

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

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(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

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Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2023 total: FYs 2020–23

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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

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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

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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

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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
Clafin 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.