

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2019 R&D expenditures: FYs 2010–19

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
All institutions	-	58,387,551	61,988,017	62,198,981	63,354,376	63,766,026	64,935,406	67,610,098	70,838,968	74,377,452	78,633,276
Johns Hopkins U. ^a	1	1,997,252	2,135,547	2,092,999	2,149,770	2,227,536	2,299,057	2,425,199	2,556,641	2,656,152	2,913,280
U. California, San Francisco	2	935,509	995,226	1,032,673	1,042,841	1,084,031	1,126,620	1,294,261	1,409,398	1,595,732	1,595,098
U. Michigan, Ann Arbor	3	1,128,686	1,212,990	1,247,680	1,304,074	1,279,603	1,300,340	1,357,228	1,434,535	1,493,353	1,571,320
U. Pennsylvania	4	793,523	851,522	813,210	790,265	792,314	828,649	1,140,833	1,247,686	1,304,291	1,368,837
U. Washington, Seattle	5	995,036	1,112,526	1,065,414	1,111,508	1,091,135	1,101,078	1,197,773	1,270,642	1,342,509	1,347,667
U. California, San Diego	6	937,982	1,003,584	1,065,306	1,066,979	1,060,207	1,093,784	1,079,429	1,126,269	1,256,171	1,344,185
U. California, Los Angeles	7	899,677	942,450	969,682	934,135	920,183	992,009	1,002,013	1,037,780	1,242,619	1,249,535
Duke U.	8	980,514	1,018,241	1,004,759	987,393	1,031,404	1,029,193	1,044,046	1,113,921	1,153,947	1,212,928
U. Wisconsin-Madison	9	940,286	1,022,723	1,030,605	997,523	984,830	938,366	1,051,311	1,105,261	1,113,968	1,209,224
Stanford U.	10	810,300	868,393	854,580	900,547	912,244	969,643	1,012,351	1,055,418	1,106,314	1,158,689
Harvard U.	11	561,703	623,116	753,973	910,569	875,964	955,246	1,011,950	1,032,590	1,066,612	1,129,158
U. North Carolina, Chapel Hill	12	746,828	846,499	864,748	942,467	955,601	939,252	1,013,128	1,061,535	1,094,063	1,113,654
Cornell U.	13	747,199	779,809	799,794	841,224	874,727	946,419	956,184	963,166	1,033,740	1,103,810
U. Pittsburgh, Pittsburgh	14	806,014	880,425	839,793	846,556	835,838	852,333	880,508	930,198	995,762	1,068,746
Yale U.	15	621,125	654,259	654,824	787,609	764,002	792,953	865,970	930,569	972,856	1,056,640
U. Maryland ^b	16	na	na	na	na	na	na	na	na	na	1,047,276
U. Minnesota, Twin Cities	17	764,916	824,489	806,832	834,181	850,880	844,016	872,514	881,286	915,798	970,212
U. Texas M. D. Anderson Cancer Center	18	599,529	663,279	685,814	718,096	794,980	833,406	852,095	888,029	929,710	969,496
Columbia U. in the City of New York	19	770,888	841,173	847,809	845,847	844,766	826,010	793,710	848,733	908,771	965,696
Massachusetts Institute of Technology	20	646,222	693,714	770,367	833,884	815,008	858,917	880,111	878,964	893,508	940,079
Georgia Institute of Technology	21	611,226	650,588	683,894	726,377	720,248	757,116	780,118	785,603	859,009	931,076
Pennsylvania State U., University Park and Hershey Medical Center	22	762,041	776,945	783,894	825,011	785,705	774,384	809,985	826,683	885,661	924,031
Texas A&M U., College Station and Health Science Center	23	666,516	682,553	669,968	796,101	826,152	836,250	859,952	869,100	882,191	911,375
U. Florida	24	636,607	686,048	649,988	642,502	652,341	699,750	741,945	766,469	831,362	880,771
Ohio State U.	25	719,574	794,023	720,082	743,321	752,836	745,238	751,293	804,699	818,428	876,402
U. Southern California	26	574,366	579,717	593,003	610,382	650,506	650,457	662,029	725,528	854,673	869,142
Washington U., Saint Louis	27	693,749	707,404	689,035	665,484	646,756	680,150	726,622	740,005	797,267	866,478
New York U.	28	343,762	402,327	425,043	435,095	490,614	505,071	751,393	822,329	801,961	845,249
Northwestern U.	29	554,228	595,202	602,451	612,009	621,504	627,320	684,767	724,060	776,458	827,607
U. California, Davis	30	669,282	698,193	704,999	715,870	699,689	706,087	726,070	726,469	774,775	791,184
Emory U.	31	498,309	479,678	474,537	493,734	551,556	574,472	597,971	646,146	693,172	773,843

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2019 R&D expenditures: FYs 2010–19

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
U. California, Berkeley	32	659,572	670,926	696,904	690,299	708,485	748,139	734,486	724,817	747,690	751,584
Vanderbilt U. and Vanderbilt U. Medical Center	33	478,345	534,806	533,878	548,086	659,418	619,866	612,351	681,286	702,128	730,378
Icahn School of Medicine at Mount Sinai	34	370,666	405,527	400,680	428,654	463,429	508,353	540,296	575,448	640,141	722,241
U. Arizona	35	577,958	597,988	615,434	616,487	575,864	592,874	592,412	609,965	672,038	715,290
Michigan State U.	36	399,358	423,766	471,620	479,145	492,501	519,994	573,204	653,611	673,959	682,018
Baylor C. of Medicine	37	447,874	466,061	474,700	508,799	496,314	520,220	572,527	604,952	623,396	651,920
U. Illinois, Urbana-Champaign	38	493,386	522,769	558,022	721,587	598,531	614,011	587,264	602,641	609,984	640,880
Indiana U., Bloomington	39	156,996	160,038	151,240	173,464	172,380	451,508	471,055	507,553	534,811	630,449
Rutgers, State U. New Jersey, New Brunswick	40	407,170	415,502	420,737	474,192	627,076	607,257	610,648	633,789	666,368	621,194
U. Texas, Austin	41	531,412	558,377	549,312	572,959	526,173	551,654	565,708	598,597	617,567	619,929
Purdue U., West Lafayette	42	477,145	520,001	528,140	528,564	502,457	498,887	517,879	533,598	535,826	598,411
U. Alabama, Birmingham	43	483,862	497,680	449,108	434,882	421,475	509,586	531,492	553,651	575,060	595,361
Arizona State U.	44	296,458	323,567	344,611	367,277	380,581	403,708	441,411	484,315	559,391	572,588
U. Utah	45	375,420	410,392	425,558	486,245	476,017	509,409	322,670	318,956	534,208	548,714
U. Virginia, Charlottesville	46	271,843	377,757	363,569	366,103	337,732	339,813	367,926	431,793	490,902	547,179
U. Colorado Denver and Anschutz Medical Campus	47	376,917	407,517	422,844	400,815	401,230	400,515	432,693	472,859	517,749	535,819
Virginia Polytechnic Institute and State U.	48	393,888	445,302	448,054	487,121	502,486	495,502	512,333	511,340	520,575	532,154
North Carolina State U.	49	357,802	374,446	400,046	413,524	440,392	462,347	479,039	488,974	497,851	523,124
U. Cincinnati	50	393,518	419,456	408,294	414,738	399,571	408,412	401,701	427,236	464,289	513,397
Boston U.	51	344,687	348,593	330,247	359,312	353,850	372,267	379,117	398,754	435,864	508,813
U. Texas Southwestern Medical Center	52	419,220	431,883	435,085	440,620	434,627	438,824	442,666	461,797	474,260	496,697
U. Colorado Boulder	53	335,983	372,034	373,512	369,663	362,882	403,654	433,850	474,496	488,883	486,073
U. Iowa	54	435,118	433,088	432,980	423,097	436,852	423,528	447,718	466,462	484,253	483,809
U. Chicago	55	432,943	446,512	411,864	389,900	378,322	402,777	402,491	419,996	412,791	448,263
Case Western Reserve U.	56	417,805	428,206	430,246	422,041	417,436	400,167	403,827	406,196	430,379	435,852
Scripps Research Institute	57	387,298	400,768	398,673	399,899	386,231	384,161	364,670	354,582	396,839	427,734
U. California, Irvine	58	311,105	328,870	335,874	329,500	322,315	313,798	325,582	339,309	399,295	422,781
Uniformed Services U. of the Health Sciences	59	134,126	175,365	143,250	164,232	262,489	361,173	256,203	298,370	308,326	417,300
Oregon Health and Science U.	60	314,990	334,324	305,360	307,134	313,112	325,268	329,414	346,710	372,148	415,629
U. Georgia	61	274,380	300,388	311,498	308,486	313,445	330,273	360,520	403,575	390,773	414,909
U. Kentucky	62	350,857	364,175	354,132	332,366	322,313	325,558	340,295	367,934	382,973	398,384

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2019 R&D expenditures: FYs 2010–19

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
SUNY, U. Buffalo	63	337,976	337,783	340,930	371,387	370,083	367,133	373,308	386,386	393,241	394,279
U. Rochester	64	412,704	428,144	388,401	382,399	347,161	344,921	344,489	351,924	369,072	392,275
Colorado State U., Fort Collins	65	291,621	321,130	335,336	303,461	300,572	308,785	323,068	328,221	356,951	382,252
California Institute of Technology	66	359,245	374,636	374,075	333,548	358,137	350,833	356,204	380,711	363,007	375,558
Princeton U.	67	231,862	255,483	264,980	264,998	287,730	272,379	285,733	321,953	351,297	370,700
U. Illinois, Chicago	68	355,581	373,750	381,918	358,797	339,644	344,619	314,365	352,200	343,254	365,409
U. Miami	69	278,664	321,830	361,772	338,568	342,852	328,082	355,690	365,310	355,132	358,621
SUNY, Polytechnic Institute	70	na	na	na	na	412,851	295,313	316,680	308,843	257,316	352,788
Rockefeller U.	71	265,750	272,491	292,896	298,474	316,368	323,932	335,136	348,845	353,142	351,089
Carnegie Mellon U.	72	221,376	240,956	254,992	270,898	250,497	241,829	304,383	313,145	318,218	346,356
Iowa State U.	73	243,890	261,016	252,675	259,320	297,293	295,635	316,822	310,100	343,890	342,498
U. South Florida, Tampa	74	330,528	343,366	394,694	410,092	436,578	420,002	447,812	502,216	334,944	330,968
Washington State U.	75	285,120	299,905	288,693	273,037	287,942	306,989	307,431	310,607	314,688	319,147
Dartmouth C. and Dartmouth Hitchcock Medical Center	76	193,608	210,274	195,251	198,995	204,360	203,660	224,497	277,638	287,951	303,965
Albert Einstein C. of Medicine	77	na	na	na	na	na	na	289,660	289,685	297,328	298,824
Medical U. South Carolina	78	224,632	213,346	236,586	245,451	242,594	243,534	260,098	262,267	282,253	295,600
Louisiana State U., Baton Rouge	79	280,432	281,221	279,019	276,748	282,462	274,001	282,574	258,402	278,075	287,203
U. Nebraska, Lincoln	80	211,385	220,141	238,472	245,171	254,877	260,152	264,485	270,749	275,161	284,544
U. Oklahoma, Norman and Health Science Center	81	201,187	223,828	217,177	220,916	227,104	227,568	240,239	250,627	262,863	283,375
U. Kansas	82	251,992	248,076	256,310	267,050	251,186	257,766	241,656	251,140	269,494	282,642
U. Massachusetts, Medical School	83	232,039	262,714	256,090	245,923	241,869	250,338	253,099	279,884	274,211	281,507
Utah State U.	84	147,612	172,563	155,305	156,774	167,256	173,848	178,830	184,746	215,994	280,476
U. Hawaii, Manoa	85	303,085	318,316	312,311	326,402	319,818	313,046	300,864	288,294	272,971	277,704
U. Connecticut	86	230,387	247,252	250,468	236,126	247,379	251,621	257,958	257,176	256,826	273,034
U. Texas Health Science Center, Houston	87	240,772	261,172	236,250	233,256	233,737	234,299	237,016	246,060	258,411	271,525
Temple U.	88	115,543	122,663	126,288	207,190	206,556	210,371	232,379	249,156	253,548	263,217
U. Missouri, Columbia	89	133,120	130,269	234,975	232,760	233,613	243,430	238,605	242,967	245,600	262,763
Oregon State U.	90	215,400	227,752	239,571	231,342	229,456	242,874	252,541	260,893	266,684	257,935
Florida State U.	91	208,834	216,869	208,005	224,425	231,390	237,427	243,327	247,319	260,486	257,656
SUNY, Stony Brook U.	92	201,846	206,207	218,209	224,030	210,301	219,485	227,942	235,430	240,949	257,048
Mississippi State U.	93	223,032	217,793	222,320	197,359	200,251	216,817	229,939	233,024	235,581	255,674
George Washington U.	94	189,113	189,427	187,652	192,152	213,334	226,132	214,984	226,005	242,029	249,198
Brown U.	95	201,116	223,455	234,906	222,945	291,917	286,332	235,373	201,253	233,689	245,883
Medical C. Wisconsin	96	191,816	215,358	209,040	201,237	199,713	199,283	199,925	209,618	229,436	244,752

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2019 R&D expenditures: FYs 2010–19

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Wake Forest U.	97	192,034	208,460	203,730	182,721	176,380	171,538	169,533	181,876	190,991	236,494
Wayne State U.	98	248,753	252,620	221,666	217,984	213,253	207,830	214,306	220,199	230,231	235,072
U. New Mexico	99	207,906	217,206	216,218	220,840	221,817	224,321	227,591	236,623	245,400	233,310
Virginia Commonwealth U.	100	176,422	185,566	179,310	175,880	177,540	196,412	202,150	210,827	222,757	230,882
U. California, Santa Barbara	101	217,952	217,877	222,916	225,976	225,614	213,537	219,907	225,767	223,349	230,097
Woods Hole Oceanographic Institution	102	181,746	198,775	204,352	198,232	220,016	216,592	212,374	194,088	204,400	229,143
U. Tennessee, Knoxville	103	133,877	151,814	165,708	175,264	170,471	166,591	177,240	199,356	233,705	221,726
U. Notre Dame	104	104,288	121,466	143,328	156,234	160,461	171,148	175,187	184,061	190,469	211,694
Georgetown U.	105	155,538	164,301	171,829	170,503	162,983	157,308	162,734	187,948	192,160	210,896
U. Massachusetts, Amherst	106	164,850	176,545	178,207	172,217	183,210	197,183	193,863	194,030	193,495	203,885
Kansas State U.	107	154,888	163,494	169,863	177,525	178,304	180,082	181,933	183,513	201,866	202,244
U. Delaware	108	147,204	160,503	161,327	170,470	169,641	167,904	169,384	176,455	179,560	200,935
Auburn U., Auburn	109	143,874	161,785	130,222	143,545	140,110	132,970	149,411	167,352	184,650	199,851
Tufts U.	110	153,113	154,760	159,140	154,694	156,411	162,510	181,011	216,895	197,478	196,559
U. Nebraska, Medical Center	111	138,219	133,036	141,619	137,485	139,126	145,009	150,694	171,491	177,245	194,455
Florida International U.	112	92,250	97,804	83,639	92,463	107,487	124,631	133,831	146,431	165,748	191,754
U. Texas Health Science Center, San Antonio	113	207,115	198,655	184,298	175,983	172,716	170,277	194,885	169,200	179,219	188,483
U. Central Florida	114	108,662	97,309	102,562	108,560	143,063	169,770	166,000	168,630	176,094	185,873
Tulane U.	115	151,686	154,530	154,196	151,314	148,784	140,118	153,298	167,338	179,813	182,444
West Virginia U.	116	146,944	159,206	161,961	159,865	156,946	160,560	164,501	175,403	176,082	178,575
Rice U.	117	97,288	109,197	115,235	128,621	136,419	141,935	151,855	163,312	157,352	177,126
U. Texas Medical Branch	118	188,399	193,555	180,888	180,198	178,014	173,506	179,541	185,106	181,831	175,372
Northeastern U.	119	74,998	81,230	102,911	111,134	111,779	115,664	121,574	134,827	156,546	174,485
U. California, Riverside	120	121,541	125,902	129,609	126,916	128,506	136,493	147,268	159,305	162,054	172,146
Thomas Jefferson U.	121	103,064	104,923	100,506	89,273	118,378	119,631	122,396	142,569	148,573	170,458
U. Houston	122	106,646	98,231	105,844	112,469	122,163	125,973	142,081	149,795	158,543	168,909
Clemson U.	123	144,562	135,681	110,493	116,138	116,871	120,858	133,342	144,728	160,361	165,227
George Mason U.	124	77,966	80,284	79,913	82,849	85,493	89,845	92,649	98,488	125,416	164,053
U. Dayton	125	91,943	89,037	79,877	82,349	83,409	93,319	111,363	127,207	143,636	163,924
U. Louisville	126	162,447	166,918	165,319	160,338	163,199	154,598	164,371	168,906	168,433	161,722
SUNY, U. Albany	127	356,517	146,987	135,673	135,879	129,434	110,284	105,605	140,392	151,303	161,613
U. Arkansas for Medical Sciences	128	119,518	122,066	129,056	133,677	131,438	132,451	125,378	128,508	139,187	153,135
Oklahoma State U., Stillwater	129	147,094	162,786	166,523	134,500	126,543	126,607	150,167	152,605	154,418	150,021
U. Arkansas, Fayetteville	130	104,336	110,310	111,502	112,296	111,703	120,679	132,648	135,925	146,029	148,960
Texas Tech U.	131	106,220	114,648	105,147	114,506	125,126	128,554	132,766	144,898	139,500	147,317

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2019 R&D expenditures: FYs 2010–19

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
North Dakota State U.	132	125,294	132,717	133,874	144,069	148,352	148,934	152,106	149,230	140,507	145,723
U. Alaska, Fairbanks	133	127,808	126,691	121,640	118,907	152,352	139,605	141,976	150,064	138,989	142,307
Drexel U.	134	115,458	109,729	112,390	118,754	124,464	122,366	120,789	132,507	148,107	140,907
Montana State U., Bozeman	135	124,227	114,244	113,235	103,144	104,646	98,467	102,179	118,221	114,496	140,359
U. California, Santa Cruz	136	136,964	149,702	149,824	145,092	147,536	147,518	146,237	119,990	123,221	138,455
U. New Hampshire	137	103,801	128,348	152,276	134,535	130,951	130,700	136,006	133,592	133,378	137,626
U. Mississippi	138	100,712	113,281	109,897	98,354	97,286	89,707	102,660	114,674	117,390	137,475
New Jersey Institute of Technology	139	81,240	89,250	91,407	97,088	94,371	96,386	95,235	101,334	124,565	136,801
U. Nevada, Reno	140	94,420	86,372	83,137	85,085	81,028	83,385	90,673	99,156	127,049	136,707
U. South Carolina, Columbia	141	218,771	196,820	186,559	178,800	181,363	181,742	183,478	180,127	145,739	136,433
U. Vermont	142	129,612	132,107	115,569	115,055	109,343	114,090	115,230	117,433	128,179	135,673
U. Louisiana, Lafayette	143	57,333	56,313	51,873	52,089	59,068	55,250	58,984	78,780	102,812	131,601
Cold Spring Harbor Laboratory	144	ne	89,913	84,072	78,236	76,733	84,653	88,943	97,288	115,870	126,773
Georgia State U.	145	61,971	54,221	62,188	79,235	80,955	79,813	103,731	133,242	133,302	126,225
U. Maine	146	106,238	111,129	91,673	77,169	100,493	78,608	78,576	98,748	105,810	121,621
Wichita State U.	147	51,068	51,862	50,108	52,831	53,614	49,902	53,092	65,491	66,916	113,618
U. Texas, Dallas	148	75,236	89,767	83,124	93,582	94,961	92,374	99,328	105,140	100,950	113,560
U. Rhode Island	149	84,523	101,202	97,845	94,381	84,393	86,139	90,562	95,197	98,271	107,429
U. Idaho	150	85,475	94,345	95,327	93,941	92,512	95,459	99,354	105,475	105,578	107,351
U. Alabama, Huntsville	151	73,266	72,988	83,076	96,932	85,994	84,745	91,549	89,392	94,519	104,824
U. North Dakota	152	76,262	74,636	79,792	68,636	67,199	63,590	69,145	91,958	100,061	100,841
U. Texas, Arlington	153	62,410	60,003	64,684	72,571	74,261	74,702	82,355	82,065	87,257	100,213
New Mexico State U.	154	146,364	137,301	135,214	136,254	129,124	127,000	103,871	99,975	93,993	100,033
Rensselaer Polytechnic Institute	155	83,601	84,346	92,348	92,365	104,844	102,122	93,907	96,533	94,221	99,326
U. Tennessee, Health Science Center	156	81,900	81,216	77,749	71,897	67,841	65,771	71,547	73,393	79,460	96,979
Augusta U.	157	na	na	na	64,033	64,116	67,736	71,338	99,637	99,043	96,396
Rush U.	158	73,398	79,212	80,300	81,770	80,551	79,048	73,351	74,062	89,101	96,267
U. Montana, Missoula	159	62,814	59,617	58,735	59,809	54,808	60,282	69,994	84,109	86,096	96,246
SUNY, Binghamton U.	160	66,512	65,816	73,098	67,892	63,960	70,367	75,332	88,735	105,017	93,446
U. Texas, El Paso	161	64,134	67,576	72,033	73,005	70,475	77,515	80,981	83,892	80,824	92,205
Syracuse U.	162	76,808	56,598	56,192	48,195	48,034	49,384	53,864	78,329	78,642	83,679
U. Oregon	163	83,545	87,161	87,656	78,654	77,655	65,226	68,631	72,517	83,132	82,231
U. Wyoming	164	53,957	55,320	63,812	63,149	48,736	54,928	108,552	121,927	112,857	79,928
U. Maryland, Baltimore County	165	81,894	83,155	65,628	62,887	64,329	67,944	69,404	69,926	70,358	76,918
Michigan Technological U.	166	60,183	66,812	67,977	66,192	64,791	66,135	68,863	68,681	75,194	76,853

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2019 R&D expenditures: FYs 2010–19

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
U. Massachusetts, Lowell	167	55,120	55,257	53,980	51,465	52,595	57,435	58,437	60,735	65,060	76,770
U. Texas, San Antonio	168	51,480	50,496	48,700	48,599	42,318	50,012	49,383	64,143	66,192	75,719
San Diego State U.	169	95,064	91,789	75,670	69,338	77,474	76,131	74,504	70,862	69,858	74,733
Cleveland State U.	170	33,857	55,044	60,481	67,137	61,291	56,683	i 70,665	77,518	77,203	73,854
U. Nevada, Las Vegas	171	42,202	37,711	33,130	34,299	38,229	39,564	49,405	53,073	62,711	73,777
U. Tennessee, Knoxville, Institute of Agriculture	172	59,212	i 62,786	68,480	67,887	67,171	67,059	69,136	70,192	70,246	71,351
U. Alabama, Tuscaloosa	173	39,992	52,601	52,021	49,728	47,920	51,555	53,395	52,151	59,911	68,032
U. California, Office of the President	174	72,542	63,420	65,627	67,447	50,103	48,233	39,051	46,399	55,676	67,702
Colorado School of Mines	175	43,403	45,816	55,925	57,778	58,498	57,425	59,576	58,175	58,288	67,310
South Dakota State U.	176	67,269	69,646	68,554	63,751	58,199	57,433	60,582	63,328	63,287	66,462
U. Southern Mississippi	177	41,480	45,207	54,151	44,912	45,127	41,432	47,195	49,769	49,785	65,249
Wright State U.	178	48,396	47,795	45,901	49,760	54,456	53,881	55,241	59,263	67,615	63,779
Saint Louis U.	179	46,589	52,134	48,303	47,174	42,316	40,831	40,426	53,643	55,913	61,907
Van Andel Research Institute	180	ne	ne	ne	ne	ne	40,502	i 40,040	i 44,578	i 55,171	61,738
Naval Postgraduate School	181	96,067	95,153	124,531	89,616	91,400	74,293	54,558	52,404	52,551	60,522
Old Dominion U.	182	76,710	80,696	79,305	76,187	52,832	48,418	53,097	54,635	51,747	59,858
Indiana U.-Purdue U., Indianapolis	183	290,490	314,004	308,101	325,562	316,650	51,479	52,050	51,783	54,270	58,150
Northern Arizona U.	184	27,281	28,581	27,078	30,134	30,903	34,731	38,800	45,572	52,105	57,763
Brandeis U.	185	67,672	71,638	69,489	69,398	67,048	i 68,690	i 56,871	62,745	i 56,750	56,738
William & Mary	186	51,453	48,835	46,547	48,183	49,428	52,642	54,491	54,197	54,508	55,687
U. Maryland Center for Environmental Science	187	42,670	50,007	48,224	53,683	50,814	49,341	52,861	54,491	53,398	55,121
U. North Texas, Denton	188	22,762	34,421	40,796	43,342	39,453	38,001	30,858	35,443	37,731	54,523
U. Toledo	189	66,839	70,164	63,348	63,119	56,710	48,391	45,687	46,697	48,184	52,655
U. South Alabama	190	30,012	36,975	34,194	34,737	33,994	38,245	42,466	40,629	40,519	51,968
CUNY, City C.	191	45,050	56,734	56,618	54,316	52,072	51,905	61,354	53,738	53,132	51,305
U. Wisconsin-Milwaukee	192	58,417	56,845	52,271	47,568	51,316	55,883	50,661	48,017	53,585	50,950
U. North Texas, Health Science Center	193	38,862	45,943	46,865	44,904	47,002	46,335	50,567	48,476	49,503	50,124
Rochester Institute of Technology	194	33,537	29,709	31,893	32,199	31,471	36,030	39,952	45,563	43,679	49,949
East Carolina U.	195	23,370	25,727	29,468	36,425	29,169	26,248	25,251	25,551	36,066	47,612
U. Memphis	196	40,589	39,315	41,841	39,306	44,351	37,539	40,374	41,192	50,819	47,225
Florida Atlantic U.	197	41,896	47,027	46,782	22,594	21,760	19,718	25,158	42,918	44,634	46,399
Ohio U.	198	44,428	43,399	42,798	44,746	58,238	i 57,786	i 55,828	i 57,321	i 49,518	i 45,581
U. Puerto Rico, Medical Sciences Campus	199	39,134	64,017	45,649	43,374	40,444	43,316	46,232	42,423	41,216	45,014

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2019 R&D expenditures: FYs 2010–19

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Boston C.	200	36,960	30,446	30,436	30,700	28,326	26,123	40,724	43,825	42,801	44,768
Mercer U.	201	26,862	28,998	31,352	28,876	30,162	32,771	31,653	29,366	34,098	44,037
Howard U.	202	38,626	41,471	44,587	41,351	38,366	45,764	40,412	44,613	44,592	43,227
Texas Tech U., Health Sciences Center	203	51,282	58,774	61,219	61,309	36,932	39,261	38,717	38,657	36,784	42,959
U. Texas Rio Grande Valley	204	na	na	na	na	na	na	27,400	28,547	25,623	42,714
U. North Carolina, Charlotte	205	28,216	24,323	22,504	21,744	20,646	21,836	23,610	24,190	34,870	42,697
U. California, Merced	206	20,730	20,307	21,826	21,730	22,612	28,278	27,185	32,448	35,753	42,611
Southern Illinois U., Carbondale	207	69,924	71,130	71,097	70,854	65,256	57,509	53,172	48,416	49,636	41,729
Missouri U. of Science and Technology	208	37,259	36,325	33,797	35,400	38,509	35,144	35,531	37,958	42,657	41,700
Louisiana State U., Health Sciences Center, New Orleans	209	59,776	57,007	53,712	49,443	45,486	46,840	43,067	40,785	38,989	40,914
San Jose State U.	210	32,947	34,075	29,554	32,100	36,354	39,833	38,326	36,594	38,252	39,818
American U.	211	16,809	18,212	18,404	23,794	38,038	25,350	28,170	26,551	31,906	39,531
U. Massachusetts, Boston	212	39,387	31,864	28,869	29,875	30,021	30,305	35,220	37,929	33,865	38,998
Portland State U.	213	40,203	41,692	40,939	38,785	39,134	36,355	38,717	36,595	36,526	38,726
SUNY, Upstate Medical U.	214	43,824	39,988	35,897	34,286	33,460	32,453	31,892	35,551	36,674	38,091
Worcester Polytechnic Institute	215	17,154	20,647	18,558	23,780	26,544	33,910	34,921	31,662	31,477	37,822
Loyola U., Chicago	216	42,120	40,994	44,785	50,150	48,996	47,000	41,152	38,070	37,049	37,210
Florida A&M U.	217	30,282	33,719	31,375	33,538	29,895	31,676	32,856	33,024	34,437	36,605
SUNY, Downstate Medical Center	218	32,512	41,993	43,257	39,354	33,331	28,652	33,735	31,873	34,661	36,015
Boise State U.	219	18,045	23,519	26,885	24,027	25,351	29,955	30,384	32,279	37,959	35,528
Stevens Institute of Technology	220	32,230	39,973	29,893	26,788	28,917	33,042	34,413	34,018	31,565	35,477
Texas State U.	221	19,496	19,243	24,285	26,671	25,910	29,934	30,064	28,479	29,444	35,440
Lehigh U.	222	34,897	29,639	28,949	31,003	32,860	33,693	30,375	33,752	35,849	35,414
U.S. Air Force Academy	223	54,509	70,285	43,512	49,471	41,539	35,157	50,659	40,635	33,467	34,940
Illinois Institute of Technology	224	34,348	40,199	32,148	36,426	30,938	33,810	29,430	32,362	32,566	34,220
Air Force Institute of Technology	225	28,318	30,090	30,609	26,234	23,335	26,323	29,722	35,703	33,360	34,016
North Carolina Agricultural and Technical State U.	226	35,216	34,725	33,963	33,251	34,160	34,514	31,782	35,285	34,714	33,297
Brigham Young U., Provo	227	27,766	29,980	26,499	30,076	30,797	31,849	35,512	36,791	34,276	33,275
Kent State U.	228	24,616	24,388	23,353	19,962	21,785	25,917	21,951	27,413	26,703	32,867
CUNY, Hunter C.	229	35,751	35,645	36,085	36,741	35,702	33,483	33,508	26,496	29,752	32,773
Morehouse School of Medicine	230	30,669	33,946	37,586	36,638	41,858	33,367	38,774	35,454	33,215	31,289
California Polytechnic State U., San Luis Obispo	231	19,148	15,489	15,939	15,098	14,648	15,666	17,559	17,304	15,860	30,628
San Francisco State U.	232	24,959	25,772	29,447	31,948	28,710	26,178	25,149	26,712	27,841	29,667

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2019 R&D expenditures: FYs 2010–19

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Texas A&M U.-Corpus Christi	233	15,034	15,146	13,626	15,161	19,058	22,985	21,911	25,644	28,077	29,296
U. Akron	234	47,558	52,881	59,765	62,331	64,270	54,089	57,351	39,566	31,789	29,090
SUNY, C. of Environmental Science and Forestry	235	26,916	25,007	23,117	21,225	19,013	22,036	24,221	27,755	26,559	28,979
Marquette U.	236	13,124	16,525	15,208	16,257	17,267	19,985	21,968	23,692	24,623	28,856
U. South Dakota	237	27,511	25,321	27,060	30,364	27,367	21,671	22,543	24,830	27,168	28,456
Southern Methodist U.	238	16,121	22,008	20,917	17,972	24,443	20,538	22,729	21,128	21,505	27,503
Eastern Virginia Medical School	239	44,420	36,569	37,745	44,183	43,917	42,296	32,550	28,671	30,010	27,064
Desert Research Institute	240	34,367	35,331	33,056	27,695	23,778	22,103	29,422	29,440	27,875	26,991
U. Minnesota, Duluth	241	20,237	22,301	20,863	20,818	21,122	26,958	26,949	24,452	24,693	26,859
U. Massachusetts, Dartmouth	242	24,312	23,708	21,556	25,559	25,879	23,875	24,363	24,336	24,536	26,554
Baylor U.	243	8,452	10,277	8,184	11,877	17,877	20,721	22,237	25,052	25,289	26,291
Louisiana State U., Health Sciences Center, Shreveport	244	30,817	31,021	29,365	28,266	25,004	24,069	23,353	22,560	24,463	26,262
U. Puerto Rico, Mayaguez	245	25,536	33,509	31,143	28,041	25,920	26,986	24,908	25,328	23,764	26,092
U. Missouri, Kansas City	246	24,461	27,000	23,902	23,521	26,452	24,097	23,955	22,806	22,857	24,865
New Mexico Institute of Mining and Technology	247	51,696	43,857	37,875	32,442	48,260	26,222	19,238	20,404	21,260	24,523
Loma Linda U.	248	32,915	37,169	29,762	29,799	23,120	25,417	22,956	21,846	22,922	24,408
Nova Southeastern U.	249	9,740	11,912	12,599	12,415	13,532	14,439	18,991	22,021	22,406	24,277
Teachers C., Columbia U.	250	15,149	17,459	19,829	18,538	19,457	22,359	22,868	23,189	23,261	24,234
Catholic U. of America	251	20,871	24,933	24,275	22,795	22,009	23,817	24,360	23,337	24,269	23,402
Albany Medical C.	252	22,953	20,876	17,735	15,093	16,093	18,043	20,166	20,443	21,187	23,028
Delaware State U.	253	14,723	17,993	15,416	17,260	17,654	15,964	20,384	19,136	18,916	22,512
Creighton U.	254	25,432	28,907	29,911	27,709	24,073	22,228	21,843	22,310	18,896	22,278
Rowan U.	255	2,610	3,185	3,657	2,729	8,118	7,921	10,113	12,710	15,818	21,980
U. Denver	256	12,348	13,018	11,575	12,716	11,216	10,614	16,858	18,327	21,618	21,642
Rutgers, State U. New Jersey, Newark	257	25,953	31,714	31,287	29,110	23,235	19,913	18,412	21,586	23,190	21,291
U. Alaska, Anchorage	258	11,328	12,380	13,004	13,022	15,112	15,396	18,382	18,646	19,254	20,655
Tuskegee U.	259	14,258	14,321	13,188	17,094	24,066	20,704	16,508	16,508	13,402	20,562
California State U., Sacramento	260	11,673	13,822	12,056	12,444	11,783	16,585	17,705	17,647	18,017	20,279
Kennesaw State U.	261	1,401	1,374	1,738	2,100	1,881	1,316	6,279	7,728	8,006	20,195
Louisiana Tech U.	262	20,752	21,641	20,265	18,983	17,088	17,744	16,639	17,079	18,089	19,760
Texas A&M U.-Kingsville	263	14,213	14,572	14,824	15,308	18,371	18,170	18,849	19,360	18,443	19,537
New York Medical C.	264	28,400	27,316	23,277	20,243	17,908	17,653	17,311	15,637	8,141	19,398
Miami U.	265	14,561	14,795	21,151	17,875	16,035	14,904	14,111	15,482	17,120	19,280
California State U., Northridge	266	16,747	9,795	15,619	9,466	12,628	12,053	12,471	15,336	17,036	18,758

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2019 R&D expenditures: FYs 2010–19

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Northern Illinois U.	267	23,353	17,672	18,147	18,866	15,165	i 13,660	16,515	12,565	18,965	18,337
Meharry Medical C.	268	27,001	29,055	25,559	22,532	18,997	13,998	14,768	16,782	16,980	18,286
Villanova U.	269	9,191	i 9,281	i 7,831	i 6,931	i 11,645	12,208	12,934	15,189	16,376	18,225
U. Tulsa	270	22,690	18,703	19,895	21,186	26,460	24,135	21,347	20,567	19,797	18,180
Jackson State U.	271	38,114	39,867	38,027	32,119	24,132	22,163	22,408	21,272	18,972	18,057
U. Puerto Rico, Rio Piedras	272	27,780	30,139	31,877	26,755	26,656	26,544	22,610	17,600	13,889	18,019
Northeast Ohio Medical U.	273	10,819	13,581	13,358	12,722	15,916	17,103	18,823	19,216	18,218	18,007
Marshall U.	274	24,398	26,268	18,998	19,607	20,154	19,835	18,777	16,423	18,043	17,823
U. Nebraska, central administration	275	ne	ne	ne	ne	ne	ne	ne	ne	12,713	17,697
CUNY, Queens C.	276	16,233	22,831	22,067	18,601	22,053	18,332	18,538	15,522	15,969	17,643
California State U., Long Beach	277	14,762	14,006	i 13,250	i 12,494	9,746	8,108	14,175	16,993	18,408	17,459
Oakland U.	278	11,796	14,725	15,439	14,033	12,515	15,015	14,083	12,757	11,961	17,226
Florida Institute of Technology	279	11,427	9,749	9,187	9,195	10,564	i 11,201	15,196	18,040	16,343	16,847
U. Texas Health Science Center, Tyler	280	ne	ne	ne	ne	ne	12,191	11,799	16,292	15,451	i 16,538
U. North Carolina, Greensboro	281	12,818	16,230	12,590	12,629	15,735	16,673	16,129	14,416	14,374	16,500
Clarkson U.	282	18,289	17,772	14,787	12,009	13,642	13,194	12,799	14,180	15,780	16,211
Rosalind Franklin U. of Medicine and Science	283	12,426	14,261	15,587	17,401	17,794	16,604	16,760	17,006	16,765	16,126
U. North Carolina, Wilmington	284	20,618	19,961	17,015	15,490	12,212	13,166	13,597	14,000	15,058	16,039
Central Michigan U.	285	3,229	5,865	8,190	9,996	11,506	9,725	10,304	11,521	13,406	15,607
Prairie View A&M U.	286	12,557	15,226	14,523	13,174	12,248	12,932	12,511	13,455	14,766	15,538
Southern Illinois U., Edwardsville	287	30,958	33,318	25,608	24,594	17,215	18,248	17,243	15,559	16,914	15,513
Western Michigan U. and Homer Stryker M.D. School of Medicine	288	14,432	15,875	13,546	12,821	13,500	13,375	11,974	17,687	15,913	15,160
Humboldt State U.	289	7,505	9,520	9,464	7,999	8,242	11,173	16,084	15,914	14,983	14,891
Idaho State U.	290	19,234	21,047	20,764	21,476	19,962	17,540	20,305	18,398	17,659	14,560
Alcorn State U.	291	10,280	11,397	11,515	11,315	10,060	9,396	8,204	16,129	13,834	14,435
Tennessee State U.	292	11,253	11,961	14,108	15,149	19,437	19,208	18,324	16,247	16,355	14,376
East Tennessee State U.	293	9,185	9,496	10,657	8,506	6,954	6,173	7,680	9,146	13,694	i 13,903
Charles R. Drew U. of Medicine and Science	294	22,152	22,150	20,580	18,250	20,686	14,128	13,360	15,652	11,490	13,739
U.S. Naval Academy	295	11,093	10,543	9,156	10,476	10,661	9,609	11,364	13,524	14,057	13,481
North Carolina Central U.	296	6,870	9,043	10,573	8,190	10,158	10,971	10,539	11,689	11,299	13,352
Duquesne U.	297	12,078	13,603	12,858	12,385	13,019	13,767	14,211	14,396	14,121	13,176
Tennessee Technological U.	298	16,152	11,809	9,138	8,705	9,410	9,804	9,776	11,467	12,227	13,107

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2019 R&D expenditures: FYs 2010–19

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
South Dakota School of Mines and Technology	299	28,572	32,010	18,991	12,156	10,472	14,970	15,396	15,541	15,092	12,973
Hampton U.	300	14,455	12,292	15,290	12,620	11,153	14,767	13,572	15,908	13,669	12,943
Morgan State U.	301	12,768	12,544	17,470	14,942	15,337	13,406	15,353	14,527	12,727	12,791
Montana Technological U.	302	7,424	6,705	11,765	11,059	11,348	11,595	11,851	13,059	12,666	12,731
U. New Orleans	303	25,932	23,290	22,275	19,790	17,182	16,980	14,551	13,436	12,148	12,713
Chapman U.	304	2,135	2,098	2,396	2,734	3,189	3,074	5,023	8,568	9,895	12,498
California State U., San Bernardino	305	2,630	i 7,266	7,472	10,872	12,572	14,342	9,725	10,319	11,535	12,419
Embry-Riddle Aeronautical U.	306	12,189	10,705	14,225	11,575	14,741	11,528	16,409	13,133	16,601	12,307
U. Missouri, Saint Louis	307	10,050	12,344	12,840	13,156	14,632	9,991	10,876	10,411	10,708	12,254
U. West Florida	308	4,079	3,551	2,559	4,004	5,080	5,180	12,310	12,461	15,710	12,175
California State U., Los Angeles	309	7,178	8,682	6,876	7,192	4,881	4,461	4,860	8,031	9,487	12,169
U. Hawaii, system office	310	ne	ne	ne	ne	ne	ne	ne	ne	12,340	12,159
Alabama A&M U.	311	30,297	28,813	i 28,573	i 28,335	i 28,095	i 27,855	i 23,784	i 19,887	i 15,989	i 12,089
U. Guam	312	5,555	5,477	5,975	5,873	6,790	5,919	7,351	8,803	11,053	12,001
U. Nebraska, Omaha	313	6,783	7,903	7,536	7,966	7,640	6,688	9,093	10,637	10,987	11,775
U. of the Virgin Islands	314	31,272	21,373	i 24,543	i 18,374	i 14,732	i 19,456	21,215	12,031	11,853	11,668
Texas Tech U., Health Sciences Center, El Paso	315	ne	ne	ne	ne	22,634	18,186	16,674	15,526	12,145	11,649
Tarleton State U.	316	9,931	9,720	8,646	7,854	9,961	8,956	8,880	10,250	11,960	11,566
Ponce Health Sciences U.	317	8,934	10,502	11,586	7,241	5,710	7,520	7,992	8,664	7,857	11,390
Midwestern U.	318	3,596	4,022	5,200	6,292	7,310	8,560	7,732	9,207	10,173	10,343
Langston U.	319	4,492	5,206	5,326	4,932	8,512	8,126	10,941	10,592	i 10,459	i 10,326
Bowling Green State U.	320	8,030	8,834	8,426	12,808	8,630	6,263	10,999	9,374	9,570	10,112
Xavier U. Louisiana	321	8,022	9,836	10,606	8,789	9,335	9,588	12,060	12,372	11,586	9,999
Western Washington U.	322	6,630	7,738	6,501	6,577	6,768	7,619	7,997	9,294	10,912	9,896
Georgia Southern U.	323	3,164	3,505	5,185	17,287	19,584	16,456	16,465	15,221	12,150	9,634
CUNY, Graduate School of Public Health and Health Policy	324	na	na	na	na	na	na	na	na	8,636	9,521
California State U., San Marcos	325	5,049	5,044	i 5,040	i 5,034	4,470	i 4,637	5,212	4,962	7,185	9,446
Clark U.	326	5,237	6,032	7,041	5,481	5,644	6,357	6,404	7,408	7,650	9,426
Virginia State U.	327	6,907	8,094	10,060	9,213	8,175	7,657	7,948	8,053	8,674	9,223
New School	328	3,167	3,277	3,695	5,919	3,843	5,254	15,747	11,123	8,112	9,179
U. Arkansas, Little Rock	329	9,754	11,320	10,245	11,994	7,055	6,276	6,971	6,050	7,079	9,134
U. Arkansas, Pine Bluff	330	8,343	9,415	9,073	8,909	8,198	8,425	8,873	8,136	8,314	9,005
Arkansas State U., Jonesboro	331	11,043	13,339	14,064	10,320	7,956	8,391	8,158	7,936	8,238	8,906
Clark Atlanta U.	332	8,515	8,205	10,405	9,156	9,172	9,929	8,482	7,948	7,810	8,508

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2019 R&D expenditures: FYs 2010–19

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019				
Kentucky State U.	333	4,887	4,559	6,843	5,580	5,694	6,017	7,060	8,151	i	9,125	8,432			
CUNY, Advanced Science Research Center	334	na	na	na	na	na	569	ne	3,293		5,462	8,300			
California State U., Fresno	335	8,117	8,296	8,283	7,117	7,303	7,248	7,431	7,228		8,414	8,241			
U. Michigan, Dearborn	336	6,377	7,025	5,720	6,419	7,744	7,179	7,050	7,664		7,411	8,092			
Norfolk State U.	337	5,944	6,930	8,336	6,179	6,780	5,122	7,196	7,237		6,877	7,935			
Western Kentucky U.	338	9,527	8,003	10,259	8,744	7,398	6,936	7,480	9,062		8,003	7,872			
Wesleyan U.	339	7,599	9,356	8,162	7,280	6,017	6,330	6,760	7,589		8,529	7,714			
U. New England	340	3,560	4,016	5,217	6,637	7,456	7,360	7,289	7,817		6,668	7,346			
U. Tennessee, Chattanooga	341	8,786	7,308	8,865	5,928	4,627	5,318	3,962	4,814		5,834	7,337			
Edward Via C. of Osteopathic Medicine	342	ne	2,453	2,576	4,992	2,633	2,237	5,692	8,119		7,601	7,225			
U. Maryland, Eastern Shore	343	8,692	8,664	7,265	8,786	8,982	9,631	8,175	7,403		4,941	7,128			
Ball State U.	344	4,780	9,159	4,701	3,616	4,364	4,810	5,689	5,215		6,412	7,025			
U. Hawaii, Hilo	345	11,567	5,927	14,841	11,607	9,242	14,431	11,216	6,976		7,048	6,818			
Fordham U.	346	5,212	4,494	5,624	6,704	7,086	6,352	9,477	8,429		7,336	6,623			
California State U., Bakersfield	347	2,083	3,130	1,115	2,380	2,254	2,857	2,725	3,751		4,633	6,612			
Pacific U.	348	1,567	927	481	2,387	1,094	i	978	1,509		5,299	4,156	6,607		
Illinois State U.	349	5,622	5,492	4,852	5,155	5,212	5,042	5,586	4,658		5,157	6,584			
CUNY, Brooklyn C.	350	6,266	8,706	8,485	7,631	8,232	8,553	9,205	6,748		6,054	6,460	i		
U.S. Military Academy	351	19,763	i	12,314	11,702	11,612	13,247	13,135	12,281		7,247	6,313	6,432		
Grand Valley State U.	352	4,968		6,296	i	7,624	i	8,954	7,934		7,213	6,595	6,268	6,729	6,204
California State U., Monterey Bay	353	5,305	6,959	6,567	6,129	4,780	5,459	5,679	5,384		5,702	6,192			
Sam Houston State U.	354	6,045	2,637	3,643	3,225	3,235	2,804	3,170	3,408		5,622	6,180			
U. Southern Maine	355	3,125	7,236	13,682	11,527	6,723	i	5,095	i	3,465	6,550	6,696	6,058		
California State U., Fullerton	356	11,147	14,330	11,094	10,230	7,104	5,318	5,029	4,890		5,724	6,017			
Claremont McKenna C.	357	4,788	4,425	5,365	i	5,414	i	5,463	i	ne	6,054	5,818	5,299	5,923	
St. Edward's U.	358	ne	3,299	2,480	2,640	1,745	4,200	3,720	7,161		2,813	5,813			
West Virginia State U.	359	3,770	4,176	5,087	4,467	6,689	7,364	5,224	6,305		6,535	5,763			
New York Institute of Technology	360	1,785	1,934	2,056	3,214	4,916	3,507	3,846	3,094		3,663	5,705			
Missouri State U.	361	7,737	5,576	4,340	3,879	3,677	3,516	3,027	3,104		4,391	5,669			
Southern U. and A&M C., Agricultural Research and Extension Center	362	ne	6,143	8,122	5,530	5,606	4,761	4,704	5,000	i	5,296	5,448			
U. North Florida	363	6,316	8,773	6,620	4,126	2,657	3,160	4,366	5,059		5,666	5,439			
Amherst C.	364	2,622	3,230	3,618	i	4,007	3,171	3,401	3,072		3,105	3,546	5,380		
Oklahoma State U., Center for Health Sciences	365	4,398	2,815	2,122	2,137	1,805	1,625	1,924	2,374		2,497	5,339			

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2019 R&D expenditures: FYs 2010–19

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019			
Smith C.	366	4,215	4,156	3,777	3,688	4,047	5,006	4,124	5,211	5,360	5,330			
California State Polytechnic U., Pomona	367	4,040	4,737	4,599	6,702	i	5,349	4,513	5,254	5,732	7,538	5,323		
DePaul U.	368	4,302	5,256	5,344	4,828	5,681	8,506	8,590	7,590	6,325	5,241			
C. Charleston	369	11,422	6,446	7,217	8,078	7,121	7,327	6,955	6,740	5,450	5,206			
U. Detroit Mercy	370	1,084	1,127	933	ne	1,305	1,872	3,649	2,737	4,577	5,170			
Alfred U.	371	4,181	5,946	5,377	6,014	4,156	5,064	3,735	3,197	3,628	5,153			
Wellesley C.	372	5,271	4,130	5,253	6,156	6,537	5,653	6,896	5,489	4,896	5,076			
U. New Haven	373	ne	595	456	728	511	i	518	2,535	985	5,577	5,045		
West Texas A&M U.	374	5,741	4,307	4,346	4,122	3,663	3,924	3,776	4,690	4,441	5,021			
Bryn Mawr C.	375	4,482	4,807	6,247	5,429	5,329	6,369	6,136	6,270	5,708	4,971			
James Madison U.	376	6,858	7,075	8,428	5,539	4,516	3,700	3,283	3,108	3,859	4,968			
Texas Southern U.	377	4,744	4,255	4,424	5,518	2,855	3,089	3,764	4,702	2,637	4,893			
Salisbury U.	378	844	880	2,689	2,587	3,677	4,180	4,523	3,679	4,867	4,870			
Long Island U.	379	630	i	672	i	671	i	676	ne	ne	611	1,602	1,731	4,858
Montclair State U.	380	1,368	3,373	4,470	4,005	3,342	3,433	4,250	4,006	4,965	4,755			
Eastern Michigan U.	381	5,388	5,044	5,428	2,655	1,244	1,509	2,642	3,467	3,637	4,706			
Fisk U.	382	7,686	4,631	4,058	5,429	i	7,366	7,247	i	7,681	4,333	2,781	4,606	
Lincoln U., Jefferson City	383	8,475	8,518	7,899	6,585	6,742	6,296	5,826	5,164	4,215	4,581			
Fort Valley State U.	384	4,586	3,850	3,665	3,688	4,547	4,320	5,138	5,374	3,916	4,562			
Middle Tennessee State U.	385	3,370	2,825	5,491	3,384	1,522	1,965	3,971	4,092	3,735	4,474			
Morehouse C.	386	7,704	8,280	i	8,856	9,169	6,973	5,836	4,199	3,663	4,365	4,427		
William Paterson U.	387	574	753	ne	ne	ne	ne	803	1,592	3,691	4,424			
Youngstown State U.	388	4,518	4,625	3,533	3,713	3,410	3,331	2,333	4,416	4,435	4,368			
Loyola Marymount U.	389	1,364	3,938	2,369	2,285	3,610	3,286	4,168	4,075	4,120	4,322			
Texas Christian U.	390	3,815	3,841	5,105	5,342	5,132	5,095	4,053	4,330	3,279	4,291			
CUNY, Graduate Center	391	6,799	4,964	6,861	8,835	5,719	4,144	4,979	i	5,727	4,145	4,163		
U. North Carolina, general administration	392	ne	ne	ne	ne	ne	4,197	4,137	3,721	4,779	4,154			
Bucknell U.	393	5,169	4,618	3,623	3,867	4,143	3,790	4,005	i	4,321	i	4,639	4,061	
U. of the District of Columbia	394	5,012	3,700	4,011	3,073	2,361	2,043	3,469	3,733	2,960	4,043			
Texas A&M International U.	395	1,596	1,336	1,225	1,349	1,450	925	1,617	2,974	3,729	4,034			
Milwaukee School of Engineering	396	3,944	4,347	4,599	4,351	4,410	4,524	3,930	3,374	3,232	4,026			
U. Oklahoma, Tulsa	397	ne	ne	ne	ne	ne	2,554	3,107	2,667	3,868	4,003			
U. Central del Caribe	398	7,122	7,515	7,313	7,095	7,181	6,964	7,090	5,634	4,111	3,953			
Carleton C.	399	2,916	3,081	3,529	4,768	4,426	2,718	1,451	1,794	1,918	3,946			
Western U. of Health Sciences	400	1,283	900	2,773	2,218	2,384	2,219	3,717	5,740	4,063	3,936			

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2019 R&D expenditures: FYs 2010–19

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019		
Roseman U. of Health Sciences	401	ne	840	ne	ne	3,021	3,287	3,433	4,167	3,973	3,916	i	
U. Ana G. Mendez, Gurabo	402	1,054	410	615	566	2,319	1,780	1,747	1,640	1,388	3,823		
West Chester U. Pennsylvania	403	4,634	i	7,785	1,914	969	1,294	2,294	3,138	3,302	3,247	3,787	
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	404	ne	2,342	2,562	2,979	3,356	3,089	3,177	3,285	3,502	3,769		
Central State U.	405	3,060	3,694	3,490	2,769	2,025	1,508	1,643	2,008	3,615	3,766		
U. San Diego	406	2,567	2,340	2,485	2,552	2,873	2,332	2,566	3,543	3,491	3,742		
U. of the Sciences Philadelphia	407	1,945	2,314	2,341	2,087	2,586	3,366	3,187	3,954	3,671	3,740		
Williams C.	408	4,691	4,165	4,080	3,127	3,213	4,461	4,506	4,393	4,372	3,735		
Southern U. and A&M C., Baton Rouge	409	6,865	6,819	i	6,773	4,727	3,153	4,054	3,267	3,554	3,532	3,713	
Dakota State U.	410	ne	1,015	5,709	1,574	1,446	1,152	2,026	2,276	3,610	3,706		
Toyota Technological Institute, Chicago	411	ne	746	ne	ne	ne	2,543	2,710	2,880	3,251	3,681		
Murray State U.	412	3,384	3,713	3,341	2,179	2,053	2,341	2,092	2,438	2,860	3,676		
Grinnell C.	413	1,797	1,072	2,001	2,603	2,336	2,091	2,055	3,174	3,798	3,655		
Indiana U. Pennsylvania	414	767	967	958	337	414	ne	628	1,798	2,474	3,637		
U. Northern Iowa	415	2,077	3,451	3,302	3,395	3,510	3,281	3,559	3,248	2,946	3,601		
Touro U.	416	999	1,196	1,993	1,772	3,067	3,106	3,466	3,122	3,233	3,543		
Barnard C.	417	3,240	3,916	3,611	2,893	2,403	2,562	3,103	3,108	2,938	3,539		
CUNY, C. Staten Island	418	3,137	2,162	3,151	2,477	i	2,089	1,907	2,780	2,988	3,644	i	
MGH Institute of Health Professions	419	ne	587	ne	ne	ne	3,931	2,228	1,839	2,957	3,494		
U. Baltimore	420	3,606	4,452	3,894	3,865	3,951	4,091	5,188	4,972	3,794	3,474		
U. Colorado Colorado Springs	421	8,805	6,935	3,996	3,688	4,312	5,962	5,679	5,611	4,730	3,440		
U. Massachusetts, central office	422	ne	ne	485	131	339	517	1,690	2,894	3,308	3,437		
Albany C. of Pharmacy and Health Sciences	423	3,074	3,496	2,639	2,637	3,200	2,520	1,789	2,561	2,730	3,381		
Haverford C.	424	3,603	i	2,765	i	2,588	i	2,370	i	2,546	i	2,266	i
Harvey Mudd C.	425	3,214	3,830	3,507	3,531	3,088	3,204	4,302	3,706	3,717	3,292		
Oregon Institute of Technology	426	ne	258	ne	ne	ne	788	4,027	3,537	i	3,145	i	
Pennsylvania State U., Behrend	427	2,500	2,724	3,169	3,041	4,156	3,614	5,104	3,598	2,617	3,268		
Gallaudet U.	428	4,975	4,404	4,305	4,468	3,457	3,543	4,014	7,060	7,046	3,255		
Towson U.	429	3,002	3,570	2,529	2,795	2,265	2,200	1,945	2,593	3,033	3,245		
Stephen F. Austin State U.	430	7,536	4,664	3,370	2,877	3,207	3,920	2,968	2,801	2,599	3,241		
Reed C.	431	1,904	1,839	1,837	2,395	3,091	3,050	3,213	1,415	2,607	3,240		

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2019 R&D expenditures: FYs 2010–19

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Central Washington U.	432	5,132	2,854	2,752	2,087	1,998	2,182	2,751	3,755	3,050	3,205
U. Wisconsin-Stevens Point	433	6,674	6,063	i 5,452	4,300	3,660	i 3,210	i 2,757	i 2,884	i 3,052	i 3,204
Lamar U.	434	5,316	4,685	3,570	2,564	2,439	2,218	1,824	3,359	3,316	3,196
Trinity U.	435	1,387	1,355	1,611	2,815	2,499	2,225	2,096	2,712	2,637	3,185
Philadelphia C. of Osteopathic Medicine	436	1,278	2,401	1,898	2,614	2,209	2,561	2,458	2,969	3,059	3,162
U. Northern Colorado	437	2,029	1,801	2,012	2,174	3,252	2,670	2,866	3,220	3,722	3,157
Colgate U.	438	2,559	2,109	3,004	2,340	2,226	2,244	2,631	2,728	3,142	3,128
Purdue U., Northwest	439	na	na	na	na	na	na	na	4,920	4,695	3,111
Franklin and Marshall C.	440	3,444	3,140	2,543	2,855	2,123	3,045	2,447	2,876	2,911	3,092
Appalachian State U.	441	2,550	3,498	4,196	2,877	3,977	3,507	2,868	4,318	3,387	3,060
U. Washington, Tacoma	442	106	142	261	23	1	1,812	1,784	971	2,105	3,052
South Carolina State U.	443	7,166	8,157	i 9,149	6,674	i 7,838	i 9,002	i 12,077	i 13,254	i 14,021	i 3,010
Texas Woman's U.	444	2,155	2,576	3,196	2,067	1,970	1,812	2,635	3,130	3,265	2,996
CUNY, John Jay C. of Criminal Justice	445	4,354	4,125	5,001	3,799	3,726	3,515	3,252	3,738	5,893	2,986
SUNY, C. of Optometry	446	3,529	3,738	3,466	3,637	3,481	3,906	4,169	3,304	3,120	2,968
California State U., Maritime Academy	447	ne	3,005	i 2,342	2,180	1,011	1,522	2,205	1,916	3,039	2,959
Skidmore C.	448	2,632	1,941	1,758	1,733	1,646	1,620	1,208	1,741	2,451	2,924
Swarthmore C.	449	2,381	2,364	2,684	2,744	2,657	2,215	2,310	2,643	2,690	2,795
Southern Connecticut State U.	450	0	899	i 1,034	i 632	i 2,472	i 2,058	i 1,406	1,481	1,684	2,756
Saginaw Valley State U.	451	585	925	748	576	ne	838	804	978	1,584	2,750
Azusa Pacific U.	452	ne	3,414	i 1,930	i ne	ne	3,953	4,996	4,330	4,207	2,731
Dillard U.	453	3,707	5,577	i 7,448	7,692	6,907	9,385	9,459	6,943	6,573	2,730
Hope C.	454	3,552	3,605	3,320	3,367	2,719	2,932	2,811	3,213	3,011	2,694
Mount Holyoke C.	455	2,305	2,810	2,838	2,716	3,335	3,565	3,297	3,635	2,601	2,689
U. South Florida, Saint Petersburg	455	659	364	559	1,195	1,498	252	1,093	2,450	2,746	2,689
Bowdoin C.	457	2,532	2,633	4,277	4,025	2,950	2,873	3,079	2,200	2,506	2,677
Minnesota State U., Mankato	458	3,344	1,990	1,614	1,945	1,798	1,632	3,605	1,849	2,293	2,665
U. Nebraska, Kearney	459	1,441	2,137	948	1,234	1,275	1,216	1,588	3,011	2,091	2,636
Claremont Graduate U.	460	5,068	1,100	6,200	7,030	5,907	i 5,252	i 4,598	i 3,944	i 3,290	i 2,634
Stockton U.	461	ne	1,226	609	ne	1,155	1,297	759	ne	2,560	2,630
CUNY, Lehman C.	462	2,932	i 3,168	2,982	2,242	2,543	2,613	3,847	4,114	4,657	2,594
Alabama State U.	463	13,340	12,340	13,607	1,927	2,236	2,303	2,372	2,253	2,434	2,577
CUNY, New York City C. of Technology	464	133	284	ne	ne	ne	ne	ne	ne	2,358	2,576
California State U., Chico	465	2,710	2,288	2,430	2,833	2,284	1,676	2,152	1,474	2,298	2,562

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2019 R&D expenditures: FYs 2010–19

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Western Carolina U.	466	2,353	1,419	1,768	1,011	1,048	1,145	1,305	1,431	1,430	2,518
Pittsburg State U.	467	1,759	1,687	1,479	1,536	2,458	2,205	2,162	2,255	2,253	2,513
Pennsylvania State U., Harrisburg	468	2,728	3,446	2,774	1,906	2,482	3,379	2,546	1,638	2,087	2,497
Occidental C.	469	2,154	1,803	1,592	1,634	2,177	1,426	1,907	1,764	1,432	2,458
Texas A&M U.-Commerce	470	2,147	1,316	1,550	1,758	1,606	1,972	1,409	2,250	2,558	2,428
Yeshiva U.	471	314,240	281,334	289,027	271,166	306,826	306,174	46,130	3,258	3,302	2,420
U. of the Pacific	472	4,429	3,241	3,753	3,479	1,877	1,488	2,289	1,592	2,228	2,387
Pace U.	473	2,413	2,709	3,306	2,914	3,570	3,436	2,946	2,847	2,148	2,384
U. Louisiana, Monroe	474	2,869	2,801	2,439	2,753	2,267	1,640	2,430	2,297	2,123	2,359
U. Washington, Bothell	475	471	497	553	13	742	2,168	744	1,114	1,361	2,356
U. Wisconsin-La Crosse	476	3,852	3,366 i	2,879	2,815	3,121	2,948	2,795	2,840	3,178	2,355
Sul Ross State U.	477	2,970	3,101	2,296	2,159	2,528	2,187	1,908	2,498	2,934	2,352
U. Richmond	478	3,243	3,051	3,302	2,602	2,921	2,484	2,559	2,532	2,301	2,311
St. John's U., New York	479	1,509	1,697	1,971	2,376	2,392	2,225	1,832	2,200	2,635	2,309
Western Illinois U.	480	1,210	1,524	4,514	1,983	1,349	778	ne	1,904	2,414	2,307
Tougaloo C.	481	2,978	2,542	1,865	1,857	1,894	1,868	1,747	2,252	2,860	2,293
U. Wisconsin-Superior	482	5,890	6,187 i	6,041 i	ne	3,022 i	ne	ne	ne	3,060	2,250
Pomona C.	483	2,377	3,115	2,694	3,364	3,412	3,234	3,447	2,787	2,425	2,239
U. North Carolina, Asheville	484	2,322	2,603	2,575	2,189	1,597	2,046	2,794	2,418	2,641	2,226
Fayetteville State U.	485	2,188	2,378	1,771	2,050	2,499	2,092	3,040	2,502	2,501	2,224
Santa Clara U.	486	3,812	2,327	3,082	2,201	2,772	1,654	2,038	2,026	2,182	2,220
Northwest Indian C.	487	2,271 i	2,557 i	2,590	2,760	2,503 i	1,575 i	ne	ne	1,649	2,201
National Defense U.	488	ne	ne	ne	4,906	6,712	4,832	5,720	5,723	2,219	2,155
U. Central Arkansas	489	1,700	1,457	1,563	1,444	2,201	2,037	2,132	2,167	2,253	2,150
U. South Carolina, Aiken	490	337 i	750	ne	1,309	1,133 i	1,154	1,445	2,961	2,582	2,145
Northeastern Illinois U.	491	376	388	ne	ne	613	ne	ne	805	1,877	2,078
Bates C.	492	1,545	1,814	2,031	2,444	1,531	2,725	1,730	1,750	1,508	2,074
Wheaton C., Wheaton	493	ne	769	658	ne	850	532	ne	739	1,156	2,063
Coastal Carolina U.	494	2,383	2,035	2,232	2,411	2,079	1,750	1,585	1,875	1,629	2,042
U. Texas, Tyler	495	2,566	2,394	3,705	2,343	2,573	2,349	1,120	1,710	1,589	2,029
Northern Kentucky U.	496	2,188	2,214	1,970	1,641	1,867	1,715	1,650	1,517	1,429	2,025
SUNY, Buffalo State	497	1,889	2,532	2,970	2,099	1,971	2,355	2,195	1,868	1,905	2,009
Colorado State U., Pueblo	498	413	364	ne	ne	ne	ne	ne	ne	ne	2,008
Spelman C.	499	2,740	1,833	1,874	1,366	1,185	1,035	1,291	1,227	1,673	2,004
Oberlin C.	500	1,940	1,652	1,778	1,599	1,755	1,801	1,223	1,832	1,610	1,991
CUNY, Baruch C.	501	1,860	1,342	2,143	967	900	1,379	2,315	1,843	1,736	1,987
Florida Polytechnic U.	502	na	na	na	na	na	212	ne	ne	ne	1,981

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2019 R&D expenditures: FYs 2010–19

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019									
Eastern Washington U.	503	3,171	3,780	2,538	2,027	1,820	2,973	3,276	1,964	2,506	1,971									
Keck Graduate Institute	504	ne	2,313	1,920	2,357	2,132	1,708	1,799	i	1,859	i	1,969	i							
Christopher Newport U.	505	1,096	1,669	1,327	1,173	1,469	1,002	1,036	1,137	1,437	1,961									
Hawaii Pacific U.	506	ne	592	1,016	983	1,524	1,221	2,351	2,155	2,094	1,960									
SUNY, Geneseo	507	1,174	2,239	1,989	1,082	957	1,162	1,594	1,626	1,813	1,958									
U. Wisconsin-Green Bay	508	1,128	984	i	991	i	998	i	1,003	i	1,010	i	1,446	i	1,364	i	1,353	i	1,936	i
Connecticut C.	509	1,532	1,801	1,740	1,842	1,966	1,900	1,972	1,875	1,349	1,894									
Rutgers, State U. New Jersey, Camden	510	2,573	2,792	2,278	4,923	4,691	4,440	4,192	2,912	2,050	1,889									
Polytechnic U. Puerto Rico	511	ne	240	ne	ne	ne	ne	ne	ne	ne	1,884									
U. Puerto Rico, Cayey	512	713	1,067	1,817	1,726	1,795	1,521	1,415	1,109	1,359	1,870	i								
Hobart and William Smith Colleges	513	1,320	1,355	1,120	2,042	1,100	654	ne	923	ne	1,846									
Claflin U.	514	3,241	5,202	5,255	2,574	1,618	1,204	1,748	1,354	1,505	1,736									
U. Illinois, Springfield	515	1,808	1,536	2,155	2,205	1,852	2,040	1,293	2,246	2,104	1,727									
Savannah State U.	516	1,874	2,700	1,996	2,613	2,210	1,801	2,261	1,405	1,793	1,720									
CUNY, system office	517	ne	ne	819	435	652	828	820	444	2,940	1,713									
Saint Joseph's U.	518	1,957	1,840	1,704	937	569	650	911	1,316	1,255	1,688									
SUNY, Oswego	519	783	977	ne	724	ne	ne	ne	1,626	1,953	1,679									
Mercyhurst U.	520	1,106	581	588	474	887	631	307	976	i	ne	1,673	i							
Middlebury C.	521	2,284	2,358	3,015	2,083	1,371	1,574	1,822	2,043	1,822	1,657									
Palmer C. of Chiropractic, Davenport	522	4,693	4,861	4,507	3,774	2,736	i	1,698	1,510	1,189	1,600	1,650								
SUNY, C. Plattsburgh	523	1,613	1,098	913	ne	1,008	1,087	1,020	1,003	1,604	1,649									
Des Moines U.	524	855	924	ne	ne	929	ne	1,206	1,355	1,351	1,643									
Colby C.	525	1,515	1,528	1,709	1,571	1,475	1,573	1,639	1,643	1,948	1,641									
Furman U.	526	2,202	2,023	1,889	1,994	1,513	1,748	1,864	2,029	2,015	1,628									
U. Wisconsin-Oshkosh	526	1,229	1,847	2,027	1,869	i	1,820	i	1,610	i	ne	1,460	i	1,544	i	1,628	i			
Alaska Pacific U.	528	434	518	ne	ne	ne	976	1,009	835	1,325	1,627									
Morehead State U.	529	1,882	2,000	2,064	2,376	1,433	1,420	2,089	2,564	2,223	1,624									
Kettering U.	530	6,275	4,936	3,215	2,806	2,728	2,685	2,650	3,245	2,060	1,613									
C. Wooster	531	938	1,110	880	ne	1,135	1,135	i	ne	1,379	1,338	1,586								
Macalester C.	532	3,080	3,343	1,518	1,241	1,256	1,096	1,389	1,754	1,218	1,582									
Trinity C., Hartford	533	1,292	1,449	1,675	1,369	1,654	1,217	1,217	2,496	1,423	1,579									
CUNY, York C.	534	ne	2,134	1,153	826	ne	315	ne	ne	ne	1,574									
California State U., Dominguez Hills	535	2,743	2,780	2,894	3,088	1,384	i	1,035	1,460	1,105	1,582	1,563								
Davidson C.	536	1,432	1,808	1,291	2,213	1,629	2,305	1,463	1,583	1,338	1,549									

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2019 R&D expenditures: FYs 2010–19

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
U. Hartford	537	1,137	2,414	1,736	1,448	1,305	1,350	1,478	1,572	460	1,528
Gettysburg C.	538	664	541	ne	ne	ne	ne	ne	1,014	1,407	1,525
Calvin U.	539	3,720	2,045	2,370	3,408	2,627	1,772	i 1,331	1,306	1,793	1,521
California State U., Channel Islands	540	ne	363	ne	1,101	3,324	1,640	1,282	1,002	1,170	1,517
Florida Gulf Coast U.	541	3,841	3,611	3,190	2,943	2,150	1,967	2,112	1,888	1,742	1,470
U. Wisconsin-Eau Claire	542	1,774	1,287	1,225	1,132	798	ne	1,170	1,557	1,136	1,468
Winston-Salem State U.	542	ne	743	1,280	436	ne	ne	1,069	1,175	1,289	1,468
Fort Lewis C.	544	360	606	ne	ne	ne	ne	ne	ne	ne	1,460
Roger Williams U.	545	1,174	1,616	1,369	1,283	1,927	1,450	1,815	1,900	1,665	1,459
Union C., Schenectady	546	1,957	1,527	1,378	2,312	1,807	1,431	2,031	1,042	1,297	1,454
California State U., Stanislaus	547	ne	1,419	i 1,758	1,104	892	1,078	1,108	1,326	1,371	1,435
St. Cloud State U.	547	2,326	1,992	1,489	1,418	1,511	2,148	1,576	1,676	1,694	1,435
Marshall B. Ketchum U.	549	ne	ne	ne	ne	1,030	1,468	1,491	1,512	i 1,451	i 1,430
Liberty U.	550	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,429
U. Central Oklahoma	550	1,786	1,537	998	1,058	1,207	1,619	1,214	1,054	1,228	1,429
U. of the Incarnate Word	552	ne	302	ne	ne	ne	576	ne	ne	1,057	1,428
U. of St. Thomas (MN)	553	1,003	1,037	751	1,019	647	ne	909	929	1,344	1,395
CUNY, Medgar Evers C.	554	618	1,929	1,555	1,134	1,063	937	ne	1,465	1,349	1,383
SUNY, C. Brockport	555	831	1,248	1,487	1,183	1,130	1,329	1,331	1,270	1,268	1,372
Lewis and Clark C.	556	1,427	1,504	1,222	2,948	3,118	2,480	2,063	1,905	1,407	1,370
Bradley U.	557	1,123	1,856	2,354	2,840	1,483	1,452	2,088	1,765	1,201	1,347
U. Alaska, Southeast	558	1,620	1,147	1,107	1,241	1,484	1,588	1,725	1,621	1,640	1,341
Albany State U.	559	740	1,416	2,213	1,658	1,549	1,233	1,324	1,209	1,111	1,329
Monmouth U.	560	2,195	1,956	904	ne	865	ne	900	ne	ne	1,294
Northwestern State U. Louisiana	561	1,407	1,185	1,085	997	792	ne	1,202	1,023	1,199	1,275
Benedict C.	562	1,533	3,009	2,754	2,664	2,479	1,373	1,653	1,676	1,934	1,269
Black Hills State U.	563	1,741	1,568	1,909	1,983	1,322	1,197	1,722	1,297	918	1,254
Hofstra U.	564	1,151	1,095	1,546	955	1,354	2,039	1,916	1,455	1,347	1,253
Indiana State U.	565	1,526	1,980	1,857	1,230	1,434	1,459	1,487	929	977	1,250
National U. of Natural Medicine	566	ne	791	ne	ne	ne	ne	ne	921	ne	1,245
Heidelberg U.	567	ne	1,219	i ne	1,129	1,537	1,107	1,286	1,619	1,280	1,237
New England C. of Optometry	568	1,457	1,751	2,237	2,172	1,234	1,077	980	ne	1,026	1,223
Purdue U., Fort Wayne	569	4,832	5,206	4,563	5,080	4,348	4,013	3,930	3,317	3,401	1,220
Saint Michael's C.	570	623	703	ne	1,497	1,500	1,532	1,618	1,411	1,482	1,200
U. Puerto Rico, Humacao	571	1,968	i 1,976	1,949	1,452	1,102	748	ne	ne	1,168	1,195
U. San Francisco	571	1,546	1,734	3,405	2,233	2,208	1,848	1,718	1,009	1,169	1,195

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2019 R&D expenditures: FYs 2010–19

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Austin Peay State U.	573	ne	1,603	1,358	1,413	868	863	556	955	1,191	1,169
New Jersey City U.	574	145	ne	ne	ne	ne	ne	ne	1,600	3,255	1,165
Elon U.	575	ne	602 i	707 i	876 i	851	1,054	1,141	1,130	1,304	1,162
Winthrop U.	576	ne	1,350	1,465	1,207	1,211	1,163	917	853	865	1,146
Southeastern Louisiana U.	577	2,172	1,638	1,733	1,642	1,408	1,984	1,550	1,606	1,304	1,140
Seattle U.	578	1,190 i	1,274	642	ne	1,500	1,975	1,610	1,177	1,368	1,128
Dine C.	579	ne	911 i	ne	ne	ne	ne	ne	ne	1,238	1,126
U. Houston-Clear Lake	580	831	1,273	1,253	1,175	1,013	853	1,067	1,146	1,227	1,113
Lafayette C.	581	1,544	1,720	1,308	1,269	973	1,201	959	1,459	1,239	1,101
Biola U.	582	ne	ne	ne	ne	ne	ne	947 i	978 i	1,026 i	1,097 i
Kenyon C.	583	428	433	ne	ne	ne	ne	ne	ne	1,161	1,068
Keene State C.	584	ne	1,029	814 i	597	1,048	966	ne	825	ne	1,061
Colorado C.	585	543	751	701	398	896	1,423	1,003	1,346	1,294	1,053
Andrews U.	586	788	414	ne	ne	ne	ne	ne	ne	ne	1,048
Northern Michigan U.	587	423	405	ne	ne	ne	ne	627	653	963	1,047
Whitman C.	588	1,407	1,142	849	ne	ne	ne	ne	ne	ne	1,039
Johnson C. Smith U.	589	ne	ne	ne	ne	ne	ne	641	628	1,425	1,034
Pepperdine U.	590	239	1,134 i	1,455 i	1,107 i	1,298	1,725	1,820	897	691	1,025
Providence C.	591	895	758	ne	887	ne	1,311	1,151	997	1,186	1,016
Vassar C.	592	1,236	1,552	993	1,136	999	2,118 i	1,417	1,579	4,185 i	1,009
Eastern Kentucky U.	593	3,017	3,169	2,965	2,182	1,858	1,375	1,340	1,157	1,004	975
Lawrence Technological U.	593	3,103	3,158	1,471	1,666	1,393	1,962	1,449	1,490	1,068	975
Manhattan C.	595	498	521	ne	ne	ne	ne	ne	ne	ne	969
Central Connecticut State U.	596	659	1,083	1,248	1,416	971	1,106	1,198	873	ne	966
Canisius C.	597	221	205	ne	ne	ne	ne	ne	1,398	1,054	943
Grambling State U.	598	993	2,085	1,523	1,327	1,165	1,098	1,454	1,554	1,343	927
Willamette U.	599	1,161	1,161	1,825	1,484	1,183	1,643	1,054	1,345	1,543	895
Chicago State U.	600	1,598	2,014	565	ne	ne	ne	910	ne	1,154	894
U. Portland	601	939	1,076	677	ne	ne	ne	ne	ne	ne	891
Doane U.	602	ne	1,022	678	ne	1,026	474	ne	ne	952	887
Fort Hays State U.	603	ne	ne	ne	ne	ne	ne	ne	ne	ne	877
Bowie State U.	604	ne	1,910	1,739	1,422	1,761	1,497	1,507	987	1,100	876
Eastern Connecticut State U.	605	ne	96	ne	ne	574	606	464	770	588	871
American Samoa Community C.	606	ne	ne	ne	ne	ne	1,337	793	ne	ne	860
Salus U.	607	1,359	1,493	1,337	1,368	1,190	1,257	1,641	1,566	1,286	854
Augustana U.	608	912	1,578	1,160	1,045	1,106	756	ne	958	1,128	841
Hamilton C.	608	1,431	1,476	1,136	1,660	1,178	627	897	1,036	880	841

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2019 R&D expenditures: FYs 2010–19

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
St. Olaf C.	610	1,545	1,078	1,415	1,209	1,191	1,118	1,389	1,346	904	836
U. Wisconsin-Platteville	611	681	715	ne	ne	899	726	ne	812	ne	829
Seton Hall U.	612	3,030	5,560	679	691	688	736	825	850	724	810
Rhode Island C.	613	ne	2,316	1,569	1,167	907	1,396	1,259	960	776	809
Emerson C.	614	ne	ne	ne	ne	ne	455	358	769	1,703	786
Salish Kootenai C.	615	382	658	1,019	1,042	1,399	1,186	732	781	963	766
Albion C.	616	ne	563	ne	ne	ne	ne	ne	807	738	753
Fairfield U.	617	2,233	2,720	2,640	2,557	2,897	2,400	2,705	3,535	1,534	704
Rhode Island School of Design	618	ne	377	ne	ne	ne	328	354	351	695	691
Naval War C.	619	ne	ne	0	0	0	0	0	4,240	5,270	679
California Lutheran U.	620	ne	666	ne	ne	ne	ne	ne	ne	ne	670
A. T. Still U.	621	1,253	1,925	562	744	926	2,904	2,873	782	ne	644
Bethune-Cookman U.	622	ne	ne	ne	ne	ne	ne	ne	ne	1,016	640
U. Minnesota, Morris	623	415	473	ne	477	799	676	624	504	ne	634
Niagara U.	624	655	783	1,476	1,053	611	458	380	532	645	571
Saint John's U., Collegeville	625	390	563	ne	763	907	745	909	738	568	560
U. North Georgia	626	ne	ne	ne	ne	ne	ne	ne	331	544	551
Franklin W. Olin C. of Engineering	627	ne	1,012	1,777	1,157	1,561	2,136	1,762	1,301	876	534
U. Michigan, Flint	627	189	328	ne	ne	ne	ne	ne	733	953	534
U. South Florida, Sarasota-Manatee	629	105	86	ne	ne	290	274	318	432	438	518
C. of Saint Benedict	630	ne	513	ne	738	769	662	854	660	520	512
Augsburg U.	631	ne	1,113	1,073	620	ne	747	674	645	505	496
Drake U.	632	680	644	ne	863	ne	ne	1,147	759	563	485
U. Houston-Downtown	633	1,010	1,272	2,123	584	605	1,016	818	1,111	953	481
Dickinson C.	634	1,432	1,308	1,133	836	756	760	711	695	ne	476
U. Ana G. Mendez, Cupey	635	1,248	1,740	8,092	6,016	4,764	4,747	3,746	4,291	3,057	429
Maine Maritime Academy	636	ne	338	ne	ne	ne	373	1,902	1,763	1,093	358
Allegheny C.	637	284	427	ne	ne	ne	ne	553	862	794	329
Texas A&M U.-Central Texas	638	ne	ne	ne	ne	ne	ne	ne	ne	479	320
U. of Mary Washington	639	ne	563	90	ne	ne	266	ne	ne	336	280
Mills C.	640	122	210	162	325	139	99	257	68	44	230
Southwest C. of Naturopathic Medicine and Health Sciences	640	ne	ne	ne	ne	ne	ne	ne	ne	ne	230
La Sierra U.	642	ne	661	ne	ne	283	280	471	228	147	213
Rider U.	643	442	373	550	823	830	754	635	620	541	198
Jacksonville State U.	644	398	624	ne	ne	ne	197	457	363	380	167

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2019 R&D expenditures: FYs 2010–19

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
All other surveyed institutions	-	1,315,507	1,706,489	1,651,715	1,595,382	931,663	940,564	928,493	964,656	994,533	0

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

^a Johns Hopkins University includes the Applied Physics Laboratory, with \$1,725,018 thousand in total R&D expenditures in science and engineering fields in FY 2019.

^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.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2019 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.