

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

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					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

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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

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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

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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

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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.