

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
All institutions	-	43,099,189	45,611,147	48,256,664	49,640,508	3,626,162	15,761,876	28,026,662	900,697	1,325,111
U. California, San Francisco	1	1,346,383	1,532,722	1,529,156	1,581,411	0	2,358	1,579,053	0	0
U. Pennsylvania	2	1,022,472	1,070,969	1,125,634	1,185,719	1,140	780,497	326,566	0	77,516
Johns Hopkins U. ^a	3	954,186 i	991,451 i	1,053,401 i	1,047,668 i	0 i	311,295 i	736,373 i	0 i	0 i
Duke U.	4	950,245	971,355	1,018,199	990,897	0	245,327	717,323	10,726	17,521
U. California, Los Angeles	5	761,824	917,899	925,447	989,602	0	34,022	955,580	0	0
U. Texas M. D. Anderson Cancer Center	6	825,102	867,391	902,580	981,164	22,868	304,198	654,098	0	0
U. Michigan, Ann Arbor	7	826,506	873,031	955,653	967,660	2,073	266,507	622,140	22,439	54,501
U. Washington, Seattle	8	891,558	954,565	954,062	963,264	281	260,831	660,692	25,112	16,348
U. Pittsburgh, Pittsburgh	9	789,050	863,086	935,756	954,315	373	294,183	659,733	0	26
Yale U.	10	796,670	832,360	912,802	944,439	0	206,929	726,089	11,175	246
U. North Carolina, Chapel Hill	11	798,649	826,287	846,630	868,276	0	167,907	700,352	17	0
U. Wisconsin-Madison	12	707,668	740,883	814,119	839,302	104,300	277,654	451,868	935	4,545
Stanford U.	13	745,123	780,090	837,068	836,401	0	228,842	572,268	1,983	33,308
U. California, San Diego	14	667,478	782,882	819,167	828,401	0	62,532	765,869	0	0
Washington U., Saint Louis	15	672,672	731,083	796,337	824,978	0	359,856	465,122	0	0
Cornell U.	16	678,247	737,271	789,230	822,419	121,012	311,954	370,944	18,509	0
Icahn School of Medicine at Mount Sinai	17	575,448	640,141	722,241	747,014	0	359,900	387,114	0	0
Columbia U. in the City of New York	18	608,053	673,535	727,779	744,239	0	206,509	531,123	4,151	2,456
Emory U.	19	609,481	650,154	727,296	732,893	0	182,193	535,117	0	15,583
U. Minnesota, Twin Cities	20	607,864	635,157	684,938	722,074	74,148	111,883	474,705	55,059	6,279
U. Florida	21	589,755	656,347	689,605	688,091	214,551	125,655	327,963	19,139	783
Baylor C. of Medicine	22	604,952	623,396	651,920	685,641	0	311,546	374,095	0	0
Harvard U.	23	633,462	656,790	704,460	684,127	47	534,656	122,619	2,981 i	23,824 i
New York U.	24	633,746	609,745	630,246	643,638	0	250,446	389,211	0	3,981
Vanderbilt U. and Vanderbilt U. Medical Center	25	542,857	560,124	581,939	625,549	0	183,620	441,313	10	606
Northwestern U.	26	515,893	555,160	604,875	619,270	0	153,629	451,059	0	14,582
U. California, Davis	27	540,861	588,300	593,628	597,962	150,069	218,316	229,577	0	0
U. Texas Southwestern Medical Center	28	461,797	474,260	496,697	595,939	0	214,795	377,001	0	4,143
U. Maryland ^b	29	na	na	601,632	594,114	52,591	166,254	366,476	2,339	6,454
Ohio State U.	30	503,648	506,398	550,461	590,076	67,155	83,715	422,365	11,085	5,756
U. Southern California	31	471,334	579,028	568,194	580,982	0	132,168	427,949	0	20,865

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Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. Alabama, Birmingham	32	491,477	511,345	533,536	542,308	0	132,963	409,345	0	0
U. Colorado Denver and Anschutz Medical Campus	33	463,907	506,173	523,713	536,533	15	10,354	525,897	31	236
Rutgers, State U. New Jersey, New Brunswick	34	446,329	478,476	447,552	518,906	77,405	113,712	319,113	34	8,642
Indiana U., Bloomington	35	364,265	401,303	470,583	518,775	0	123,811	384,331	0	10,633
Texas A&M U., College Station and Health Science Center	36	349,570	342,961	351,403	502,372	186,922	77,408	220,948	13,586	3,508
Scripps Research Institute	37	354,582	396,839	427,734	444,964	0	444,964	0	0	0
U. Cincinnati	38	365,532	390,071	437,494	440,721	0	62,270	363,772	0	14,679
U. Arizona	39	348,497	399,790	426,393	437,147	50,725	212,741	160,542	13,136	3
Oregon Health and Science U.	40	317,049	359,721	403,495	433,917	0	26,551	265,157	799	141,410
U. Virginia, Charlottesville	41	301,356	352,154	385,793	420,679	0	230,231	189,679	769	0
U. Iowa	42	368,252	386,776	385,909	414,459	0	126,870	284,636	0	2,953
U. Utah	43	229,488	391,825	343,744	402,001	0	40,013	361,988	0	0
Case Western Reserve U.	44	348,315	371,604	377,671	384,857	0	82,470	283,260	0	19,127
Boston U.	45	265,371	272,397	338,089	373,079	0	163,939	208,709	0	431
Rockefeller U.	46	329,655	334,048	332,899	337,377	0	322,734	14,643	0	0
U. Kentucky	47	275,761	294,776	314,547	322,077	69,756	175,026	77,295	0	0
Michigan State U.	48	323,754	340,065	353,934	319,883	112,270	117,715	60,154	14,634	15,110
Uniformed Services U. of the Health Sciences	49	286,621	298,517	406,726	316,838	0	1,525	315,313	0	0
U. Illinois, Chicago	50	277,145	269,169	289,366	314,296	0	81,071	222,385	10,840	0
U. Chicago	51	279,975	274,000	299,549	302,820	0	83,295	219,525	0	0
U. Georgia	52	285,274	262,237	294,353	302,667	122,395	143,796	32,872	317	3,287
U. Miami	53	271,203	274,934	284,045	302,160	0	78,338	218,739	791	4,292
Pennsylvania State U., University Park and Hershey Medical Center	54	260,627	280,091	266,143	291,299	100,221	98,382	90,967	1,729	0
U. California, Irvine	55	201,661	239,122	266,485	289,422	0	114,449	174,686	0	287
Albert Einstein C. of Medicine	56	289,685	297,328	298,824	288,654	0	0	288,654	0	0
U. Massachusetts, Medical School	57	279,884	274,211	281,507	279,096	0	137,103	94,555	0	47,438
U. Texas Health Science Center, Houston	58	246,060	258,411	271,525	273,862	0	54,213	118,123	0	101,526
Medical U. South Carolina	59	262,267	282,253	295,600	272,590	0	62,475	86,364	0	123,751
U. Rochester	60	232,649	244,380	248,086	259,224	0	54,066	205,158	0	0

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Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. California, Berkeley	61	224,599	234,055	239,459	258,228	5,506	130,392	55,230	67,100	0
Medical C. Wisconsin	62	209,618	222,767	243,500	255,783	0	83,882	171,901	0	0
Purdue U., West Lafayette	63	213,713	211,371	237,317	243,953	123,324	34,790	85,839	0	0
U. Illinois, Urbana-Champaign	64	199,917	206,379	222,994	241,661	79,576	77,458	2,845	81,782	0
SUNY, U. Buffalo	65	241,186	244,106	249,349	241,467	0	88,070	150,541	0	2,856
North Carolina State U.	66	234,319	231,243	244,235	240,399	108,002	120,671	0	0	11,726
Wake Forest U.	67	179,098	188,702	230,592	236,154	0	3,538	232,490	126	0
Colorado State U., Fort Collins	68	131,900	161,006	211,774	231,734	61,780	39,769	24,849	101,604	3,732
U. Kansas	69	187,893	202,119	212,241	226,786	735	62,277	154,245	8,906	623
U. Missouri, Columbia	70	197,347	198,676	210,550	220,890	71,875	50,323	78,021	12,922	7,749
Temple U.	71	202,822	206,129	218,527	216,388	30	43,913	93,790	0	78,655
Virginia Commonwealth U.	72	167,275	181,220	185,744	206,550	0	53,656	137,007	0	15,887
U. Texas Health Science Center, San Antonio	73	169,200	179,219	188,483	202,572	0	67,851	112,594	0	22,127
U. Nebraska, Medical Center	74	171,491	177,245	194,455	202,406	0	105,620	96,786	0	0
Virginia Polytechnic Institute and State U.	75	198,911	198,326	198,424	199,798	84,380	40,276	47,236	25,921	1,985
Washington State U.	76	175,640	175,704	193,878	196,649	107,295	35,845	49,070	1,974	2,465
Wayne State U.	77	175,917	179,692	186,531	182,757	0	24,007	154,653	0	4,097
George Washington U.	78	160,836	173,664	175,830	179,803	0	52,902	126,901	0	0
U. Texas Medical Branch	79	183,773	179,303	173,776	179,403	0	137,316	42,087	0	0
U. Arkansas for Medical Sciences	80	128,508	139,187	153,135	174,549	0	67,447	105,955	0	1,147
Thomas Jefferson U.	81	142,569	148,573	170,458	171,207	0	74,942	96,265	0	0
Dartmouth C. and Dartmouth Hitchcock Medical Center	82	178,006	179,025	195,353	170,704	0	84,528	83,046	813	2,317
U. Oklahoma, Norman and Health Science Center	83	145,939	140,602	148,621	164,967	0	43,605	119,319	0	2,043
U. South Florida, Tampa	84	349,420	207,171	200,585	164,666	0	90,898	72,093	0	1,675
Tulane U.	85	137,828	151,823	152,554	161,642	0	39,053	41,445	133	81,011
U. Nebraska, Lincoln	86	152,195	156,100	161,097	161,499	100,056	30,234	16,883	14,326	0
U. Louisville	87	144,917	144,645	141,409	158,677	0	60,608	91,134	109	6,826
U. Connecticut	88	160,162	155,958	165,087	157,618	8,613	75,806	64,335	3,203	5,661
Georgetown U.	89	141,872	142,875	155,013	155,197	0	14,827	138,679	0	1,691
Louisiana State U., Baton Rouge	90	147,917	154,348	160,443	155,187	88,320	56,483	928	9,456	0
U. New Mexico	91	149,828	161,209	148,618	148,158	0	28,740	115,028	3,768	622

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Oregon State U.	92	131,061	135,466	136,589	143,505	75,087	38,938	7,447	21,791	242
U. Vermont	93	96,175	107,706	111,873	142,081	18,247	54,565	64,224	5,045	0
Tufts U.	94	173,969	71,546	114,635	136,826	5,500	92,119	31,949	39	7,219
Brown U.	95	104,671	122,607	130,419	134,751	0	57,280	41,744	0	35,727
U. Texas, Austin	96	94,334	119,249	117,716	130,377	58	62,802	62,010	2,526	2,981
Kansas State U.	97	129,924	134,291	133,246	127,024	95,332	30,940	752	0	0
Massachusetts Institute of Technology	98	129,735	138,075	143,017	126,648	861	67,446	20,529	509	37,303
Iowa State U.	99	143,406	151,654	149,764	123,853	44,790	39,072	15,103	7,157	17,731
U. Hawaii, Manoa	100	121,878	129,544	130,373	123,649	13,962	53,100	47,531	1,840	7,216
SUNY, Stony Brook U.	101	99,548	106,832	117,953	121,070	0	61,121	59,949	0	0
Mississippi State U.	102	118,441	112,967	118,479	119,753	89,819	10,917	1,738	17,170	109
Cold Spring Harbor Laboratory	103	97,288	115,870	126,773	115,051	1,657	113,394	0	0	0
Auburn U., Auburn	104	85,135	101,567	104,935	110,768	72,560	15,224	10,995	1,143	10,846
West Virginia U.	105	109,929	103,696	104,435	108,264	13,752	25,158	58,047	9,686	1,621
Arizona State U.	106	106,171	125,014	101,129	103,558	0	63,293	39,268	457	540
Augusta U.	107	99,383	98,925	96,123	103,554	0	40,513	60,177	0	2,864
North Dakota State U.	108	103,145	100,736	104,204	101,693	77,925	5,106	8,713	9,949	0
U. South Carolina, Columbia	109	99,356	77,248	70,689	98,789	0	18,374	80,412	3	0
U. Tennessee, Health Science Center	110	72,682	78,204	95,852	98,345	0	22,245	72,349	0	3,751
U. California, Riverside	111	81,455	85,128	91,835	95,431	21,969	60,674	12,788	0	0
Rush U.	112	70,846	86,277	93,701	92,494	0	13,822	78,672	0	0
Princeton U.	113	75,292	86,341	95,882	91,903	0	81,137	0	10,766	0
California Institute of Technology	114	77,964	80,318	87,505	89,626	0	89,580	46	0	0
Drexel U.	115	81,990	96,074	93,762	89,027	0	38,200	47,466	3,361	0
U. Louisiana, Lafayette	116	40,408	62,543	73,146	87,621	262	68,528	18,497	0	334
U. Mississippi	117	83,983	91,251	103,882	86,130	96	15,866	67,047	0	3,121
U. Tennessee, Knoxville ^c	118	16,142	23,092	24,065	84,619	42,734	22,643	9,977	9,265	0
U. Arkansas, Fayetteville	119	84,423	88,589	89,593	77,569	65,950	6,357	3,213	2,049	0
Oklahoma State U., Stillwater	120	71,053	80,716	76,701	75,506	36,886	19,956	8,614	10,050	0
U. Idaho	121	67,050	68,744	71,656	73,933	41,232	22,764	121	9,725	91
Clemson U.	122	53,479	57,408	62,391	71,776	23,699	28,361	7,465	3	12,248
Montana State U., Bozeman	123	65,910	65,459	72,765	71,440	40,695	19,994	10,030	186	535

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U. Nevada, Reno	124	54,031	61,782	64,307	71,378	8,439	36,791	19,029	6,161	958
Georgia State U.	125	75,634	76,083	70,211	66,831	596	50,131	13,803	0	2,301
U. Montana, Missoula	126	57,185	54,418	61,959	66,817	242	22,464	25,707	18,404	0
U. Delaware	127	62,222	55,454	60,535	66,097	32,048	5,344	28,705	0	0
Florida State U.	128	47,724	54,515	61,515	64,315	296	22,836	37,353	2,677	1,153
U. Massachusetts, Amherst	129	74,257	66,052	67,652	64,246	16,454	25,906	10,047	7,497	4,342
SUNY, U. Albany	130	74,020	93,050	101,768	60,025	0	27,543	32,478	0	4
Van Andel Research Institute	131	44,578	55,171	61,738	58,982	0	58,982	0	0	0
Saint Louis U.	132	48,824	50,538	54,582	58,836	0	27,623	31,213	0	0
Utah State U.	133	57,750	59,473	61,698	56,017	34,268	4,657	2,526	14,566	0
Florida International U.	134	46,662	46,906	51,676	55,877	84	39,760	13,961	2,072	0
U. New Hampshire	135	46,616	49,115	50,431	52,822	18,571	11,697	15,276	7,278	0
U. Colorado Boulder	136	37,296	41,637	51,990	52,074	1,448	41,081	5,377	1,137	3,031
South Dakota State U.	137	46,219	49,014	53,751	49,659	38,028	3,689	2,684	3,414	1,844
Texas Tech U.	138	48,789	51,017	52,335	49,230	26,571	12,709	5,204	4,746	0
U. Wyoming	139	46,842	41,272	41,934	47,073	12,086	14,659	2,320	11,018	6,990
U. California, Office of the President	140	26,556	38,811	53,460	46,725	2,503	0	40,585	0	3,637
Cleveland State U.	141	50,247	52,257	47,567	46,618	0	43,464	2,797	0	357
U. North Texas, Health Science Center	142	48,476	49,029	49,099	46,526	0	17,823	28,703	0	0
Georgia Institute of Technology	143	22,394	35,690	33,854	43,699	3,820	18,410	20,316	0	1,153
Louisiana State U., Health Sciences Center, New Orleans	144	40,310	38,989	40,914	43,419	0	19,533	23,192	0	694
New Mexico State U.	145	35,258	37,074	40,821	43,340	31,672	9,867	449	28	1,324
Texas Tech U., Health Sciences Center	146	38,657	36,784	42,959	43,102	0	21,528	21,574	0	0
SUNY, Upstate Medical U.	147	35,551	36,674	38,091	41,557	0	14,671	26,810	0	76
U. Maine	148	35,527	36,865	38,713	39,354	18,398	10,949	385	9,622	0
Northern Arizona U.	149	32,258	31,974	36,245	38,862	2,273	23,741	5,180	6,508	1,160
U. Puerto Rico, Medical Sciences Campus	150	42,423	41,216	44,985	37,081	0	0	37,081	0	0
U. South Alabama	151	31,113	31,779	40,597	36,664	0	87	18,893	0	17,684
U. Texas, Dallas	152	30,484	31,871	35,971	35,986	0	6,377	29,609	0	0
U. Oregon	153	33,718	36,242	35,644	35,936	0	33,631	1,004	483	818
Loyola U., Chicago	154	35,112	34,087	33,699	35,073	0	15,804	18,529	483	257

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U. Nevada, Las Vegas	155	17,404	22,193	31,434	34,733	65	12,763	21,019	208	678
U. Houston	156	31,631	33,476	39,727	34,394	40	12,625	21,435	255	39
Southern Illinois U., Carbondale	157	36,848	38,104	32,432	33,480	11,793	4,876	16,628	0	183
East Carolina U.	158	20,221	26,176	35,936	33,206	79	2,842	30,285	0	0
SUNY, Downstate Medical Center	159	31,873	34,661	36,015	33,204	0	32,389	815	0	0
George Mason U.	160	18,574	17,982	16,438	33,163	76	25,142	7,187	724	34
Northeastern U.	161	30,366	31,203	31,181	32,626	0	14,718	10,384	0	7,524
U. Central Florida	162	24,620	26,706	34,043	32,376	1	14,746	17,629	0	0
U. North Dakota	163	31,523	30,647	28,781	31,526	0	17,478	14,048	0	0
U. California, Santa Barbara	164	35,439	37,682	34,842	30,838	0	24,077	0	6,761	0
Morehouse School of Medicine	165	35,454	33,215	31,289	29,813	0	0	29,813	0	0
U. Alaska, Fairbanks	166	28,705	30,257	26,416	29,409	10,148	12,603	431	6,015	212
Florida Atlantic U.	167	25,082	23,880	25,420	28,725	73	16,997	7,865	0	3,790
U. Texas, El Paso	168	27,585	27,452	30,643	28,552	0	16,280	6,503	921	4,848
U. Texas Rio Grande Valley	169	18,141	15,776	25,619	28,351	1,187	4,093	19,143	137	3,791
San Diego State U.	170	29,409	28,003	28,629	27,880	0	14,602	12,357	921	0
U. Notre Dame	171	28,427	27,327	27,517	27,750	424	27,095	231	0	0
U. Toledo	172	23,303	23,752	27,889	27,748	26	5,710	20,743	0	1,269
U. Rhode Island	173	22,192	24,101	24,563	27,699	3,400	18,161	2,397	0	3,741
U. California, Santa Cruz	174	25,493	25,002	26,486	27,565	3,247	24,318	0	0	0
SUNY, C. of Environmental Science and Forestry	175	22,681	23,433	26,495	26,083	3,551	9,281	0	12,861	390
U. Texas, San Antonio	176	17,353	16,720	22,455	25,911	0	23,733	2,014	0	164
Howard U.	177	26,573	26,083	24,940	25,750	0	5,312	18,156	0	2,282
Louisiana State U., Health Sciences Center, Shreveport	178	22,560	24,463	26,262	25,321	0	10,644	13,911	0	766
Loma Linda U.	179	21,843	22,919	24,405	25,077	0	9,744	14,865	0	468
Albany Medical C.	180	20,443	21,187	23,028	23,510	0	17,150	6,360	0	0
Brandeis U.	181	30,140	24,400	22,063	23,263	0	21,190	2,047	0	26
Florida A&M U.	182	21,747	18,634	21,837	21,450	10,092	67	8,427	317	2,547
U. Texas Health Science Center, Tyler	183	16,292	17,949	19,606	21,265	0	21,265	0	0	0
Indiana U.-Purdue U., Indianapolis	184	18,607	19,393	20,263	21,183	0	7,034	13,557	0	592
Eastern Virginia Medical School	185	28,671	30,010	27,064	20,870	0	9,968	10,902	0	0

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. Missouri, Kansas City	186	14,461	13,616	16,974	20,183	0	5,780	14,403	0	0
New York Medical C.	187	15,637 i	8,141 i	19,398 i	20,137	0	7,391	7,585	0	5,161
New Jersey Institute of Technology	188	16,473	27,571	27,910	19,871	0	2,209	17,662	0	0
U. Minnesota, Duluth	189	19,522	19,392	19,286	19,580	0	1,090	1	18,489	0
U. Texas, Arlington	190	18,039	12,100	18,118	18,430	0	8,478	9,511	441	0
U. South Dakota	191	16,539	18,390	18,568	17,172	0	15,109	1,743	191	129
Texas A&M U.-Kingsville	192	15,082	14,907	16,431	16,722	15,291	1,386	0	45	0
North Carolina Agricultural and Technical State U.	193	18,980	17,349	16,756	16,663	12,495	1,612	0	2,556	0
Marshall U.	194	13,445	16,410	15,738	16,302	0	3,800	12,186	0	316
Rice U.	195	13,593	14,193	13,966	16,008	0	16,008	0	0	0
Northeast Ohio Medical U.	196	18,425	17,846	17,625	15,579	0	8,678	6,717	0	184
Ohio U.	197	21,365 i	17,098 i	15,739	15,375	0	7,691	7,158	0	526
Creighton U.	198	18,227 i	14,925 i	17,527 i	14,845 i	0 i	5,976 i	8,797 i	72 i	0 i
Carnegie Mellon U.	199	13,125	12,376	15,366	14,696	476	12,566	824	0	830
Rosalind Franklin U. of Medicine and Science	200	16,928	16,685	16,011	14,516	0	12,825	1,691	0	0
Old Dominion U.	201	13,104	14,020	14,668	14,463	0	9,611	4,585	267	0
Delaware State U.	202	11,479	11,406	13,791	14,314 i	7,076 i	6,838 i	275 i	1 i	124 i
Meharry Medical C.	203	16,782	16,980	18,286	13,870	0	13,870	0	0	0
Langston U.	204	10,548 i	10,417 i	10,287	13,843	10,615	1,650	1,578	0	0
Charles R. Drew U. of Medicine and Science	205	15,652	11,490	13,739	13,682	0	0	13,682	0	0
Ponce Health Sciences U.	206	8,664	7,857	11,390	13,566	0	0	13,566	0	0
Portland State U.	207	11,670	13,266	15,844	13,547	46	7,666	2,224	3,611	0
Wright State U.	208	16,237	15,403	16,448	13,515	0	7,780	5,732	0	3
San Francisco State U.	209	11,163	11,292	12,886	13,391 i	0 i	12,512 i	191 i	601 i	87 i
Nova Southeastern U.	210	12,411	13,414	14,236	13,298	0	0	13,298	0	0
U. Nebraska, central administration	211	ne	8,962	12,205	13,089	2,242	9,514	1,333	0	0
Rutgers, State U. New Jersey, Newark	212	12,005	9,789	10,800	13,014	0	12,676	338	0	0
SUNY, Binghamton U.	213	12,731	14,340	12,165	12,877	0	4,595	8,035	66	181
U. North Texas, Denton	214	9,274	10,703	12,644	12,745	479	10,805	1,354	0	107
Tennessee State U.	215	12,075	13,330	11,924	12,466	10,391	1,535	65	85	390
Texas State U.	216	7,461	10,089	11,304	12,417	376	7,213	2,257	0	2,571

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. Massachusetts, Lowell	217	13,892	9,600	8,730	12,056	0	5,523	5,198	725	610
Miami U.	218	6,604	8,597	11,143	12,044	42	5,852	5,586	0	564
Marquette U.	219	9,875	10,388	13,155	11,696	84	5,871	4,570	0	1,171
U. Maryland, Baltimore County	220	3,498	4,888	11,834	11,478	846	9,422	934	50	226
U. Southern Mississippi	221	7,699	10,079	10,316	11,248	0	8,948	2,300	0	0
CUNY, Queens C.	222	9,545	10,167	10,992	11,236	0	1,250	9,978	0	8
Rowan U.	223	6,569	7,700	11,107	11,115	0	3,264	7,836	0	15
CUNY, Graduate School of Public Health and Health Policy	224	na	7,290	7,882	10,899	154	688	10,057	0	0
Syracuse U.	225	11,722	10,721	12,095	10,724	87	7,080	2,785	772	0
Boise State U.	226	9,022	8,838	9,858	10,616	299	8,089	1,343	885	0
Midwestern U.	227	9,207	10,173	10,343	10,479	33	6,539	3,907	0	0
U. Memphis	228	9,160	11,041	10,521	10,395	232	4,754	5,192	0	217
Texas Tech U., Health Sciences Center, El Paso	229	15,526	12,145	11,649	10,294	0	2,280	8,014	0	0
U. Wisconsin-Milwaukee	230	7,690	7,828	8,637	10,279	0	4,150	6,129	0	0
East Tennessee State U.	231	8,069	9,373	10,721	10,103	3	5,949	4,145	0	6
Illinois Institute of Technology	232	10,723	11,310	11,618	9,993	863	8,046	1,023	0	61
Duquesne U.	233	11,088	10,603	9,595	9,914	0	3,648	6,266	0	0
Boston C.	234	13,811	12,494	13,514	9,824	0	8,248	1,576	0	0
U. Guam	234	5,994	8,303	8,964	9,824	2,384	291	2,408	4,728	13
U. California, Merced	236	6,353	7,725	10,943	9,333	0	7,563	1,770	0	0
Brigham Young U., Provo	237	10,858	10,262	9,121	9,218	2,559	5,643	946	0	70
U. Maryland Center for Environmental Science	238	6,945	9,772	10,614	9,194	997	1,978	0	6,164	55
Central Michigan U.	239	7,730	8,240	8,603	9,145	32	3,874	4,390	849	0
U. Alabama, Tuscaloosa	240	5,668	7,297	8,452	8,985	0	3,602	5,383	0	0
CUNY, Hunter C.	241	9,123	6,221	7,408	8,957	0	8,550	407	0	0
U. Massachusetts, Boston	242	11,478	8,722	9,692	8,950	40	4,610	3,320	980	0
Mercer U.	243	5,172	8,058	8,298	8,624	0	235	5,307	0	3,082
Kent State U.	244	5,771	5,611	8,388	8,335	0	6,330	1,965	35	5
Prairie View A&M U.	245	8,106	7,755	8,105	8,280	7,719	379	48	134	0
Southern Illinois U., Edwardsville	246	7,443	8,931	10,357	8,190	3,324	1,047	3,799	0	20
Tuskegee U.	247	9,308	7,564	8,427	8,145	5,871	2,274	0	0	0

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
California Polytechnic State U., San Luis Obispo	248	6,773	6,326	8,979	7,929	3,201	1,009	2,899	820	0
Alcorn State U.	249	10,484	8,877	8,664	7,918	7,810	0	108	0	0
Kentucky State U.	250	7,654	8,606	8,139	7,806	7,732	0	0	74	0
Oklahoma State U., Center for Health Sciences	251	1,191	2,497	4,815	7,616	0	452	7,164	0	0
U. North Carolina, Greensboro	252	5,473	6,221	8,554	7,582	0	4,352	3,230	0	0
Edward Via C. of Osteopathic Medicine	253	8,119	7,601	7,225	7,475	0	1	7,474	0	0
Baylor U.	254	5,503	5,839	5,641	7,456	221	4,523	2,267	445	0
U. Arkansas, Pine Bluff	255	6,946	7,033	7,878	7,415	7,218	74	0	0	123
Chapman U.	256	4,204	5,505	7,139	7,307	102	4,374	2,761	0	70
Humboldt State U.	257	5,019	7,549	7,570	7,291	163	1,302	246	5,510	70
U. Missouri, Saint Louis	258	4,345	4,163	6,824	7,254	11	1,567	5,458	218	0
North Carolina Central U.	259	6,468	6,916	8,401	7,233	0	6,873	360	0	0
CUNY, City C.	260	9,906	9,336	8,010	7,167	0	2,752	4,387	0	28
U. of the Virgin Islands	261	10,557	10,251	9,712	7,103	2,351	1,554	1,157	2,041	0
U. North Carolina, Wilmington	262	6,682	6,991	7,782	7,090	565	4,791	481	1,253	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	263	6,736	5,854	5,488	6,999	0	5,859	1,136	4	0
Texas A&M U.-Corpus Christi	264	3,163	4,650	5,669	6,975	17	6,377	22	447	112
U. Alaska, Anchorage	265	7,514	7,822	8,863	6,857	294	4,665	129	952	817
California State U., Northridge	266	6,196	8,561	10,053	6,822	252	3,875	0	0	2,695
Arkansas State U., Jonesboro	267	5,227	6,184	6,659	6,636	1,897	4,707	32	0	0
Long Island U.	268	1,499	1,648	4,561	6,526	0	621	5,905	0	0
Tarleton State U.	269	6,081	6,262	6,594	6,429	5,488	249	350	228	114
Virginia State U.	270	5,807	6,820	6,886	6,123	5,920	24	179	0	0
Rensselaer Polytechnic Institute	271	5,448	5,431	5,384	6,102	0	6,102	0	0	0
Clark Atlanta U.	272	5,536	6,172	6,360	6,017	0	6,017	0	0	0
U. New England	273	6,248	5,530	5,864	5,904	22	3,742	2,080	60	0
U. Nebraska, Omaha	274	5,343	4,641	4,020	5,892	84	2,254	3,445	31	78
Kennesaw State U.	275	3,611	2,394	3,466	5,740	16	4,759	965	0	0
Oakland U.	276	5,823	5,376	7,041	5,653	0	3,323	1,603	0	727
Central State U.	277	1,217	2,816	2,923	5,451	5,047	59	0	266	79
Lincoln U., Jefferson City	278	4,497	3,709	4,089	5,404	4,516	227	0	654	7

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
West Virginia State U.	279	5,762	5,748	5,424	5,199	3,481	872	0	846	0
Alabama A&M U.	280	12,345 i	9,946 i	7,546 i	5,142 i	502 i	1,521 i	2,991 i	128 i	0 i
Morgan State U.	281	4,505	4,027	4,197	5,061	224	2,906	1,931	0	0
U. Denver	282	2,836	3,838	4,388	4,889	0	4,591	0	298	0
Western U. of Health Sciences	283	5,740	4,063	3,936	4,866	533	4,010	323	0	0
U. of Health Sciences and Pharmacy in St. Louis	284	ne	ne	ne	4,835	0	0	4,835	0	0
California State U., Long Beach	285	3,130	5,238	5,335	4,816	0	2,110	2,704	0	2
CUNY, Advanced Science Research Center	286	698	1,709	3,935	4,679	0	3,733	0	869	77
Fort Valley State U.	287	5,085	3,593	4,321	4,581	4,452	129	0	0	0
U. North Carolina, Charlotte	288	3,451	4,314	5,534	4,512	0	2,608	1,904	0	0
Southern U. and A&M C., Agricultural Research and Extension Center	289	5,000 i	5,296	5,448	4,475	3,159	298	662	356	0
Teachers C., Columbia U.	290	1,959	3,554	4,651	4,455	0	0	0	0	4,455
Roseman U. of Health Sciences	291	4,167	3,973	4,176 i	4,380	0	0	4,380	0	0
U. Detroit Mercy	292	2,418	4,353	4,796	4,337	0	4,019	318	0	0
U. Wisconsin-Stevens Point	293	3,080 i	3,492 i	3,903 i	4,317	1,029	214	23	3,051	0
California State U., Fresno	294	4,331	4,719	4,404	4,306	3,277	449	572	0	8
U. Hawaii, Hilo	295	5,546	4,753	4,212	4,149	1,020	1,548	851	225	505
Lehigh U.	296	2,335	2,814	4,448	4,121	0	4,073	0	0	48
Idaho State U.	297	4,051	4,054	3,638	3,936	0	2,459	1,477	0	0
U. Central del Caribe	298	5,634	4,111	3,953	3,931	0	0	3,931	0	0
Xavier U. Louisiana	299	3,814	3,986	3,255	3,929	0	1,070	2,859	0	0
Pacific U.	300	3,747	3,124	5,294	3,852	0	160	3,202	48	442
Michigan Technological U.	301	3,947	3,788	4,323	3,804	0	2,392	1,390	0	22
Albany C. of Pharmacy and Health Sciences	302	2,561	2,730	3,381	3,765	0	2,732	1,033	0	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	303	3,285	3,502	3,769	3,737	0	3,587	150	0	0
Des Moines U.	304	1,215	1,137	1,406	3,637	261	2,809	567	0	0
U. Puerto Rico, Rio Piedras	305	3,705	2,841	3,728	3,617	0	3,590	27	0	0
Fisk U.	306	845	2,162	4,520	3,585	0	3,427	113	32	13
West Texas A&M U.	307	3,118	2,782	2,915	3,570	3,117	21	0	432	0
Desert Research Institute	308	2,432	3,232	2,993	3,539	0	3,539	0	0	0

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Touro U.	308	3,122	3,233	3,543	3,539	0	2,514	0	0	1,025
Eastern Michigan U.	310	1,304	1,433	2,322	3,498	0	1,350	1,872	274	2
SUNY, C. of Optometry	311	3,304	3,120	2,968	3,477	0	0	3,477	0	0
Villanova U.	312	2,524	1,756	2,381	3,438	0	2,133	1,305	0	0
Philadelphia C. of Osteopathic Medicine	313	2,969	3,059	3,162	3,360	0	945	2,415	0	0
Montclair State U.	314	1,706	2,436	2,586	3,277	17	1,422	1,206	632	0
California State U., Monterey Bay	315	3,490	3,668	3,887	3,225	1,164	2,006	49	0	6
Illinois State U.	316	2,275	2,682	3,688	3,183	184	2,008	991	0	0
U. of the Sciences Philadelphia	317	3,459	2,941	3,096	3,181	0	859	2,304	0	18
U. Alabama, Huntsville	318	1,864	2,528	2,815	3,170	2	2,046	1,122	0	0
MGH Institute of Health Professions	319	1,839	2,957	3,494	3,014	0	1,427	1,587	0	0
Wichita State U.	320	1,339	1,918	2,850	2,980	0	2,959	21	0	0
Western Kentucky U.	321	3,223	3,209	3,422	2,888	581	1,307	686	0	314
U. Arkansas, Little Rock	322	2,295	1,647	2,483	2,878	0	2,833	35	10	0
New York Institute of Technology	323	2,224	2,560	4,479	2,757	0	283	2,474	0	0
Ball State U.	324	2,572	2,615	2,880	2,738	0	1,412	1,171	155	0
William & Mary	325	2,365	3,463	2,775	2,694	453	2,241	0	0	0
Texas Southern U.	326	2,470	2,035	2,695	2,673	0	2,673	0	0	0
California State Polytechnic U., Pomona	327	3,182	3,700	2,983	2,656	838	1,818	0	0	0
U. Oklahoma, Tulsa	328	1,626	2,409	2,328	2,633	0	0	2,633	0	0
U. Maryland, Eastern Shore	329	2,017	201	721	2,572	1,885	269	259	159	0
CUNY, Brooklyn C.	330	1,693	1,740	2,429	2,519	0	1,792	660	0	67
Louisiana Tech U.	331	2,171	2,303	2,565	2,510	841	753	449	0	467
Yeshiva U.	332	3,258	3,302	2,420	2,477	0	0	2,477	0	0
Murray State U.	333	1,975	2,368	3,136	2,475	76	2,399	0	0	0
California State U., Fullerton	334	2,339	2,515	2,843	2,440	223	1,395	707	115	0
Winston-Salem State U.	335	866	884	650	2,400	0	684	1,716	0	0
Salisbury U.	336	1,547	1,850	2,004	2,366	0	366	1,995	0	5
St. John's U., New York	337	1,117	2,057	1,763	2,324	0	998	1,326	0	0
Northern Illinois U.	338	1,008	3,552	4,306	2,319	0	436	1,854	29	0
Tennessee Technological U.	339	2,154	1,202	2,025	2,306	427	1,167	96	615	1
California State U., Los Angeles	340	869	1,794	2,989	2,299	0	1,949	257	0	93

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Texas Woman's U.	341	2,450	2,451	2,121	2,259	28	562	1,669	0	0
U. of the District of Columbia	342	1,872	1,804	2,600	2,157	2,157	0	0	0	0
Southern Methodist U.	343	1,094	1,305	1,533	2,144	0	2,144	0	0	0
Jackson State U.	344	3,549	2,140	1,902	2,129	0	1,045	1,084	0	0
U. Louisiana, Monroe	345	1,869	1,805	1,795	2,104	29	410	1,665	0	0
Worcester Polytechnic Institute	345	1,873	2,049	1,791	2,104	0	2,104	0	0	0
U. West Florida	347	2,531	2,129	1,511	2,081	0	1,690	109	0	282
Colorado School of Mines	348	3,033	2,282	2,324	2,073	382	1,549	132	10	0
Framingham State U.	349	1,833	73	ne	2,060	0	0	2,060	0	0
Middle Tennessee State U.	350	2,065	1,597	1,679	2,029	378	1,359	112	180	0
U. Wisconsin-Superior	351	ne	2,984	2,219	2,026	0	1	0	2,025	0
Azusa Pacific U.	352	2,291	2,685	995	2,002	0	126	1,876	0	0
Catholic U. of America	353	2,116	2,503	2,368	2,000	0	1,333	667	0	0
Alabama State U.	354	2,253	2,434	2,577	1,989	0	1,747	0	0	242
SUNY, Polytechnic Institute	355	3,218	2,260	1,995	1,977	0	1,977	0	0	0
Clark U.	356	739	1,225	2,057	1,953	797	1,134	0	11	11
U. Nebraska, Kearney	356	1,985	1,439	1,810	1,953	178	775	632	368	0
Grand Valley State U.	358	654	1,387	1,338	1,914	0	667	1,216	0	31
Western Illinois U.	358	910	1,214	1,413	1,914	1,062	852	0	0	0
Palmer C. of Chiropractic, Davenport	360	1,189	1,600	1,650	1,900	0	0	0	0	1,900
California State U., San Marcos	361	2,412	2,540	1,950	1,888	0	1,451	324	0	113
American U.	362	2,314	1,703	1,854	1,886	0	1,235	0	0	651
U. Akron	363	1,611	1,633	1,928	1,882	0	1,699	183	0	0
U. Puerto Rico, Mayaguez	364	2,725	2,027	2,526	1,881	814	1,067	0	0	0
Appalachian State U.	365	1,709	1,573	1,663	1,879	87	840	409	543	0
Stephen F. Austin State U.	366	2,262	1,744	1,992	1,848	1,695	57	92	0	4
James Madison U.	367	822	1,130	1,146	1,844	12	1,099	631	93	9
Missouri State U.	368	1,226	1,468	1,646	1,812	578	651	0	525	58
Smith C.	369	2,511	2,646	2,368	1,783	0	1,657	126	0	0
Bowling Green State U.	370	1,257	1,146	1,268	1,766	398	909	304	155	0
Hampton U.	371	2,095	1,290	1,777	1,745	0	783	962	0	0
Oregon Institute of Technology	372	189	59	1,940	1,741	0	765	777	67	132

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Tougaloo C.	372	2,120	2,012	1,444	1,741	0	503	1,238	0	0
Sam Houston State U.	374	744	1,572	2,297	1,730	330	1,382	18	0	0
Colorado State U., Pueblo	375	ne	ne	1,693	1,703	0	1,676	0	0	27
Georgia Southern U.	376	4,680	2,881	2,331	1,664	34	5	1,173	289	163
Naval Postgraduate School	377	518	1,313	1,939	1,655	0	1,185	200	0	270
St. Edward's U.	378	2,674	1,038	2,210	1,620	275	825	0	520	0
Sul Ross State U.	379	1,576	2,011	1,578	1,595	123	0	0	1,472	0
Keck Graduate Institute	380	1,859	i 1,367	i 1,537	i 1,578	i 0	i 648	i 930	i 0	i 0
Reed C.	381	803	1,754	1,588	1,573	0	1,573	0	0	0
Hobart and William Smith Colleges	382	392	ne	1,335	1,563	11	79	0	1,473	0
U. North Carolina, Asheville	383	1,014	1,713	1,271	1,559	0	493	718	292	56
San Jose State U.	384	1,310	1,073	1,133	1,542	0	1,542	0	0	0
Fayetteville State U.	385	909	1,354	1,236	1,483	0	408	1,075	0	0
U. Massachusetts, Dartmouth	386	2,217	2,304	2,062	1,467	0	1,390	77	0	0
California State U., Chico	387	808	1,169	1,089	1,466	1,224	184	0	0	58
Wellesley C.	388	862	1,099	1,515	1,455	1	1,454	0	0	0
Fordham U.	389	2,373	2,382	1,819	1,435	0	1,435	0	0	0
National U. of Natural Medicine	390	921	ne	1,245	1,428	0	0	1,428	0	0
U. North Florida	391	1,137	1,347	1,373	1,388	0	907	481	0	0
South Carolina State U.	392	5,867	i 6,234	1,318	1,367	i 0	i 1,175	i 192	i 0	i 0
Marshall B. Ketchum U.	393	1,512	i 1,451	i 1,430	i 1,357	i 0	i 0	i 1,357	i 0	i 0
Mercyhurst U.	394	0	i ne	i 1,315	i 1,350	i 0	i 546	i 804	i 0	i 0
Austin Peay State U.	395	590	826	912	1,333	0	60	3	947	323
California State U., Sacramento	396	1,072	1,368	1,324	1,328	0	682	325	321	0
Dillard U.	397	4,529	4,889	1,776	1,323	0	1,099	224	0	0
Southern Connecticut State U.	398	237	598	841	1,308	37	357	907	7	0
West Virginia School of Osteopathic Medicine	399	ne	ne	ne	1,303	0	629	669	0	5
U. Texas, Tyler	400	933	979	1,378	1,302	146	541	440	175	0
CUNY, C. Staten Island	401	1,087	1,163	i 923	1,277	0	554	723	0	0
Indiana U. Pennsylvania	402	925	985	1,474	1,251	0	1,107	144	0	0
Hawaii Pacific U.	403	1,327	1,354	1,265	1,248	654	594	0	0	0
Bates C.	404	765	622	845	1,247	0	1,166	7	9	65

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Gallaudet U.	405	3,379	2,247	1,311	1,239	0	853	384	2	0
U. Northern Colorado	405	1,859	1,856	1,679	1,239	0	896	311	0	32
Rochester Institute of Technology	407	561	871	903	1,238	0	1,238	0	0	0
Saginaw Valley State U.	408	539	998	1,381	1,229	20	62	1,145	0	2
William Paterson U.	409	425	926	1,040	1,210	0	512	650	22	26
SUNY, C. Brockport	410	986	1,132	846	1,197	127	299	12	759	0
Bowdoin C.	411	1,344	1,473	1,476	1,196	0	1,196	0	0	0
California State U., Stanislaus	412	1,104	1,027	910	1,169	0	1,163	6	0	0
Pace U.	413	795	905	913	1,166	0	431	378	0	357
New England C. of Optometry	414	ne	1,026	1,223	1,150	0	0	1,150	0	0
C. Charleston	415	1,563	1,095	1,366	1,128	0	882	146	100	0
Western Carolina U.	415	502	550	1,095	1,128	75	279	774	0	0
Northeastern Illinois U.	417	380	1,343	1,325	1,122	0	249	873	0	0
U. South Florida, Saint Petersburg	418	830	1,459	1,233	1,120	0	386	206	528	0
U. Wisconsin-Green Bay	419	342 i	823 i	1,173 i	1,114 i	131 i	306 i	649 i	28 i	0 i
California State U., East Bay	420	ne	ne	ne	1,103	0	439	629	0	35
U. Puerto Rico, Cayey	421	56	10	802 i	1,092	0	601	426	40	25
West Chester U. Pennsylvania	422	1,198	1,318	1,598	1,072	0	459	613	0	0
Amherst C.	423	724	869	1,570	1,064	0	1,064	0	0	0
U. Tennessee, Chattanooga	424	532	776	853	1,036	0	843	193	0	0
Northern Kentucky U.	425	587	253	623	1,007	0	458	532	17	0
Clarkson U.	426	1,284	1,401	1,163	999	0	902	97	0	0
U. Wisconsin-Oshkosh	427	835 i	884 i	953 i	989 i	0 i	340 i	649 i	0 i	0 i
Purdue U., Northwest	428	793	775	615	988	50	18	920	0	0
U. of the Pacific	429	871	1,267	1,187	982	0	641	341	0	0
Trinity C., Hartford	430	591	529	983	975	0	908	0	0	67
U. New Orleans	431	758	626	817	974	0	974	0	0	0
Missouri U. of Science and Technology	432	596	956	922	971	0	970	1	0	0
Keene State C.	433	167	ne	549	967	0	956	0	11	0
U. of the Incarnate Word	434	ne	315	836	962	0	327	531	0	104
U. South Carolina, Aiken	434	1,052	934	625	962	0	962	0	0	0
Western Washington U.	436	884	518	937	958	0	721	0	0	237

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
California State U., San Bernardino	437	2,123	1,898	2,115	948	400	539	9	0	0
Southeastern Louisiana U.	438	1,103	774	827	941	0	793	148	0	0
Skidmore C.	439	1,209	1,489	1,221	937	0	85	852	0	0
SUNY, Buffalo State	440	486	564	645	929	0	929	0	0	0
Haverford C.	441	812	754	582	926	0	926	0	0	0
Texas A&M U.-Commerce	442	1,514	1,140	1,040	924	723	144	47	0	10
Wesleyan U.	443	2,167	1,744	1,810	909	0	909	0	0	0
California State U., Channel Islands	444	807	889	942	901	0	707	0	194	0
U. Southern Maine	445	1,243	1,223	893	880	424	195	74	187	0
Santa Clara U.	446	593	492	667	879	0	576	3	300	0
Furman U.	447	401	502	412	873	0	335	72	0	466
Claflin U.	448	416	242	350	857	0	857	0	0	0
U. Wisconsin-La Crosse	449	1,178	1,321	807	851	0	667	22	0	162
U. Colorado Colorado Springs	450	466	634	528	845	4	716	62	9	54
Swarthmore C.	451	691	648	755	841	0	841	0	0	0
Towson U.	452	761	710	914	836	0	531	295	10	0
Black Hills State U.	453	602	504	847	824	0	783	0	38	3
Texas Christian U.	454	2,669	1,719	1,932	822	47	311	464	0	0
Rhode Island C.	455	549	495	592	808	0	540	268	0	0
U. Central Arkansas	456	973	986	682	785	0	398	386	0	1
U. Ana G. Mendez, Gurabo	457	651	437	438	779	0	648	21	0	110
Biola U.	458	672	701	748	771	0	319	452	0	0
U. Richmond	459	691	823	937	765	0	765	0	0	0
Saint Joseph's U.	460	410	413	477	761	0	726	35	0	0
Florida Gulf Coast U.	461	809	274	153	760	26	0	632	102	0
Indiana State U.	462	638	744	852	745	0	690	55	0	0
Northern Michigan U.	463	255	611	684	727	0	430	200	97	0
Montana Technological U.	464	670	907	1,006	708	0	708	0	0	0
Bryn Mawr C.	465	1,105	1,018	829	705	0	640	0	65	0
Eastern Kentucky U.	466	638	769	885	701	4	609	80	0	8
Barnard C.	467	451	701	660	692	67	625	0	0	0
Williams C.	468	618	600	720	686	0	582	0	0	104

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Saint Michael's C.	469	1,174	1,096	775	684	0	671	0	0	13
U. Tulsa	470	648	662	920	678	0	500	178	0	0
Florida Institute of Technology	471	3,880	1,360	1,384	667	0	667	0	0	0
C. New Jersey	472	411	371	ne	657	0	649	8	0	0
Albany State U.	473	1,104	683	1,145	654	209	143	0	270	32
Lewis and Clark C.	474	780	577	584	651	0	651	0	0	0
Christopher Newport U.	475	281	428	584	644	0	644	0	0	0
Lipscomb U.	476	ne	ne	ne	643	0	264	379	0	0
Hope C.	477	428	708	477	636	0	629	7	0	0
U. Dayton	478	522	1,002	818	632	0	217	216	199	0
Spelman C.	479	759	684	536	624	0	604	20	0	0
Pepperdine U.	480	354	350	358	623	0	597	18	0	8
Middlebury C.	481	647	875	317	615	0	506	109	0	0
Midwestern State U.	482	ne	ne	ne	602	0	126	476	0	0
Doane U.	483	ne	652	585	601	0	601	0	0	0
Loyola Marymount U.	484	1,153	300	542	591	28	407	6	0	150
Bucknell U.	485	1,028	1,103	608	578	0	578	0	0	0
Franklin and Marshall C.	485	975	730	815	578	0	572	6	0	0
Hofstra U.	487	361	433	472	575	0	337	47	191	0
U. Alaska, Southeast	488	508	819	676	574	105	374	13	82	0
U. Washington, Bothell	489	0	229	653	558	172	0	297	89	0
Minnesota State U., Mankato	490	237	459	645	548	205	63	17	0	263
U. Massachusetts, central office	491	359	381	329	545	0	0	545	0	0
Kenyon C.	492	ne	574	569	534	0	534	0	0	0
Harvey Mudd C.	493	279	298	457	520	0	520	0	0	0
U. of St. Thomas (MN)	494	239	375	471	514	0	514	0	0	0
Trinity U.	495	478	448	452	505	0	499	6	0	0
Winthrop U.	496	368	386	513	501	0	100	401	0	0
Calvin U.	497	380	471	519	496	0	481	15	0	0
CUNY, New York City C. of Technology	497	ne	769	631	496	0	496	0	0	0
CUNY, York C.	499	ne	ne	377	494	0	485	9	0	0
Purdue U., Fort Wayne	500	2,119	2,355	680	488	0	483	5	0	0

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
CUNY, Medgar Evers C.	501	928	898	883	487	0	482	5	0	0
Grinnell C.	501	758	990	363	487	0	487	0	0	0
Fort Hays State U.	503	ne	ne	371	483	1	478	0	0	4
Colgate U.	504	709	737	726	478	0	478	0	0	0
Rhode Island School of Design	505	9 i	515 i	500 i	476 i	0 i	0 i	0 i	476 i	0 i
DePaul U.	506	773	783	479	465	0	296	79	1	89
SUNY, C. Plattsburgh	506	186	735	398	465	0	0	465	0	0
Ithaca C.	508	ne	ne	ne	459	0	138	303	0	18
Sonoma State U.	509	ne	ne	ne	456	0	197	45	214	0
Central Washington U.	510	670	613	517	449	0	428	0	21	0
Colby C.	511	865	910	812	443	0	304	0	0	139
St. Cloud State U.	512	1,211	1,048	887	441	0	349	78	4	10
Elizabeth City State U.	513	7	1	ne	435	0	435	0	0	0
Whitman C.	514	ne	ne	464	427	0	427	0	0	0
Eastern Washington U.	515	946	662	564	422	0	186	0	176	60
Providence C.	515	572	606	589	422	0	422	0	0	0
U.S. Military Academy	517	671	720	578	421	0	421	0	0	0
Bowie State U.	518	164	75	122	414	0	414	0	0	0
Johnson C. Smith U.	519	465	616	483	412	0	0	246	76	90
Pennsylvania State U., Harrisburg	520	15	138	187	411	2	82	327	0	0
Claremont McKenna C.	521	389	366	338	400	0	396	0	4	0
U. Wisconsin-Platteville	522	380 i	ne	389 i	396 i	207 i	111 i	0 i	78 i	0 i
U. Michigan, Dearborn	523	178	403	313	382	0	121	261	0	0
Eastern Connecticut State U.	524	45	76	302	381	0	376	5	0	0
U. Puget Sound	525	518	ne	ne	379	0	357	20	2	0
Dickinson C.	526	281	ne	307	369	0	70	53	238	8
Occidental C.	527	1,089	288	739	368	90	278	0	0	0
U. Central Oklahoma	528	262	314	367	366 i	0 i	303 i	63 i	0 i	0 i
Pittsburg State U.	529	103	212	393	360	0	178	69	113	0
Mount Holyoke C.	530	822	71	142	359	0	359	0	0	0
Dine C.	531	ne	1,238	1,074	347	19	0	328	0	0
U. Houston-Clear Lake	531	233	211	279	347	0	44	0	0	303

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Elon U.	533	337	397	367	344	0	140	45	0	159
Pomona C.	534	548	341	296	338	0	338	0	0	0
Southern U. and A&M C., Baton Rouge	534	381	357	430	338	122	128	2	86	0
U. Texas of the Permian Basin	536	0	0	ne	335	0	328	0	0	7
Carleton C.	537	140	339	532	334	0	256	0	78	0
Texas A&M International U.	538	2,244	3,150	3,569	333	0	9	220	104	0
New School	539	0	9	23	324	0	0	12	54	258
Davidson C.	540	496	414	525	322	0	322	0	0	0
California Lutheran U.	541	ne	ne	310	316	0	257	39	0	20
U. San Francisco	542	406	492	456	308	0	65	195	37	11
Liberty U.	543	ne	ne	867	307	0	247	26	0	34
Northwestern State U. Louisiana	543	109	202	261	307	0	131	176	0	0
U. Northern Iowa	545	227	256	215	306	201	104	1	0	0
Morehead State U.	546	362	276	697	299	38	211	0	50	0
Fort Lewis C.	547	ne	ne	640	297	0	231	11	23	32
Macalester C.	547	378	290	343	297	0	297	0	0	0
Oberlin C.	549	297	447	971	295	0	285	10	0	0
Troy U.	550	ne	ne	ne	290	12	176	2	100	0
SUNY, Oswego	551	294	393	359	286	0	281	5	0	0
Lamar U.	552	288	381	685	285	0	55	36	0	194
Fairfield U.	553	1,375	1,015	146	279	0	230	49	0	0
Connecticut C.	554	955	663	348	275	0	275	0	0	0
Gettysburg C.	555	152	247	435	260	0	257	3	0	0
New Mexico Institute of Mining and Technology	555	56	226	395	260	0	260	0	0	0
U. Ana G. Mendez, Carolina	557	1,117	630	ne	258	0	258	0	0	0
C. Wooster	558	378	400	509	257	15	242	0	0	0
CUNY, Lehman C.	559	1,036	1,145	205	256	0	255	1	0	0
U. Puerto Rico, Humacao	560	ne	233	295	255	0	229	0	26	0
Merrimack C.	561	ne	480	ne	253	0	0	253	0	0
CUNY, Baruch C.	562	202	381	396	250	0	250	0	0	0
St. Olaf C.	563	423	372	288	249	48	90	81	30	0
California State U., Bakersfield	564	616	430	316	245	0	223	22	0	0

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Savannah State U.	565	450	581	320	234	0	22	152	0	60
New Mexico Highlands U.	566	299	154	ne	226	0	171	0	55	0
Rutgers, State U. New Jersey, Camden	567	32	0	32	225	0	225	0	0	0
U. Wisconsin-River Falls	568	175	199	ne	224	125	99	0	0	0
U. Michigan, Flint	569	259	226	213	222	0	32	190	0	0
U. North Carolina, general administration	569	463	128	311	222	75	0	0	73	74
U. San Diego	571	392	417	357	217	0	92	121	0	4
Stevens Institute of Technology	572	97	83	33	203	0	0	0	0	203
National Defense U.	573	0	0	0	200	0	200	0	0	0
Vassar C.	574	300	60	i 34	197	0	197	0	0	0
Stockton U.	575	ne	158	78	195	46	105	44	0	0
Roger Williams U.	576	189	198	314	189	6	177	0	0	6
Wheaton C., Wheaton	577	124	107	216	184	0	23	161	0	0
Kean U.	578	ne	ne	ne	183	0	63	120	0	0
Willamette U.	579	634	769	313	181	0	169	12	0	0
Salish Kootenai C.	580	116	94	213	172	95	0	0	77	0
U. Washington, Tacoma	581	120	331	597	164	0	1	0	163	0
U. South Florida, Sarasota-Manatee	582	162	133	186	162	0	115	47	0	0
Coastal Carolina U.	583	206	278	305	157	0	98	0	0	59
Colorado C.	584	319	220	307	156	0	121	0	35	0
Seattle U.	584	397	349	248	156	0	156	0	0	0
C. of Saint Benedict	586	191	159	157	i 149	i 0	i 116	i 14	i 0	i 19
California State U., Dominguez Hills	587	118	380	244	144	0	110	21	0	13
Seton Hall U.	588	850	724	810	138	0	138	0	0	0
Saint John's U., Collegeville	589	171	143	140	i 133	i 0	i 104	i 12	i 0	i 17
U. of Mary Washington	590	ne	55	100	132	0	132	0	0	0
Central Connecticut State U.	591	76	ne	112	131	0	131	0	0	0
SUNY, Geneseo	591	135	194	233	131	0	131	0	0	0
U. Wisconsin-Eau Claire	593	58	138	145	126	0	80	46	0	0
Morehouse C.	594	126	119	116	120	0	120	0	0	0
CUNY, Graduate Center	595	197	59	51	116	0	116	0	0	0
Norfolk State U.	596	194	53	108	114	0	114	0	0	0

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Citadel Military C. South Carolina	597	ne	ne	ne	109	0	75	34	0	0
Northwest Indian C.	598	ne	1,164	104	103	i 103	i 0	i 0	i 0	i 0
St. Bonaventure U.	599	ne	ne	ne	102	0	102	0	0	0
La Sierra U.	600	96	64	132	101	0	101	0	0	0
U. Hartford	600	136	10	38	101	0	0	101	0	0
Youngstown State U.	600	94	34	100	101	0	74	27	0	0
Albion C.	603	138	152	118	96	0	76	0	0	20
Mills C.	604	22	0	121	95	0	0	0	8	87
Lafayette C.	605	8	82	118	94	0	87	1	0	6
CUNY, John Jay C. of Criminal Justice	606	281	835	254	92	7	49	28	0	8
U. North Georgia	607	1	120	286	91	0	16	67	8	0
Monmouth U.	608	ne	ne	164	88	3	85	0	0	0
CUNY, system office	609	0	43	30	84	0	84	0	0	0
Hamilton C.	610	154	251	180	81	0	81	0	0	0
Bradley U.	611	93	111	92	78	0	78	0	0	0
Niagara U.	612	121	101	94	76	0	76	0	0	0
U. Minnesota, Morris	613	92	ne	53	72	0	59	0	13	0
Weber State U.	614	ne	ne	ne	71	0	54	0	0	17
Manhattan C.	615	ne	ne	91	66	0	56	0	0	10
New Jersey City U.	616	394	805	675	65	0	65	0	0	0
Union C., Schenectady	617	62	53	80	60	0	45	0	0	15
Kettering U.	618	32	19	26	53	0	53	0	0	0
Alfred U.	619	20	18	108	52	52	0	0	0	0
Dakota State U.	620	13	10	7	48	0	48	0	0	0
U. Houston-Downtown	621	135	75	38	46	0	46	0	0	0
Benedict C.	622	136	146	158	45	0	24	0	21	0
Jacksonville State U.	623	166	i 192	114	44	0	44	0	0	0
U. New Haven	624	95	182	91	40	0	35	5	0	0
Alaska Pacific U.	625	54	115	221	38	38	0	0	0	0
Columbus State U.	625	ne	ne	ne	38	0	38	0	0	0
Florida Polytechnic U.	627	ne	ne	50	34	0	34	0	0	0
Suffolk U.	628	91	i ne	ne	29	0	29	0	0	0

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Pennsylvania State U., Behrend	629	139	120	124	21	0	21	0	0	0
Embry-Riddle Aeronautical U.	630	24	0	92	17	0	0	0	0	17
Andrews U.	631	ne	ne	35	15	0	3	0	0	12
La Salle U.	632	ne	ne	ne	14	0	0	14	0	0
U. Illinois, Springfield	633	20	28	8	5	0	1	0	4	0
All other surveyed institutions	-	594,964	624,976	68,872	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 \$39,817 thousand in total R&D expenditures in life sciences in FY 2020. 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 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.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2020 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.