	0	0	190
Millersville U. Pennsylvania	224	0	56	76	0	21	1	68	0	2	0
Pennsylvania State U., Abington	320	17	0	7	53	0	27	6	59	13	138
Pennsylvania State U., Berks	640	53	0	0	0	290	0	3	0	205	89
Pennsylvania State U., Great Valley School of Graduate Professional Studies	712	72	0	0	24	0	0	0	0	128	488
Pennsylvania State U., New Kensington	378	0	0	0	0	0	0	0	0	0	378
Pennsylvania State U., Wilkes-Barre	335	0	0	0	0	0	0	0	0	0	335
Pennsylvania Western U.	508	2	25	0	81	8	0	0	0	0	392
Slippery Rock U. Pennsylvania	583	19	0	332	2	185	0	3	0	13	29
Private	12,163	78	660	5,300	415	407	68	1,755	167	1,109	2,204
Allegheny C.	532	13	0	102	0	226	0	2	0	25	164

TABLE 84

Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
American C. of Financial Services	376	0	0	0	0	0	0	376	0	0	0
Bryn Athyn C.	361 i	0 i	0 i	54 i	25 i	0 i	6 i	52 i	0 i	0 i	224 i
Delaware Valley U.	183	0	0	180	0	0	0	3	0	0	0
Dickinson C.	1,584	31	473	376	4	13	32	374	0	0	281
Gannon U.	889	15	0	385	0	11	1	1	0	421	55
Geisinger Commonwealth School of Medicine	500	0	0	500	0	0	0	0	0	0	0
Juniata C.	1,177	0	133	928	0	10	0	19	3	23	61
La Salle U.	1,045 i	0 i	0 i	104 i	0 i	0 i	0 i	115 i	0 i	0 i	826 i
Lake Erie C. of Osteopathic Medicine	517	0	0	517	0	0	0	0	0	0	0
Mercyhurst U.	734 i	0 i	1 i	44 i	0 i	29 i	2 i	423 i	50 i	0 i	185 i
Moravian U.	516	4	0	273	135	14	10	21	0	0	59
Muhlenberg C.	509 i	5 i	0 i	158 i	0 i	48 i	13 i	149 i	113 i	0 i	23 i
Saint Francis U.	592 i	10 i	13 i	0 i	243 i	1 i	0 i	0 i	1 i	108 i	216 i
Salus U.	663	0	0	663	0	0	0	0	0	0	0
Susquehanna U.	499	0	4	447	0	6	1	5	0	0	36
Widener U., Chester	804	0	3	96	0	7	0	212	0	474	12
Wilkes U.	682	0	33	473	8	42	3	3	0	58	62
Rhode Island	6,393	3	25	804	0	72	0	309	0	213	4,967
Private	6,393	3	25	804	0	72	0	309	0	213	4,967
Rhode Island School of Design	5,661	3	25	144	0	0	0	309	0	213	4,967
Salve Regina U.	732	0	0	660	0	72	0	0	0	0	0
South Carolina	3,465	10	0	1,496	0	651	23	26	0	48	1,211
Public	2,862	10	0	1,496	0	108	23	26	0	48	1,151
Francis Marion U.	308	0	0	124	0	108	0	0	0	48	28
U. South Carolina Upstate	2,554	10	0	1,372	0	0	23	26	0	0	1,123
Private	603	0	0	0	0	543	0	0	0	0	60
Coker U.	398	0	0	0	0	379	0	0	0	0	19
Converse U.	205	0	0	0	0	164	0	0	0	0	41
South Dakota	1,627	0	44	962	0	620	0	0	1	0	0
Public	870	0	44	549	0	276	0	0	1	0	0
Northern State U.	282	0	0	281	0	0	0	0	1	0	0
Oglala Lakota C.	588	0	44	268	0	276	0	0	0	0	0
Private	757	0	0	413	0	344	0	0	0	0	0
Augustana U.	757	0	0	413	0	344	0	0	0	0	0

TABLE 84

Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Tennessee	880	0	42	390	0	54	4	22	194	0	174
Private	880	0	42	390	0	54	4	22	194	0	174
Sewanee: U. of the South	592	0	42	102	0	54	4	22	194	0	174
Southern C. of Optometry	288	0	0	288	0	0	0	0	0	0	0
Texas	6,063	1,327	57	1,458	55	710	124	1,227	277	314	514
Public	4,692	1,317	57	1,104	8	203	71	1,121	277	142	392
Angelo State U.	946	0	0	598	0	186	30	27	70	14	21
Midwestern State U.	1,027	2	57	486	0	17	4	164	0	102	195
Texas A&M U.-Central Texas	951	896	0	0	8	0	0	0	0	26	21
U. Houston-Victoria	475	419	0	12	0	0	0	0	0	0	44
U. North Texas, Dallas	1,293	0	0	8	0	0	37	930	207	0	111
Private	1,371	10	0	354	47	507	53	106	0	172	122
Austin C.	388	0	0	177	0	165	0	46	0	0	0
LeTourneau U.	175	0	0	0	0	3	0	0	0	172	0
Southwestern U.	575	10	0	169	47	114	53	60	0	0	122
U. Dallas	233	0	0	8	0	225	0	0	0	0	0
Utah	2,285	72	750	454	65	76	12	216	263	181	196
Public	2,285	72	750	454	65	76	12	216	263	181	196
Southern Utah U.	1,259	0	586	316	0	10	0	216	58	54	19
Weber State U.	1,026	72	164	138	65	66	12	0	205	127	177
Vermont	1,316	0	85	762	0	160	271	38	0	0	0
Public	562	0	0	328	0	84	150	0	0	0	0
Castleton U.	162	0	0	157	0	5	0	0	0	0	0
Northern Vermont U.	400	0	0	171	0	79	150	0	0	0	0
Private	754	0	85	434	0	76	121	38	0	0	0
Saint Michael's C.	754	0	85	434	0	76	121	38	0	0	0
Virginia	2,195	7	142	754	11	87	39	300	0	1	854
Public	838	0	0	414	0	0	0	242	0	0	182
Longwood U.	838	0	0	414	0	0	0	242	0	0	182
Private	1,357	7	142	340	11	87	39	58	0	1	672
Roanoke C.	932	0	29	101	10	70	16	44	0	0	662
U. Lynchburg	182	7	5	136	1	14	2	6	0	1	10
Washington and Lee U.	243	0	108	103	0	3	21	8	0	0	0
Washington	4,276	28	285	1,269	29	783	51	863	10	118	840

TABLE 84

Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Public	791	8	237	362	0	44	0	140	0	0	0
Evergreen State C.	791	8	237	362	0	44	0	140	0	0	0
Private	3,485	20	48	907	29	739	51	723	10	118	840
Gonzaga U.	535	0	0	203	0	53	0	92	0	66	121
Pacific Lutheran U.	347	4	29	7	0	243	8	32	0	0	24
Pacific Northwest U. of Health Sciences	307	0	0	307	0	0	0	0	0	0	0
Saint Martin's U.	152	0	19	26	0	0	0	79	10	18	0
Seattle Pacific U.	1,671	0	0	306	1	101	22	520	0	26	695
Whitworth U.	473	16	0	58	28	342	21	0	0	8	0
West Virginia	3,289	101	138	1,343	0	0	0	0	0	115	1,592
Public	2,933	101	138	1,343	0	0	0	0	0	115	1,236
Bluefield State U.	987	0	0	386	0	0	0	0	0	0	601
Concord U.	807	0	138	42	0	0	0	0	0	0	627
West Liberty U.	910	0	0	910	0	0	0	0	0	0	0
West Virginia U., Institute of Technology	229	101	0	5	0	0	0	0	0	115	8
Private	356	0	0	0	0	0	0	0	0	0	356
Future Generations U.	356	0	0	0	0	0	0	0	0	0	356
Wisconsin	4,038	54	295	993	183	547	109	560	77	444	776
Public	1,048	23	90	191	76	9	18	230	77	72	262
U. Wisconsin-Stout	512	0	0	97	51	9	18	110	0	72	155
U. Wisconsin-Whitewater	536	23	90	94	25	0	0	120	77	0	107
Private	2,990	31	205	802	107	538	91	330	0	372	514
Alverno C.	263	0	0	0	0	0	0	0	0	0	263
Carthage C.	1,013	0	119	113	0	197	0	46	0	372	166
Concordia U., Wisconsin	291	21	0	95	0	72	0	100	0	0	3
Lawrence U.	794	0	69	291	107	160	91	17	0	0	59
St. Norbert C.	629	10	17	303	0	109	0	167	0	0	23
Wyoming	489	0	182	141	0	0	0	166	0	0	0
Public	489	0	182	141	0	0	0	166	0	0	0
Central Wyoming C.	489	0	182	141	0	0	0	166	0	0	0
American Samoa	1,055	2	3	3	3	3	3	1,030	3	2	3
Public	1,055	2	3	3	3	3	3	1,030	3	2	3
American Samoa Community C.	1,055	2	3	3	3	3	3	1,030	3	2	3
Puerto Rico	4,087	1,039	386	1,539	0	0	0	127	0	41	955

TABLE 84

Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Public	891	0	41	448	0	0	0	0	0	41	361
U. Puerto Rico, Aguadilla	741	0	41	339	0	0	0	0	0	0	361
U. Puerto Rico, Arecibo	150 i	0 i	0 i	109 i	0 i	0 i	0 i	0 i	0 i	41 i	0 i
Private	3,196	1,039	345	1,091	0	0	0	127	0	0	594
Polytechnic U. Puerto Rico	1,039	1,039	NA	NA	0	NA	NA	NA	NA	NA	NA
Pontifical Catholic U. Puerto Rico, Ponce	478	0	0	351	0	0	0	127	0	0	0
San Juan Bautista School of Medicine	740	0	0	740	0	0	0	0	0	0	0
U. Ana G. Mendez, Carolina	193	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	193 i
U. Ana G. Mendez, Cupey	746	0	345	0	0	0	0	0	0	0	401

i = imputed. NA = not available; data were not provided by institution.

nec = not elsewhere classified; S&E = science and engineering.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 85
Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields	
United States	74,942	5,714	4,984	27,580	2,650	13,283	1,730	5,042	1,877	3,652	8,430	
Public	36,009	2,808	2,967	12,416	1,277	5,180	520	3,107	840	1,784	5,110	
Private	38,933	2,906	2,017	15,164	1,373	8,103	1,210	1,935	1,037	1,868	3,320	
Alabama	1,990	52	90	376	355	322	0	0	140	52	603	
Public	1,619	52	90	191	355	322	0	0	0	6	603	
Auburn U., Montgomery	864	52	0	146	88	207	0	0	0	0	371	
Jacksonville State U.	423	0	90	45	57	0	0	0	0	6	225	
U. North Alabama	332	0	0	0	210	115	0	0	0	0	7	
Private	371	0	0	185	0	0	0	0	140	46	0	
Alabama C., Osteopathic Medicine	0	0	0	0	0	0	0	0	0	0	0	
Oakwood U.	371	0	0	185	0	0	0	0	140	46	0	
Arizona	0	0	0	0	0	0	0	0	0	0	0	
Private	0	0	0	0	0	0	0	0	0	0	0	
Sonoran U. Health Sciences	0	0	0	0	0	0	0	0	0	0	0	
Arkansas	1,665	58	0	450	62	619	0	233	65	178	0	
Public	645	7	0	0	62	299	0	212	65	0	0	
Arkansas Tech U.	393	0	0	0	62	54	0	212	65	0	0	
Southern Arkansas U.	252	7	0	0	0	245	0	0	0	0	0	
Private	1,020	51	0	450	0	320	0	21	0	178	0	
Arkansas C. of Health Education	104	51	0	53	0	0	0	0	0	0	0	
Hendrix C.	538	0	0	197	0	320	0	21	0	0	0	
Ouachita Baptist U.	378	0	0	200	0	0	0	0	0	178	0	
California	2,530	58	60	1,415	110	133	300	88	291	50	25	
Public	220	0	60	0	110	0	0	0	0	50	0	
California State U., Maritime Academy	220	0	60	0	110	0	0	0	0	50	0	
Private	2,310	58	0	1,415	0	133	300	88	291	0	25	
California Baptist U.	0	0	0	0	0	0	0	0	0	0	0	
California Lutheran U.	490	0	0	85	0	21	0	88	290	0	6	
Dominican U. California	871	i	58	i	0	i	793	i	0	i	19	i
Fuller Theological Seminary	75	0	0	0	0	0	75	0	0	0	0	
Life Chiropractic C.-West	0	0	0	0	0	0	0	0	0	0	0	
Palo Alto U.	225	i	0	i	0	i	0	i	225	i	0	i
Pitzer C.	0	0	0	0	0	0	0	0	0	0	0	
Point Loma Nazarene U.	34	0	0	34	0	0	0	0	0	0	0	

TABLE 85
Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Private	1,287	165	30	403	227	0	0	267	0	0	195
Agnes Scott C.	294 i	0 i	0 i	294 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Berry C.	993	165	30	109	227	0	0	267	0	0	195
Life U.	0	0	0	0	0	0	0	0	0	0	0
Idaho	770	17	0	565	0	35	0	0	0	153	0
Public	468	0	0	468	0	0	0	0	0	0	0
Lewis-Clark State C.	468	0	0	468	0	0	0	0	0	0	0
Private	302	17	0	97	0	35	0	0	0	153	0
Northwest Nazarene U.	302	17	0	97	0	35	0	0	0	153	0
Illinois	1,310	4	0	621	0	183	9	0	0	85	408
Public	413	0	0	291	0	122	0	0	0	0	0
Eastern Illinois U.	413	0	0	291	0	122	0	0	0	0	0
Private	897	4	0	330	0	61	9	0	0	85	408
Augustana C.	159	0	0	51	0	37	0	0	0	0	71
Benedictine U.	338	4	0	208	0	4	0	0	0	0	122
Bradley U.	115	0	0	28	0	2	0	0	0	85	0
Elmhurst U.	224	0	0	0	0	0	9	0	0	0	215
Illinois C. of Optometry	19	0	0	19	0	0	0	0	0	0	0
Lake Forest C.	42 i	0 i	0 i	24 i	0 i	18 i	0 i	0 i	0 i	0 i	0 i
Indiana	1,859	79	14	447	177	1,035	0	0	20	33	54
Public	105	0	0	26	0	5	0	0	20	0	54
Indiana U., Kokomo	31	0	0	0	0	5	0	0	0	0	26
Indiana U., Northwest	33	0	0	26	0	0	0	0	7	0	0
Indiana U., Southeast	41	0	0	0	0	0	0	0	13	0	28
Private	1,754	79	14	421	177	1,030	0	0	0	33	0
DePauw U.	102	79	0	0	0	23	0	0	0	0	0
Earlham C.	0	0	0	0	0	0	0	0	0	0	0
Indiana Wesleyan U.	275	0	0	91	0	184	0	0	0	0	0
Manchester U.	46	0	0	46	0	0	0	0	0	0	0
Taylor U.	11	0	0	0	0	0	0	0	0	11	0
U. Evansville	190	0	0	13	177	0	0	0	0	0	0
Valparaiso U.	920	0	14	198	0	686	0	0	0	22	0
Wabash C.	210	0	0	73	0	137	0	0	0	0	0
Iowa	1,286	0	54	153	259	819	0	0	0	0	1

TABLE 85
Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Private	1,286	0	54	153	259	819	0	0	0	0	1
Coe C.	562	0	0	0	0	562	0	0	0	0	0
Cornell C.	72	0	54	18	0	0	0	0	0	0	0
Dordt U.	581	0	0	131	259	190	0	0	0	0	1
Luther C.	71	0	0	4	0	67	0	0	0	0	0
Kansas	950	372	94	359	0	100	0	0	0	0	25
Public	950	372	94	359	0	100	0	0	0	0	25
Emporia State U.	589	372	0	185	0	14	0	0	0	0	18
Fort Hays State U.	361	0	94	174	0	86	0	0	0	0	7
Kentucky	204	0	0	53	0	151	0	0	0	0	0
Private	204	0	0	53	0	151	0	0	0	0	0
Centre C.	204	0	0	53	0	151	0	0	0	0	0
Louisiana	1,094	178	0	894	0	8	0	0	0	14	0
Public	1,057	178	0	860	0	5	0	0	0	14	0
Louisiana State U., Shreveport	401	178	0	221	0	2	0	0	0	0	0
McNeese State U.	32	0	0	18	0	0	0	0	0	14	0
Nicholls State U.	624	0	0	621	0	3	0	0	0	0	0
Private	37	0	0	34	0	3	0	0	0	0	0
Loyola U., New Orleans	37	0	0	34	0	3	0	0	0	0	0
Maine	971	52	96	374	24	90	16	43	0	198	78
Public	971	52	96	374	24	90	16	43	0	198	78
Maine Maritime Academy	31	0	30	0	0	0	0	0	0	1	0
U. Maine Farmington	922	52	66	356	24	90	16	43	0	197	78
U. Maine, Augusta	18	0	0	18	0	0	0	0	0	0	0
Maryland	887	0	0	498	0	0	81	0	5	83	220
Public	209	0	0	126	0	0	0	0	0	83	0
Coppin State U.	209	0	0	126	0	0	0	0	0	83	0
Private	678	0	0	372	0	0	81	0	5	0	220
Loyola U., Maryland	544	0	0	372	0	0	81	0	5	0	86
Maryland Institute C. of Art	134	0	0	0	0	0	0	0	0	0	134
Massachusetts	2,531	359	95	896	63	401	220	85	98	0	314
Public	449	6	67	25	0	237	0	0	97	0	17
Bridgewater State U.	449	6	67	25	0	237	0	0	97	0	17
Private	2,082	353	28	871	63	164	220	85	1	0	297

TABLE 85
Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
C. of the Holy Cross	691	0	0	464	63	164	0	0	0	0	0
Emerson C.	133	0	0	97	0	0	0	36	0	0	0
Hult International Business School	555 i	353 i	0 i	0 i	0 i	0 i	87 i	0 i	1 i	0 i	114 i
MCPHS U.	166	0	0	33	0	0	133	0	0	0	0
Simmons U.	254	0	0	152	0	0	0	49	0	0	53
Stonehill C.	283	0	28	125	0	0	0	0	0	0	130
Michigan	619	20	0	154	11	92	0	8	115	54	165
Public	258	9	0	0	0	0	0	0	115	0	134
U. Michigan, Flint	258	9	0	0	0	0	0	0	115	0	134
Private	361	11	0	154	11	92	0	8	0	54	31
Kalamazoo C.	284 i	11 i	0 i	154 i	11 i	69 i	0 i	8 i	0 i	0 i	31 i
Kettering U.	77	0	0	0	0	23	0	0	0	54	0
Minnesota	2,441	13	105	799	38	1,200	2	117	0	0	167
Public	249	13	95	121	2	10	2	2	0	0	4
Metropolitan State U.	104 i	4 i	8 i	72 i	2 i	10 i	2 i	2 i	0 i	0 i	4 i
Minnesota State U., Moorhead	26	9	0	17	0	0	0	0	0	0	0
U. Minnesota, Crookston	0	0	0	0	0	0	0	0	0	0	0
U. Minnesota, Morris	87	0	87	0	0	0	0	0	0	0	0
U. Minnesota, Rochester	32	0	0	32	0	0	0	0	0	0	0
Private	2,192	0	10	678	36	1,190	0	115	0	0	163
Augsburg U.	485	0	0	21	36	265	0	0	0	0	163
Concordia C., Moorhead	352	0	0	0	0	352	0	0	0	0	0
Hamline U.	109	0	10	87	0	0	0	12	0	0	0
Saint Mary's U. Minnesota	573	0	0	0	0	573	0	0	0	0	0
St. Catherine U.	673	0	0	570	0	0	0	103	0	0	0
Mississippi	572	69	116	223	0	129	0	0	0	27	8
Public	556	69	116	207	0	129	0	0	0	27	8
Delta State U.	336	0	116	147	0	58	0	0	0	15	0
Mississippi Valley State U.	220	69	0	60	0	71	0	0	0	12	8
Private	16	0	0	16	0	0	0	0	0	0	0
William Carey U.	16	0	0	16	0	0	0	0	0	0	0
Missouri	959	0	0	555	108	13	0	17	0	0	266
Public	596	0	0	192	108	13	0	17	0	0	266
Northwest Missouri State U.	108	0	0	0	108	0	0	0	0	0	0

TABLE 85
Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Truman State U.	29	0	0	16	0	13	0	0	0	0	0
U. Central Missouri	459	0	0	176	0	0	0	17	0	0	266
Private	363	0	0	363	0	0	0	0	0	0	0
A. T. Still U. of Health Sciences	197	0	0	197	0	0	0	0	0	0	0
Graduate School of the Stowers Institute for Medical Research	0	0	0	0	0	0	0	0	0	0	0
Kansas City U.	166	0	0	166	0	0	0	0	0	0	0
Montana	2,696	50	384	1,722	0	74	0	0	0	91	375
Public	2,696	50	384	1,722	0	74	0	0	0	91	375
Aaniih Nakoda C.	1,226	0	384	842	0	0	0	0	0	0	0
Montana State U., Billings	710	0	0	538	0	0	0	0	0	0	172
Montana State U., Northern	207	0	0	42	0	74	0	0	0	91	0
Salish Kootenai C.	553	50	0	300	0	0	0	0	0	0	203
Nebraska	299	30	0	173	0	63	0	0	0	33	0
Private	299	30	0	173	0	63	0	0	0	33	0
Doane U.	299	30	0	173	0	63	0	0	0	33	0
Nevada	735	0	0	708	0	27	0	0	0	0	0
Public	604	0	0	577	0	27	0	0	0	0	0
C. Southern Nevada	201	0	0	174	0	27	0	0	0	0	0
Truckee Meadows Community C.	403	0	0	403	0	0	0	0	0	0	0
Private	131	0	0	131	0	0	0	0	0	0	0
Touro U., Nevada	131	0	0	131	0	0	0	0	0	0	0
New Hampshire	1,711	0	370	646	0	201	0	21	0	376	97
Public	1,711	0	370	646	0	201	0	21	0	376	97
Keene State C.	834	0	73	580	0	0	0	0	0	181	0
Plymouth State U.	877	0	297	66	0	201	0	21	0	195	97
New Jersey	1,104	229	131	257	46	0	156	284	1	0	0
Public	284	0	0	0	0	0	0	284	0	0	0
Ramapo C. New Jersey	284	0	0	0	0	0	0	284	0	0	0
Private	820	229	131	257	46	0	156	0	1	0	0
Fairleigh Dickinson U.	456	229	0	70	0	0	156	0	1	0	0
Rider U.	364	0	131	187	46	0	0	0	0	0	0
New Mexico	607	31	0	362	0	89	0	18	12	95	0
Public	607	31	0	362	0	89	0	18	12	95	0
Eastern New Mexico U., Portales	343	0	0	224	0	89	0	18	12	0	0

TABLE 85
Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Baldwin Wallace U.	47	10	0	22	0	0	0	0	1	14	0
Denison U.	589	0	0	0	92	491	0	6	0	0	0
John Carroll U.	916	0	0	408	0	0	243	23	0	0	242
Ohio Wesleyan U.	174	0	0	174	0	0	0	0	0	0	0
Wittenberg U.	162	0	12	0	0	150	0	0	0	0	0
Oklahoma	949	83	43	313	88	171	8	110	97	24	12
Public	949	83	43	313	88	171	8	110	97	24	12
East Central U.	447	6	43	73	7	67	8	110	97	24	12
Northeastern State U.	121	0	0	17	0	104	0	0	0	0	0
Rogers State U.	81	0	0	0	81	0	0	0	0	0	0
Southwestern Oklahoma State U.	300	77	0	223	0	0	0	0	0	0	0
Private	0	0	0	0	0	0	0	0	0	0	0
Oral Roberts U.	0	0	0	0	0	0	0	0	0	0	0
Oregon	1,015	1	0	102	0	605	0	195	43	26	43
Public	755	1	0	0	0	516	0	195	43	0	0
Eastern Oregon U.	143	0	0	0	0	143	0	0	0	0	0
Southern Oregon U.	612	1	0	0	0	373	0	195	43	0	0
Private	260	0	0	102	0	89	0	0	0	26	43
Linfield U.	9	0	0	9	0	0	0	0	0	0	0
U. Portland	251	0	0	93	0	89	0	0	0	26	43
Pennsylvania	6,811	156	386	2,278	456	714	62	462	44	936	1,317
Public	2,861	118	79	261	328	519	62	113	0	346	1,035
Commonwealth U. of Pennsylvania	162	17	0	110	0	0	35	0	0	0	0
Kutztown U. Pennsylvania	584	0	0	0	172	150	0	107	0	0	155
Millersville U. Pennsylvania	95	0	56	39	0	0	0	0	0	0	0
Pennsylvania State U., Abington	132	17	0	0	53	0	27	6	0	13	16
Pennsylvania State U., Berks	550	49	0	0	0	289	0	0	0	202	10
Pennsylvania State U., Great Valley School of Graduate Professional Studies	343	35	0	0	23	0	0	0	0	123	162
Pennsylvania State U., New Kensington	0	0	0	0	0	0	0	0	0	0	0
Pennsylvania State U., Wilkes-Barre	335	0	0	0	0	0	0	0	0	0	335
Pennsylvania Western U.	460	0	23	0	80	0	0	0	0	0	357
Slippery Rock U. Pennsylvania	200	0	0	112	0	80	0	0	0	8	0
Private	3,950	38	307	2,017	128	195	0	349	44	590	282
Allegheny C.	192	0	0	30	0	162	0	0	0	0	0

TABLE 85
Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
American C. of Financial Services	0	0	0	0	0	0	0	0	0	0	0
Bryn Athyn C.	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Delaware Valley U.	28	0	0	28	0	0	0	0	0	0	0
Dickinson C.	700	28	196	337	0	0	0	139	0	0	0
Gannon U.	199	0	0	36	0	0	0	0	0	163	0
Geisinger Commonwealth School of Medicine	15	0	0	15	0	0	0	0	0	0	0
Juniata C.	1,012	0	111	817	0	0	0	0	0	23	61
La Salle U.	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Lake Erie C. of Osteopathic Medicine	0	0	0	0	0	0	0	0	0	0	0
Mercyhurst U.	90 i	0 i	0 i	0 i	0 i	26 i	0 i	0 i	44 i	0 i	20 i
Moravian U.	192	0	0	57	128	0	0	7	0	0	0
Muhlenberg C.	31 i	0 i	0 i	31 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Saint Francis U.	242 i	10 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	62 i	170 i
Salus U.	396	0	0	396	0	0	0	0	0	0	0
Susquehanna U.	14	0	0	14	0	0	0	0	0	0	0
Widener U., Chester	636	0	0	90	0	7	0	203	0	336	0
Wilkes U.	203	0	0	166	0	0	0	0	0	6	31
Rhode Island	1,043	0	15	763	0	72	0	0	0	118	75
Private	1,043	0	15	763	0	72	0	0	0	118	75
Rhode Island School of Design	311	0	15	103	0	0	0	0	0	118	75
Salve Regina U.	732	0	0	660	0	72	0	0	0	0	0
South Carolina	1,101	0	0	400	0	651	0	0	0	0	50
Public	558	0	0	400	0	108	0	0	0	0	50
Francis Marion U.	228	0	0	120	0	108	0	0	0	0	0
U. South Carolina Upstate	330	0	0	280	0	0	0	0	0	0	50
Private	543	0	0	0	0	543	0	0	0	0	0
Coker U.	379	0	0	0	0	379	0	0	0	0	0
Converse U.	164	0	0	0	0	164	0	0	0	0	0
South Dakota	1,455	0	44	791	0	620	0	0	0	0	0
Public	698	0	44	378	0	276	0	0	0	0	0
Northern State U.	110	0	0	110	0	0	0	0	0	0	0
Oglala Lakota C.	588	0	44	268	0	276	0	0	0	0	0
Private	757	0	0	413	0	344	0	0	0	0	0
Augustana U.	757	0	0	413	0	344	0	0	0	0	0

TABLE 85
Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Tennessee	22	0	0	18	0	0	0	4	0	0	0
Private	22	0	0	18	0	0	0	4	0	0	0
Sewanee: U. of the South	17	0	0	13	0	0	0	4	0	0	0
Southern C. of Optometry	5	0	0	5	0	0	0	0	0	0	0
Texas	2,297	1,315	45	500	18	85	26	17	70	88	133
Public	2,006	1,315	45	368	0	33	25	17	70	0	133
Angelo State U.	140	0	0	37	0	33	0	0	70	0	0
Midwestern State U.	491	0	45	323	0	0	0	0	0	0	123
Texas A&M U.-Central Texas	906	896	0	0	0	0	0	0	0	0	10
U. Houston-Victoria	419	419	0	0	0	0	0	0	0	0	0
U. North Texas, Dallas	50	0	0	8	0	0	25	17	0	0	0
Private	291	0	0	132	18	52	1	0	0	88	0
Austin C.	121	0	0	91	0	30	0	0	0	0	0
LeTourneau U.	88	0	0	0	0	0	0	0	0	88	0
Southwestern U.	52	0	0	33	18	0	1	0	0	0	0
U. Dallas	30	0	0	8	0	22	0	0	0	0	0
Utah	1,749	72	637	295	65	26	4	190	148	154	158
Public	1,749	72	637	295	65	26	4	190	148	154	158
Southern Utah U.	990	0	478	247	0	10	0	190	23	32	10
Weber State U.	759	72	159	48	65	16	4	0	125	122	148
Private	0	0	0	0	0	0	0	0	0	0	0
Vermont	1,150	0	44	707	0	141	258	0	0	0	0
Public	552	0	0	318	0	84	150	0	0	0	0
Castleton U.	152	0	0	147	0	5	0	0	0	0	0
Northern Vermont U.	400	0	0	171	0	79	150	0	0	0	0
Private	598	0	44	389	0	57	108	0	0	0	0
Saint Michael's C.	598	0	44	389	0	57	108	0	0	0	0
Virginia	984	5	103	589	1	27	22	234	0	1	2
Public	642	0	0	409	0	0	0	233	0	0	0
Longwood U.	642	0	0	409	0	0	0	233	0	0	0
Private	342	5	103	180	1	27	22	1	0	1	2
Roanoke C.	16	0	0	0	0	16	0	0	0	0	0
U. Lynchburg	102	5	3	77	1	11	1	1	0	1	2
Washington and Lee U.	224	0	100	103	0	0	21	0	0	0	0
Washington	1,627	8	17	438	21	437	0	158	0	18	530

TABLE 85
Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Public	45	8	3	22	0	12	0	0	0	0	0
Evergreen State C.	45	8	3	22	0	12	0	0	0	0	0
Private	1,582	0	14	416	21	425	0	158	0	18	530
Gonzaga U.	254	0	0	123	0	1	0	92	0	18	20
Pacific Lutheran U.	229	0	0	0	0	229	0	0	0	0	0
Pacific Northwest U. of Health Sciences	200	0	0	200	0	0	0	0	0	0	0
Saint Martin's U.	102	0	14	22	0	0	0	66	0	0	0
Seattle Pacific U.	581	0	0	71	0	0	0	0	0	0	510
Whitworth U.	216	0	0	0	21	195	0	0	0	0	0
West Virginia	1,914	0	129	876	0	0	0	0	0	94	815
Public	1,914	0	129	876	0	0	0	0	0	94	815
Bluefield State U.	574	0	0	386	0	0	0	0	0	0	188
Concord U.	756	0	129	0	0	0	0	0	0	0	627
West Liberty U.	490	0	0	490	0	0	0	0	0	0	0
West Virginia U., Institute of Technology	94	0	0	0	0	0	0	0	0	94	0
Private	0	0	0	0	0	0	0	0	0	0	0
Future Generations U.	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Wisconsin	2,143	21	171	561	140	423	22	217	77	372	139
Public	418	0	67	15	41	0	0	91	77	0	127
U. Wisconsin-Stout	138	0	0	15	16	0	0	87	0	0	20
U. Wisconsin-Whitewater	280	0	67	0	25	0	0	4	77	0	107
Private	1,725	21	104	546	99	423	22	126	0	372	12
Alverno C.	0	0	0	0	0	0	0	0	0	0	0
Carthage C.	722	0	28	113	0	197	0	0	0	372	12
Concordia U., Wisconsin	162	21	0	69	0	72	0	0	0	0	0
Lawrence U.	327	0	59	90	99	57	22	0	0	0	0
St. Norbert C.	514	0	17	274	0	97	0	126	0	0	0
Wyoming	489	0	182	141	0	0	0	166	0	0	0
Public	489	0	182	141	0	0	0	166	0	0	0
Central Wyoming C.	489	0	182	141	0	0	0	166	0	0	0
American Samoa	1,027	0	0	0	0	0	0	1,027	0	0	0
Public	1,027	0	0	0	0	0	0	1,027	0	0	0
American Samoa Community C.	1,027 i	0 i	0 i	0 i	0 i	0 i	0 i	1,027 i	0 i	0 i	0 i
Puerto Rico	3,483	1,039	345	1,113	0	0	0	0	0	31	955

TABLE 85

Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Public	791	0	0	399	0	0	0	0	0	31	361
U. Puerto Rico, Aguadilla	700	0	0	339	0	0	0	0	0	0	361
U. Puerto Rico, Arecibo	91 i	0 i	0 i	60 i	0 i	0 i	0 i	0 i	0 i	31 i	0 i
Private	2,692	1,039	345	714	0	0	0	0	0	0	594
Polytechnic U. Puerto Rico	1,039	1,039	0	0	0	0	0	0	0	0	0
Pontifical Catholic U. Puerto Rico, Ponce	167	0	0	167	0	0	0	0	0	0	0
San Juan Bautista School of Medicine	547	0	0	547	0	0	0	0	0	0	0
U. Ana G. Mendez, Carolina	193	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	193 i
U. Ana G. Mendez, Cupey	746	0	345	0	0	0	0	0	0	0	401

i = imputed.

nec = not elsewhere classified; S&E = science and engineering.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE 86

Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Received as a subrecipient			Passed through to subrecipients		
	Total	Federally financed	Nonfederally financed	Total	Federally financed	Nonfederally financed
United States	18,865	17,078	1,787	2,850	1,807	1,043
Alabama						
Public						
Auburn U., Montgomery	52	52	0	0	0	0
Jacksonville State U.	177	177	0	0	0	0
U. North Alabama	0	0	0	0	0	0
Private						
Alabama C., Osteopathic Medicine	0	0	0	0	0	0
Oakwood U.	53	53	0	0	0	0
Arizona						
Private						
Sonoran U. Health Sciences	0	0	0	50	0	50
Arkansas						
Public						
Arkansas Tech U.	0	0	0	0	0	0
Southern Arkansas U.	69	69	0	0	0	0
Private						
Arkansas C. of Health Education	69	69	0	0	0	0
Hendrix C.	350	350	0	0	0	0
Ouachita Baptist U.	378	378	0	0	0	0
California						
Public						
California State U., Maritime Academy	25	10	15	5	5	0
Private						
California Baptist U.	0	0	0	0	0	0
California Lutheran U.	0	0	0	0	0	0
Dominican U. California	60 i	60 i	0 i	0 i	0 i	0 i
Fuller Theological Seminary	75	75	0	0	0	0
Life Chiropractic C.-West	0	0	0	0	0	0
Palo Alto U.	189 i	189 i	0 i	0 i	0 i	0 i
Pitzer C.	0	0	0	0	0	0
Point Loma Nazarene U.	20	20	0	0	0	0
Southern California U. of Health Sciences	101	101	0	60	60	0
Westmont C.	116 i	116 i	0 i	0 i	0 i	0 i

TABLE 86

Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Received as a subrecipient			Passed through to subrecipients		
	Total	Federally financed	Nonfederally financed	Total	Federally financed	Nonfederally financed
Whittier C.	0	0	0	0	0	0
Colorado						
Public						
Colorado Mesa U.	89	89	0	28	28	0
Metropolitan State U. of Denver	0	0	0	0	0	0
Western Colorado U.	0 i	0 i	0 i	0 i	0 i	0 i
Private						
Regis U.	119	119	0	0	0	0
Connecticut						
Public						
Western Connecticut State U.	24	24	0	0	0	0
Private						
Quinnipiac U.	92 i	88 i	4 i	50 i	47 i	3 i
U. Bridgeport	52	52	0	43	43	0
Florida						
Private						
Barry U.	72	24	48	53	0	53
Bethune-Cookman U.	463	463	0	0	0	0
Eckerd C.	29	27	2	25	25	0
Jacksonville U.	0	0	0	0	0	0
Keiser U.	0 i	0 i	0 i	0 i	0 i	0 i
Rollins C.	77	77	0	24	24	0
Stetson U.	126	126	0	0	0	0
U. Tampa	0	0	0	10	10	0
Georgia						
Public						
Clayton State U.	344	307	37	0	0	0
Columbus State U.	16	16	0	0	0	0
Georgia C. and State U.	17	10	7	7	7	0
Georgia Gwinnett C.	38	38	0	0	0	0
U. West Georgia	0	0	0	55	12	43
Valdosta State U.	66	66	0	0	0	0
Private						
Agnes Scott C.	0 i	0 i	0 i	0 i	0 i	0 i

TABLE 86

Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Received as a subrecipient			Passed through to subrecipients		
	Total	Federally financed	Nonfederally financed	Total	Federally financed	Nonfederally financed
Berry C.	30	30	0	0	0	0
Life U.	0	0	0	0	0	0
Idaho						
Public						
Lewis-Clark State C.	282	282	0	0	0	0
Private						
Northwest Nazarene U.	302	302	0	0	0	0
Illinois						
Public						
Eastern Illinois U.	91	86	5	3	0	3
Private						
Augustana C.	14	14	0	36	36	0
Benedictine U.	52	52	0	0	0	0
Bradley U.	115	115	0	0	0	0
Elmhurst U.	0	0	0	169	169	0
Illinois C. of Optometry	36	0	36	0	0	0
Lake Forest C.	23 i	23 i	0 i	0 i	0 i	0 i
Indiana						
Public						
Indiana U., Kokomo	31	31	0	0	0	0
Indiana U., Northwest	4	4	0	0	0	0
Indiana U., Southeast	13	13	0	0	0	0
Private						
DePauw U.	0	0	0	0	0	0
Earlham C.	0	0	0	0	0	0
Indiana Wesleyan U.	49	0	49	6	6	0
Manchester U.	0	0	0	0	0	0
Taylor U.	11	11	0	0	0	0
U. Evansville	18	13	5	0	0	0
Valparaiso U.	100	100	0	106	106	0
Wabash C.	0	0	0	0	0	0
Iowa						
Private						
Coe C.	0	0	0	4	0	4

TABLE 86

Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Received as a subrecipient			Passed through to subrecipients		
	Total	Federally financed	Nonfederally financed	Total	Federally financed	Nonfederally financed
Cornell C.	42	0	42	0	0	0
Dordt U.	0	0	0	0	0	0
Luther C.	3	3	0	0	0	0
Kansas						
Public						
Emporia State U.	196	196	0	0	0	0
Fort Hays State U.	153	153	0	0	0	0
Kentucky						
Private						
Centre C.	68	68	0	0	0	0
Louisiana						
Public						
Louisiana State U., Shreveport	398	398	0	0	0	0
McNeese State U.	40	32	8	0	0	0
Nicholls State U.	88	88	0	0	0	0
Private						
Loyola U., New Orleans	3	3	0	0	0	0
Maine						
Public						
Maine Maritime Academy	203	31	172	0	0	0
U. Maine Farmington	42 i	38 i	4 i	24 i	20 i	4 i
U. Maine, Augusta	0	0	0	0	0	0
Maryland						
Public						
Coppin State U.	57	48	9	0	0	0
Private						
Loyola U., Maryland	43	43	0	422	0	422
Maryland Institute C. of Art	125	125	0	0	0	0
Massachusetts						
Public						
Bridgewater State U.	10	10	0	0	0	0
Private						
C. of the Holy Cross	147	19	128	0	0	0
Emerson C.	142	97	45	0	0	0

TABLE 86

Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Received as a subrecipient			Passed through to subrecipients		
	Total	Federally financed	Nonfederally financed	Total	Federally financed	Nonfederally financed
Hult International Business School	82 i	78 i	4 i	32 i	31 i	1 i
MCPHS U.	33	33	0	0	0	0
Simmons U.	60	0	60	52	52	0
Stonehill C.	4	4	0	0	0	0
Michigan						
Public						
U. Michigan, Flint	84	71	13	14	0	14
Private						
Kalamazoo C.	0 i	0 i	0 i	0 i	0 i	0 i
Kettering U.	0	0	0	0	0	0
Minnesota						
Public						
Metropolitan State U.	7 i	6 i	1 i	7 i	7 i	0 i
Minnesota State U., Moorhead	0	0	0	6	6	0
U. Minnesota, Crookston	0	0	0	0	0	0
U. Minnesota, Morris	0	0	0	0	0	0
U. Minnesota, Rochester	14	14	0	0	0	0
Private						
Augsburg U.	156	156	0	0	0	0
Concordia C., Moorhead	26	26	0	0	0	0
Hamline U.	12	12	0	0	0	0
Saint Mary's U. Minnesota	0	0	0	0	0	0
St. Catherine U.	140	110	30	22	12	10
Mississippi						
Public						
Delta State U.	219	219	0	0	0	0
Mississippi Valley State U.	83	83	0	0	0	0
Private						
William Carey U.	16	16	0	0	0	0
Missouri						
Public						
Northwest Missouri State U.	0	0	0	0	0	0
Truman State U.	48	29	19	0	0	0
U. Central Missouri	0	0	0	0	0	0

TABLE 86

Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Received as a subrecipient			Passed through to subrecipients		
	Total	Federally financed	Nonfederally financed	Total	Federally financed	Nonfederally financed
Private						
A. T. Still U. of Health Sciences	58	58	0	0	0	0
Graduate School of the Stowers Institute for Medical Research	0	0	0	0	0	0
Kansas City U.	40	40	0	0	0	0
Montana						
Public						
Aaniiih Nakoda C.	0	0	0	0	0	0
Montana State U., Billings	286	286	0	75	75	0
Montana State U., Northern	102	102	0	78	78	0
Salish Kootenai C.	0	0	0	0	0	0
Nebraska						
Private						
Doane U.	207	207	0	0	0	0
Nevada						
Public						
C. Southern Nevada	201	201	0	0	0	0
Truckee Meadows Community C.	403	403	0	0	0	0
Private						
Touro U., Nevada	0	0	0	0	0	0
New Hampshire						
Public						
Keene State C.	504	497	7	6	6	0
Plymouth State U.	350	350	0	0	0	0
New Jersey						
Public						
Ramapo C. New Jersey	0	0	0	0	0	0
Private						
Fairleigh Dickinson U.	39	39	0	0	0	0
Rider U.	7	7	0	11	11	0
New Mexico						
Public						
Eastern New Mexico U., Portales	176	154	22	41	41	0
Northern New Mexico C.	160	160	0	0	0	0
New York						

TABLE 86

Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Received as a subrecipient			Passed through to subrecipients		
	Total	Federally financed	Nonfederally financed	Total	Federally financed	Nonfederally financed
Public						
CUNY, Medgar Evers C.	120	120	0	35	35	0
SUNY, C. Cortland	123	89	34	5	0	5
SUNY, Farmingdale State C.	10	10	0	0	0	0
SUNY, New Paltz	13	8	5	0	0	0
SUNY, Old Westbury	72	42	30	0	0	0
SUNY, Oneonta	41	0	41	0	0	0
SUNY, Potsdam	4	0	4	24	24	0
SUNY, system office	15	8	7	100	0	100
Private						
Adelphi U.	208	208	0	0	0	0
Bard C.	0	0	0	0	0	0
Cooper Union	186 i	186 i	0 i	0 i	0 i	0 i
Iona U.	0	0	0	0	0	0
Marist C.	0	0	0	35	35	0
Niagara U.	0	0	0	0	0	0
Siena C.	40	40	0	0	0	0
St. Bonaventure U.	0	0	0	52	52	0
St. Lawrence U.	40	40	0	0	0	0
Utica U.	0	0	0	0	0	0
North Carolina						
Public						
U. North Carolina, general administration	0	0	0	0	0	0
U. North Carolina, Pembroke	0	0	0	0	0	0
Private						
Shaw U.	75	37	38	98	0	98
North Dakota						
Public						
Minot State U.	359	314	45	0	0	0
Ohio						
Private						
Antioch U.	0	0	0	0	0	0
Baldwin Wallace U.	0	0	0	0	0	0
Denison U.	0	0	0	0	0	0

TABLE 86

Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Received as a subrecipient			Passed through to subrecipients		
	Total	Federally financed	Nonfederally financed	Total	Federally financed	Nonfederally financed
John Carroll U.	125	62	63	76	48	28
Ohio Wesleyan U.	23	23	0	0	0	0
Wittenberg U.	12	12	0	0	0	0
Oklahoma						
Public						
East Central U.	136	136	0	84	84	0
Northeastern State U.	143	121	22	0	0	0
Rogers State U.	0	0	0	0	0	0
Southwestern Oklahoma State U.	217	204	13	0	0	0
Private						
Oral Roberts U.	0	0	0	0	0	0
Oregon						
Public						
Eastern Oregon U.	0	0	0	0	0	0
Southern Oregon U.	230	230	0	36	36	0
Private						
Linfield U.	4	4	0	0	0	0
U. Portland	45	45	0	0	0	0
Pennsylvania						
Public						
Commonwealth U. of Pennsylvania	124	121	3	0	0	0
Kutztown U. Pennsylvania	0	0	0	20	20	0
Millersville U. Pennsylvania	0	0	0	0	0	0
Pennsylvania State U., Abington	0	0	0	17	17	0
Pennsylvania State U., Berks	49	43	6	0	0	0
Pennsylvania State U., Great Valley School of Graduate Professional Studies	112	112	0	0	0	0
Pennsylvania State U., New Kensington	0	0	0	0	0	0
Pennsylvania State U., Wilkes-Barre	0	0	0	0	0	0
Pennsylvania Western U.	15	15	0	0	0	0
Slippery Rock U. Pennsylvania	17	17	0	0	0	0
Private						
Allegheny C.	0	0	0	0	0	0
American C. of Financial Services	0	0	0	0	0	0
Bryn Athyn C.	0 i	0 i	0 i	0 i	0 i	0 i

TABLE 86

Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Received as a subrecipient			Passed through to subrecipients		
	Total	Federally financed	Nonfederally financed	Total	Federally financed	Nonfederally financed
Delaware Valley U.	0	0	0	0	0	0
Dickinson C.	486	297	189	0	0	0
Gannon U.	207	52	155	0	0	0
Geisinger Commonwealth School of Medicine	15	15	0	0	0	0
Juniata C.	87	87	0	51	51	0
La Salle U.	0	0	0	0	0	0
Lake Erie C. of Osteopathic Medicine	0	0	0	0	0	0
Mercyhurst U.	27 i	27 i	0 i	0 i	0 i	0 i
Moravian U.	18	18	0	0	0	0
Muhlenberg C.	0 i	0 i	0 i	0 i	0 i	0 i
Saint Francis U.	0 i	0 i	0 i	0 i	0 i	0 i
Salus U.	18	18	0	0	0	0
Susquehanna U.	0	0	0	0	0	0
Widener U., Chester	101	7	94	0	0	0
Wilkes U.	79	79	0	0	0	0
Rhode Island						
Private						
Rhode Island School of Design	224	192	32	0	0	0
Salve Regina U.	712	712	0	0	0	0
South Carolina						
Public						
Francis Marion U.	0	0	0	0	0	0
U. South Carolina Upstate	18	18	0	0	0	0
Private						
Coker U.	0	0	0	35	35	0
Converse U.	164	164	0	0	0	0
South Dakota						
Public						
Northern State U.	110	110	0	0	0	0
Oglala Lakota C.	167	167	0	0	0	0
Private						
Augustana U.	576	576	0	0	0	0
Tennessee						
Private						

TABLE 86

Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Received as a subrecipient			Passed through to subrecipients		
	Total	Federally financed	Nonfederally financed	Total	Federally financed	Nonfederally financed
Sewanee: U. of the South	17	17	0	0	0	0
Southern C. of Optometry	5	5	0	0	0	0
Texas						
Public						
Angelo State U.	9	9	0	60	0	60
Midwestern State U.	0	0	0	0	0	0
Texas A&M U.-Central Texas	11	11	0	266	266	0
U. Houston-Victoria	42	42	0	0	0	0
U. North Texas, Dallas	25	25	0	125	0	125
Private						
Austin C.	0	0	0	0	0	0
LeTourneau U.	0	0	0	0	0	0
Southwestern U.	21	21	0	0	0	0
U. Dallas	0	0	0	0	0	0
Utah						
Public						
Southern Utah U.	53	53	0	0	0	0
Weber State U.	87	67	20	0	0	0
Vermont						
Public						
Castleton U.	135	135	0	0	0	0
Northern Vermont U.	209	209	0	0	0	0
Private						
Saint Michael's C.	539	539	0	0	0	0
Virginia						
Public						
Longwood U.	0	0	0	0	0	0
Private						
Roanoke C.	0	0	0	0	0	0
U. Lynchburg	10 i	9 i	1 i	9 i	8 i	1 i
Washington and Lee U.	19	6	13	23	23	0
Washington						
Public						
Evergreen State C.	20	0	20	0	0	0

TABLE 86

Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Received as a subrecipient			Passed through to subrecipients		
	Total	Federally financed	Nonfederally financed	Total	Federally financed	Nonfederally financed
Private						
Gonzaga U.	179	179	0	0	0	0
Pacific Lutheran U.	1	0	1	1	0	1
Pacific Northwest U. of Health Sciences	34	34	0	31	31	0
Saint Martin's U.	0	0	0	0	0	0
Seattle Pacific U.	69	69	0	17	0	17
Whitworth U.	34	34	0	0	0	0
West Virginia						
Public						
Bluefield State U.	386	386	0	0	0	0
Concord U.	0	0	0	0	0	0
West Liberty U.	409	409	0	0	0	0
West Virginia U., Institute of Technology	0	0	0	0	0	0
Private						
Future Generations U.	0 i	0 i	0 i	0 i	0 i	0 i
Wisconsin						
Public						
U. Wisconsin-Stout	32	20	12	0	0	0
U. Wisconsin-Whitewater	371	205	166	0	0	0
Private						
Alverno C.	0	0	0	0	0	0
Carthage C.	0	0	0	0	0	0
Concordia U., Wisconsin	90	90	0	41	41	0
Lawrence U.	94	94	0	0	0	0
St. Norbert C.	0	0	0	0	0	0
Wyoming						
Public						
Central Wyoming C.	437	437	0	0	0	0
American Samoa						
Public						
American Samoa Community C.	0 i	0 i	0 i	0 i	0 i	0 i
Puerto Rico						
Public						
U. Puerto Rico, Aguadilla	9	9	0	63	63	0

TABLE 86

Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Received as a subrecipient			Passed through to subrecipients		
	Total	Federally financed	Nonfederally financed	Total	Federally financed	Nonfederally financed
U. Puerto Rico, Arecibo	9 i	8 i	1 i	4 i	3 i	1 i
Private						
Polytechnic U. Puerto Rico	50	50	NA	NA	0	NA
Pontifical Catholic U. Puerto Rico, Ponce	86	86	0	0	0	0
San Juan Bautista School of Medicine	0	0	0	0	0	0
U. Ana G. Mendez, Carolina	0	0	0	18	18	0
U. Ana G. Mendez, Cupey	0	0	0	0	0	0

i = imputed. NA = not available; institution was not surveyed separately.

Note(s):

Institutions are included in the short form population if they reported less than \$1 million in total R&D expenditures during the previous fiscal year.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

Technical Notes

Survey Overview (FY 2023 Survey Cycle)

Purpose. The Higher Education Research and Development (HERD) Survey is the primary source of information on separately accounted-for R&D expenditures within higher education institutions in the United States and outlying areas.

Data collection authority. The information is solicited under the authority of the National Science Foundation Act of 1950, as amended, and the America COMPETES Reauthorization Act of 2010. The Office of Management and Budget control number is 3145-0100, with an expiration date of 31 July 2025. The disclosure review number is NCSES-DRN24-058.

Survey contractor. ICF.

Survey sponsor. The HERD Survey is sponsored by the National Center for Science and Engineering Statistics (NCSES) within the U.S. National Science Foundation.

Key Survey Information

Frequency. Annual.

Initial survey year. In 2010, the HERD Survey replaced a previous annual collection, the Survey of Research and Development Expenditures at Universities and Colleges (Academic R&D Expenditures Survey), which was conducted from FY 1972 through FY 2009.

Reference period. The academic fiscal year ending in 2023; for most institutions, this was 1 July 2022 to 30 June 2023.

Response unit. Establishment; U.S. academic institutions reporting at least \$150,000 in R&D expenditures in the previous fiscal year.

Sample or census. Census.

Population size. A total of 914 institutions.

Sample size. The survey was a census of all known eligible universities and colleges.

Survey Design

Target population. Public and private nonprofit postsecondary institutions in the United States, Guam, Puerto Rico, and the U.S. Virgin Islands that granted a bachelor's degree or higher in any field; expended at least \$150,000 in separately accounted-for R&D in FY 2023; and were geographically separate campuses headed by a president, chancellor, or equivalent. A list of all accredited, degree-granting institutions in the United States (the *Higher Education Directory*) was obtained from Higher Education Publications (HEP). More information about HEP and its sources can be found at <https://hepinc.com/about/>.

The survey population was reviewed before data collection began to ensure that each institutional classification was accurate. Characteristics of the schools were reviewed before and during the survey to determine whether changes had occurred (e.g., name; highest degree granted; school openings, closings, or mergers). **Table A-1** shows all institution name changes or mergers between the FY 2022 and FY 2023 surveys.

After data collection closed, institutions were reviewed to verify that only those reporting at least \$150,000 in separately accounted-for R&D were included in the population. Of the 926 institutions surveyed, 12 completed the survey but reported total R&D expenditures of less than \$150,000. These institutions were excluded from the population, and their data are not included in the FY 2023 survey totals. The total and federally funded R&D expenditures for these 12 institutions are listed in [table A-2](#).

Sampling frame. The frame for the FY 2023 HERD Survey included (1) all institutions considered in scope for the FY 2022 survey, (2) institutions that granted a bachelor's degree or higher and reported an amount greater than \$0 for research on the Integrated Postsecondary Education Data System (IPEDS) 2020 Finance Survey, (3) all U.S. service institutions that granted a bachelor's degree or higher and were not already part of the HERD Survey population, and (4) institutions that granted doctoral degrees but did not report to IPEDS and were not already part of the HERD Survey population. The information in the *Higher Education Directory* was used to locate institutions meeting the conditions listed in 3 and 4. When FY 2022 R&D expenditures were not known, institutions in the frame were sent a brief questionnaire asking whether the institution had R&D expenditures during FY 2022 and FY 2023 and whether those expenditures were less than \$150,000, were \$150,000 to \$999,999, or were \$1 million or more.

The population review screener was sent to 161 institutions. A total of 29 institutions were added to the survey population during the population review. Three other institutions were added when representatives of university systems contacted data collection staff about a campus that newly qualified for the survey. During data collection, 18 institutions were removed from the population after they indicated that their R&D expenditures were less than \$150,000 for FY 2023, or that they did not qualify for the survey for another reason. After accounting for these additions and subtractions, the number of academic institutions in the final population increased from 900 in FY 2022 to 914 in FY 2023 ([table A-3](#)).

Sample design. The FY 1997 survey was the last one conducted as a sample survey. Since FY 1998, the survey has been a census of all known eligible universities and colleges.

Data Collection and Processing Methods

Data collection. The FY 2023 questionnaires were sent by e-mail in November 2023. Respondents could choose to download the questionnaire and submit it via e-mail to the HERD support desk or use a Web-based data collection system. Every effort was made to maintain close contact with respondents to preserve both the consistency and continuity of the resulting data. Survey data reports for each institution were available on the survey website in two formats. The first showed comparisons between the current and 2 prior years of data and noted any substantive disparities and narratives provided by respondents to explain those disparities. The second format was a data file including all data reported in the previous 5 years. Questionnaires were carefully examined for completeness upon receipt. Respondents were sent personalized e-mail messages asking them to provide any necessary revisions before the final processing and tabulation of data. These e-mail messages included a link to the HERD Survey Web-based data collection system, allowing respondents to view and correct their data online.

Respondents were asked to explain significant differences between current-year reporting and established patterns of reporting verified for prior years. They were encouraged to correct prior-year data, if necessary. When respondents updated or amended figures from past years, NCSSES made corresponding changes to trend data in the FY 2023 data tables and to the underlying microdata. For accurate historical data, use only the most recently released data tables.

Mode. Respondents could choose to submit a questionnaire downloaded from the Web or use the Web-based questionnaire. All institutions submitted data using the Web-based questionnaire.

Response rates. By the survey's closing date in July 2024, forms had been received from 874 universities and colleges out of a population of 914—a response rate of 95.6%. Responses were received from 97.7% of all doctorate-granting institutions. The R&D expenditures reported by these doctoral institutions constituted 99.1% of the estimated national R&D expenditures for FY 2023. [Table A-4](#) displays a detailed breakdown of response rates by survey form and highest degree granted, and [table A-5](#) displays a breakdown of response rates for each survey question.

Data editing. The HERD Survey was subject to very little editing. Respondents were contacted and asked to resolve possible self-reporting issues themselves. Questionnaires were carefully examined by survey staff upon receipt. Reviews focused on unexplained missing data, expenditures that were outliers compared to those of peer institutions, and explanations provided for changes in reporting patterns. If additional explanations or data revisions were needed, respondents were sent personalized e-mail messages asking them to provide any necessary revisions before the final processing and tabulation of data.

Imputation. Missing values were imputed based on the previous year's data and the reported data of peer institutions in the current cycle. For the 39 institutions that had not responded by the closing date of the survey and had been included in the FY 2022 HERD Survey population, R&D expenditures were imputed by applying inflator and deflator factors to the prior year's key totals. The key totals for FY 2023 included total R&D expenditures, federal R&D expenditures, expenditures received as a subrecipient from higher education sources, expenditures received as a subrecipient from non-higher education sources, expenditures passed through to higher education entities, and expenditures passed through to non-higher education entities. Imputation factors were ratios derived from the 2-year-trend data of responding institutions with similar characteristics, including highest degree granted, type of institutional control (public or private), and level of total R&D expenditures. Other values that were not identified as key totals were imputed by applying ratios from the previous year's data.

For one institution that was new to the survey population, no past-year data were available. For this institution, total R&D expenditures were estimated based on the institution's responses to the population review screener. Other values were then imputed as a proportion of total R&D expenditures based on the data of institutions with similar characteristics. Data for partial nonresponse were imputed using similar techniques.

[Table A-6](#) through [table A-20](#) present imputed amounts for each applicable survey variable. The dollar amount imputed is displayed, along with the percentage it represents of the national estimate for universities and colleges for a variable. The imputed total R&D was \$101.3 million, or 0.1%, of the \$108.8 billion in total R&D expenditures ([table A-6](#)).

Several surveyed institutions have responded intermittently in past years. For years in which no response was received, data have been imputed as previously described. Although the imputation algorithm accurately reflects national trends, it cannot account for specific trends at individual institutions. For this reason, a re-imputation of institutional data for prior years is also performed. For each institution, previously imputed values from the HERD Survey (FYs 2010–22) were recomputed to ensure that the imputed data are consistent with reporting patterns from the FY 2023 survey. These procedures result in much more consistent reporting trends for individual institutions but have little effect on aggregate figures reflecting national totals. In the data tables, the letter *i* is used to identify imputed data.

R&D expenditures from unspecified federal agencies (Question 10) and capitalization thresholds for software and equipment (Question 13) were not imputed. Response summaries for these questions can be found in [table A-21](#) and [table A-22](#).

Weighting. Survey data were not weighted.

Variance estimation. No variance estimation techniques were used.

Survey Quality Measures

Sampling error. Because the FY 2023 survey was distributed to all institutions in the universe, there was no sampling error.

Coverage error. Coverage error of large research institutions is minimal because of comprehensive lists. These institutions are easily identified using the NCSES Survey of Federal Science and Engineering Support to Universities, Colleges, and Nonprofit Institutions. However, institutions with smaller amounts of R&D expenditures have been more difficult to identify because they often do not receive federal funding for science and engineering (S&E) R&D.

Nonresponse error. Forty universities and colleges did not respond in FY 2023, out of a total of 914 eligible institutions, for a nonresponse rate of 4.4%. [Table A-4](#) displays a detailed breakdown of response rates by survey population and highest degree granted.

Nonresponse rates were less than 5.0% for all but three questions. Question 6, R&D expenditures by type of R&D (basic research, applied research, and experimental development); Question 15, R&D personnel headcount; and Question 16, R&D full-time equivalents (FTEs) had nonresponse rates of 6.2%, 10.1%, and 22.8%, respectively. [Table A-5](#) displays a breakdown of response rates for each question in each of the two surveys. See section “Imputation” for mitigation of item nonresponses. [Table A-6](#) through [table A-20](#) present imputed amounts for each applicable survey variable.

Measurement error. The most likely source of measurement error is institutional records containing categories different from those on the survey. For example, institutions were asked to report all R&D expenditures by field. The NCSES-designed fields do not always translate to an institution’s departmental structure, and adjustments must be made by the institution to complete the survey. Fields were revised for the FY 2016 survey to better reflect the R&D currently being conducted at universities and colleges and make HERD Survey fields more consistent with those used by other NCSES surveys as well as with the National Center for Education Statistics Classification of Instructional Programs (CIP) codes. Details of this change are included in the methodology report and technical notes for the FY 2016 survey. Minor revisions were also made in FY 2020.

Another source of error is the survey’s category of institutionally funded research. The survey requests that institutions report discretionary internal funds used for research. NCSES discovered through debriefings conducted at the conclusion of the FY 2010 survey that there were varying definitions of what should be included on the HERD Survey as institutionally funded research. Some institutions included all expenditures from separate accounts designated for research; others included only internal R&D projects that are competitively awarded and have detailed budgets. A workshop was held in summer 2012 to discuss these differences in definitional interpretation. Based on the findings from the workshop, the FY 2012 survey was modified to clarify that all expenditures designated for research can be included in this category. This includes expenditures for organized research and expenditures of other funds designated for research but not categorized as organized research. A checklist question (Question 1.1) was also added to encourage the inclusion of all eligible expenditures and to determine the full extent of the variations in reporting across institutions. This question has been on the survey since FY 2012. An analysis of Question 1.1 responses from FY 2023 indicated that some institutions still could not report institutionally funded research that was not organized research (6.7% could not report startup packages, bridge funding, or seed funding and 7.0% were unable to identify other departmental funds designated for research). Therefore, survey totals are missing expenditures for R&D that come from multipurpose accounts, and as such, they represent an undercount of the total amount of internal discretionary funding that institutions make available to conduct R&D.

The reporting of unrecovered indirect costs is another known source of error. The survey requests that the total amount of indirect costs associated with a research grant or contract be calculated and reported, including costs that were not reimbursed by the external funding source. The unrecovered indirect cost is calculated by multiplying the institution’s negotiated indirect cost rate by the corresponding base and then subtracting the actual indirect cost recovery, preferably on a project-by-project basis. In FY 2023, 5.0% of respondents reported unrecovered indirect costs as unavailable. Respondents who were unable to provide values were asked to provide information on their nonresponse. Based on the collected information, survey guidance is revised to encourage response.

The reporting of expenditures from projects that are not R&D is another possible source of error. The R&D in the HERD Survey excludes public service grants, outreach programs, curriculum development, or training grants that do not support work on research projects. As part of a federal government effort to reduce administrative burdens associated with research grants and contracts, agencies began adopting Research Terms and Conditions (RTC) to be consistent with Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards issued by the U.S. Office of Management and Budget (OMB) in the Federal Register [80 FR 61849, October 14, 2015]. In these RTCs, agencies employed a broader definition of research, resulting in many institutions reporting projects as research that do not match HERD Survey definitions. Additionally, in recent years R&D expenditure data has been used more frequently in university and college benchmarking, which may encourage institutions to employ broader definitions of research than those provided on the survey.

It should also be noted that because institutions were asked to include funds passed through to higher education institutions as well as subrecipient funding from higher education institutions, there is double counting included in national and group totals. For example, Institution A's survey included the \$2 million passed through to Institution B, and Institution B's survey also included the \$2 million in subrecipient funding that it received from Institution A. Overall, institutions reported \$5.3 billion in expenditures from subrecipient funding received from other universities in FY 2023 and \$5.2 billion in funds passed through to higher education subrecipients in FY 2023. Adjustments are made to R&D totals presented in the NCSSES *National Patterns of R&D Resources* publications.

Data Comparability

Annual data are available for FYs 1972–2023. When the review for consistency between each year's data and submissions in prior years reveals discrepancies, it is sometimes necessary to modify prior years' data. This is especially likely to affect trends for certain institutions that fail to report every year because current-year data are used to impute prior-year data. For accurate historical data, use only the most recently released data tables. Individuals wishing to analyze trends other than those in the most recent data tables are encouraged to contact the Survey Manager for more information about comparability of data over time.

Changes in survey coverage and population. Before FY 2010, the population included only institutions with R&D expenditures and degree programs in S&E fields. Institutions that performed R&D in only non-S&E fields were excluded from the population. Although not a change in the coverage or population, each campus headed by a campus-level president, chancellor, or equivalent began completing a separate survey in 2010 rather than combining its response with the responses of other campuses in the university system. As a result, the overall number of academic institutions in the population increased from 711 in FY 2009 to 742 in FY 2010.

To compare HERD Survey data across university systems by aggregating member campuses, [table 6](#) shows all institutions in the FY 2023 population by state, institutional control, and system.

Universities and colleges can merge or separate, possibly resulting in large changes in data from previous years.

- For FY 2015, the Indiana University School of Medicine (IUSM) reporting line was changed from the Chancellor of the Indiana University-Purdue University, Indianapolis (IUPUI) campus to the President of Indiana University. As such, the research expenditures for IUSM are now included in the Indiana University–Bloomington figures, resulting in an increase in total R&D expenditures of approximately \$280 million for this campus. IUPUI total R&D expenditures decreased from \$324 million in FY 2014 to \$56 million in FY 2015.

- In September 2015, Yeshiva University relinquished control of Albert Einstein College of Medicine to Montefiore Health System. As a result, FY 2016 data for Yeshiva University included only 2 months (July–August 2015) of R&D expenditures from the college of medicine. Albert Einstein College of Medicine reported separately for its entire FY 2016 (January–December 2016). Because of this change, FY 2016 research expenditures for Yeshiva University decreased by \$260 million. For FY 2017, Yeshiva University included no expenditures from the college of medicine, and total research expenditures decreased by \$43 million.
- In 2016, the Maryland General Assembly approved legislation to create a strategic partnership between University of Maryland (UMD) College Park and UMD Baltimore. The two schools began reporting as one unit, University of Maryland, in FY 2019. In FY 2018, UMD Baltimore reported over \$475 million in total R&D expenditures, and UMD College Park reported over \$540 million in total R&D expenditures. In FY 2019, the new combined institution reported \$1,096 million in total R&D expenditures.
- In 2019, University of Tennessee reorganized University of Tennessee, Knoxville, Institute of Agriculture, and University of Tennessee, Knoxville. The two schools began reporting as one unit, University of Tennessee, Knoxville, in FY 2020. In FY 2019, University of Tennessee, Institute of Agriculture reported over \$71 million in total R&D expenditures, and University of Tennessee, Knoxville reported over \$240 million in total R&D expenditures. In FY 2020, the new combined institution reported \$320 million in total R&D expenditures.
- In 2021, the University of South Florida consolidated its three separate institutions, University of South Florida, Tampa; University of South Florida, St. Petersburg; and University of South Florida, Sarasota-Manatee, into one, singularly-accredited university. The three schools began reporting as one unit, University of South Florida, in FY 2021. In FY 2020, University of South Florida, Tampa reported over \$333 million in total R&D expenditures; University of South Florida, St. Petersburg reported over \$18 million in total R&D expenditures; and University of South Florida, Sarasota-Manatee reported over \$2 million in total R&D expenditures. In FY 2021, the new combined institution reported over \$405 million in total R&D expenditures.
- In FY 2021, the University of Colorado Denver and Anschutz Medical Campus began reporting to the survey separately. Prior to FY 2021, the two campuses reported as one unit. In FY 2020, the combined unit reported over \$554 million in total R&D expenditures. In FY 2021, University of Colorado Anschutz Medical Campus reported over \$562 million in total R&D expenditures, and University of Colorado Denver reported over \$18 million in total R&D expenditures.
- In FY 2023, the University of Nebraska Lincoln, Medical Center, and central administration began reporting as one unit, University of Nebraska, Lincoln and Medical Center. In FY 2022, the University of Nebraska, Lincoln reported over \$340 million in total R&D expenditures; University of Nebraska, Medical Center reported over \$205 million in total R&D expenditures; and the University of Nebraska central administration reported over \$25 million in total R&D expenditures. In FY 2023, the new combined institution reported over \$617 million in total R&D expenditures.

Changes in questionnaire. Tables include data from the Academic R&D Expenditures Survey (FYs 1972–2009) and the HERD Survey (FYs 2010–20). Analysts should be cautious when examining trend data. Although many variables are similar across the two surveys because of clarification of which funds are to be included in the definition of R&D and the inclusion of non-S&E expenditures, exact comparisons may be misleading. In prior years, the Academic R&D Expenditures Survey collected expenditures for S&E and non-S&E fields separately. Institutions were not always able to provide non-S&E expenditures, and those data were not imputed previously. Also, revisions to the instructions on what types of activities are included as R&D in 2010 may have influenced reported values to varying degrees, depending on the number of clinical trials and training grants at an institution. Specific changes are described below:

- For the FY 2012 data collection, NCSES modified the survey instructions to clarify what types of institutionally funded activities should be included in reported data. The instructions explained that all expenditures for R&D from an institution’s current operating funds that are separately accounted-for should be reported. This includes expenditures separately budgeted for organized research and expenditures of other funds designated for research but not categorized as organized research. The instructions also specified that funds from an institution’s 501(c)3 foundation should be reported under institutionally financed research.
- For the FY 2013 collection, the instructions were revised to clarify that funds from foreign and U.S. universities and colleges should be reported under All other sources (Question 1, row f). The instructions also specified that gifts designated by donors for research should be included in Question 1, row f.
- Several changes were made to the FY 2016 questionnaire:
 - Question 16 on the FY 2015 questionnaire, regarding the number of postdocs paid from R&D expenditures, was removed from the survey. Question 2, regarding foreign funding of R&D, was expanded to identify sources of foreign funding. The question now collects R&D expenditures funded by foreign governments, businesses, nonprofit organizations, and higher education (see *foreign sources* in the “**Definitions**” section for additional information).
 - Questions 9, 11, and 14 include revisions to the fields of R&D that better reflect the R&D currently being conducted at universities and colleges. The revisions make the HERD Survey fields more consistent with those used by other NCSES surveys as well as with the CIP codes.
- For the FY 2017 collection, the instructions were revised to clarify that funding from federally funded R&D centers (FFRDCs) should be reported as direct federal funding from the FFRDC’s sponsoring agency.
- For the FY 2018 collection, the instructions were revised to clarify that expenditures for institution research administration and support (e.g., office of sponsored programs) should be excluded from the institutionally financed research totals.
- Several changes were made to the FY 2020 questionnaire:
 - Question 15, which asked for a headcount of research personnel, was revised to ask for a headcount by three R&D functions (see “**Definitions**” for more information), as well as sex, citizenship status, and education level, for those functioning as researchers.
 - Question 16, which asked for the full-time equivalents (FTEs) by three R&D functions, was added to the survey.
 - Institutions were given guidance to include throughout the survey equipment-only R&D awards, such as Major Research Instrumentation grants.
 - Questions 9, 11, and 14 include revisions to the fields of R&D that better reflect the R&D currently being conducted at universities and colleges. The revisions make the HERD Survey fields more consistent with those used by other NCSES surveys.

Changes in reporting procedures or classification. To reduce the burden for institutions with minimal amounts of R&D expenditures, NCSSES introduced a shorter version of the HERD Survey, beginning with the FY 2012 collection. The short-form survey includes four core questions. For the FY 2023 cycle, the short-form population included 250 institutions that reported R&D expenditures between \$150,000 and \$1 million during FY 2022. The remainder of the institutions (664) received the full version of the survey.

Short-form survey data for FYs 2012–2023 appear only in those tables that specify in their title that the data presented include data from the short-form version of the survey. Data from the short-form survey population are included in the year totals prior to FY 2012, aggregated under “all other surveyed institutions.” The total FY 2023 R&D expenditures reported by institutions in the short-form survey population (\$160.1 million) represent 0.1% of the expenditures reported by all institutions (\$108.8 billion).

Definitions

Clinical trials. Research studies designed to answer specific questions about the effects of drugs, vaccines, medical devices, tests, treatments, or other therapies for patients. Clinical trials are used to determine safety and effectiveness. Includes Phase I, Phase II, and Phase III clinical trials with human patients but excludes Phase IV clinical trials.

Contracts. Legal commitments in which a good or service was provided by the reporting institution and benefited the sponsor. The sponsor specified the deliverables and gained the rights to the results.

Federal agency. Any agency of the U.S. government. Expenditures were reported by six specific agency funding sources (the Department of Agriculture; Department of Defense; Department of Energy; Department of Health and Human Services, including the National Institutes of Health; National Aeronautics and Space Administration; and National Science Foundation). Any expenditures funded by other federal agencies were reported under Other. The names of agencies included in the Other category are also requested.

Fields of R&D. A list of the 40 fields of R&D reported on can be found on the survey questionnaire. In the data tables, the fields are grouped into 10 major areas: computer and information sciences; engineering; geosciences, atmospheric sciences, and ocean sciences; life sciences; mathematics and statistics; physical sciences; psychology; social sciences; other sciences; and non-science and engineering.

Fiscal year. Institution’s financial year.

Foreign sources:

- *Foreign government.* All levels of foreign government, including national, regional, municipal, or other local government.
- *Business.* Foreign for-profit organizations. Projects sponsored by a U.S. location of a foreign company were not considered foreign. Funds from a company’s nonprofit foundation were not reported here; they were reported under Nonprofit organizations.
- *Nonprofit organizations.* Foreign nonprofit foundations and organizations, except higher education institutions. Funds from foreign universities were reported under Higher education.
- *Higher education.* Foreign colleges and universities and units owned, operated, and controlled by such institutions.
- *All other sources.* International governmental organizations located in the United States, such as the United Nations, the World Bank, and the International Monetary Fund, and all other entities sending funds to the United States from a location outside the United States and its territories.

Full-time equivalents (FTEs). Calculated as the total working effort spent on research during a specific period divided by the total effort representing a full-time schedule within the same period.

Medical schools. A medical school awards MD or DO degrees. Expenditures from projects assigned to the medical school or to research centers that were organizationally part of the medical school were included.

Pass-through entity. Organizations that pass through grant or contract funds to subrecipient organizations. Vendor relationships were not included.

Research and development (R&D). R&D activity is creative and systematic work undertaken to increase the stock of knowledge—including knowledge of humankind, culture, and society—and to devise new applications of available knowledge. R&D covers three activities: basic research, applied research, and experimental development. R&D does not include public service or outreach programs, curriculum development (unless included as part of an overall research project), or non-research training grants. R&D as measured on this survey does not include capital projects (i.e., construction or renovation of research facilities).

R&D expenditures. Expenditures for R&D activities from the institution's current operating funds that were separately accounted-for. For the purposes of the survey, R&D includes expenditures for organized research as defined by 2 CFR 220 Part 200 Appendix III and expenditures from funds designated for research. Expenditures came from internal or external funding and included recovered and unrecovered indirect costs. Funds passed through to subrecipient organizations were also included. R&D was excluded if it was conducted by university faculty or staff at outside institutions and was not accounted-for in the reporting institution's financial records.

R&D functions:

- *Researchers.* Professionals engaged in the conception or creation of new knowledge, products, processes, methods, and systems and also in the management of the projects concerned. Researchers contribute more to the creative aspects of R&D, whereas technicians provide technical support.
- *R&D technicians.* Persons whose main tasks require technical knowledge and experience in one or more fields of science or engineering, but who contribute to R&D by performing technical tasks such as computer programming, data analysis, ensuring accurate testing, operating lab equipment, and preparing and processing samples under the supervision of researchers.
- *R&D support staff.* Employees not directly involved with the conduct of a research project but support the researchers and technicians. These employees might include clerical staff, financial and personnel administrators, report writers, patent agents, safety trainers, equipment specialists, and other related employees.

Sources of funds:

- *U.S. federal government.* Any agency of the U.S. government. Federal funds that were passed through to the reporting institution from another institution were included.
- *State and local government.* Any state, county, municipality, or other local government entity in the United States, including state health agencies. State funds that supported R&D at agricultural and other experiment stations were included. Public institutions reported state appropriations restricted for R&D activities in this category.
- *Business.* Domestic or foreign for-profit organizations. Funds from a company's nonprofit foundation were not reported here; they were reported under Nonprofit organizations.
- *Nonprofit organizations.* Domestic or foreign nonprofit foundations and organizations, except universities and colleges. Funds from the reporting institution's 501(c)3 foundation were reported under Institutional funds. Funds from other universities and colleges were reported under All other sources.

- *Institutional funds.* Includes institutionally financed research (all R&D funded by the institution from accounts that are only used for research, excluding institution research administration and support), cost sharing (committed), and unrecovered indirect costs (the portion of indirect costs associated with a sponsored project that was not reimbursed by the sponsor in accordance with the institution's negotiated indirect cost rate).
- *All other sources.* Sources not reported in other categories, such as funds from foreign governments, foreign or U.S. universities, and gifts designated by the donors for research.

Subrecipient. The subrecipient for an award carries out the work but receives the funds from a pass-through entity rather than directly from the original funding source. Subrecipients tend to be the coauthors of publications, writers of technical reports discussing findings, inventors, and similar. Vendor relationships were not included.

Type of cost. R&D expenditures were reported in the following categories:

- *Salaries, wages, and fringe benefits.* Includes compensation for all R&D personnel whether full time or part time; temporary or permanent; including salaries, wages, and fringe benefits paid from institution funds and from external support.
- *Software purchases, noncapitalized and capitalized.* Includes payments for all software—both purchases of software packages and license fees for systems.
- *Capitalized equipment.* Includes payments for movable equipment exceeding the institution's capitalization threshold, including ancillary costs such as delivery and setup.
- *Pass-throughs to other organizations.* See the definition for subrecipient.
- *Other direct costs.* Other costs that do not fit into one of the above categories, including (but not limited to) travel, tuition waivers, services such as consulting, computer usage fees, and supplies.
- *Indirect costs.* Includes both recovered and unrecovered indirect costs.

Type of R&D. R&D expenditures were reported in the following categories:

- *Basic research.* Experimental or theoretical work undertaken primarily to acquire new knowledge of the underlying foundations of phenomena and observable facts, without any particular application or use in view.
- *Applied research.* Original investigation undertaken to acquire new knowledge. It is directed primarily toward a specific, practical aim or objective.
- *Experimental development.* Systematic work, drawing on knowledge gained from research and practical experience and producing additional knowledge, which is directed toward producing new products or processes or toward improving existing products or processes.

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TABLE A-1

Institution name changes between FY 2022 and FY 2023 Higher Education Research and Development Survey

(Institution name)

FY 2022 survey	FY 2023 survey
Canisius C.	Canisius U.
Iona C.	Iona U.
SUNY, Buffalo State	SUNY, Buffalo State U.
SUNY, C. Old Westbury	SUNY, Old Westbury
Multiple campuses	U. Nebraska, Lincoln and Medical Center
U. Nebraska, central administration	
U. Nebraska, Lincoln	
U. Nebraska, Medical Center	

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE A-2

Total and federally financed higher education R&D expenditures at surveyed institutions reporting less than \$150,000 in separately accounted for R&D expenditures: FY 2023

(Dollars in thousands)

Institution	Total	Federally financed
All institutions	904	456
D'Youville U.	80	17
Dickinson State U.	131	60
Ohio Northern U.	148	111
Southeast Missouri State U.	101	23
Texas A&M U.-Texarkana	44	0
U. Charleston	32	31
U. Maine, Presque Isle	62	50
U. Pittsburgh, Johnstown	25	0
U. Tennessee, Martin	112	55
U. West Alabama	109	49
Wayne State C.	43	43
Western Nevada C.	17	17

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE A-3

Institutions surveyed for the Higher Education Research and Development Survey, by highest degree granted and survey population: FYs 2018–23

(Number)

Highest degree granted	2018		2019		2020		2021		2022		2023	
	Short form population	Standard form population	Short form population	Standard form population	Short form population	Standard form population	Short form population	Standard form population	Short form population	Standard form population	Short form population	Standard form population
All respondents	265	646	267	647	261	655	260	648	263	637	250	664
Doctorate	76	467	73	473	77	474	81	478	83	473	83	483
Professional	44	34	45	32	44	37	42	37	41	37	46	35
Master's	96	102	104	95	96	98	92	93	97	85	87	101
Bachelor's	49	43	45	47	44	46	45	40	42	42	34	45

Note(s):

Institutions reporting less than \$1 million received a shorter version of the questionnaire.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE A-4

Response rates for the Higher Education Research and Development Survey, by survey population, highest degree granted, and institutional control: FY 2023

(Number)

Survey population and type of institution	Number in survey universe	Complete responses	Partial responses	Total responses	Response rate (%)
All respondents	914	536	338	874	95.6
Standard form institutions	664	316	329	645	97.1
Doctorate	483	220	258	478	99.0
Professional	35	17	13	30	85.7
Master's	101	54	40	94	93.1
Bachelor's	45	25	18	43	95.6
Public	420	194	217	411	97.9
Private	244	122	112	234	95.9
Short form institutions	250	220	9	229	91.6
Doctorate	83	72	3	75	90.4
Professional	46	41	3	44	95.7
Master's	87	77	3	80	92.0
Bachelor's	34	30	0	30	88.2
Public	105	97	4	101	96.2
Private	145	123	5	128	88.3

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE A-5

Response rates for the Higher Education Research and Development Survey, by survey form and question: FY 2023

(Number)

Survey form and question	All respondents	Complete question responses	Partial question responses	Total question responses	Question nonresponses	Response rate (%)
Standard form						
Question 1	645	585	60	645	0	100.0
Question 2	645	624	7	631	14	97.8
Question 3	645	623	0	623	22	96.6
Question 4	645	642	0	642	3	99.5
Question 5	645	639	0	639	6	99.1
Question 6	645	599	6	605	40	93.8
Question 7	645	601	33	634	11	98.3
Question 8	645	608	27	635	10	98.4
Question 9	645	637	8	645	0	100.0
Question 10	645	636	0	636	9	98.6
Question 11	645	619	25	644	1	99.8
Question 12	645	507	134	641	4	99.4
Question 13	645	634	2	636	9	98.6
Question 14	645	628	3	631	14	97.8
Question 15	645	465	115	580	65	89.9
Question 16	645	456	42	498	147	77.2
Short form						
Question 1	229	221	8	229	0	100.0
Question 2	229	227	2	229	0	100.0
Question 3	229	227	1	228	1	99.6
Question 4	229	227	0	227	2	99.1

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE A-6

Imputed amounts for total higher education R&D expenditures, by survey population and highest degree granted: FY 2023

(Dollars in thousands)

Survey population and highest degree granted	All R&D expenditures	Imputed amount	Imputed amount as % of total
All universities and colleges	108,841,148	101,290	0.1
Standard form institutions	108,681,008	87,627	0.1
Doctorate-granting institutions	107,813,315	34,469	0.0
Nondoctorate-granting institutions	867,693	53,158	6.1
Short form institutions	160,140	13,663	8.5
Doctorate-granting institutions	54,417	4,876	9.0
Nondoctorate-granting institutions	105,723	8,787	8.3

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE A-7

Imputed amounts for total higher education R&D expenditures, by survey population and source of funds: FY 2023

(Dollars in thousands)

Survey population and source of funds	All R&D expenditures	Imputed amount	Imputed amount as % of total
Standard form institutions			
All sources	108,681,008	87,627	0.1
Federal government	59,603,993	47,204	0.1
State and local government	5,437,566	8,358	0.2
Institution funds	27,654,829	20,894	0.1
Institutionally financed research	19,166,198	16,878	0.1
Cost sharing	1,717,986	637	0.0
Unrecovered indirect costs	6,770,645	3,379	0.0
Business	6,221,128	2,460	0.0
Nonprofit organizations	6,671,012	3,672	0.1
All other sources	3,092,480	3,664	0.1
Short form institutions			
All sources	160,140	13,663	8.5
Federal government	74,942	5,936	7.9
State and local government	9,842	1,252	12.7
Institution funds	47,583	4,440	9.3
Institutionally financed research	40,833	4,245	10.4
Cost sharing	2,651	51	1.9
Unrecovered indirect costs	4,099	144	3.5
Business	9,243	336	3.6
Nonprofit organizations	13,760	1,095	8.0
All other sources	4,770	604	12.7

Note(s):

Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE A-8

Imputed amounts for higher education R&D expenditures from foreign sources, by source of funds: FY 2023

(Dollars in thousands)

Source of foreign funding	All R&D expenditures	Imputed amount	Imputed amount as % of total
All foreign funds	1,619,058	43,559	2.7
Foreign government	315,926	3,931	1.2
Business	756,578	29,766	3.9
Nonprofit organizations	402,698	13,696	3.4
Higher education institutions	97,835	2,912	3.0
All other sources	46,021	2,375	5.2

Note(s):

This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2022. Institutions reporting less than \$1 million in total R&D expenditures in FY 2022 completed a shorter version of the survey form in FY 2023 that did not include this question.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE A-9

Imputed amounts for externally financed higher education R&D expenditures, by type of agreement: FY 2023

(Dollars in thousands)

Type of agreement	All R&D expenditures	Imputed amount	Imputed amount as % of total
All agreements	81,026,179	66,733	0.1
Contracts	19,578,852	659,368	3.4
Grants, reimbursements, and all other agreements	61,447,327	2,286,715	3.7

Note(s):

Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details. This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2022. Institutions reporting less than \$1 million in total R&D expenditures in FY 2022 completed a shorter version of the survey form in FY 2023 that did not include this question.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE A-10

Imputed amounts for higher education R&D expenditures in a medical school, by institutional control: FY 2023

(Dollars in thousands)

Institutional control	All R&D expenditures	Imputed amount	Imputed amount as % of total
All institutions	39,484,286	295,383	0.7
Public	21,413,275	274,866	1.3
Private	18,071,011	20,517	0.1

Note(s):

This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2022. Institutions reporting less than \$1 million in total R&D expenditures in FY 2022 completed a shorter version of the survey form in FY 2023 that did not include this question.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE A-11

Imputed amounts for higher education R&D expenditures in clinical trials, by source of funds: FY 2023

(Dollars in thousands)

Source of funds	All R&D expenditures	Imputed amount	Imputed amount as % of total
All sources	4,591,549	81,731	1.8
Federally financed	2,084,362	36,545	1.8
Nonfederally financed	2,507,187	45,186	1.8

Note(s):

Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details. This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2022. Institutions reporting less than \$1 million in total R&D expenditures in FY 2022 completed a shorter version of the survey form in FY 2023 that did not include this question.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE A-12

Imputed amounts for total and federally financed higher education R&D expenditures, by type of R&D: FY 2023

(Dollars in thousands)

Type of R&D	Total			Federally financed		
	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
All types of R&D	108,681,008	87,627	0.1	59,603,993	47,204	0.1
Basic research	68,468,210	8,678,354	12.7	38,129,644	5,819,568	15.3
Applied research	29,595,527	4,058,929	13.7	16,372,525	2,357,752	14.4
Experimental development	10,617,271	1,366,491	12.9	5,101,824	725,828	14.2

Note(s):

Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details. This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2022. Institutions reporting less than \$1 million in total R&D expenditures in FY 2022 completed a shorter version of the survey form in FY 2023 that did not include this question.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE A-13

Imputed amounts for total and federally financed higher education R&D expenditures received as a subrecipient, by survey population and type of pass-through entity: FY 2023

(Dollars in thousands)

Survey population and type of pass-through entity	Total			Federally financed		
	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
Standard form institutions						
All pass-through entities ^a	10,626,607	1,183,165	11.1	9,292,657	86,582	0.9
From educational pass-through entities	5,276,187	501,436	9.5	4,818,870	47,716	1.0
From business	1,528,445	183,906	12.0	1,269,034	12,300	1.0
From nonprofit organizations	2,173,477	218,169	10.0	1,750,269	13,224	0.8
From other pass-through entities	1,648,498	187,378	11.4	1,454,484	11,633	0.8
Short form institutions ^b						
From educational pass-through entities	18,865	843	4.5	17,078	828	4.8

^a Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details.

^b Institutions in the short form population were asked to provide R&D expenditures received as a subrecipient from educational pass-through entities only.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE A-14

Imputed amounts for total and federally financed higher education R&D expenditures passed through, by survey population and type of subrecipient: FY 2023

(Dollars in thousands)

Survey population and type of subrecipient	Total			Federally financed		
	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
Standard form institutions						
All subrecipients ^a	9,514,892	35,255	0.4	8,205,341	32,810	0.4
To educational subrecipients	5,187,467	591,002	11.4	4,657,136	505,169	10.8
To businesses	1,711,781	204,326	11.9	1,379,718	172,271	12.5
To nonprofit organizations	1,724,170	148,755	8.6	1,442,979	127,218	8.8
To other pass-through entities	891,474	149,780	16.8	725,508	122,976	17.0
Short form institutions ^b						
To educational subrecipients	2,850	126	4.4	1,807	116	6.4

^a Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details.

^b Institutions in the short form population were asked to provide R&D expenditures passed through to educational subrecipients only.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE A-15

Imputed amounts for total and federally financed higher education R&D expenditures at institutions in the standard form population, by R&D field: FY 2023

(Dollars in thousands)

R&D field	Total			Federally financed		
	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
All R&D fields	108,681,008	86,252	0.1	59,603,993	47,204	0.1
All science and engineering	101,776,017	1,389,829	1.4	57,879,194	475,949	0.8
Computer and information sciences	3,617,348	19,630	0.5	2,417,938	2,787	0.1
Geosciences, atmospheric sciences, and ocean sciences	4,032,534	27,365	0.7	2,693,891	2,918	0.1
Atmospheric science and meteorology	723,727	37,424	5.2	583,161	32,606	5.6
Geological and earth sciences	1,488,300	110,807	7.4	921,482	66,674	7.2
Ocean sciences and marine sciences	1,365,092	56,495	4.1	891,194	48,360	5.4
Geosciences, atmospheric sciences, and ocean sciences nec	455,415	17,152	3.8	298,054	9,573	3.2
Life sciences	62,204,360	808,168	1.3	33,896,235	204,449	0.6
Agricultural sciences	4,285,689	3,744	0.1	1,458,868	627	0.0
Biological and biomedical sciences	19,526,385	245,767	1.3	11,753,581	74,695	0.6
Health sciences	35,724,571	406,043	1.1	19,390,822	64,169	0.3
Natural resources and conservation	1,079,516	1,055	0.1	512,675	292	0.1
Life sciences nec	1,588,199	151,559	9.5	780,289	64,666	8.3
Mathematics and statistics	1,060,700	8,070	0.8	661,446	918	0.1
Physical sciences	6,944,769	102,458	1.5	4,621,763	10,425	0.2
Astronomy and astrophysics	967,125	11,033	1.1	659,781	50	0.0
Chemistry	2,301,102	20,414	0.9	1,413,489	3,204	0.2
Materials science	319,102	333	0.1	205,797	1	0.0
Physics	2,966,923	46,396	1.6	2,123,118	6,987	0.3
Physical sciences nec	390,517	24,282	6.2	219,578	183	0.1
Psychology	1,637,829	3,678	0.2	978,784	1,671	0.2
Social sciences	3,615,227	17,389	0.5	1,202,546	8,553	0.7
Anthropology	151,778	577	0.4	46,631	116	0.2
Economics	723,797	1,728	0.2	206,477	163	0.1
Political science and government	556,983	1,298	0.2	111,794	250	0.2
Sociology, demography, and population studies	727,782	1,548	0.2	317,113	296	0.1
Social sciences nec	1,454,887	12,238	0.8	520,531	7,728	1.5
Sciences nec	1,194,804	17,235	1.4	475,264	122	0.0
Engineering	17,468,446	98,011	0.6	10,931,327	5,552	0.1
Aerospace, aeronautical, and astronautical engineering	1,913,964	18,367	1.0	1,425,681	8,349	0.6
Bioengineering and biomedical engineering	1,885,216	15,422	0.8	1,198,449	1,669	0.1
Chemical engineering	1,246,882	3,896	0.3	713,248	81	0.0
Civil engineering	1,900,543	14,473	0.8	929,044	10,329	1.1
Electrical, electronic, and communications engineering	3,838,675	71,953	1.9	2,794,497	45,629	1.6
Industrial and manufacturing engineering	707,239	3,352	0.5	481,861	187	0.0
Mechanical engineering	2,324,946	39,461	1.7	1,551,973	23,439	1.5
Metallurgical and materials engineering	1,039,160	14,199	1.4	693,211	268	0.0
Engineering nec	2,611,821	10,974	0.4	1,143,363	254	0.0
All non-science and engineering	6,904,991	36,417	0.5	1,724,799	9,041	0.5

TABLE A-15

Imputed amounts for total and federally financed higher education R&D expenditures at institutions in the standard form population, by R&D field: FY 2023

(Dollars in thousands)

R&D field	Total			Federally financed		
	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
Business management and business administration	1,218,052	2,414	0.2	109,626	211	0.2
Communication and communications technologies	253,609	1,033	0.4	58,280	95	0.2
Education	2,042,372	12,279	0.6	890,786	7,692	0.9
Humanities	846,919	17,248	2.0	65,170	501	0.8
Law	430,807	351	0.1	35,110	64	0.2
Social work	416,735	259	0.1	205,510	169	0.1
Visual and performing arts	283,750	1,626	0.6	20,717	102	0.5
Non-science and engineering nec	1,412,747	1,207	0.1	339,600	207	0.1

nec = not elsewhere classified.

Note(s):

Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details. This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2022. Institutions reporting less than \$1 million in total R&D expenditures in FY 2022 completed a shorter version of the survey form in FY 2023 that did not include this question.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE A-16

Imputed amounts for total and federally financed higher education R&D expenditures at institutions in the short form population, by R&D field: FY 2023

(Dollars in thousands)

R&D field	Total			Federally financed		
	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
All R&D fields	160,140	13,663	8.5	74,942	5,936	7.9
All science and engineering	120,124	10,424	8.7	66,512	5,447	8.2
Computer and information sciences	7,678	707	9.2	5,714	516	9.0
Geosciences, atmospheric sciences, and ocean sciences	7,845	182	2.3	4,984	112	2.2
Life sciences	52,503	4,644	8.8	27,580	2,414	8.8
Mathematics and statistics	3,857	420	10.9	2,650	111	4.2
Physical sciences	20,268	891	4.4	13,283	440	3.3
Psychology	3,955	738	18.7	1,730	362	20.9
Social sciences	13,745	2,122	15.4	5,042	1,096	21.7
Sciences nec	4,572	170	3.7	1,877	46	2.5
Engineering	6,740	550	8.2	3,652	350	9.6
All non-science and engineering	38,977	3,432	8.8	8,430	682	8.1

nec = not elsewhere classified.

Note(s):

Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE A-17

Imputed amounts for higher education R&D expenditures, by type of cost: FY 2023

(Dollars in thousands)

Type of cost	All R&D expenditures	Imputed amount	Imputed amount as % of total
All costs	108,681,008	87,627	0.1
Direct costs	84,208,503	3,303,333	3.9
Salaries, wages, and fringe benefits	47,089,302	270,614	0.6
Software purchases	222,099	8,376	3.8
Noncapitalized	200,525	8,003	4.0
Capitalized	21,574	373	1.7
Capitalized equipment	3,259,897	17,843	0.5
Passed through to subrecipients	9,514,892	35,255	0.4
Other direct costs	24,122,313	863,075	3.6
Indirect costs	24,472,505	145,477	0.6

Note(s):

Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details. This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2022. Institutions reporting less than \$1 million in total R&D expenditures in FY 2022 completed a shorter version of the survey form in FY 2023 that did not include this question.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE A-18

Imputed amounts for total and federally financed higher education R&D equipment expenditures, by R&D field: FY 2023

(Dollars in thousands)

R&D field	Total			Federally financed		
	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
All R&D fields	3,259,897	17,843	0.5	1,573,117	10,229	0.7
All science and engineering	3,188,161	131,353	4.1	1,554,212	52,875	3.4
Computer and information sciences	133,914	12,773	9.5	73,273	3,515	4.8
Geosciences, atmospheric sciences, and ocean sciences	149,477	4,090	2.7	93,196	772	0.8
Atmospheric science and meteorology	23,967	732	3.1	18,240	121	0.7
Geological and earth sciences	57,147	1,632	2.9	28,915	307	1.1
Ocean sciences and marine sciences	60,956	1,714	2.8	42,381	341	0.8
Geosciences, atmospheric sciences, and ocean sciences nec	7,407	12	0.2	3,660	3	0.1
Life sciences	1,331,012	31,168	2.3	538,741	17,630	3.3
Agricultural sciences	157,445	626	0.4	52,081	415	0.8
Biological and biomedical sciences	566,598	14,624	2.6	261,976	9,373	3.6
Health sciences	541,976	12,363	2.3	199,709	6,244	3.1
Natural resources and conservation	19,270	204	1.1	7,153	170	2.4
Life sciences nec	45,723	3,351	7.3	17,822	1,428	8.0
Mathematics and statistics	13,546	7,937	58.6	6,646	2,510	37.8
Physical sciences	526,210	15,346	2.9	288,280	6,234	2.2
Astronomy and astrophysics	50,196	2,129	4.2	24,463	1,147	4.7
Chemistry	179,214	2,159	1.2	82,629	1,443	1.7
Materials science	19,923	33	0.2	9,231	33	0.4
Physics	223,252	9,142	4.1	149,604	3,354	2.2
Physical sciences nec	53,625	1,883	3.5	22,353	257	1.1
Psychology	16,859	385	2.3	9,106	278	3.1
Social sciences	21,316	1,097	5.1	5,269	564	10.7
Anthropology	2,183	11	0.5	666	1	0.2
Economics	4,171	314	7.5	1,512	133	8.8
Political science and government	1,455	43	3.0	583	10	1.7
Sociology, demography, and population studies	3,168	323	10.2	346	106	30.6
Social sciences nec	10,339	406	3.9	2,162	314	14.5
Sciences nec	49,040	1,968	4.0	13,653	597	4.4
Engineering	946,787	56,589	6.0	526,048	20,775	3.9
Aerospace, aeronautical, and astronautical engineering	129,830	7,214	5.6	81,026	2,113	2.6
Bioengineering and biomedical engineering	96,590	2,831	2.9	44,056	1,711	3.9
Chemical engineering	81,273	782	1.0	46,266	299	0.6
Civil engineering	55,115	507	0.9	24,507	213	0.9
Electrical, electronic, and communications engineering	205,886	24,972	12.1	131,082	9,206	7.0
Industrial and manufacturing engineering	31,933	4,315	13.5	18,130	1,267	7.0
Mechanical engineering	129,395	10,624	8.2	70,832	4,084	5.8
Metallurgical and materials engineering	71,977	1,489	2.1	48,955	732	1.5
Engineering nec	144,788	3,855	2.7	61,194	1,150	1.9
All non-science and engineering	71,736	1,006	1.4	18,905	421	2.2

TABLE A-18

Imputed amounts for total and federally financed higher education R&D equipment expenditures, by R&D field: FY 2023

(Dollars in thousands)

R&D field	Total			Federally financed		
	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
Business management and business administration	4,629	127	2.7	317	11	3.5
Communication and communications technologies	3,448	51	1.5	541	3	0.6
Education	6,954	562	8.1	2,270	359	15.8
Humanities	4,568	171	3.7	241	24	10.0
Law	743	17	2.3	121	2	1.7
Social work	293	12	4.1	167	8	4.8
Visual and performing arts	4,688	38	0.8	838	4	0.5
Non-science and engineering nec	46,413	28	0.1	14,410	10	0.1

nec = not elsewhere classified.

Note(s):

Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details. This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2022. Institutions reporting less than \$1 million in total R&D expenditures in FY 2022 completed a shorter version of the survey form in FY 2023 that did not include this question.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE A-19

Imputed amounts for headcount of R&D personnel, by personnel function and sex: FY 2023

(Number)

Type of personnel	All personnel functions			Researchers			R&D technicians			R&D support staff		
	All R&D personnel	Imputed amount	Imputed amount as % of total	All R&D personnel	Imputed amount	Imputed amount as % of total	All R&D personnel	Imputed amount	Imputed amount as % of total	All R&D personnel	Imputed amount	Imputed amount as % of total
All personnel	1,064,295	96,124	9.0	380,165	35,368	9.3	403,388	36,119	9.0	280,742	24,637	8.8
Sex												
Female	536,507	146,272	27.3	162,744	52,236	32.1	207,743	49,359	23.8	166,020	43,703	26.3
Male	503,932	135,072	26.8	209,952	65,409	31.2	188,066	41,518	22.1	105,914	27,136	25.6
Sex unknown or not stated	23,856	9,633	40.4	7,469	4,578	61.3	7,579	2,350	31.0	8,808	2,682	30.4

Note(s):

This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2022. Institutions reporting less than \$1 million in total R&D expenditures in FY 2022 completed a shorter version of the survey form in FY 2023 that did not include this question.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE A-20

Imputed amounts for FTEs, by personnel function: FY 2023

(Number)

Personnel functions	All R&D personnel	Imputed amount	Imputed amount as % of total
All personnel	518,383	119,278	23.0
Researchers	200,061	49,934	25.0
R&D technicians	195,114	44,539	22.8
R&D support staff	123,208	24,593	20.0

FTE = full-time equivalent.

Note(s):

This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2022. Institutions reporting less than \$1 million in total R&D expenditures in FY 2022 completed a shorter version of the survey form in FY 2023 that did not include this question. FTE R&D personnel are calculated as the total working effort spent on R&D during a specific period divided by the total effort representing a full-time schedule within the same period.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE A-21

Federally financed higher education R&D expenditures from federal agencies not specified in question 9: FY 2023

(Dollars in thousands)

Federal agency	R&D expenditures
All other federal agencies	4,091,656
Administrative Office of the U.S. Courts	64
Agency for International Development	230,973
Appalachian Regional Commission	1,466
Central Intelligence Agency	7,091
Consumer Product Safety Commission	2,069
Corporation for National and Community Service	6,776
Department of Commerce	934,141
Department of Defense ^a	117
Department of Education	735,201
Department of Health and Human Services ^a	8,082
Department of Homeland Security	197,091
Department of Housing and Urban Development	19,263
Department of Justice	129,191
Department of Labor	33,962
Department of State	60,803
Department of the Interior	344,406
Department of the Treasury	55,210
Department of Transportation	513,853
Department of Veterans Affairs	112,898
Election Assistance Commission	421
Environmental Protection Agency	107,413
Executive Office of the President	5,070
Federal Communications Commission	922
General Services Administration	1,488
Institute of Museum and Library Services	6,101
Institute of Peace	260
Millennium Challenge Corporation	3,041
National Archives and Records Administration	2,006
National Endowment for the Arts	2,948
National Endowment for the Humanities	19,951
Northern Border Regional Commission	412
Nuclear Regulatory Commission	6,062
Office of Personnel Management	2,548
Office of the Director of National Intelligence	27,790
Small Business Administration	24,709
Smithsonian Institution	3,206
Social Security Administration	18,111
Tennessee Valley Authority	2,906
Other agencies not listed ^b	463,634

^a This table includes a small amount of expenditures that originated from the Departments of Defense and Health and Human Services that are explicitly included in question 9. These expenditures were submitted by three institutions that did not move those expenditures to question 9 before survey close.

^b Some funding sources were not identified for security reasons or because the original source was not known.

Note(s):

This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2022. Institutions reporting less than \$1 million in total R&D expenditures in FY 2022 completed a shorter version of the survey form in FY 2023 that did not include this question.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

TABLE A-22

Response summary for question 13, capitalization thresholds, by highest degree granted, institutional control, and capitalization threshold: FY 2023

(Number)

Capitalization thresholds	All institutions	Highest degree granted		Institutional control	
		Doctorate	Nondoctorate	Public	Private
Equipment					
Do not capitalize	12	5	7	8	4
500	3	2	1	1	2
1,000	13	9	4	2	11
1,500	1	1	0	0	1
2,000	8	4	4	3	5
2,500	6	4	2	1	5
3,000	10	9	1	1	9
5,000	548	422	126	377	171
7,500	1	1	0	0	1
10,000	16	10	6	4	12
15,000	1	0	1	0	1
25,000	10	2	8	2	8
50,000	1	1	0	0	1
100,000	1	0	1	1	0
250,000	4	2	2	4	0
Software					
Do not capitalize	100	69	31	63	37
500	2	1	1	1	1
1,000	12	7	5	3	9
1,500	1	1	0	0	1
2,000	5	2	3	1	4
2,500	2	1	1	0	2
3,000	8	6	2	1	7
5,000	284	206	78	162	122
7,500	1	1	0	0	1
10,000	19	10	9	7	12
15,000	1	0	1	0	1
20,000	1	0	1	0	1
25,000	14	7	7	4	10
50,000	11	11	0	5	6
75,000	2	2	0	1	1
100,000	97	83	14	89	8
140,000	1	1	0	1	0
200,000	3	3	0	3	0
250,000	19	17	2	16	3
300,000	1	1	0	0	1
400,000	3	3	0	3	0
500,000	19	17	2	16	3
1,000,000	24	19	5	23	1
4,000,000	2	2	0	2	0
5,000,000	1	1	0	1	0

Note(s):

This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2022. Institutions reporting less than \$1 million in total R&D expenditures in FY 2022 completed a shorter version of the survey form in FY 2023 that did not include this question.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.

Acknowledgments and Suggested Citation

Acknowledgments

Michael T. Gibbons of the National Center for Science and Engineering Statistics (NCSES) developed and coordinated this report under the guidance of Amber Levanon Seligson, NCSES Program Director, and the leadership of Emilda B. Rivers, NCSES Director; Christina Freyman, NCSES Deputy Director; and John Finamore, NCSES Chief Statistician. Jock Black (NCSES) reviewed the report.

Under contract to NCSES, ICF conducted the survey and prepared the data. ICF staff members who made significant contributions include Kathryn Harper, Project Director; Madelyn Roeder, Deputy Project Director; Jennifer Greer, Data Management Lead; Sindhura Geda, Data Management Specialist; Alison Celigo, Data Management Specialist; Cameron Shanton, Data Collection Specialist; Audrey Nankobogo, Data Collection Specialist; Henry LeVee, Data Collection Specialist; Vladimer Shioshvili, Survey Systems Lead.

NCSES thanks the research-performing academic institutions that provided information for this report.

Suggested Citation

National Center for Science and Engineering Statistics (NCSES). 2024. *Higher Education Research and Development: Fiscal Year 2023*. NSF 25-314. Alexandria, VA: U.S. National Science Foundation. Available at <https://nces.nsf.gov/surveys/higher-education-research-development/2023>.

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