

TABLE 20

Higher education R&D expenditures, 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	-	61,286,610	65,274,393	65,729,007	67,013,138	67,199,090	68,549,882	71,736,098	75,133,630	79,014,076	83,496,348
Johns Hopkins U. ^a	1	2,004,482	2,145,308	2,106,185	2,168,568	2,242,478	2,305,679	2,431,180	2,562,307	2,661,033	2,917,436
U. Michigan, Ann Arbor	2	1,184,445	1,279,123	1,322,711	1,375,117	1,349,262	1,369,278	1,436,448	1,530,139	1,600,869	1,675,805
U. California, San Francisco	3	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. Pennsylvania	4	836,322	886,036	847,077	828,422	828,350	864,068	1,296,429	1,374,293	1,441,931	1,506,285
U. Washington, Seattle	5	1,022,740	1,148,533	1,109,008	1,192,513	1,176,340	1,180,563	1,277,679	1,348,220	1,413,902	1,425,601
U. California, San Diego	6	943,219	1,009,378	1,073,864	1,075,554	1,067,388	1,101,466	1,087,117	1,133,454	1,265,196	1,353,763
U. California, Los Angeles	7	936,995	982,357	1,003,375	966,659	948,197	1,021,227	1,037,528	1,076,917	1,318,110	1,306,376
U. Wisconsin-Madison	8	1,029,295	1,111,642	1,169,779	1,123,501	1,108,564	1,069,077	1,157,680	1,193,413	1,205,518	1,297,331
Harvard U.	9	583,361	649,774	799,432	1,012,766	933,975	1,013,753	1,077,253	1,123,160	1,173,371	1,239,736
Duke U.	10	983,289	1,022,207	1,009,911	992,821	1,036,813	1,036,698	1,055,778	1,126,924	1,167,611	1,226,517
Stanford U.	11	839,839	907,971	903,238	945,450	959,247	1,022,551	1,066,269	1,109,708	1,157,597	1,204,116
U. North Carolina, Chapel Hill	12	755,284	869,174	884,791	973,007	989,766	966,781	1,045,338	1,102,063	1,136,158	1,153,773
Cornell U.	13	749,721	781,651	802,387	845,184	883,292	954,412	974,199	984,478	1,071,621	1,144,534
U. Maryland ^b	14	na	na	na	na	na	na	na	na	na	1,096,600
U. Pittsburgh, Pittsburgh	15	822,491	899,386	866,638	872,736	856,806	861,205	889,793	939,706	1,006,513	1,080,951
Yale U.	16	623,510	656,967	656,555	788,784	772,840	803,004	881,765	951,084	990,399	1,072,309
U. Minnesota, Twin Cities	17	786,074	847,419	826,173	858,378	876,870	880,618	910,181	921,681	954,683	1,013,112
Massachusetts Institute of Technology	18	677,138	723,610	824,130	900,524	908,017	930,719	946,159	952,017	964,336	1,009,466
Columbia U. in the City of New York	19	807,235	878,900	889,487	889,188	890,642	868,159	837,312	893,062	947,504	1,003,615
U. Texas M. D. Anderson Cancer Center	20	599,529	663,279	685,814	718,096	794,980	833,406	852,095	888,029	929,710	969,496
Georgia Institute of Technology	21	615,833	655,375	688,905	730,488	725,550	765,370	790,706	804,301	891,728	960,167
Texas A&M U., College Station and Health Science Center	22	689,624	705,720	693,421	820,015	854,214	866,678	892,718	905,474	922,178	952,156
Pennsylvania State U., University Park and Hershey Medical Center	23	770,449	794,846	797,679	837,880	800,773	791,031	825,561	854,815	908,708	949,679
New York U.	24	365,944	430,752	458,645	471,909	523,623	602,041	809,739	917,744	887,558	934,720
Ohio State U.	25	755,194	832,126	766,513	793,373	815,075	817,881	818,464	864,327	875,014	929,250
U. Florida	26	681,548	739,931	696,985	695,063	708,526	739,522	791,294	801,418	865,093	928,639
U. Southern California	27	592,791	603,294	623,544	645,636	687,222	691,031	702,866	764,322	891,625	909,683
Washington U., Saint Louis	28	695,974	725,039	706,410	684,847	664,752	694,069	741,115	754,462	816,139	887,088
Northwestern U.	29	575,078	618,980	631,078	639,781	645,333	656,167	713,491	751,809	805,672	857,069
U. California, Davis	30	679,915	707,896	713,292	725,734	711,721	721,077	741,892	738,347	788,832	804,282
U. California, Berkeley	31	694,049	707,945	730,348	727,002	744,343	788,505	774,255	770,822	796,505	802,931

TABLE 20

Higher education R&D expenditures, 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
Emory U.	32	529,453	547,316	565,766	575,943	558,600	585,210	614,527	664,888	712,417	794,928
Vanderbilt U. and Vanderbilt U. Medical Center	33	504,959	566,031	560,466	571,603	683,890	647,816	640,842	712,036	738,620	776,937
U. Arizona	34	586,647	610,565	625,365	629,466	588,088	606,219	604,464	622,200	687,066	734,270
Michigan State U.	35	431,373	454,248	507,061	515,707	526,906	558,248	613,369	694,917	715,290	725,708
Icahn School of Medicine at Mount Sinai	36	370,666	405,527	400,680	428,654	463,429	508,353	540,296	575,448	640,141	722,241
U. Texas, Austin	37	589,502	632,171	621,538	634,132	585,251	604,376	621,692	652,187	679,781	696,111
U. Illinois, Urbana-Champaign	38	515,133	545,669	583,754	743,487	621,733	639,817	625,180	642,084	652,709	677,523
Indiana U., Bloomington	39	177,520	184,096	184,486	197,897	206,039	485,076	508,766	540,421	566,907	668,157
Purdue U., West Lafayette	40	548,980	578,231	602,501	595,739	564,923	558,611	606,302	622,813	631,574	663,927
Rutgers, State U. New Jersey, New Brunswick	41	428,432	432,306	434,901	493,320	644,116	628,613	630,212	681,719	706,282	657,249
Baylor C. of Medicine	42	447,874	466,061	474,700	508,799	496,314	520,220	572,527	604,952	623,396	651,920
Arizona State U.	43	329,345	355,215	385,959	405,154	426,651	458,412	518,239	545,016	617,717	639,637
U. Virginia, Charlottesville	44	276,308	398,096	383,359	385,828	358,576	373,218	397,458	469,682	551,761	613,938
U. Alabama, Birmingham	45	489,845	503,698	453,779	440,796	428,563	516,229	537,825	561,851	588,207	607,863
U. Utah	46	379,200	414,316	430,056	494,058	486,140	518,928	350,212	380,295	552,306	601,133
U. Colorado Denver and Anschutz Medical Campus	47	389,461	417,587	431,977	409,443	411,020	410,081	443,705	480,598	525,531	542,732
Virginia Polytechnic Institute and State U.	48	398,169	450,058	454,417	496,169	513,149	504,282	521,773	522,425	531,636	541,969
North Carolina State U.	49	360,795	378,154	404,225	417,468	446,112	468,293	489,918	500,445	509,841	541,100
Boston U.	50	352,817	355,916	334,496	368,281	367,328	388,336	395,921	421,360	484,205	534,205
U. Cincinnati	51	411,269	448,936	433,668	438,642	422,873	436,028	430,579	455,250	480,095	529,796
U. Colorado Boulder	52	349,449	390,677	392,004	385,849	379,475	420,775	453,123	499,389	514,573	513,822
U. Iowa	53	444,034	443,893	446,429	435,377	449,147	443,218	473,362	494,280	511,973	508,353
U. Texas Southwestern Medical Center	54	419,220	431,883	435,085	440,620	434,627	438,824	442,666	461,797	474,260	496,697
U. Georgia	55	295,339	335,901	351,395	350,225	355,471	374,264	410,345	455,432	453,249	477,536
U. Chicago	56	437,721	453,562	419,631	402,621	390,082	412,536	420,997	433,328	423,993	459,171
U. California, Irvine	57	327,594	344,678	350,030	347,773	340,056	329,798	345,319	361,414	426,610	448,967
Case Western Reserve U.	58	418,164	429,206	431,090	425,788	419,011	401,527	405,655	408,609	434,441	438,994
Scripps Research Institute	59	387,298	400,768	398,673	399,899	386,231	384,161	364,670	354,582	396,839	427,734
Uniformed Services U. of the Health Sciences	60	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.	61	314,990	334,324	305,530	308,767	314,802	326,915	331,524	348,449	372,180	415,629
SUNY, U. Buffalo	62	349,670	353,172	360,226	387,863	386,562	382,935	389,569	401,591	410,220	413,817

TABLE 20

Higher education R&D expenditures, 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. Kentucky	63	359,944	372,932	360,776	339,764	328,239	331,705	349,661	378,374	393,034	410,581
California Institute of Technology	64	362,172	377,514	379,713	347,105	367,182	374,424	371,060	400,312	391,003	399,931
Colorado State U., Fort Collins	65	302,896	330,784	375,919	313,238	307,978	317,219	331,862	338,404	374,955	398,477
U. Rochester	66	414,655	429,034	389,612	389,355	353,419	346,932	346,165	353,003	370,645	393,960
U. South Florida, Tampa	67	385,029	394,963	443,206	459,409	488,641	485,354	505,965	557,889	385,686	391,325
Princeton U.	68	242,570	263,335	275,666	269,908	293,274	279,851	307,653	334,125	365,007	385,739
U. Illinois, Chicago	69	362,939	380,828	388,625	367,848	347,888	354,560	337,296	372,619	361,690	382,949
Washington State U.	70	304,352	320,510	335,930	341,082	326,414	333,134	334,082	356,901	360,522	369,333
U. Miami	71	280,671	323,486	365,301	344,757	345,805	331,036	358,441	367,877	357,104	360,716
Carnegie Mellon U.	72	222,790	242,882	255,933	271,277	251,222	242,004	319,168	328,100	331,383	359,720
Iowa State U.	73	250,120	267,641	260,995	266,596	313,263	306,125	328,385	323,584	361,206	358,474
SUNY, Polytechnic Institute	74	na	na	na	na	412,851	295,313	316,680	308,861	257,358	352,889
U. Kansas	75	267,961	274,727	286,262	298,498	301,534	311,383	297,933	300,319	339,046	352,643
Rockefeller U.	76	265,750	272,491	292,896	298,474	316,368	323,932	335,136	348,845	353,142	351,089
Dartmouth C. and Dartmouth Hitchcock Medical Center	77	194,141	210,631	195,930	201,591	212,606	209,646	233,636	308,445	323,927	342,142
Florida State U.	78	227,329	230,411	225,378	250,877	252,548	256,449	268,288	282,901	297,661	329,205
U. Nebraska, Lincoln	79	224,135	235,296	253,321	266,507	278,299	284,438	294,856	302,204	308,053	316,820
U. Oklahoma, Norman and Health Science Center	80	218,089	249,297	240,974	255,674	253,344	242,367	259,998	272,239	283,638	302,679
Albert Einstein C. of Medicine	81	na	na	na	na	na	na	289,660	289,685	297,328	298,824
Louisiana State U., Baton Rouge	82	289,872	287,841	285,395	283,400	290,076	281,154	291,972	265,168	286,726	296,497
Medical U. South Carolina	83	224,632	213,346	236,586	245,451	242,594	243,534	260,098	262,267	282,253	295,600
U. Connecticut	84	237,908	253,792	256,854	242,251	258,056	259,397	265,522	267,647	269,685	285,764
Temple U.	85	124,528	134,533	138,318	224,087	224,101	227,468	246,392	268,385	276,011	284,301
Utah State U.	86	149,169	174,167	157,355	158,352	169,605	175,353	180,590	187,314	219,397	283,917
U. Massachusetts, Medical School	87	232,039	262,714	256,090	245,923	241,869	250,338	253,099	279,884	274,211	281,507
U. Hawaii, Manoa	88	303,085	318,316	312,311	326,750	324,342	316,497	304,476	292,021	276,388	280,416
U. Missouri, Columbia	89	238,500	230,957	239,810	236,423	237,266	246,684	248,300	253,952	256,183	278,793
U. Texas Health Science Center, Houston	90	240,772	261,172	236,250	233,256	233,737	234,299	237,016	246,060	258,411	271,525
George Washington U.	91	196,917	197,621	196,448	202,428	227,995	241,117	231,829	245,519	260,656	269,799
Mississippi State U.	92	231,675	226,070	233,197	206,424	209,729	226,359	239,446	240,972	244,102	264,526
Oregon State U.	93	216,595	228,814	240,507	232,677	230,963	245,317	254,275	267,068	272,433	263,830
SUNY, Stony Brook U.	94	204,728	211,356	219,744	225,712	211,631	220,580	230,621	238,612	245,016	260,813
Brown U.	95	335,838	344,090	365,120	361,010	341,531	342,040	347,016	212,290	244,838	256,954
Virginia Commonwealth U.	96	197,709	207,756	201,366	196,015	201,858	218,925	225,999	235,464	246,190	255,648

TABLE 20

Higher education R&D expenditures, 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. Tennessee, Knoxville	97	150,671	167,456	179,252	193,054	179,041	173,533	183,268	203,800	259,607	247,693
Medical C. Wisconsin	98	191,816	215,358	209,040	201,237	199,713	199,283	199,925	209,618	229,436	244,752
Wayne State U.	99	254,492	259,895	227,070	224,331	218,435	213,878	221,537	227,728	238,859	244,217
U. California, Santa Barbara	100	225,730	230,435	233,883	236,497	231,322	222,870	230,139	238,246	235,164	243,778
Georgetown U.	101	159,355	169,916	180,308	178,995	172,726	176,131	183,788	212,319	221,449	240,960
U. Notre Dame	102	110,369	134,410	157,691	175,220	182,228	190,954	202,216	212,823	219,993	240,078
U. New Mexico	103	211,771	220,565	220,360	227,703	228,849	232,271	239,550	246,597	251,322	239,696
Wake Forest U.	104	192,034	209,134	204,328	182,721	176,380	171,926	170,006	182,227	191,371	238,933
Auburn U., Auburn	105	145,115	163,335	133,013	147,229	142,487	135,899	152,381	190,340	212,925	231,619
Woods Hole Oceanographic Institution	106	181,746	198,775	204,352	198,232	220,016	216,592	212,374	194,088	204,400	229,143
Florida International U.	107	110,271	110,006	118,058	128,070	132,531	163,033	170,846	177,292	196,180	225,864
U. Central Florida	108	117,985	109,190	116,891	126,681	185,555	215,519	198,211	200,387	215,332	225,085
U. Massachusetts, Amherst	109	169,141	181,297	194,775	190,739	200,199	213,902	214,576	210,416	211,140	223,177
Clemson U.	110	174,693	166,350	142,096	152,444	161,070	171,215	183,965	193,268	213,458	218,760
Kansas State U.	111	160,679	169,167	176,141	183,096	184,945	188,721	193,254	196,478	218,299	218,622
Tufts U.	112	156,106	156,395	160,922	156,525	160,825	168,314	189,085	223,409	213,457	213,285
U. Delaware	113	153,311	169,746	170,174	179,967	175,563	175,724	176,295	183,428	186,192	206,270
U. South Carolina, Columbia	114	229,145	201,592	214,901	203,365	206,173	208,736	209,271	208,670	206,355	205,940
Tulane U.	115	165,513	171,703	164,373	160,414	157,825	152,658	165,438	180,993	193,294	196,933
Georgia State U.	116	81,015	92,725	91,148	111,999	123,915	139,596	161,314	200,171	201,235	195,572
U. Houston	117	119,811	113,709	116,288	130,844	140,597	150,628	162,049	169,431	177,484	195,398
U. Nebraska, Medical Center	118	138,219	133,036	141,619	137,485	139,126	145,009	150,694	171,491	177,245	194,455
Texas Tech U.	119	133,360	149,399	138,026	142,676	159,308	163,897	172,521	191,482	185,742	193,923
U. Texas Health Science Center, San Antonio	120	207,115	198,655	184,298	175,983	172,716	170,277	194,885	169,200	179,219	188,483
West Virginia U.	121	154,926	166,420	169,303	167,144	164,454	170,145	172,477	185,606	185,110	187,512
George Mason U.	122	84,120	88,089	90,198	95,913	98,680	106,410	108,899	112,404	149,138	186,267
Oklahoma State U., Stillwater	123	147,094	162,786	166,523	134,500	126,543	129,968	181,617	189,024	188,756	184,276
Northeastern U.	124	79,949	86,783	107,862	116,088	116,245	122,915	129,040	142,349	166,711	183,998
Rice U.	125	97,903	110,235	117,223	131,003	138,536	144,679	154,543	167,277	161,831	182,564
SUNY, U. Albany	126	359,364	148,625	137,758	137,759	130,955	111,705	120,232	156,386	173,031	181,531
U. Arkansas, Fayetteville	127	113,909	120,007	123,199	125,501	125,824	133,660	145,020	157,791	175,498	180,225
U. California, Riverside	128	130,288	132,238	135,494	132,617	133,558	144,511	152,233	163,632	167,847	177,655
U. Texas Medical Branch	129	188,399	193,555	180,888	180,198	178,014	173,506	179,541	185,106	181,831	175,372
U. Louisville	130	189,090	197,438	196,842	186,772	183,376	163,262	172,907	177,588	176,655	173,462
Thomas Jefferson U.	131	103,064	104,923	100,506	89,273	118,378	119,631	122,396	142,569	148,573	170,458

TABLE 20

Higher education R&D expenditures, 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. Dayton	132	93,309	90,557	81,030	84,252	86,881	98,182	116,589	135,214	147,001	165,343
New Jersey Institute of Technology	133	92,318	100,491	102,851	107,310	106,081	110,512	130,812	142,164	162,349	161,232
U. Mississippi	134	110,020	122,765	121,731	108,168	109,922	94,040	121,665	134,542	137,521	158,809
Montana State U., Bozeman	135	135,084	125,966	124,228	113,136	113,348	108,414	112,073	129,622	125,129	154,811
Syracuse U.	136	107,024	83,686	85,649	70,967	66,321	69,896	84,651	145,705	147,751	154,366
U. Arkansas for Medical Sciences	137	119,518	122,066	129,056	133,677	131,438	132,451	125,378	128,508	139,187	153,135
North Dakota State U.	138	126,419	134,064	135,493	150,173	154,437	153,542	156,297	153,119	145,669	152,381
U. Nevada, Reno	139	95,423	89,740	85,726	89,797	87,324	90,138	95,475	105,869	144,426	152,128
Drexel U.	140	118,349	115,020	116,768	123,813	131,170	128,027	127,909	138,577	155,908	149,481
U. New Hampshire	141	115,562	143,002	165,156	147,446	147,544	144,735	145,015	145,375	146,430	148,980
U. Alaska, Fairbanks	142	161,986	165,530	160,407	162,658	155,769	142,742	144,259	152,694	140,917	144,457
U. Louisiana, Lafayette	143	69,412	69,978	65,275	61,887	67,580	77,300	80,099	100,956	124,713	144,187
U. California, Santa Cruz	144	143,919	155,617	155,516	150,777	151,734	151,713	151,192	124,344	127,538	142,958
U. Vermont	145	129,856	132,356	115,697	115,486	109,701	114,547	115,611	117,667	128,293	135,859
U. Maine	146	111,282	111,600	92,135	77,583	101,247	79,500	79,222	99,502	106,694	129,913
Wichita State U.	147	51,524	63,538	61,279	61,388	58,859	59,940	65,930	78,514	81,137	128,795
Cold Spring Harbor Laboratory	148	ne	89,913	84,072	78,236	76,733	84,653	88,943	97,288	115,870	126,773
U. Texas, Dallas	149	82,044	93,230	90,700	98,842	99,727	98,551	106,205	113,205	113,315	126,661
U. Texas, Arlington	150	71,414	72,483	78,556	86,735	89,175	77,798	87,386	97,197	105,688	123,207
U. Rhode Island	151	90,016	102,630	114,323	101,898	91,706	93,828	97,900	101,871	104,490	115,160
U. Idaho	152	87,207	96,229	97,227	95,891	95,594	97,493	102,457	109,537	111,590	113,107
U. North Dakota	153	76,560	74,882	80,149	68,942	67,595	64,384	70,275	102,823	109,865	110,836
U. Oregon	154	94,107	103,019	105,030	94,522	91,203	79,698	100,754	95,974	111,896	110,664
U. Alabama, Huntsville	155	75,683	75,724	87,388	101,016	89,325	88,439	96,865	94,376	99,405	109,744
U. Texas, El Paso	156	68,870	74,069	79,649	83,249	79,537	89,418	91,330	94,565	91,032	106,809
U. Montana, Missoula	157	63,540	60,159	59,313	60,189	55,032	60,485	70,059	85,044	90,563	104,665
SUNY, Binghamton U.	158	72,057	72,539	81,000	76,005	71,382	79,895	85,192	98,089	113,851	104,297
Rensselaer Polytechnic Institute	159	83,952	84,834	92,720	92,495	105,608	102,841	101,127	104,797	100,856	103,739
New Mexico State U.	160	157,872	139,062	141,151	142,365	134,262	132,377	106,282	102,218	96,270	101,457
U. Nevada, Las Vegas	161	44,457	39,526	34,543	35,935	39,448	42,000	62,825	66,285	83,800	99,445
U. Tennessee, Health Science Center	162	81,904	81,220	77,754	71,902	67,841	65,771	71,547	73,393	79,460	96,979
Augusta U.	163	na	na	na	64,033	64,118	67,737	71,338	99,661	99,081	96,502
Rush U.	164	73,398	79,212	80,300	81,770	80,551	79,048	73,351	74,062	89,101	96,267
San Diego State U.	165	99,137	106,591	92,867	86,733	95,674	93,572	90,722	89,187	88,177	92,964
U. Texas, San Antonio	166	56,279	58,667	57,233	53,626	47,061	54,949	59,831	70,163	72,682	84,326

TABLE 20

Higher education R&D expenditures, 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	59,345	60,013	60,624	63,136	64,591	70,384	68,494	69,677	72,266	83,996
U. Alabama, Tuscaloosa	168	40,762	53,633	55,885	55,443	53,140	58,234	62,549	63,282	71,992	83,317
U. Maryland, Baltimore County	169	87,156	91,657	74,993	71,819	67,833	68,688	70,166	70,406	71,481	80,632
Michigan Technological U.	170	63,471	70,089	71,989	70,689	68,526	69,607	72,536	71,629	78,678	80,443
U. Wyoming	171	55,319	57,549	65,611	65,490	51,422	56,996	112,056	125,032	113,063	80,353
Cleveland State U.	172	34,235	55,502	61,111	67,378	61,783	57,662	77,720	83,762	83,641	80,077
U. North Texas, Denton	173	31,496	42,475	46,943	49,518	44,180	43,628	37,106	43,789	44,025	78,691
U. Southern Mississippi	174	42,059	46,591	60,079	51,962	51,938	51,840	59,363	61,659	61,336	76,464
U. Tennessee, Knoxville, Institute of Agriculture	175	59,212	62,786	68,480	67,887	67,171	67,059	69,136	70,192	70,305	71,396
American U.	176	39,747	46,611	43,526	61,087	63,628	58,325	57,064	56,034	61,741	71,053
Colorado School of Mines	177	44,879	48,704	58,836	59,091	59,695	58,349	60,931	59,477	60,372	70,397
U. California, Office of the President	178	72,542	63,420	65,627	67,447	50,103	48,341	39,051	46,399	55,676	67,702
Indiana U.-Purdue U., Indianapolis	179	296,194	322,617	316,914	332,760	324,261	55,973	57,853	58,056	60,501	67,635
Old Dominion U.	180	97,176	102,192	104,579	99,138	67,037	65,092	70,054	67,990	60,321	67,425
Naval Postgraduate School	181	103,510	101,363	132,450	94,880	99,032	89,170	65,529	60,386	59,213	67,323
South Dakota State U.	182	67,552	69,680	68,743	63,843	58,334	58,373	60,677	63,412	63,465	66,794
Saint Louis U.	183	46,839	53,179	49,086	48,231	44,481	44,457	42,151	56,402	60,380	66,103
William & Mary	184	57,461	58,919	55,805	57,940	59,015	61,554	63,027	64,127	65,269	64,835
Texas State U.	185	30,560	33,487	36,664	37,053	39,265	47,694	54,298	60,741	64,322	64,554
Wright State U.	186	48,575	48,501	46,213	50,489	54,985	54,289	55,484	59,379	68,035	64,208
U. Massachusetts, Boston	187	56,416	57,040	60,086	60,380	61,186	62,374	64,223	70,019	61,473	62,018
Boston C.	188	50,537	52,253	51,442	50,702	49,724	47,761	54,469	58,088	57,030	61,956
Van Andel Research Institute	189	ne	ne	ne	ne	ne	40,502	40,040	44,578	55,171	61,738
Brandeis U.	190	71,006	74,889	74,660	76,060	74,992	74,700	73,435	68,437	61,639	60,825
Northern Arizona U.	191	28,803	30,785	28,100	30,516	31,590	35,206	39,580	46,253	52,899	58,914
U. Memphis	192	49,517	48,321	51,194	48,141	55,566	46,675	48,321	49,695	64,297	58,700
Rochester Institute of Technology	193	38,663	34,889	36,935	36,613	35,945	40,442	45,518	51,263	49,413	58,175
U. Maryland Center for Environmental Science	194	42,670	50,007	48,224	53,683	50,814	52,235	54,974	55,078	54,136	56,033
East Carolina U.	195	23,995	28,114	31,990	38,271	29,925	26,549	25,273	26,117	39,074	55,611
U. Toledo	196	70,399	74,149	68,228	69,072	61,900	52,354	50,019	50,030	50,320	55,006
U. Wisconsin-Milwaukee	197	71,181	65,648	61,771	56,587	60,752	63,414	59,813	54,181	55,771	53,773
Ohio U.	198	50,440	57,643	57,203	59,734	60,800	61,078	59,117	61,092	53,303	53,735
CUNY, City C.	199	46,699	60,648	57,982	55,138	52,654	53,223	62,484	54,627	53,979	52,738
U. South Alabama	200	35,500	42,233	40,172	40,590	41,681	43,722	46,670	41,431	41,056	52,540

TABLE 20

Higher education R&D expenditures, 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. Texas Rio Grande Valley	201	na	na	na	na	na	na	31,007	29,500	27,125	52,016
Florida Atlantic U.	202	56,472	62,024	65,377	23,967	22,997	21,214	26,750	46,025	48,024	51,085
U. North Texas, Health Science Center	203	38,862	45,943	46,865	44,904	47,002	46,335	50,567	48,476	49,503	50,124
Portland State U.	204	56,533	58,975	58,489	55,435	54,787	53,872	56,572	48,964	46,911	50,045
Kent State U.	205	26,331	27,455	26,507	23,149	25,666	38,069	34,661	42,003	42,792	47,188
U. North Carolina, Charlotte	206	31,814	27,533	25,141	24,764	23,342	24,870	27,815	26,097	39,888	47,187
U. Puerto Rico, Medical Sciences Campus	207	39,134	64,017	45,649	43,374	40,444	43,316	46,232	42,423	41,216	45,014
U. California, Merced	208	21,591	21,328	22,656	22,909	23,916	29,688	29,370	35,093	38,226	44,890
San Jose State U.	209	38,241	40,149	34,727	38,326	43,509	45,037	41,662	39,192	41,366	44,309
Howard U.	210	40,080	42,341	45,486	42,789	40,771	47,322	41,038	45,768	45,965	44,163
Mercer U.	211	27,298	29,039	31,376	28,892	30,209	32,838	31,735	29,447	34,197	44,128
Texas Tech U., Health Sciences Center	212	51,282	58,774	61,219	61,412	38,015	40,438	40,235	39,767	37,819	44,072
U.S. Air Force Academy	213	62,097	73,607	56,044	57,164	44,663	38,326	55,358	48,287	35,925	43,941
Southern Methodist U.	214	18,742	24,453	24,397	22,544	32,401	29,282	31,819	29,879	31,140	42,562
Florida A&M U.	215	53,474	53,326	52,263	51,149	46,367	46,522	45,390	37,578	39,682	42,470
U. West Florida	216	17,757	21,710	16,221	19,332	19,579	31,232	40,815	35,054	41,035	41,977
Missouri U. of Science and Technology	217	42,263	41,581	38,588	40,397	39,065	35,842	35,756	38,243	42,986	41,939
Southern Illinois U., Carbondale	218	69,924	71,130	71,097	70,854	65,256	57,509	53,172	48,416	49,636	41,729
Louisiana State U., Health Sciences Center, New Orleans	219	59,776	57,007	53,712	49,443	45,486	46,840	43,067	40,785	38,989	40,914
Worcester Polytechnic Institute	220	18,613	22,137	20,232	25,298	29,929	36,130	37,822	33,368	33,067	39,878
Boise State U.	221	18,731	24,204	27,920	25,690	26,568	31,341	32,085	34,992	41,382	39,824
Brigham Young U., Provo	222	32,997	37,142	33,843	36,562	38,051	39,126	42,304	43,406	40,755	39,582
Loyola U., Chicago	223	43,903	42,708	45,903	51,676	50,774	48,664	42,672	39,738	39,332	39,223
Lehigh U.	224	37,332	32,086	31,992	35,220	37,066	36,788	32,941	36,969	38,674	38,185
SUNY, Upstate Medical U.	225	43,824	39,988	35,897	34,286	33,460	32,453	31,892	35,551	36,674	38,091
Marquette U.	226	14,310	19,876	18,606	20,856	23,633	24,816	28,422	30,034	32,471	37,777
CUNY, Hunter C.	227	38,900	39,772	41,022	40,059	38,879	36,368	37,094	31,273	33,702	37,478
North Carolina Agricultural and Technical State U.	228	35,297	34,930	35,103	33,994	35,047	35,172	33,759	37,379	38,140	37,339
Stevens Institute of Technology	229	35,544	41,622	31,929	28,908	30,826	34,082	35,765	35,144	33,060	36,695
U. Denver	230	15,748	17,004	15,237	19,262	18,183	16,116	21,326	22,289	27,270	36,551
SUNY, Downstate Medical Center	231	32,512	41,993	43,257	39,354	33,331	28,652	33,735	31,873	34,661	36,015
Illinois Institute of Technology	232	36,554	44,463	32,576	36,722	31,356	34,336	29,826	32,659	33,280	34,334

TABLE 20

Higher education R&D expenditures, 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
Air Force Institute of Technology	233	31,259	31,879	32,746	27,592	23,902	26,866	29,998	35,733	33,360	34,016
Baylor U.	234	10,925	12,343	10,161	13,616	20,729	24,642	26,767	29,400	31,936	33,304
Texas A&M U.-Corpus Christi	235	17,266	17,509	15,776	17,418	21,321	24,507	24,786	27,993	30,253	32,944
U. South Dakota	236	30,616	28,959	31,982	33,187	30,700	25,661	25,864	28,358	30,943	32,028
San Francisco State U.	237	25,615	26,198	30,291	33,885	29,457	26,345	28,273	29,940	30,903	31,888
Morehouse School of Medicine	238	30,669	i 33,946	37,586	36,638	41,858	33,367	38,774	36,925	33,215	31,289
California Polytechnic State U., San Luis Obispo	239	19,732	16,532	17,412	16,067	15,096	16,312	18,081	17,979	16,352	30,923
Kennesaw State U.	240	1,854	1,961	3,511	i 5,062	2,192	4,762	8,279	9,510	11,214	30,381
U. Akron	241	52,884	60,352	66,413	69,640	69,528	58,512	58,817	41,326	32,582	30,020
SUNY, C. of Environmental Science and Forestry	242	26,916	25,024	i 23,132	i 21,239	19,027	22,051	24,504	27,923	26,610	29,137
U. Massachusetts, Dartmouth	243	25,725	25,644	22,732	27,326	28,219	26,776	26,824	26,102	26,626	28,036
U. Minnesota, Duluth	244	21,150	23,400	21,530	21,383	21,904	27,550	27,528	24,956	25,189	27,530
Illinois State U.	245	18,417	17,833	17,760	17,589	19,159	18,742	20,408	20,080	21,055	27,082
Eastern Virginia Medical School	246	44,420	36,569	37,745	44,183	43,917	42,296	32,550	28,671	30,010	27,064
Desert Research Institute	247	34,367	35,331	33,056	27,695	23,778	22,103	29,422	29,440	27,875	26,991
U. Puerto Rico, Mayaguez	248	26,475	34,424	32,115	29,225	27,152	28,100	25,491	26,130	24,769	26,877
U. Missouri, Kansas City	249	30,163	32,769	29,227	28,829	29,164	26,595	26,292	25,123	25,136	26,708
Rutgers, State U. New Jersey, Newark	250	27,745	35,774	34,797	37,134	28,083	24,387	21,492	25,898	27,206	26,661
Northern Illinois U.	251	27,036	21,748	21,823	23,027	16,427	17,722	21,225	19,150	23,280	26,570
U. North Carolina, Greensboro	252	22,436	26,121	19,080	16,590	20,723	23,026	23,965	23,231	22,743	26,325
Louisiana State U., Health Sciences Center, Shreveport	253	30,817	31,021	29,365	28,266	25,004	24,069	23,353	22,560	24,463	26,262
Louisiana Tech U.	254	26,020	27,583	26,546	24,949	22,942	23,827	23,104	22,741	24,655	26,143
Western Michigan U. and Homer Stryker M.D. School of Medicine	255	26,391	25,051	21,073	18,979	18,942	19,679	18,927	22,372	21,184	25,071
Teachers C., Columbia U.	256	17,167	18,406	20,805	19,649	20,538	23,269	24,124	24,194	24,477	24,865
New Mexico Institute of Mining and Technology	257	51,696	43,857	37,875	32,499	48,338	26,265	19,598	20,491	21,383	24,616
Nova Southeastern U.	258	10,116	12,322	12,908	12,712	13,716	14,775	19,559	22,508	23,296	24,567
Catholic U. of America	259	21,454	25,397	24,971	23,235	22,331	24,265	25,139	24,282	25,497	24,484
Loma Linda U.	260	35,990	39,409	31,772	31,715	23,375	25,519	22,977	21,846	22,922	i 24,408
U. Puerto Rico, Rio Piedras	261	30,515	32,582	33,099	29,234	28,793	28,579	23,491	21,204	17,085	24,088
Creighton U.	262	27,700	31,443	32,594	29,983	25,560	23,825	23,510	24,315	20,587	24,039
California State U., Sacramento	263	15,207	16,344	14,053	15,564	13,136	17,930	20,676	21,106	21,429	23,544
Albany Medical C.	264	22,953	20,876	17,735	15,093	16,093	18,043	20,166	20,443	21,187	23,028

TABLE 20

Higher education R&D expenditures, 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
Delaware State U.	265	15,200	19,019	15,668	17,295	17,679	15,980	21,320	20,793	21,377	23,017
Rowan U.	266	2,987	3,247	3,783	3,407	8,202	8,044	10,212	12,856	16,247	22,892
Villanova U.	267	10,066	10,044	8,547	7,049	13,700	14,512	14,903	19,037	20,730	22,837
Miami U.	268	26,521	26,093	26,311	23,924	21,216	16,108	16,057	17,239	19,658	22,380
Texas A&M U.-Kingsville	269	17,378	17,114	17,419	18,653	21,819	20,894	21,309	22,633	21,150	22,268
U. Alaska, Anchorage	270	16,709	18,620	20,194	20,255	17,150	17,436	19,883	20,861	21,096	21,724
California State U., Northridge	271	29,469	25,654	29,491	9,640	12,991	13,333	16,330	17,979	19,618	21,095
Tuskegee U.	272	15,581	15,685	15,991	21,150	24,945	20,740	16,535	16,535	16,535	20,562
Fordham U.	273	19,289	18,350	19,311	18,822	17,961	20,939	25,374	20,807	20,644	20,287
Marshall U.	274	24,501	26,723	18,998	19,617	20,382	19,936	20,687	18,348	20,050	19,622
Chapman U.	275	3,830	3,547	3,314	4,463	4,794	5,353	6,554	10,626	14,141	19,592
New York Medical C.	276	28,400	27,316	23,277	20,243	17,908	17,653	17,311	15,637	16,226	19,398
U. Nebraska, central administration	277	ne	ne	ne	ne	ne	ne	ne	ne	13,352	18,860
California State U., Long Beach	278	15,494	14,595	13,696	12,796	10,097	8,830	16,390	18,805	22,880	18,664
U. Tulsa	279	23,387	19,489	20,270	21,757	27,077	25,066	22,347	20,879	20,072	18,648
CUNY, Queens C.	280	16,845	23,219	22,399	19,762	23,434	19,092	19,168	15,936	16,676	18,391
Meharry Medical C.	281	27,001	29,055	25,559	22,532	18,997	13,998	14,768	16,782	16,980	18,286
Jackson State U.	282	44,862	49,998	46,943	36,264	26,609	23,908	23,832	22,790	19,465	18,160
Southern Illinois U., Edwardsville	283	31,781	33,736	26,992	25,807	18,915	19,051	18,780	17,393	18,420	18,088
Prairie View A&M U.	284	12,565	15,243	14,552	13,198	12,292	13,123	12,616	13,982	17,278	18,018
Northeast Ohio Medical U.	285	10,819	13,581	13,358	12,722	15,916	17,103	18,823	19,216	18,231	18,016
Oakland U.	286	12,856	15,868	18,194	16,767	15,196	17,108	16,001	14,561	13,817	18,002
Florida Institute of Technology	287	12,054	14,523	17,100	13,298	14,255	14,282	18,860	18,180	17,378	17,876
U. North Carolina, Wilmington	288	23,143	22,593	19,722	18,145	14,648	15,564	15,715	16,015	16,955	17,515
Clarkson U.	289	18,584	17,951	14,809	12,061	13,750	13,406	12,983	15,148	16,927	17,147
Central Michigan U.	290	7,483	8,671	10,907	12,879	15,015	12,880	14,166	14,652	15,616	17,102
Bowling Green State U.	291	8,124	8,999	8,566	13,157	8,861	7,995	14,460	14,333	17,991	17,026
Duquesne U.	292	15,804	16,814	15,547	15,661	15,025	16,159	17,089	17,197	17,420	16,947
U. Texas Health Science Center, Tyler	293	ne	ne	ne	ne	ne	12,191	11,799	16,292	15,451	16,538
North Carolina Central U.	294	6,870	9,496	11,076	8,979	11,537	12,448	12,463	14,119	14,942	16,227
Rosalind Franklin U. of Medicine and Science	295	12,426	14,261	15,587	17,401	17,794	16,604	16,760	17,006	16,765	16,126
California State U., San Bernardino	296	4,188	11,591	9,303	11,942	13,582	15,317	10,771	12,924	16,702	16,062
U. New Orleans	297	35,021	35,359	28,450	24,607	20,614	18,960	15,719	15,939	14,437	15,328
Tennessee State U.	298	12,432	13,468	15,439	16,177	20,068	19,955	19,520	18,108	17,681	15,236

TABLE 20

Higher education R&D expenditures, 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
Humboldt State U.	299	9,845	9,570	9,510	8,025	8,306	11,218	16,143	15,969	15,044	15,076
Idaho State U.	300	20,495	21,450	21,179	22,147	20,610	17,866	20,447	18,564	18,081	14,972
Alcorn State U.	301	10,280	11,397	11,515	11,315	10,060	9,396	8,204	16,129	13,834	14,435
U. Nebraska, Omaha	302	8,951	9,509	8,376	9,181	9,222	9,422	10,459	12,061	12,943	14,302
East Tennessee State U.	303	9,869	10,249	11,213	8,919	7,836	6,930	7,982	9,493	14,043	14,197
Tennessee Technological U.	304	16,754	13,247	10,233	9,715	10,097	11,082	11,528	12,079	12,765	13,801
Charles R. Drew U. of Medicine and Science	305	22,152	22,150	20,580	18,547	20,686	14,128	13,360	15,652	11,490	13,739
U. Missouri, Saint Louis	306	14,628	18,461	19,356	20,869	18,618	12,061	13,460	12,042	12,266	13,697
U.S. Naval Academy	307	11,093	10,543	9,610	10,816	10,861	9,609	11,374	13,541	14,057	13,621
Hampton U.	308	14,455	12,414	15,356	12,641	11,169	14,895	14,225	16,482	14,424	13,605
New School	309	5,178	6,420	7,568	9,219	7,160	8,978	17,425	12,740	13,606	13,421
Morgan State U.	310	12,804	12,803	17,751	15,475	15,720	13,577	15,727	14,978	12,993	13,253
Tarleton State U.	311	10,763	10,426	9,393	9,722	10,996	9,825	9,404	10,893	12,503	13,171
South Dakota School of Mines and Technology	312	28,572	32,070	19,140	12,156	10,524	14,970	15,396	15,541	15,092	12,973
Alabama A&M U.	313	30,497	30,238	29,979	29,720	29,461	29,202	25,112	21,022	16,932	12,840
Montana Technological U.	314	7,424	6,705	11,765	11,059	11,348	11,595	11,851	13,059	12,666	12,731
Embry-Riddle Aeronautical U.	315	12,189	16,289	19,376	16,484	15,393	11,942	16,761	13,335	16,767	12,478
California State U., Los Angeles	316	7,714	8,823	7,192	7,659	5,172	5,010	5,371	8,274	9,594	12,476
U. Baltimore	317	4,229	5,944	5,556	5,448	4,990	5,022	5,798	6,851	10,556	12,451
U. North Florida	318	8,041	9,379	7,031	4,480	3,674	3,689	5,141	6,476	9,994	12,341
CUNY, John Jay C. of Criminal Justice	319	5,916	6,205	9,319	7,355	8,633	8,689	9,688	11,934	14,310	12,295
U. Guam	320	5,555	5,626	6,131	6,043	7,075	6,062	7,402	8,842	11,225	12,249
U. of the Virgin Islands	321	32,350	21,994	25,719	20,041	20,371	20,630	21,215	12,298	11,957	12,236
U. Hawaii, system office	322	ne	ne	ne	ne	ne	ne	ne	ne	12,340	12,159
Ball State U.	323	20,477	18,765	11,740	10,357	9,209	10,548	11,763	8,797	11,163	12,145
Western Washington U.	324	10,571	9,498	7,597	8,157	8,567	9,921	10,743	13,014	13,075	11,983
Texas Tech U., Health Sciences Center, El Paso	325	ne	ne	ne	ne	23,282	18,889	17,391	16,479	12,556	11,883
U. South Florida, Saint Petersburg	326	4,425	3,978	5,488	6,905	6,908	7,292	7,116	8,661	8,478	11,686
Virginia State U.	327	7,466	8,562	10,296	9,535	8,374	7,808	8,147	10,725	10,673	11,457
Ponce Health Sciences U.	328	8,934	10,502	11,586	7,241	5,710	7,520	7,992	8,664	7,857	11,390
Georgia Southern U.	329	3,704	3,912	5,719	18,069	20,245	17,152	17,395	16,084	12,978	11,166
U.S. Military Academy	330	22,171	13,799	12,227	11,630	14,819	15,312	13,500	13,617	13,582	10,765
Langston U.	331	4,492	5,206	5,326	4,932	8,512	8,126	11,178	11,025	10,872	10,719
California State U., San Marcos	332	5,788	6,795	7,802	8,809	8,302	6,432	6,634	6,549	8,348	10,595

TABLE 20

Higher education R&D expenditures, 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
Midwestern U.	333	3,626	4,022	5,200	6,292	7,310	8,560	7,732	9,207	10,173	10,343
Montclair State U.	334	2,255	3,621	5,123	4,568	4,266	4,274	5,207	5,796	7,980	10,225
Clark U.	335	7,111	6,861	7,260	5,693	6,168	7,050	6,970	8,453	8,318	10,193
Xavier U. Louisiana	336	8,029	9,849	10,606	8,789	9,346	9,588	12,084	12,424	11,784	10,152
William Paterson U.	337	1,051	1,452	ne	ne	ne	ne	1,919	3,012	9,456	10,122
U. Arkansas, Little Rock	338	11,007	12,039	10,500	13,107	8,068	7,003	7,604	6,833	8,167	9,975
Wesleyan U.	339	8,397	10,367	8,945	8,120	7,262	7,223	7,740	8,945	10,662	9,958
Bryn Mawr C.	340	7,476	8,388	9,837	9,452	9,143	11,692	10,867	11,146	10,282	9,846
St. Edward's U.	341	ne	7,160	5,906	8,040	3,975	9,515	9,325	10,149	10,431	9,650
CUNY, Graduate School of Public Health and Health Policy	342	na	na	na	na	na	na	na	na	9,751	9,521
Rhode Island C.	343	ne	8,027	10,389	10,385	8,938	10,080	9,943	9,030	9,287	9,480
Sam Houston State U.	344	7,555	5,816	4,349	4,608	3,996	3,086	3,266	3,658	7,152	9,445
Salisbury U.	345	3,503	1,852	6,891	6,959	7,923	7,960	8,473	7,731	9,119	9,368
Western Kentucky U.	346	9,943	8,344	10,639	9,322	8,280	7,854	8,926	10,814	9,617	9,281
U. Tennessee, Chattanooga	347	10,749	9,251	10,896	7,844	6,239	6,817	5,600	6,352	7,585	9,280
Clark Atlanta U.	348	8,515	8,245	10,406	9,159	9,192	9,945	8,513	8,007	7,833	9,048
U. Arkansas, Pine Bluff	349	8,343	9,415	9,082	8,911	8,198	8,425	8,873	8,136	8,349	9,024
Arkansas State U., Jonesboro	350	11,115	13,435	14,250	10,463	8,099	8,453	8,169	7,952	8,245	8,945
U. Michigan, Dearborn	351	6,779	7,554	6,015	6,846	8,176	7,802	7,904	8,315	8,094	8,813
Wellesley C.	352	8,422	7,242	8,439	9,113	10,127	9,595	11,664	10,326	11,530	8,810
Pacific U.	353	1,849	1,129	2,110	2,535	2,122	2,016	2,508	7,770	6,264	8,753
James Madison U.	354	7,038	7,303	8,891	5,835	4,628	3,712	3,303	3,248	4,191	8,726
Claremont Graduate U.	355	7,116	6,589	10,350	9,705	9,540	i 9,375	i 9,210	i 9,045	i 8,880	i 8,715
California State U., Fresno	356	8,698	8,597	8,359	7,682	8,109	8,624	8,586	8,102	8,988	8,599
Kentucky State U.	357	4,912	4,562	6,859	5,605	5,694	6,017	7,178	8,151	i 9,125	8,433
CUNY, Advanced Science Research Center	358	na	na	na	na	na	569	ne	3,541	5,666	8,310
Indiana U. Pennsylvania	359	1,376	1,736	1,809	1,280	938	ne	1,241	2,291	6,450	8,119
Norfolk State U.	360	5,944	7,140	8,336	6,431	6,936	5,348	7,593	7,296	6,914	8,050
U. Washington, Bothell	361	630	2,857	4,285	4,704	7,550	7,657	8,406	10,219	8,097	7,950
Middle Tennessee State U.	362	4,793	4,969	7,108	5,718	4,334	4,350	6,164	4,714	7,132	7,673
C. Charleston	363	14,218	8,320	9,579	10,224	10,034	10,607	10,189	8,927	7,375	7,610
California State U., Bakersfield	364	2,083	3,162	1,241	2,602	2,432	3,192	3,161	4,652	5,577	7,591
U. New England	365	3,560	4,016	5,224	6,637	7,650	7,498	7,566	8,064	6,700	7,346
Loyola Marymount U.	366	4,557	6,455	5,746	6,766	7,635	6,389	7,504	7,071	7,911	7,272

TABLE 20

Higher education R&D expenditures, 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
Edward Via C. of Osteopathic Medicine	367	ne	2,453	2,576	4,992	2,633	2,237	5,692	8,119	7,601	7,225
Eastern Michigan U.	368	14,133	11,643	12,437	3,128	1,428	1,761	3,815	6,281	6,600	7,175
California State U., Fullerton	369	21,776	28,186	22,222	18,478	7,919	5,611	5,755	5,510	6,348	7,173
U. Maryland, Eastern Shore	370	8,692	8,664	7,309	8,826	8,982	9,700	8,250	7,403	4,941	7,133
CUNY, Brooklyn C.	371	6,846	9,306	9,216	8,064	9,407	9,091	9,602	7,393	6,600	7,064
Seton Hall U.	372	4,003	7,701	6,398	6,489	6,675	7,058	7,244	7,272	6,536	7,056
U. Hawaii, Hilo	373	14,857	9,934	22,003	16,009	9,323	14,495	11,287	7,008	7,133	6,864
West Chester U. Pennsylvania	374	5,584	i 8,103	4,591	1,635	2,793	5,009	5,895	7,293	6,340	6,777
U. Southern Maine	375	16,358	16,938	13,915	11,725	9,408	i 7,091	i 4,773	7,147	7,414	6,654
Grand Valley State U.	376	5,044	6,429	i 7,814	i 9,202	8,198	7,453	6,764	6,917	6,968	6,592
Texas Christian U.	377	5,306	5,595	7,775	8,574	7,872	8,007	6,589	7,255	5,808	6,552
California State U., Monterey Bay	378	5,305	6,959	6,567	6,129	4,787	5,492	5,680	5,397	5,799	6,444
U. Oklahoma, Tulsa	379	ne	ne	ne	ne	ne	4,104	4,962	4,487	6,233	6,373
Amherst C.	380	3,628	4,623	5,448	i 6,275	4,308	4,412	4,260	4,070	4,849	6,325
Claremont McKenna C.	381	5,725	5,316	5,365	i 5,414	i 5,463	i ne	6,094	5,818	5,693	6,214
DePaul U.	382	4,889	5,798	5,706	5,524	6,415	9,479	9,558	8,561	7,079	6,144
California State Polytechnic U., Pomona	383	6,493	7,198	6,597	6,988	5,455	4,611	5,254	5,863	8,043	6,099
Texas A&M International U.	384	2,428	3,121	3,344	3,674	3,441	2,917	3,742	4,745	5,735	6,068
Smith C.	385	4,613	4,529	4,246	4,234	4,283	5,268	4,466	6,055	5,954	6,041
U. San Diego	386	2,934	3,483	4,275	4,554	5,146	4,476	4,734	5,089	5,642	6,036
New Jersey City U.	387	188	ne	ne	ne	ne	ne	ne	5,442	8,211	5,961
Missouri State U.	388	7,770	5,584	4,340	3,882	3,782	3,540	3,069	3,215	4,409	5,910
Florida Gulf Coast U.	389	13,906	17,051	14,393	14,204	9,626	8,992	7,335	6,025	5,115	5,907
West Virginia State U.	390	3,770	4,176	5,087	4,491	7,221	7,365	5,224	6,305	6,535	5,829
New York Institute of Technology	391	1,785	2,059	3,013	4,007	5,761	4,169	4,114	3,236	3,832	5,820
U. Central Oklahoma	392	1,786	1,548	1,028	1,067	1,362	7,691	6,275	5,832	5,104	5,682
Bucknell U.	393	5,456	5,043	4,009	4,297	4,464	4,140	4,516	i 4,892	i 5,269	5,625
Azusa Pacific U.	394	ne	3,620	2,056	i ne	ne	7,521	8,898	8,430	8,380	5,598
Grinnell C.	395	2,069	1,340	2,735	4,023	3,974	3,723	4,183	4,953	5,573	5,500
Southern U. and A&M C., Agricultural Research and Extension Center	396	ne	6,143	8,122	5,530	5,606	4,761	4,704	5,000	i 5,296	5,448
West Texas A&M U.	397	7,346	5,847	6,937	5,510	5,407	4,513	4,048	4,943	4,797	5,437
Oklahoma State U., Center for Health Sciences	398	4,398	2,815	2,122	2,137	1,805	1,625	2,182	2,454	2,608	5,408
CUNY, Graduate Center	399	11,562	11,974	9,173	11,982	7,797	6,175	7,093	i 8,011	4,781	5,399

TABLE 20

Higher education R&D expenditures, 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
Gallaudet U.	400	7,652	7,161	6,765	6,769	5,655	4,477	6,947	7,603	7,617	5,382
Purdue U., Northwest	401	na	na	na	na	na	na	na	8,924	8,062	5,272
U. Detroit Mercy	402	1,148	1,462	970	ne	1,320	1,882	3,654	2,748	4,605	5,210
Williams C.	403	4,691	4,513	4,518	3,857	4,440	5,679	5,747	5,227	5,506	5,188
Alfred U.	404	4,524	6,084	5,451	6,731	4,655	5,193	3,975	3,231	3,641	5,153
Long Island U.	405	832 i	877 i	890 i	915	ne	ne	1,420	2,290	2,405	5,113
U. New Haven	406	ne	2,009	2,723	1,400	1,616 i	1,832	3,822	5,005	5,585	5,062
Naval War C.	407	ne	ne	2,938 i	2,700 i	2,736 i	2,653	3,210	4,240 i	5,270	5,060
Franklin and Marshall C.	408	3,770	3,439	2,997	3,475	3,105	3,888	3,772	4,385	4,769	5,041
Western U. of Health Sciences	409	1,786	1,768	3,005	3,721	5,474	4,904	6,895	6,187	5,140	4,951
U. Massachusetts, central office	410	ne	ne	3,173	3,617	5,875	5,056	5,219	4,394	5,298	4,916
Texas Southern U.	411	7,003	6,318	6,380	6,548	6,038	5,005	4,495	4,722	3,740	4,893
Lamar U.	412	5,829	4,762	3,589	2,605	2,447	2,824	2,783	3,883	3,595	4,848
U. of the District of Columbia	413	5,012	4,422	4,030	3,073	2,361	2,043	3,469	3,733	2,960	4,800
Oregon Institute of Technology	414	ne	258	ne	ne	ne	2,056	4,027	3,595 i	3,163	4,793
Fisk U.	415	7,700	4,849	4,058	6,565 i	9,073	9,854 i	10,635	5,017	2,790	4,748
U. Colorado Colorado Springs	416	9,088	7,425	4,727	4,721	5,363	6,988	6,812	6,680	5,976	4,720
Fayetteville State U.	417	11,865	14,618	15,719	16,698	14,732	13,746	15,725	5,105	4,980	4,695
CUNY, Lehman C.	418	3,593 i	3,762	3,228	2,904	3,265	3,130	5,347	4,979	5,556	4,690
Southern Connecticut State U.	419	3,840	4,083	3,526	2,012	5,465	5,482	3,243	2,493	2,763	4,627
U. North Carolina, Asheville	420	2,671	3,157	3,068	2,647	2,150	2,384	3,348	2,863	3,414	4,602
Lincoln U., Jefferson City	421	8,475	8,518	7,899	6,585	6,742	6,296	5,826	5,164	4,215	4,581
U. Northern Colorado	422	2,607	2,078	2,896	3,034	4,176	3,652	4,028	4,538	5,089	4,571
Morehouse C.	423	7,857	8,485 i	9,113	9,581	7,349	6,180	4,315	3,667	4,531	4,564
Fort Valley State U.	424	5,310	3,850	3,665	3,688	4,547	4,320	5,138	5,374	3,916	4,563
Southern U. and A&M C., Baton Rouge	425	6,865	6,819 i	6,773	4,920	4,812	4,766	4,322	4,043	4,171	4,492
Texas Woman's U.	426	2,271	2,919	4,129	2,704	2,650	2,310	3,014	4,073	4,822	4,477
Youngstown State U.	427	4,523	4,732	3,598	3,785	3,464	3,348	2,342	4,439	4,463	4,447
Carleton C.	428	4,575	5,382	4,957	5,848	5,657	6,746	6,385	6,888	5,515	4,388
National Defense U.	429	ne	ne	ne	5,865	7,682	5,542	6,447	6,293	4,276	4,231
Swarthmore C.	430	2,984	2,994	3,281	3,415	3,528	2,943	3,211	3,569	3,921	4,203
U. North Carolina, general administration	431	ne	ne	ne	ne	ne	4,197	4,137	3,721	4,843	4,154
MGH Institute of Health Professions	432	ne	607	ne	ne	ne	3,931	2,548	2,282	3,328	4,130
Milwaukee School of Engineering	433	3,944	4,472	4,635	4,376	4,410	4,524	3,930	3,374	3,232	4,026

TABLE 20

Higher education R&D expenditures, 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
Barnard C.	434	3,353	4,046	3,684	2,931	2,738	2,916	3,534	3,730	3,458	4,010
CUNY, C. Staten Island	435	3,290	4,188	4,955	3,691	3,731	3,060	3,511	4,250	4,118	3,986
U. Central del Caribe	436	7,122	7,515	7,313	7,095	7,181	6,964	7,090	5,634	4,111	3,953
U. Ana G. Mendez, Gurabo	437	6,620	7,098	6,953	6,916	2,694	2,473	2,518	1,777	1,579	3,945
Roseman U. of Health Sciences	438	ne	840	ne	ne	3,021	3,287	3,433	4,167	3,973	3,916
Pace U.	439	3,085	3,732	4,214	3,611	4,373	4,647	5,359	5,028	4,282	3,855
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	440	ne	2,342	2,562	2,979	3,356	3,089	3,177	3,285	3,502	3,769
Central State U.	441	3,233	3,821	3,591	2,771	2,025	1,508	1,643	2,008	3,615	3,766
Colgate U.	442	2,851	2,291	3,268	2,704	2,444	2,721	3,219	3,414	3,823	3,756
Haverford C.	443	3,620	2,765	2,588	2,769	2,546	2,633	2,173	2,442	3,041	3,752
U. of the Sciences Philadelphia	444	1,964	3,504	3,610	3,765	2,922	4,076	3,308	3,980	3,671	3,740
Trinity U.	445	1,446	1,355	1,611	3,094	2,992	2,633	2,383	3,274	3,244	3,736
Dakota State U.	446	ne	1,015	5,709	1,574	1,446	1,152	2,171	2,284	3,619	3,710
Murray State U.	446	3,396	3,718	3,345	2,192	2,080	2,371	2,124	2,459	2,872	3,710
Toyota Technological Institute, Chicago	448	ne	746	ne	ne	ne	2,543	2,710	2,880	3,251	3,681
Stephen F. Austin State U.	449	9,127	6,046	5,495	4,612	4,298	5,170	4,749	3,677	3,336	3,679
South Carolina State U.	450	7,167	10,037	12,909	12,809	12,709	12,607	13,076	14,300	15,130	3,659
U. Northern Iowa	451	3,064	4,248	3,615	3,678	3,711	4,032	3,632	3,303	2,983	3,628
Touro U.	452	1,221	1,779	2,237	2,155	3,067	3,106	3,466	3,122	3,233	3,543
U. Central Arkansas	453	2,670	2,821	3,277	2,913	4,064	3,502	3,453	3,313	3,620	3,477
U. Washington, Tacoma	454	872	1,359	1,845	2,203	2,938	3,618	3,957	3,246	3,006	3,471
U. Wisconsin-Stevens Point	455	6,766	6,171	5,576	4,392	3,919	3,446	2,973	3,110	3,291	3,464
Towson U.	456	3,052	3,574	2,599	2,800	2,997	3,153	2,303	2,834	3,194	3,423
Pennsylvania State U., Behrend	457	3,265	3,183	3,374	3,203	4,282	3,737	5,382	3,804	2,760	3,414
Texas A&M U.-Commerce	458	2,679	2,242	2,279	2,541	2,833	3,755	2,943	4,227	3,431	3,403
Minnesota State U., Mankato	459	3,837	2,654	2,082	2,640	3,310	2,294	4,034	2,471	2,943	3,392
Albany C. of Pharmacy and Health Sciences	460	3,074	3,496	2,639	2,637	3,200	2,533	1,789	2,567	2,732	3,383
Tougaloo C.	461	2,978	2,753	2,613	2,639	2,285	2,689	2,473	3,030	3,173	3,380
Harvey Mudd C.	462	3,214	3,861	3,512	3,595	3,127	3,272	4,332	3,748	3,790	3,353
St. Cloud State U.	463	4,184	3,404	2,932	2,912	3,380	4,192	3,497	3,588	3,725	3,275
Appalachian State U.	464	2,898	3,835	4,438	3,051	4,289	3,878	3,146	4,475	3,631	3,268
Reed C.	465	1,904	1,839	1,837	2,395	3,124	3,050	3,213	1,415	2,607	3,240
California State U., Chico	466	2,881	2,684	2,492	2,868	2,384	1,837	2,363	1,600	2,452	3,232

TABLE 20

Higher education R&D expenditures, 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.	467	5,159	2,858	2,753	2,122	2,124	2,581	2,751	3,798	3,066	3,223
Rutgers, State U. New Jersey, Camden	468	3,574	5,079	3,810	5,722	4,919	5,123	4,250	5,103	3,264	3,211
Philadelphia C. of Osteopathic Medicine	469	1,278	2,401	1,898	2,614	2,209	2,561	2,458	2,969	3,059	3,162
Colorado State U., Pueblo	470	413	364	ne	ne	ne	ne	ne	ne	ne	3,107
U. of the Pacific	471	6,120	4,704	5,291	4,563	4,088	2,734	3,013	2,155	3,014	3,078
Skidmore C.	472	2,850	2,113	1,885	1,903	1,811	1,772	1,327	1,859	2,584	3,012
Bowdoin C.	473	2,627	2,877	4,732	4,292	3,126	2,991	3,204	2,340	2,724	2,991
Pomona C.	474	2,924	3,640	3,259	3,679	3,818	3,538	3,691	3,205	2,983	2,985
Mount Holyoke C.	475	2,788	3,317	3,323	3,118	3,871	3,826	3,403	3,635	3,027	2,979
SUNY, C. of Optometry	476	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	477	ne	3,005	2,793	2,480	1,011	1,542	2,205	1,921	3,039	2,959
U. Nebraska, Kearney	478	1,655	2,199	1,715	1,761	1,504	1,496	1,864	3,510	2,639	2,919
Saint Joseph's U.	479	2,918	3,073	2,955	2,921	1,988	2,093	2,171	2,409	2,151	2,851
Grambling State U.	480	993	2,135	2,179	1,695	1,469	1,863	1,570	5,911	2,981	2,836
Saginaw Valley State U.	481	873	1,249	1,094	939	ne	1,220	1,190	1,406	1,640	2,818
Pennsylvania State U., Harrisburg	482	2,734	3,460	2,903	2,230	2,557	3,379	2,558	1,654	2,119	2,805
U. Richmond	483	4,052	4,064	4,282	3,351	3,598	3,069	3,047	3,106	2,784	2,783
Dillard U.	484	8,425	7,936	i 7,448	7,741	6,939	9,387	9,566	7,095	6,573	2,772
Spelman C.	485	3,181	2,273	2,148	1,602	1,595	1,524	1,929	2,079	2,350	2,751
Lewis and Clark C.	486	2,753	2,778	2,246	3,628	4,713	3,873	3,267	3,438	2,811	2,750
Hope C.	487	3,596	4,185	3,376	3,559	3,016	2,932	2,811	3,225	3,179	2,745
U. San Francisco	488	2,124	2,668	4,301	2,663	2,764	2,599	2,365	2,602	2,741	2,712
CUNY, New York City C. of Technology	489	231	343	ne	ne	ne	ne	ne	ne	2,418	2,711
U. Wisconsin-La Crosse	490	4,141	3,862	i 3,583	3,796	3,424	3,615	3,211	3,187	3,569	2,692
Northwest Indian C.	491	2,426	2,744	i 2,847	3,247	2,609	1,631	i ne	ne	2,154	2,659
Stockton U.	492	ne	1,455	927	ne	1,374	1,452	807	ne	2,560	2,634
Western Carolina U.	493	2,376	1,451	1,811	1,028	1,048	1,145	1,305	1,474	1,507	2,633
CUNY, system office	494	ne	ne	1,817	1,210	1,088	1,782	1,655	1,114	3,253	2,619
Alabama State U.	495	13,340	12,340	13,607	1,927	2,236	2,303	2,372	2,253	2,434	2,577
Elon U.	496	ne	1,523	1,658	2,043	2,184	2,608	2,606	2,407	2,486	2,545
Pittsburg State U.	497	1,759	1,687	1,479	1,536	2,475	2,210	2,162	2,255	2,253	2,513
U. South Carolina, Aiken	498	337	750	ne	1,309	1,133	1,154	1,445	2,961	2,602	2,481
Northeastern Illinois U.	499	711	533	ne	ne	703	ne	ne	1,403	2,442	2,478
Occidental C.	500	2,289	1,809	1,592	1,634	2,177	1,544	2,008	1,764	1,445	2,458

TABLE 20

Higher education R&D expenditures, 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
Jacksonville State U.	501	398	624	ne	ne	ne	3,242	3,231	3,120	3,008	2,429
Yeshiva U.	502	314,240	281,334	289,027	271,166	306,826	306,174	46,130	3,258	3,302	2,420
Purdue U., Fort Wayne	503	8,523	8,864	8,570	8,128	7,882	7,052	5,952	5,254	4,945	2,416
CUNY, Baruch C.	504	2,616	2,645	3,605	2,264	2,183	2,451	2,998	2,543	2,817	2,387
Western Illinois U.	505	1,221	1,528	4,514	1,983	1,349	860	ne	2,006	2,466	2,373
U. Louisiana, Monroe	506	2,884	2,812	2,469	2,781	2,267	1,672	2,441	2,297	2,123	2,364
Northern Kentucky U.	507	2,316	2,397	2,201	1,810	2,052	2,026	1,846	1,649	1,653	2,363
St. John's U., New York	508	1,643	1,786	2,161	2,401	2,507	2,558	2,307	2,542	2,903	2,352
Sul Ross State U.	508	3,039	3,183	2,375	2,159	2,528	2,204	2,015	2,500	2,934	2,352
Santa Clara U.	510	3,816	2,407	3,329	2,376	2,883	1,659	2,056	2,145	2,299	2,319
Austin Peay State U.	511	ne	2,180	2,124	2,067	2,002	2,113	1,823	2,134	2,644	2,285
Erikson Institute	512	ne	1,212	2,511	2,001	1,321	2,397	3,117	3,965	3,583	2,279
U. Wisconsin-Superior	513	5,890	6,187	6,041	ne	3,030	ne	ne	ne	3,068	2,250
Colorado C.	514	671	1,198	1,248	1,229	1,823	2,247	1,775	2,215	2,560	2,233
Seattle U.	515	1,337	1,274	642	ne	2,692	2,847	2,050	1,623	2,535	2,223
U. Houston-Downtown	516	1,013	1,351	2,267	1,444	2,414	2,459	1,784	2,397	2,508	2,216
Winthrop U.	517	ne	5,089	7,993	12,495	13,981	10,156	1,993	1,826	2,007	2,189
Wheaton C., Wheaton	518	ne	1,187	844	ne	1,302	783	ne	1,270	1,751	2,173
Pepperdine U.	519	2,672	1,924	2,571	2,400	2,401	2,714	3,178	2,396	1,954	2,170
Johnson C. Smith U.	520	ne	ne	ne	ne	ne	ne	2,094	2,255	2,468	2,148
SUNY, Geneseo	521	1,373	2,677	2,132	1,201	1,084	1,314	1,750	1,758	1,939	2,139
Bates C.	522	1,590	1,897	2,070	2,514	1,584	2,791	1,781	1,853	1,635	2,135
SUNY, Buffalo State	523	1,935	2,539	2,970	2,106	1,996	2,366	2,221	1,887	1,928	2,124
Polytechnic U. Puerto Rico	524	ne	360	ne	ne	ne	ne	ne	ne	ne	2,118
Keck Graduate Institute	525	ne	2,313	1,920	2,357	2,132	1,722	1,814	1,875	1,967	2,095
U. Wisconsin-Green Bay	526	1,219	1,239	1,259	1,279	1,299	1,320	1,599	1,510	1,454	2,083
Oberlin C.	527	1,985	1,710	1,856	1,670	1,819	1,932	1,305	1,887	1,803	2,076
U. North Georgia	528	ne	ne	ne	ne	ne	ne	ne	2,064	2,465	2,068
U. Texas, Tyler	529	5,679	2,766	8,520	5,317	6,894	4,610	2,844	1,837	1,828	2,063
Northwestern State U. Louisiana	530	1,464	1,189	1,102	1,022	792	ne	1,628	1,373	1,623	2,058
Niagara U.	531	1,090	1,656	2,475	2,193	1,946	1,828	1,505	1,823	2,523	2,057
Hamilton C.	532	3,192	3,109	3,069	2,942	2,846	2,291	2,662	2,354	1,796	2,050
Coastal Carolina U.	533	2,404	2,162	2,412	2,516	2,166	1,862	1,779	1,893	1,631	2,042
Black Hills State U.	534	2,883	1,643	2,466	3,061	2,380	2,430	2,833	2,109	1,571	2,031
Morehead State U.	535	2,145	2,018	2,174	2,631	1,892	1,838	2,399	2,860	2,434	2,028
Eastern Washington U.	536	3,266	3,910	2,700	2,115	1,867	2,973	3,368	2,000	2,590	2,024
Winston-Salem State U.	537	ne	1,179	1,977	841	ne	ne	1,356	1,575	1,629	2,011

TABLE 20

Higher education R&D expenditures, 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	
Florida Polytechnic U.	538	na	na	na	na	na	212	ne	ne	ne	2,006	
Hawaii Pacific U.	539	ne	1,436	1,390	1,043	1,524	1,241	2,371	2,175	2,114	1,980	
Southeastern Louisiana U.	540	2,561	1,952	2,121	2,067	1,503	2,670	2,128	2,206	2,039	1,971	
Christopher Newport U.	541	1,110	1,669	1,327	1,187	1,508	1,208	1,172	1,264	1,732	1,961	
California State U., Dominguez Hills	542	2,743	2,780	2,894	4,671	3,614	i 2,557	2,790	1,858	2,043	1,957	
Des Moines U.	543	855	924	ne	ne	929	ne	1,401	1,416	1,423	1,954	
Willamette U.	544	2,059	1,940	2,652	1,960	1,698	2,007	2,459	3,147	2,723	1,953	
Hobart and William Smith Colleges	545	1,434	1,566	1,516	2,238	1,221	946	ne	952	ne	1,919	
Bowie State U.	546	ne	1,910	1,739	1,422	1,761	1,497	1,927	1,813	1,839	1,911	
Connecticut C.	547	1,532	1,801	1,740	1,842	1,966	1,900	1,972	1,875	1,349	1,894	
U. Illinois, Springfield	548	2,096	2,002	2,370	2,276	1,916	2,070	1,683	2,900	2,164	1,876	
U. South Florida, Sarasota-Manatee	549	732	914	ne	ne	1,026	1,595	1,827	1,883	1,934	1,872	
U. of St. Thomas (MN)	550	1,330	1,316	1,030	1,424	916	ne	1,266	1,241	1,645	1,870	
U. Puerto Rico, Cayey	550	927	1,474	1,916	1,726	1,795	1,521	1,415	1,109	1,359	1,870	
Trinity C., Hartford	552	1,875	1,934	2,102	1,786	2,131	1,717	1,598	2,856	1,672	1,858	
Colby C.	553	1,782	1,772	1,996	1,822	1,673	1,748	1,903	2,071	2,240	1,852	
Roger Williams U.	553	1,967	2,627	2,596	2,186	2,558	2,348	2,441	2,952	1,937	1,852	
Babson C.	555	ne	696	ne	ne	ne	ne	2,108	1,849	1,917	1,845	
Macalester C.	556	4,389	4,653	1,721	1,457	1,455	1,286	1,562	1,916	1,404	1,808	
Mercyhurst U.	557	2,040	1,206	1,539	1,414	1,914	1,987	1,647	1,669	i ne	1,801	i
U. of the Incarnate Word	558	ne	667	ne	ne	ne	848	ne	ne	1,338	1,800	
SUNY, Oswego	559	783	977	ne	725	ne	ne	ne	1,658	1,982	1,781	
Liberty U.	560	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,780	
Davidson C.	561	1,493	1,977	1,400	2,337	1,804	2,377	1,521	1,736	1,638	1,777	
Alaska Pacific U.	562	434	518	ne	ne	ne	1,246	1,358	1,248	1,544	1,774	
Kettering U.	563	6,880	5,087	4,059	3,449	3,517	3,673	3,463	4,233	2,531	1,765	
C. Wooster	564	988	1,225	966	ne	1,321	1,245	i ne	1,644	1,494	1,758	
Clafin U.	565	3,252	5,439	5,255	2,661	1,818	1,255	1,772	1,360	1,509	1,746	
Hofstra U.	566	2,552	2,472	3,237	2,394	3,102	2,585	2,440	1,702	1,662	1,744	
Union C., Schenectady	567	1,984	1,615	1,516	2,402	1,924	1,560	2,150	1,189	1,540	1,740	
SUNY, C. Plattsburgh	568	1,664	1,098	913	ne	1,008	1,135	1,020	1,003	1,604	1,729	
Savannah State U.	569	1,874	2,700	1,996	2,613	2,210	1,801	2,267	1,407	1,793	1,720	
U. Wisconsin-Oshkosh	570	1,556	2,384	2,331	2,167	1,935	i 1,703	i ne	1,538	i 1,627	i 1,713	i
Indiana State U.	571	1,541	1,980	1,857	1,238	1,436	1,541	1,763	1,284	1,323	1,682	

TABLE 20

Higher education R&D expenditures, 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
Gettysburg C.	572	814	669	ne	ne	ne	ne	ne	1,318	1,539	1,664
Eastern Connecticut State U.	573	ne	216	ne	ne	1,459	1,149	1,209	1,228	1,100	1,659
Middlebury C.	574	2,292	2,408	3,031	2,179	1,450	1,599	1,822	2,043	1,895	1,657
Franklin W. Olin C. of Engineering	575	ne	1,016	1,777	1,157	1,561	2,136	1,762	1,553	1,254	1,655
Palmer C. of Chiropractic, Davenport	576	4,693	4,861	4,507	3,774	2,736	i 1,698	1,510	1,836	1,600	1,650
Mills C.	577	1,679	2,237	2,747	3,869	3,619	3,159	3,540	3,353	1,850	1,643
Furman U.	578	2,311	2,184	2,049	2,199	1,600	1,928	1,869	2,051	2,064	1,628
CUNY, York C.	579	ne	2,180	1,544	999	ne	716	ne	ne	ne	1,621
La Sierra U.	580	ne	732	ne	ne	1,057	1,165	1,255	2,202	2,227	1,581
Calvin U.	581	5,010	3,113	3,252	3,466	3,051	2,430	i 1,809	1,456	1,937	1,577
California State U., Channel Islands	582	ne	524	ne	1,236	3,862	1,949	1,383	1,096	1,248	1,572
Lafayette C.	583	2,089	2,426	1,864	1,947	1,915	1,693	1,553	1,831	1,815	1,554
U. Wisconsin-Eau Claire	584	1,950	1,406	1,362	1,235	915	ne	1,238	1,641	1,227	1,530
U. Hartford	585	1,137	2,419	2,007	1,807	1,606	1,701	1,803	1,801	1,073	1,528
Northern Michigan U.	586	910	841	ne	ne	ne	ne	1,118	1,339	1,728	1,520
Albany State U.	587	740	1,416	2,225	1,658	1,549	1,356	1,496	1,393	1,301	1,491
California State U., Stanislaus	588	ne	1,487	1,881	1,342	1,136	1,080	1,248	1,365	1,394	1,477
Fort Lewis C.	589	392	606	ne	ne	ne	ne	ne	ne	ne	1,460
U. Michigan, Flint	590	693	767	ne	ne	ne	ne	ne	1,466	1,237	1,448
Marshall B. Ketchum U.	591	ne	ne	ne	ne	1,030	1,468	1,491	1,512	i 1,451	i 1,430
CUNY, Medgar Evers C.	592	658	2,065	1,635	1,241	1,083	970	ne	2,046	2,062	1,397
SUNY, C. Brockport	593	831	1,248	1,487	1,321	1,192	1,367	1,335	1,289	1,293	1,390
Central Connecticut State U.	594	776	1,451	1,506	1,574	1,185	1,259	1,322	995	ne	1,381
U. Houston-Clear Lake	595	1,279	1,746	1,769	1,542	1,716	1,535	1,578	1,779	1,251	1,370
Bradley U.	596	1,151	1,910	2,392	2,860	1,514	1,499	2,122	1,839	1,274	1,357
Lawrence Technological U.	597	3,952	3,348	1,483	2,022	1,876	2,528	1,907	1,942	1,668	1,352
U. Alaska, Southeast	598	1,759	1,274	1,382	1,559	1,512	1,588	1,808	1,621	1,641	1,341
U. of Mary Washington	599	ne	1,374	907	ne	ne	690	ne	ne	1,242	1,315
Monmouth U.	600	2,195	1,956	904	ne	865	ne	900	ne	ne	1,294
Fairfield U.	601	9,294	9,892	9,331	i 8,769	9,155	5,750	6,174	8,749	1,742	1,279
Benedict C.	602	1,533	3,009	2,754	2,664	2,479	1,373	1,653	1,676	1,934	1,269
Salish Kootenai C.	603	880	1,153	1,415	1,612	1,399	i 1,186	1,142	1,481	1,741	1,252
National U. of Natural Medicine	604	ne	791	ne	ne	ne	ne	ne	921	ne	1,245
Heidelberg U.	605	ne	1,219	i ne	1,129	1,539	1,109	1,286	1,621	1,280	1,237
U. Minnesota, Morris	606	672	899	ne	1,534	1,338	1,223	1,029	974	ne	1,234

TABLE 20

Higher education R&D expenditures, 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
New England C. of Optometry	607	1,457	1,751	2,237	2,172	1,234	1,077	980	ne	1,026	1,223
Saint Michael's C.	608	644	734	ne	1,620	1,541	1,532	1,624	1,415	1,482	1,200
U. Puerto Rico, Humacao	609	1,971 i	1,976	1,949	1,455	1,145	784	ne	ne	1,168	1,195
Saint John's U., Collegetown	610	640	891	ne	1,444	1,623	1,372	1,459	1,267	1,208	1,191 i
Manhattan C.	611	498	638	ne	ne	ne	ne	ne	ne	ne	1,190
Biola U.	612	ne	ne	ne	ne	ne	ne	1,000 i	1,034 i	1,085 i	1,155 i
Emerson C.	613	ne	ne	ne	ne	ne	1,291	1,114	1,488	2,059	1,145
California Lutheran U.	614	ne	741	ne	ne	ne	ne	ne	ne	ne	1,143
Fort Hays State U.	614	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,143
Andrews U.	616	1,195	854	ne	ne	ne	ne	ne	ne	ne	1,126
C. of Saint Benedict	616	ne	867	ne	1,347	1,451	1,179	1,305	1,122	1,142	1,126 i
Dine C.	616	ne	959 i	ne	ne	ne	ne	ne	ne	1,238	1,126
Eastern Kentucky U.	619	3,531	3,782	3,404	2,845	2,221	1,681	1,486	1,248	1,142	1,125
Doane U.	620	ne	1,022	678	ne	1,033	474	ne	ne	1,092	1,093
Kenyon C.	621	428	433	ne	ne	ne	ne	ne	ne	1,227	1,092
U. Wisconsin-Platteville	622	681	715 i	ne	ne	1,000 i	970 i	ne	1,068 i	ne	1,084 i
Whitman C.	623	1,415	1,142	849	ne	ne	ne	ne	ne	ne	1,083
Keene State C.	624	ne	2,290	2,338 i	2,387	2,601	966	ne	908	ne	1,061
Providence C.	625	917	758	ne	983	ne	1,329	1,196	1,014	1,215	1,042
Albion C.	626	ne	799	ne	ne	ne	ne	ne	1,074	1,055	1,040
Dickinson C.	627	2,109	2,050	2,167	1,570	1,612	1,492	1,332	869	ne	1,037
Rhode Island School of Design	628	ne	551	ne	ne	ne	1,013	1,071 i	1,086 i	1,042 i	1,027 i
St. Olaf C.	629	1,574	1,130	1,518	1,242	1,353	1,346	1,605	1,539	1,155	1,010
Vassar C.	630	1,280	1,838	1,258	1,694	1,220	2,854	1,495	1,600	4,185	1,009
U.S. Army War C.	631	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,000 i
Augsburg U.	632	ne	1,179	1,144	915	ne	1,193	1,189	1,141	1,051	991
Canisius C.	633	221	205	ne	ne	ne	ne	ne	1,546	1,069	950
U. Portland	634	1,205	1,257	755	ne	ne	ne	ne	ne	ne	942
Chicago State U.	635	1,598	2,014	565	ne	ne	ne	910	ne	1,154	898
Drake U.	636	1,033	966	ne	918	ne	ne	1,558	1,215	1,103	865
American Samoa Community C.	637	ne	ne	ne	ne	ne	1,337	793	ne	ne	860
Salus U.	638	1,359	1,493	1,337	1,368	1,190	1,257	1,641	1,566	1,286	854
Augustana U.	639	912	1,578	1,160	1,045	1,106	782	ne	1,212	1,170	841
Bethune-Cookman U.	640	ne	ne	ne	ne	ne	ne	ne	ne	1,137	735
A. T. Still U.	641	1,253	1,925	3,247 i	4,569 i	5,892	4,571	2,873	782	ne	644
Allegheny C.	642	505	707	ne	ne	ne	ne	1,014	1,243	1,069	632
U. Ana G. Mendez, Cupey	643	1,888	2,387	9,472	7,835	6,997	6,361	5,183	5,568	3,926	624

TABLE 20

Higher education R&D expenditures, 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.-Central Texas	644	ne	ne	ne	ne	ne	ne	ne	ne	1,122	428
Maine Maritime Academy	645	ne	341 ⁱ	ne	ne	ne	1,483	1,902	1,763	1,093	358
Southwest C. of Naturopathic Medicine and Health Sciences	646	ne	ne	ne	ne	ne	ne	ne	ne	ne	230
Rider U.	647	1,671	1,672	1,890	1,648	1,793	1,726	1,617	1,565	1,363	228
All other surveyed institutions	-	1,393,463	1,799,840	1,725,916	1,656,631	993,124	982,812	985,098	1,007,589	1,035,242	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 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):

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.