

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	83,496,348	2,639,334	3,185,089	48,230,138	769,722	5,551,281	1,322,793	2,805,477	915,083	13,214,359	4,863,072
Johns Hopkins U. ^a	1	2,917,436	199,773	42,585	1,053,401	85,874	323,619	4,995	8,923	46,775	1,147,335	4,156
U. Michigan, Ann Arbor	2	1,675,805	12,983	15,705	955,653	18,478	61,017	19,157	191,336	5,104	291,887	104,485
U. California, San Francisco	3	1,595,098	0	0	1,529,156	0	65,942	0	0	0	0	0
U. Pennsylvania	4	1,506,285	26,968	2,455	1,125,634	7,432	60,150	14,222	49,088	4,444	78,444	137,448
U. Washington, Seattle	5	1,425,601	24,969	123,301	954,062	6,102	58,166	9,552	16,437	2	155,076	77,934
U. California, San Diego	6	1,353,763	28,302	180,626	819,167	5,466	85,322	18,932	20,178	13,273	172,919	9,578
U. California, Los Angeles	7	1,306,376	15,867	38,106	925,447	13,118	60,067	17,044	58,050	26,039	95,797	56,841
U. Wisconsin-Madison	8	1,297,331	20,372	58,701	814,119	6,405	75,231	12,498	48,019	47,292	126,587	88,107
Harvard U.	9	1,239,736	15,229	43,664	704,460	22,127	94,515	6,829	141,321	5,362	95,651	110,578
Duke U.	10	1,226,517	5,845	11,077	1,018,199	10,319	21,176	11,226	34,532	175	100,379	13,589
Stanford U.	11	1,204,116	24,575	17,624	837,068	4,836	95,084	20,091	24,038	788	134,585	45,427
U. North Carolina, Chapel Hill	12	1,153,773	23,146	16,922	846,630	3,049	37,055	46,808	108,095	124	31,825	40,119
Cornell U.	13	1,144,534	29,330	6,531	789,230	3,341	122,968	12,682	29,183	0	110,545	40,724
U. Maryland ^b	14	1,096,600	47,841	52,823	601,632	4,685	102,720	9,617	66,691	2,453	158,814	49,324
U. Pittsburgh, Pittsburgh	15	1,080,951	9,734	13,185	935,756	4,442	30,196	14,154	4,662	10,542	46,075	12,205
Yale U.	16	1,072,309	5,996	6,995	912,802	3,831	62,247	13,211	14,401	566	36,591	15,669
U. Minnesota, Twin Cities	17	1,013,112	22,227	14,391	684,938	9,822	45,573	34,448	35,278	2,559	120,976	42,900
Massachusetts Institute of Technology	18	1,009,466	96,682	34,015	143,017	11,774	136,601	517	46,532	20,026	450,915	69,387
Columbia U. in the City of New York	19	1,003,615	24,725	75,900	727,779	5,725	35,369	4,552	19,050	0	72,596	37,919
U. Texas M. D. Anderson Cancer Center	20	969,496	0	0	902,580	20,358	19,017	17,247	10,294	0	0	0
Georgia Institute of Technology	21	960,167	164,657	12,260	33,854	8,058	38,229	3,550	5,773	0	664,695	29,091
Texas A&M U., College Station and Health Science Center	22	952,156	21,800	113,459	351,403	8,700	55,920	3,538	30,686	4,496	321,373	40,781

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Pennsylvania State U., University Park and Hershey Medical Center	23	949,679	69,638	46,390	266,143	25,057	99,485	38,984	27,943	0	350,391	25,648
New York U.	24	934,720	14,607	434	630,246	12,002	26,098	30,002	31,003	1,146	99,711	89,471
Ohio State U.	25	929,250	23,393	9,030	550,461	6,415	46,223	7,861	17,776	37,725	177,518	52,848
U. Florida	26	928,639	13,569	17,186	689,605	2,346	26,341	10,208	13,849	69	107,598	47,868
U. Southern California	27	909,683	124,944	16,850	568,194	1,500	20,109	9,153	52,212	0	76,180	40,541
Washington U., Saint Louis	28	887,088	5,504	5,676	796,337	639	24,852	6,129	1,259	2,992	23,090	20,610
Northwestern U.	29	857,069	3,035	1,547	604,875	2,461	82,072	4,157	16,211	32,836	80,413	29,462
U. California, Davis	30	804,282	7,562	29,166	593,628	4,162	26,589	2,740	27,167	7,893	92,277	13,098
U. California, Berkeley	31	802,931	12,125	9,429	239,459	8,177	130,895	17,955	61,374	72,048	200,122	51,347
Emory U.	32	794,928	2,427	1,237	727,296	2,715	23,150	5,399	2,005	0	9,614	21,085
Vanderbilt U. and Vanderbilt U. Medical Center	33	776,937	0	1,586	581,939	1,211	28,951	15,490	6,861	0	94,340	46,559
U. Arizona	34	734,270	12,370	31,075	426,393	2,449	139,315	2,670	19,450	6,013	75,555	18,980
Michigan State U.	35	725,708	19,013	5,244	353,934	11,394	151,159	17,834	27,037	16,765	79,638	43,690
Icahn School of Medicine at Mount Sinai	36	722,241	0	0	722,241	0	0	0	0	0	0	0
U. Texas, Austin	37	696,111	66,125	51,155	117,716	17,222	81,357	12,544	20,467	3,555	249,788	76,182
U. Illinois, Urbana-Champaign	38	677,523	106,430	6,868	222,994	5,071	69,531	14,473	6,846	7,639	201,028	36,643
Indiana U., Bloomington	39	668,157	36,195	7,220	470,583	1,773	31,099	14,744	44,681	12,889	11,265	37,708
Purdue U., West Lafayette	40	663,927	23,177	7,119	237,317	3,185	38,081	6,192	10,040	2,775	270,525	65,516
Rutgers, State U. New Jersey, New Brunswick	41	657,249	5,881	18,036	447,552	9,036	29,660	7,700	7,779	2,613	92,937	36,055
Baylor C. of Medicine	42	651,920	0	0	651,920	0	0	0	0	0	0	0
Arizona State U.	43	639,637	21,871	83,703	101,129	6,367	26,050	18,986	86,570	75,517	152,395	67,049
U. Virginia, Charlottesville	44	613,938	20,017	5,352	385,793	1,698	26,742	9,245	13,457	1,803	83,072	66,759
U. Alabama, Birmingham	45	607,863	827	870	533,536	876	5,961	4,933	803	0	47,555	12,502
U. Utah	46	601,133	40,967	27,848	343,744	3,722	54,131	18,431	3,776	617	55,478	52,419

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Colorado Denver and Anschutz Medical Campus	47	542,732	614	2,200	523,713	584	1,385	1,933	354	33	5,003	6,913
Virginia Polytechnic Institute and State U.	48	541,969	23,536	4,185	198,424	5,031	26,835	4,286	11,273	371	258,213	9,815
North Carolina State U.	49	541,100	14,614	21,691	244,235	20,296	22,753	3,071	8,403	13,471	174,590	17,976
Boston U.	50	534,205	11,919	8,701	338,089	5,236	30,805	21,872	7,962	6,075	78,154	25,392
U. Cincinnati	51	529,796	1,516	1,143	437,494	1,949	9,641	1,746	12,083	936	46,889	16,399
U. Colorado Boulder	52	513,822	14,909	121,624	51,990	2,711	107,416	13,092	18,635	3,305	152,391	27,749
U. Iowa	53	508,353	3,599	2,088	385,909	710	24,300	8,086	7,575	1,165	50,377	24,544
U. Texas Southwestern Medical Center	54	496,697	0	0	496,697	0	0	0	0	0	0	0
U. Georgia	55	477,536	3,731	23,281	294,353	7,666	13,275	24,590	20,857	8,712	18,444	62,627
U. Chicago	56	459,171	26,606	9,370	299,549	6,987	52,656	7,744	21,578	0	23,773	10,908
U. California, Irvine	57	448,967	19,463	11,580	266,485	5,442	40,872	8,961	13,071	912	55,995	26,186
Case Western Reserve U.	58	438,994	50	591	377,671	558	10,756	1,812	3,170	16	41,228	3,142
Scripps Research Institute	59	427,734	0	0	427,734	0	0	0	0	0	0	0
Uniformed Services U. of the Health Sciences	60	417,300	0	0	406,726	0	0	10,574	0	0	0	0
Oregon Health and Science U.	61	415,629	0	0	403,495	0	0	0	0	0	12,134	0
SUNY, U. Buffalo	62	413,817	15,899	3,533	249,349	1,083	11,644	4,752	9,937	3,042	95,040	19,538
U. Kentucky	63	410,581	3,165	2,331	314,547	1,685	8,173	4,047	765	12,928	50,743	12,197
California Institute of Technology	64	399,931	14,405	37,101	87,505	1,534	188,041	0	0	0	46,972	24,373
Colorado State U., Fort Collins	65	398,477	4,278	85,500	211,774	4,392	14,464	3,860	12,649	2,726	42,609	16,225
U. Rochester	66	393,960	3,657	2,765	248,086	213	111,388	5,573	219	5,502	14,872	1,685
U. South Florida, Tampa	67	391,325	7,707	25,127	200,585	2,685	14,060	4,305	30,138	853	45,508	60,357
Princeton U.	68	385,739	19,725	24,755	95,882	11,703	88,235	6,482	58,918	0	65,000	15,039
U. Illinois, Chicago	69	382,949	10,522	701	289,366	4,386	14,456	4,352	6,741	6,659	28,226	17,540
Washington State U.	70	369,333	9,377	10,202	205,564	622	33,403	3,338	13,701	667	42,273	50,186
U. Miami	71	360,716	1,140	48,427	284,045	581	5,567	11,163	2,294	4	5,400	2,095

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(Dollars in thousands)

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Carnegie Mellon U.	72	359,720	171,110	994	15,366	12,385	19,508	10,601	14,307	6,589	95,496	13,364
Iowa State U.	73	358,474	8,296	3,917	149,764	16,551	40,040	9,858	3,741	5,533	104,798	15,976
SUNY, Polytechnic Institute	74	352,889	0	0	1,995	0	0	0	0	0	350,793	101
U. Kansas	75	352,643	4,004	10,594	212,241	999	8,686	17,811	7,043	395	20,869	70,001
Rockefeller U.	76	351,089	8,037	974	332,899	1,602	7,577	0	0	0	0	0
Dartmouth C. and Dartmouth Hitchcock Medical Center	77	342,142	15,753	4,359	195,353	5,149	18,757	10,892	17,928	4,664	31,110	38,177
Florida State U.	78	329,205	11,557	18,343	61,515	6,202	61,706	15,866	18,519	7,596	56,352	71,549
U. Nebraska, Lincoln	79	316,820	8,919	3,639	161,097	5,390	26,100	10,968	13,140	1,359	53,932	32,276
U. Oklahoma, Norman and Health Science Center	80	302,679	1,752	71,836	148,621	477	15,362	1,395	17,363	0	26,569	19,304
Albert Einstein C. of Medicine	81	298,824	0	0	298,824	0	0	0	0	0	0	0
Louisiana State U., Baton Rouge	82	296,497	6,538	31,853	160,443	2,419	23,944	1,119	3,704	11,380	45,803	9,294
Medical U. South Carolina	83	295,600	0	0	295,600	0	0	0	0	0	0	0
U. Connecticut	84	285,764	5,103	10,974	165,087	2,362	16,829	18,641	8,455	1,539	44,044	12,730
Temple U.	85	284,301	4,560	1,559	218,527	1,262	16,205	8,832	3,214	1,016	8,042	21,084
Utah State U.	86	283,917	2,040	1,150	61,698	736	6,756	3,787	1,591	373	202,345	3,441
U. Massachusetts, Medical School	87	281,507	0	0	281,507	0	0	0	0	0	0	0
U. Hawaii, Manoa	88	280,416	10,173	82,955	130,373	466	27,285	279	4,828	4,256	17,089	2,712
U. Missouri, Columbia	89	278,793	4,499	1,261	193,977	1,225	6,932	6,111	2,480	136	46,142	16,030
U. Texas Health Science Center, Houston	90	271,525	0	0	271,525	0	0	0	0	0	0	0
George Washington U.	91	269,799	8,578	288	175,830	1,709	7,634	2,457	27,686	3,304	21,712	20,601
Mississippi State U.	92	264,526	6,944	10,928	118,479	1,310	11,312	1,480	41,008	4,030	60,183	8,852
Oregon State U.	93	263,830	8,869	40,030	136,589	2,074	6,247	1,318	5,550	7,671	49,587	5,895
SUNY, Stony Brook U.	94	260,813	9,726	26,282	117,953	6,652	41,679	4,703	2,775	18,646	28,632	3,765
Brown U.	95	256,954	14,727	4,310	130,419	13,225	19,259	6,801	24,887	8,807	23,448	11,071
Virginia Commonwealth U.	96	255,648	1,286	871	185,744	890	3,469	11,299	1,251	0	26,072	24,766

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Tennessee, Knoxville	97	247,693	14,744	5,557	24,065	3,390	25,677	4,382	12,661	14,722	116,528	25,967
Medical C. Wisconsin	98	244,752	0	0	236,978	0	0	0	0	0	7,774	0
Wayne State U.	99	244,217	1,881	412	186,531	1,393	20,013	1,584	3,342	5,282	14,634	9,145
U. California, Santa Barbara	100	243,778	10,965	35,554	34,842	1,711	65,929	5,299	7,450	952	67,395	13,681
Georgetown U.	101	240,960	3,836	1,296	155,013	24	7,281	2,741	37,195	3,510	0	30,064
U. Notre Dame	102	240,078	16,400	0	27,517	5,663	45,062	4,887	9,450	13,013	89,702	28,384
U. New Mexico	103	239,696	3,649	7,329	148,618	1,638	7,148	6,938	10,707	9,333	37,950	6,386
Wake Forest U.	104	238,933	81	0	230,592	408	3,071	1,041	901	15	385	2,439
Auburn U., Auburn	105	231,619	4,368	2,690	104,935	3,706	13,220	2,457	5,387	3,346	59,742	31,768
Woods Hole Oceanographic Institution	106	229,143	0	145,169	0	0	0	0	0	0	83,974	0
Florida International U.	107	225,864	14,911	14,955	51,676	1,394	24,968	29,269	16,551	2,892	35,138	34,110
U. Central Florida	108	225,085	29,865	4,486	34,043	3,144	30,415	5,230	13,274	3,158	62,258	39,212
U. Massachusetts, Amherst	109	223,177	27,702	6,569	67,652	3,636	31,623	9,195	6,118	1,645	49,745	19,292
Clemson U.	110	218,760	5,193	0	62,391	3,052	11,401	460	5,991	0	76,739	53,533
Kansas State U.	111	218,622	2,923	2,337	133,246	3,416	14,413	6,005	4,159	8,306	27,439	16,378
Tufts U.	112	213,285	3,777	482	114,635	1,811	11,377	1,739	14,063	17,045	31,630	16,726
U. Delaware	113	206,270	5,274	18,346	60,535	2,227	27,410	5,486	12,868	2,342	66,447	5,335
U. South Carolina, Columbia	114	205,940	2,436	988	70,689	2,100	7,007	8,025	13,440	0	31,748	69,507
Tulane U.	115	196,933	2,312	4,317	152,554	814	6,448	2,342	5,241	0	8,416	14,489
Georgia State U.	116	195,572	3,562	1,268	70,211	2,045	17,836	7,333	23,970	0	0	69,347
U. Houston	117	195,398	4,819	10,516	39,727	3,083	43,378	12,218	2,714	648	51,806	26,489
U. Nebraska, Medical Center	118	194,455	0	0	194,455	0	0	0	0	0	0	0
Texas Tech U.	119	193,923	4,427	8,213	52,335	3,590	14,408	9,824	10,463	0	44,057	46,606
U. Texas Health Science Center, San Antonio	120	188,483	0	0	188,483	0	0	0	0	0	0	0
West Virginia U.	121	187,512	1,150	10,049	104,435	625	14,339	2,041	2,356	1,064	42,516	8,937
George Mason U.	122	186,267	31,219	11,598	16,438	1,981	6,295	3,143	57,278	0	36,101	22,214
Oklahoma State U., Stillwater	123	184,276	3,673	2,613	76,701	4,585	8,458	9,018	5,425	6,601	32,947	34,255

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Northeastern U.	124	183,998	19,362	4,603	31,181	780	19,445	7,738	11,540	0	79,836	9,513
Rice U.	125	182,564	11,939	4,341	13,966	9,477	34,759	3,821	20,720	804	77,299	5,438
SUNY, U. Albany	126	181,531	6,541	15,833	101,768	1,443	7,811	4,389	20,704	37	3,087	19,918
U. Arkansas, Fayetteville	127	180,225	5,088	4,449	89,593	286	9,454	782	4,375	343	34,590	31,265
U. California, Riverside	128	177,655	9,450	10,774	91,835	2,251	16,166	4,923	4,568	3,159	29,020	5,509
U. Texas Medical Branch	129	175,372	0	0	173,776	0	0	0	0	0	1,596	0
U. Louisville	130	173,462	309	197	135,671	67	3,058	1,662	2,342	776	17,640	11,740
Thomas Jefferson U.	131	170,458	0	0	170,458	0	0	0	0	0	0	0
U. Dayton	132	165,343	4,245	428	818	0	1,247	43	109	18	157,016	1,419
New Jersey Institute of Technology	133	161,232	10,619	0	27,910	4,400	15,338	0	0	79	78,455	24,431
U. Mississippi	134	158,809	584	1,726	103,882	1,236	14,617	1,140	5,469	0	8,821	21,334
Montana State U., Bozeman	135	154,811	1,427	5,618	72,765	1,565	15,021	235	582	6,625	36,521	14,452
Syracuse U.	136	154,366	5,571	3,913	12,095	3,001	15,894	4,426	12,954	413	25,412	70,687
U. Arkansas for Medical Sciences	137	153,135	0	0	153,135	0	0	0	0	0	0	0
North Dakota State U.	138	152,381	2,556	714	104,204	714	6,903	3,077	9,396	6,129	12,030	6,658
U. Nevada, Reno	139	152,128	7,812	14,563	64,307	2,609	10,153	5,429	7,113	1,153	23,568	15,421
Drexel U.	140	149,481	4,298	0	93,762	497	2,793	3,555	3,028	1,644	31,330	8,574
U. New Hampshire	141	148,980	883	48,149	50,431	291	3,521	1,869	8,621	0	23,861	11,354
U. Alaska, Fairbanks	142	144,457	1,058	69,346	26,416	507	13,534	0	1,162	15,362	14,922	2,150
U. Louisiana, Lafayette	143	144,187	11,650	3,957	73,146	3,226	1,369	5,326	406	4,124	28,397	12,586
U. California, Santa Cruz	144	142,958	4,401	26,570	26,486	303	32,576	721	6,908	1,379	39,111	4,503
U. Vermont	145	135,859	2,829	772	111,873	612	3,235	1,773	1,356	5,359	7,864	186
U. Maine	146	129,913	1,377	25,039	38,713	1,115	7,628	852	2,293	12,236	32,368	8,292
Wichita State U.	147	128,795	0	25	2,850	105	947	399	44	0	109,248	15,177
Cold Spring Harbor Laboratory	148	126,773	0	0	126,773	0	0	0	0	0	0	0
U. Texas, Dallas	149	126,661	8,136	907	35,971	1,063	15,515	751	2,480	71	48,666	13,101
U. Texas, Arlington	150	123,207	7,144	1,266	18,010	2,276	15,576	1,660	160	0	54,121	22,994
U. Rhode Island	151	115,160	687	50,513	24,563	0	3,194	1,483	2,432	13,925	10,632	7,731
U. Idaho	152	113,107	1,238	5,923	71,656	213	2,030	135	2,108	6,551	17,497	5,756

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. North Dakota	153	110,836	2,059	6,713	28,781	383	3,607	1,135	1,739	1,664	54,760	9,995
U. Oregon	154	110,664	5,059	4,871	35,644	908	14,773	15,658	3,790	987	541	28,433
U. Alabama, Huntsville	155	109,744	29,177	16,001	2,815	627	12,963	183	2,325	0	40,733	4,920
U. Texas, El Paso	156	106,809	5,851	3,168	30,643	1,466	7,587	10,393	3,951	2,560	26,586	14,604
U. Montana, Missoula	157	104,665	1,291	6,376	61,959	1,256	7,749	840	16,775	0	0	8,419
SUNY, Binghamton U.	158	104,297	7,176	2,026	12,165	2,468	14,920	11,007	13,250	0	30,434	10,851
Rensselaer Polytechnic Institute	159	103,739	11,282	1,931	5,384	2,258	15,038	3,151	451	0	59,831	4,413
New Mexico State U.	160	101,457	2,705	3,908	40,821	41	25,535	268	653	210	25,892	1,424
U. Nevada, Las Vegas	161	99,445	1,662	4,526	31,434	1,471	9,099	2,982	6,344	523	15,736	25,668
U. Tennessee, Health Science Center	162	96,979	0	0	95,852	0	0	0	0	517	610	0
Augusta U.	163	96,502	24	0	96,123	23	48	0	178	0	0	106
Rush U.	164	96,267	0	0	93,701	0	0	2,566	0	0	0	0
San Diego State U.	165	92,964	1,563	2,582	28,629	4,061	6,333	14,071	5,054	4,243	8,197	18,231
U. Texas, San Antonio	166	84,326	12,132	1,178	22,455	586	10,617	1,262	6,674	887	19,928	8,607
U. Massachusetts, Lowell	167	83,996	7,481	1,977	8,730	636	17,976	1,719	4,635	488	33,128	7,226
U. Alabama, Tuscaloosa	168	83,317	12,482	1,000	8,452	179	5,815	2,931	5,328	0	31,845	15,285
U. Maryland, Baltimore County	169	80,632	8,065	13,585	11,834	592	17,039	2,046	13,139	2,189	8,429	3,714
Michigan Technological U.	170	80,443	2,158	14,388	4,323	2,085	3,722	455	1,386	901	47,435	3,590
U. Wyoming	171	80,353	342	6,755	41,934	1,499	1,825	236	477	7,310	19,550	425
Cleveland State U.	172	80,077	0	0	47,567	823	1,372	644	6,170	0	17,278	6,223
U. North Texas, Denton	173	78,691	5,879	1,444	12,644	1,409	7,586	4,375	5,413	0	15,773	24,168
U. Southern Mississippi	174	76,464	443	29,968	10,316	96	15,682	0	5,373	0	3,371	11,215
U. Tennessee, Knoxville, Institute of Agriculture	175	71,396	0	0	64,074	0	0	0	0	1,640	5,637	45
American U.	176	71,053	2,122	482	1,854	1,319	5,167	2,564	20,802	5,221	0	31,522
Colorado School of Mines	177	70,397	2,782	8,238	2,324	404	8,796	0	571	0	44,195	3,087
U. California, Office of the President	178	67,702	1,485	0	53,460	0	7,973	0	0	4,784	0	0

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Indiana U.-Purdue U., Indianapolis	179	67,635	3,920	926	20,263	610	2,396	4,165	13,123	6,017	6,730	9,485
Old Dominion U.	180	67,425	2,530	4,907	14,668	7,507	7,547	1,126	2,279	0	19,294	7,567
Naval Postgraduate School	181	67,323	11,598	6,339	1,939	2,394	8,797	0	4,608	2,349	22,498	6,801
South Dakota State U.	182	66,794	0	1,933	53,751	488	2,951	223	1,600	0	5,516	332
Saint Louis U.	183	66,103	655	1,281	54,582	56	2,384	333	272	0	2,344	4,196
William & Mary	184	64,835	2,914	32,425	2,775	601	6,554	191	10,227	0	0	9,148
Texas State U.	185	64,554	2,096	7,349	11,304	908	2,741	232	4,217	1,982	4,611	29,114
Wright State U.	186	64,208	2,986	312	16,448	153	1,757	2,736	1	222	39,164	429
U. Massachusetts, Boston	187	62,018	1,949	5,249	9,692	298	3,363	4,622	12,035	535	1,255	23,020
Boston C.	188	61,956	559	5,130	13,514	1,015	9,572	3,837	11,141	0	0	17,188
Van Andel Research Institute	189	61,738	0	0	61,738	0	0	0	0	0	0	0
Brandeis U.	190	60,825	1,560	0	22,063	677	9,838	2,485	18,222	1,893	0	4,087
Northern Arizona U.	191	58,914	3,383	7,984	36,245	0	5,643	750	724	421	2,613	1,151
U. Memphis	192	58,700	9,482	4,117	10,521	892	2,157	6,101	4,052	439	9,464	11,475
Rochester Institute of Technology	193	58,175	6,328	0	903	1,750	18,059	22	2,623	0	20,264	8,226
U. Maryland Center for Environmental Science	194	56,033	0	43,867	10,614	42	289	0	219	0	90	912
East Carolina U.	195	55,611	554	3,684	35,936	11	2,177	1,039	1,976	220	2,015	7,999
U. Toledo	196	55,006	0	5,659	27,889	49	7,438	107	257	0	11,256	2,351
U. Wisconsin-Milwaukee	197	53,773	337	6,442	8,637	1,794	11,076	3,909	4,973	3,867	9,915	2,823
Ohio U.	198	53,735	712	1,618	15,739	101	4,501	2,031	1,377	0	19,502	8,154
CUNY, City C.	199	52,738	990	2,459	8,010	579	9,935	953	42	0	28,337	1,433
U. South Alabama	200	52,540	3,355	4,222	40,597	31	471	253	628	0	2,411	572
U. Texas Rio Grande Valley	201	52,016	824	2,049	25,619	1,881	4,499	635	3,575	59	3,573	9,302
Florida Atlantic U.	202	51,085	2,170	1,149	25,420	883	2,794	2,391	142	0	11,450	4,686
U. North Texas, Health Science Center	203	50,124	0	0	49,099	0	0	0	1,025	0	0	0
Portland State U.	204	50,045	1,370	2,090	15,844	933	2,911	1,400	5,018	0	9,160	11,319
Kent State U.	205	47,188	1,766	942	8,388	1,637	7,744	4,410	5,031	619	2,330	14,321

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. North Carolina, Charlotte	206	47,187	10,468	1,111	5,534	902	4,389	635	3,658	0	16,000	4,490
U. Puerto Rico, Medical Sciences Campus	207	45,014	0	29	44,985	0	0	0	0	0	0	0
U. California, Merced	208	44,890	157	2,916	10,943	2,299	7,307	1,284	3,065	788	13,852	2,279
San Jose State U.	209	44,309	8	12,777	1,133	0	2,041	20,152	247	1,596	1,864	4,491
Howard U.	210	44,163	1,328	248	24,940	222	5,277	1,968	843	0	8,401	936
Mercer U.	211	44,128	115	0	8,298	194	2,189	253	57	307	32,624	91
Texas Tech U., Health Sciences Center	212	44,072	0	0	42,959	0	0	0	0	0	0	1,113
U.S. Air Force Academy	213	43,941	640	0	140	0	2,933	274	2,464	0	28,489	9,001
Southern Methodist U.	214	42,562	1,412	6,954	1,533	1,486	3,591	1,093	1,595	632	9,207	15,059
Florida A&M U.	215	42,470	1,268	5,282	21,837	0	3,488	248	5	0	4,477	5,865
U. West Florida	216	41,977	1,845	138	1,511	45	695	59	7,861	0	21	29,802
Missouri U. of Science and Technology	217	41,939	2,349	1,247	601	421	2,762	101	132	192	33,895	239
Southern Illinois U., Carbondale	218	41,729	545	1,354	32,432	31	1,619	27	1,249	1,567	2,905	0
Louisiana State U., Health Sciences Center, New Orleans	219	40,914	0	0	40,914	0	0	0	0	0	0	0
Worcester Polytechnic Institute	220	39,878	7,301	0	1,791	1,253	4,991	0	1,457	0	21,029	2,056
Boise State U.	221	39,824	1,454	3,536	9,858	582	3,358	293	4,232	527	11,688	4,296
Brigham Young U., Provo	222	39,582	1,578	567	9,121	614	5,854	488	1,052	0	14,001	6,307
Loyola U., Chicago	223	39,223	100	13	33,699	405	1,286	1,007	700	0	0	2,013
Lehigh U.	224	38,185	2,164	1,191	4,448	187	3,396	448	86	47	23,447	2,771
SUNY, Upstate Medical U.	225	38,091	0	0	38,091	0	0	0	0	0	0	0
Marquette U.	226	37,777	178	0	13,155	1,863	2,517	1,371	784	0	8,988	8,921
CUNY, Hunter C.	227	37,478	2,001	1,147	7,408	95	4,739	15,915	1,468	0	0	4,705
North Carolina Agricultural and Technical State U.	228	37,339	1,861	129	16,756	872	1,889	24	0	0	11,766	4,042

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Stevens Institute of Technology	229	36,695	3,666	3,365	33	237	2,045	0	0	299	25,832	1,218
U. Denver	230	36,551	111	186	4,388	123	4,083	5,002	3,739	0	4,010	14,909
SUNY, Downstate Medical Center	231	36,015	0	0	36,015	0	0	0	0	0	0	0
Illinois Institute of Technology	232	34,334	3,005	246	11,618	211	3,609	0	254	36	15,241	114
Air Force Institute of Technology	233	34,016	2,733	967	0	1,313	8,478	0	0	0	20,525	0
Baylor U.	234	33,304	581	2,685	5,641	1,104	6,891	906	1,920	2,843	3,720	7,013
Texas A&M U.-Corpus Christi	235	32,944	1,008	13,494	5,669	47	1,362	12	77	434	7,193	3,648
U. South Dakota	236	32,028	363	87	18,568	181	5,059	582	373	0	3,243	3,572
San Francisco State U.	237	31,888	840	4,297	12,886	1,023	3,088	1,329	3,629	1,291	1,284	2,221
Morehouse School of Medicine	238	31,289	0	0	31,289	0	0	0	0	0	0	0
California Polytechnic State U., San Luis Obispo	239	30,923	850	1,362	11,743	1,711	10,500	90	256	0	4,116	295
Kennesaw State U.	240	30,381	3,369	0	3,466	2,427	2,079	769	5,746	295	2,044	10,186
U. Akron	241	30,020	7	192	1,928	178	9,643	338	154	0	16,650	930
SUNY, C. of Environmental Science and Forestry	242	29,137	4	554	26,495	0	257	0	330	0	1,339	158
U. Massachusetts, Dartmouth	243	28,036	1,393	11,550	2,062	1,026	1,755	156	848	0	7,764	1,482
U. Minnesota, Duluth	244	27,530	283	3,466	19,286	236	1,065	1	123	0	2,399	671
Illinois State U.	245	27,082	78	809	3,688	296	886	18	796	13	0	20,498
Eastern Virginia Medical School	246	27,064	0	0	27,064	0	0	0	0	0	0	0
Desert Research Institute	247	26,991	7	23,991	2,993	0	0	0	0	0	0	0
U. Puerto Rico, Mayaguez	248	26,877	0	5,676	2,526	176	1,172	0	96	0	16,446	785
U. Missouri, Kansas City	249	26,708	1,434	401	12,252	14	2,010	789	878	0	7,087	1,843

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Rutgers, State U. New Jersey, Newark	250	26,661	1,970	3,313	10,800	0	1,978	2,169	1,052	9	0	5,370
Northern Illinois U.	251	26,570	935	395	4,306	129	6,106	1,034	4,014	0	1,418	8,233
U. North Carolina, Greensboro	252	26,325	16	0	8,554	210	3,521	3,471	728	0	0	9,825
Louisiana State U., Health Sciences Center, Shreveport	253	26,262	0	0	26,262	0	0	0	0	0	0	0
Louisiana Tech U.	254	26,143	1,856	77	2,565	726	1,843	474	706	0	11,513	6,383
Western Michigan U. and Homer Stryker M.D. School of Medicine	255	25,071	212	1,546	5,488	73	1,221	181	844	0	5,595	9,911
Teachers C., Columbia U.	256	24,865	1,948	0	4,651	0	0	1,760	15,875	0	0	631
New Mexico Institute of Mining and Technology	257	24,616	1,169	6,791	395	155	1,970	0	0	0	14,043	93
Nova Southeastern U.	258	24,567	246	8,878	14,236	0	0	552	22	343	0	290
Catholic U. of America	259	24,484	0	0	2,368	0	17,660	294	402	91	2,587	1,082
Loma Linda U.	260	24,408	i 0 i	0 i	24,405 i	0 i	0 i	3 i	0 i	0 i	0 i	0 i
U. Puerto Rico, Rio Piedras	261	24,088	654	2,537	3,728	172	5,127	14	1,333	4,417	37	6,069
Creighton U.	262	24,039	846 i	539 i	17,527 i	237 i	1,691 i	303 i	1,135 i	0 i	0 i	1,761 i
California State U., Sacramento	263	23,544	123	909	1,324	41	344	298	7,331	2,402	7,507	3,265
Albany Medical C.	264	23,028	0	0	23,028	0	0	0	0	0	0	0
Delaware State U.	265	23,017	1	633	13,791	834	4,306	0	169	530	2,248	505
Rowan U.	266	22,892	391	451	11,107	37	1,190	291	66	0	8,447	912
Villanova U.	267	22,837	498	809	2,381	186	2,743	1,244	752	0	9,612	4,612
Miami U.	268	22,380	775	1,031	11,143	376	1,046	1,368	471	0	3,070	3,100
Texas A&M U.-Kingsville	269	22,268	0	942	16,431	0	196	113	0	28	1,827	2,731
U. Alaska, Anchorage	270	21,724	685	5,186	8,863	0	16	177	2,233	2,102	1,393	1,069
California State U., Northridge	271	21,095	189	1,832	10,053	786	3,225	419	695	845	714	2,337
Tuskegee U.	272	20,562	401	0	8,427	1,216	163	0	4,803	180	5,372	0
Fordham U.	273	20,287	635	0	1,819	242	868	2,095	964	0	0	13,664
Marshall U.	274	19,622	78	164	15,738	0	684	0	1	0	1,158	1,799

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Chapman U.	275	19,592	244	231	7,139	0	1,816	0	3,068	0	0	7,094
New York Medical C.	276	19,398	0	0	19,398	0	0	0	0	0	0	0
U. Nebraska, central administration	277	18,860	3,634	0	12,205	0	111	0	60	0	1,687	1,163
California State U., Long Beach	278	18,664	74	125	5,335	621	4,363	1,660	723	335	4,223	1,205
U. Tulsa	279	18,648	2,426	112	920	36	585	796	92	0	13,213	468
CUNY, Queens C.	280	18,391	155	427	10,992	302	1,446	1,327	696	2,298	0	748
Meharry Medical C.	281	18,286	0	0	18,286	0	0	0	0	0	0	0
Jackson State U.	282	18,160	567	1,794	1,902	68	9,159	69	325	819	3,354	103
Southern Illinois U., Edwardsville	283	18,088	80	1,383	10,357	263	586	131	315	50	2,348	2,575
Prairie View A&M U.	284	18,018	293	57	8,105	7	1,082	851	0	22	5,121	2,480
Northeast Ohio Medical U.	285	18,016	0	6	17,625	0	0	0	88	288	0	9
Oakland U.	286	18,002	847	0	7,041	73	4,650	467	312	0	3,836	776
Florida Institute of Technology	287	17,876	4,242	2,096	1,384	345	2,078	1,813	0	107	4,782	1,029
U. North Carolina, Wilmington	288	17,515	110	5,193	7,782	83	597	314	390	344	1,226	1,476
Clarkson U.	289	17,147	506	4	1,163	1,046	2,498	22	83	0	10,889	936
Central Michigan U.	290	17,102	2	661	8,603	183	2,908	413	215	2,063	559	1,495
Bowling Green State U.	291	17,026	295	1,112	1,268	341	2,362	991	3,683	0	60	6,914
Duquesne U.	292	16,947	0	84	9,595	255	2,581	115	21	0	525	3,771
U. Texas Health Science Center, Tyler	293	16,538	0	0	16,538	0	0	0	0	0	0	0
North Carolina Central U.	294	16,227	0	303	8,401	0	2,774	0	662	0	1,212	2,875
Rosalind Franklin U. of Medicine and Science	295	16,126	0	0	16,011	0	0	115	0	0	0	0
California State U., San Bernardino	296	16,062	1,831	118	2,115	681	1,219	2,708	534	779	2,434	3,643
U. New Orleans	297	15,328	2,045	1,778	817	204	2,144	335	2,646	368	2,376	2,615
Tennessee State U.	298	15,236	328	0	11,924	98	452	364	3	0	1,207	860
Humboldt State U.	299	15,076	87	1,490	7,570	0	201	3	308	0	5,232	185

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Idaho State U.	300	14,972	792	1,447	3,638	0	3,709	656	279	0	4,039	412
Alcorn State U.	301	14,435	0	0	8,664	0	0	0	5,428	0	343	0
U. Nebraska, Omaha	302	14,302	3,287	7	4,020	333	169	471	2,475	20	993	2,527
East Tennessee State U.	303	14,197	0	6	10,721	19	368	2,381	406	0	2	294
Tennessee Technological U.	304	13,801	2,416	74	2,025	0	1,289	12	24	0	7,267	694
Charles R. Drew U. of Medicine and Science	305	13,739	0	0	13,739	0	0	0	0	0	0	0
U. Missouri, Saint Louis	306	13,697	23	0	6,262	211	2,636	317	2,784	0	21	1,443
U.S. Naval Academy	307	13,621	1,190	1,079	0	936	2,794	0	0	0	7,482	140
Hampton U.	308	13,605	448	3,779	1,777	217	4,044	25	1,604	0	1,049	662
New School	309	13,421	0	800	23	0	0	1,726	3,802	0	2,828	4,242
Morgan State U.	310	13,253	222	3,955	4,197	328	34	62	3	0	3,990	462
Tarleton State U.	311	13,171	10	3,504	6,594	192	303	65	145	692	61	1,605
South Dakota School of Mines and Technology	312	12,973	4	0	0	141	1,602	0	0	0	11,226	0
Alabama A&M U.	313	12,840	441	0	7,546	123	932	256	437	0	2,354	751
Montana Technological U.	314	12,731	0	7,235	1,006	0	62	0	0	0	4,428	0
Embry-Riddle Aeronautical U.	315	12,478	0	818	92	33	2,332	0	394	264	8,374	171
California State U., Los Angeles	316	12,476	46	0	3,023	35	6,351	76	1,629	0	1,009	307
U. Baltimore	317	12,451	10	0	0	0	72	0	3,392	0	0	8,977
U. North Florida	318	12,341	123	144	1,373	43	524	52	788	0	2,392	6,902
CUNY, John Jay C. of Criminal Justice	319	12,295	74	0	254	5	222	2,082	349	0	0	9,309
U. Guam	320	12,249	0	2,753	8,964	28	0	0	256	0	0	248
U. of the Virgin Islands	321	12,236	309	830	9,712	740	15	0	1	0	61	568
U. Hawaii, system office	322	12,159	0	10,531	0	0	0	0	0	1,628	0	0
Ball State U.	323	12,145	1,236	57	2,880	140	993	338	1,381	0	0	5,120
Western Washington U.	324	11,983	93	3,822	937	499	1,183	1,038	817	675	832	2,087
Texas Tech U., Health Sciences Center, El Paso	325	11,883	0	0	11,649	0	0	0	0	0	0	234

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. South Florida, Saint Petersburg	326	11,686	0	0	1,233	0	61	1,394	1	0	0	8,997
Virginia State U.	327	11,457	0	157	6,886	1,333	0	0	54	0	793	2,234
Ponce Health Sciences U.	328	11,390	0	0	11,390	0	0	0	0	0	0	0
Georgia Southern U.	329	11,166	134	774	2,331	57	692	14	308	4,067	1,257	1,532
U.S. Military Academy	330	10,765	1,687	111	578	116	35	28	78	0	3,799	4,333
Langston U.	331	10,719	0	0	10,287	2	37	0	0	0	0	393
California State U., San Marcos	332	10,595	654	0	1,950	711	901	1,041	990	2,402	797	1,149
Midwestern U.	333	10,343	0	0	10,343	0	0	0	0	0	0	0
Montclair State U.	334	10,225	235	1,424	1,897	621	134	262	182	0	0	5,470
Clark U.	335	10,193	34	1,787	2,057	0	889	829	3,694	136	0	767
Xavier U. Louisiana	336	10,152	442	0	3,255	0	5,879	47	0	0	376	153
William Paterson U.	337	10,122	133	299	1,040	257	264	1,136	1,295	0	0	5,698
U. Arkansas, Little Rock	338	9,975	3,486	0	2,483	7	926	0	116	0	2,116	841
Wesleyan U.	339	9,958	0	444	1,810	553	2,876	991	1,040	0	0	2,244
Bryn Mawr C.	340	9,846	332	185	829	460	1,057	628	1,480	0	0	4,875
St. Edward's U.	341	9,650	1,010	1,077	2,210	470	456	24	366	200	0	3,837
CUNY, Graduate School of Public Health and Health Policy	342	9,521	0	0	7,882	0	0	1,639	0	0	0	0
Rhode Island C.	343	9,480	15	0	592	0	132	51	19	0	0	8,671
Sam Houston State U.	344	9,445	49	86	2,297	368	550	308	2,465	36	21	3,265
Salisbury U.	345	9,368	351	1,334	2,004	0	534	60	581	6	0	4,498
Western Kentucky U.	346	9,281	18	979	3,422	55	1,845	749	207	0	597	1,409
U. Tennessee, Chattanooga	347	9,280	634	0	853	335	35	115	88	2,817	2,460	1,943
Clark Atlanta U.	348	9,048	405	0	6,360	128	1,265	0	136	0	214	540
U. Arkansas, Pine Bluff	349	9,024	0	0	7,878	0	448	0	0	679	0	19
Arkansas State U., Jonesboro	350	8,945	332	0	6,659	3	988	23	36	312	553	39
U. Michigan, Dearborn	351	8,813	0	0	313	228	217	82	245	175	6,832	721
Wellesley C.	352	8,810	632	154	1,515	109	1,426	0	1,240	0	0	3,734
Pacific U.	353	8,753	0	0	5,294	57	962	0	294	0	0	2,146

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
James Madison U.	354	8,726	661	1,003	1,146	312	1,295	146	61	31	313	3,758
Claremont Graduate U.	355	8,715	306	0	0	3	0	969	1,356	0	0	6,081
California State U., Fresno	356	8,599	46	125	4,404	214	1,157	103	700	0	1,492	358
Kentucky State U.	357	8,433	110	0	8,139	3	0	180	0	0	0	1
CUNY, Advanced Science Research Center	358	8,310	0	3	3,935	0	2,983	0	0	0	1,379	10
Indiana U. Pennsylvania	359	8,119	10	497	1,474	20	269	428	939	0	0	4,482
Norfolk State U.	360	8,050	5,010	0	108	58	819	0	0	0	1,940	115
U. Washington, Bothell	361	7,950	738	462	653	20	256	0	35	31	161	5,594
Middle Tennessee State U.	362	7,673	323	500	1,679	169	417	0	1,325	2	59	3,199
C. Charleston	363	7,610	280	1,212	1,366	146	923	65	162	1,052	0	2,404
California State U., Bakersfield	364	7,591	30	262	316	2,952	420	191	391	0	2,050	979
U. New England	365	7,346	0	1,405	5,864	0	23	35	19	0	0	0
Loyola Marymount U.	366	7,272	3	761	542	124	423	1,441	868	0	160	2,950
Edward Via C. of Osteopathic Medicine	367	7,225	0	0	7,225	0	0	0	0	0	0	0
Eastern Michigan U.	368	7,175	201	399	2,322	143	491	94	752	0	304	2,469
California State U., Fullerton	369	7,173	191	420	2,843	29	1,180	92	212	441	609	1,156
U. Maryland, Eastern Shore	370	7,133	0	4,369	721	0	1,278	0	720	0	40	5
CUNY, Brooklyn C.	371	7,064	346	690	1,838	176	1,307	1,391	261	451	0	604
Seton Hall U.	372	7,056	0	0	810	0	0	0	0	0	0	6,246
U. Hawaii, Hilo	373	6,864	0	842	4,212	944	164	0	348	308	0	46
West Chester U. Pennsylvania	374	6,777	25	60	1,598	340	504	295	958	7	0	2,990
U. Southern Maine	375	6,654	1,283	41	893	0	15	0	3,431	372	23	596
Grand Valley State U.	376	6,592	14	2,818	1,338	299	276	47	964	48	400	388
Texas Christian U.	377	6,552	26	178	1,932	169	690	632	591	0	73	2,261
California State U., Monterey Bay	378	6,444	512	1,327	3,887	0	65	290	111	0	0	252

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Oklahoma, Tulsa	379	6,373	0	0	2,328	0	0	0	126	0	1,549	2,370
Amherst C.	380	6,325	38	169	1,570	267	2,374	83	879	0	0	945
Claremont McKenna C.	381	6,214	0	173	338	74	144	65	4,997	132	0	291
DePaul U.	382	6,144	1,661	37	479	0	229	2,812	23	0	0	903
California State Polytechnic U., Pomona	383	6,099	225	295	2,983	42	693	0	0	0	1,085	776
Texas A&M International U.	384	6,068	2	96	3,569	8	4	100	17	208	30	2,034
Smith C.	385	6,041	427	117	2,368	296	499	521	549	0	553	711
U. San Diego	386	6,036	0	185	357	274	1,300	223	614	13	776	2,294
New Jersey City U.	387	5,961	160	55	675	15	60	200	0	0	0	4,796
Missouri State U.	388	5,910	2	34	1,646	0	386	0	367	0	3,234	241
Florida Gulf Coast U.	389	5,907	145	877	153	17	138	0	81	0	59	4,437
West Virginia State U.	390	5,829	0	0	5,424	30	235	0	40	0	34	66
New York Institute of Technology	391	5,820	181	0	4,479	0	0	0	0	0	1,045	115
U. Central Oklahoma	392	5,682	133	0	367	126	701	0	0	102	0	4,253
Bucknell U.	393	5,625	200	94	608	418	538	152	119	300	1,632	1,564
Azusa Pacific U.	394	5,598	12	0	995	42	179	742	701	10	50	2,867
Grinnell C.	395	5,500	416	0	363	798	1,012	149	917	0	0	1,845
Southern U. and A&M C., Agricultural Research and Extension Center	396	5,448	0	0	5,448	0	0	0	0	0	0	0
West Texas A&M U.	397	5,437	58	434	2,915	52	127	0	18	239	1,178	416
Oklahoma State U., Center for Health Sciences	398	5,408	89	0	4,815	0	0	126	0	0	309	69
CUNY, Graduate Center	399	5,399	0	2	51	34	353	633	3,090	0	0	1,236
Gallaudet U.	400	5,382	645	71	1,311	3	26	1,117	82	0	0	2,127
Purdue U., Northwest	401	5,272	919	0	615	0	115	8	0	102	1,352	2,161
U. Detroit Mercy	402	5,210	0	8	4,796	2	13	124	0	0	227	40
Williams C.	403	5,188	115	205	720	419	1,312	91	873	0	0	1,453
Alfred U.	404	5,153	0	0	108	0	13	0	0	0	5,032	0
Long Island U.	405	5,113	0	40	4,561	0	198	45	2	0	12	255

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. New Haven	406	5,062	129	152	91	0	576	54	3,030	0	1,013	17
Naval War C.	407	5,060	0	0	0	0	0	0	679	0	0	4,381
Franklin and Marshall C.	408	5,041	90	710	815	255	722	197	297	6	0	1,949
Western U. of Health Sciences	409	4,951	0	0	3,936	0	0	0	0	0	0	1,015
U. Massachusetts, central office	410	4,916	0	0	329	0	0	0	1,741	1,355	12	1,479
Texas Southern U.	411	4,893	250	140	2,695	144	211	0	0	1,323	130	0
Lamar U.	412	4,848	582	0	685	132	188	0	0	0	1,609	1,652
U. of the District of Columbia	413	4,800	0	84	2,600	629	0	22	0	0	708	757
Oregon Institute of Technology	414	4,793	60	324	2,031	99	0	143	0	0	630	1,506
Fisk U.	415	4,748	86	0	4,520	0	0	0	0	0	0	142
U. Colorado Colorado Springs	416	4,720	928	79	528	67	217	591	39	297	694	1,280
Fayetteville State U.	417	4,695	220	250	1,236	167	200	0	151	0	0	2,471
CUNY, Lehman C.	418	4,690	0	0	205	26	1,624	0	739	0	0	2,096
Southern Connecticut State U.	419	4,627	19	168	841	142	430	378	289	486	3	1,871
U. North Carolina, Asheville	420	4,602	128	128	1,271	6	680	0	1	2	10	2,376
Lincoln U., Jefferson City	421	4,581	0	0	4,089	234	71	0	112	75	0	0
U. Northern Colorado	422	4,571	0	140	1,679	672	110	242	314	0	0	1,414
Morehouse C.	423	4,564	914	0	116	256	1,704	61	26	1,350	0	137
Fort Valley State U.	424	4,563	101	0	4,321	36	104	0	0	0	0	1
Southern U. and A&M C., Baton Rouge	425	4,492	172	0	430	39	1,167	0	0	0	1,905	779
Texas Woman's U.	426	4,477	15	0	2,121	68	155	587	50	0	0	1,481
Youngstown State U.	427	4,447	17	9	100	12	135	63	39	0	3,993	79
Carleton C.	428	4,388	291	1,607	532	216	723	145	432	0	0	442
National Defense U.	429	4,231	0	0	0	0	0	0	2,155	0	0	2,076
Swarthmore C.	430	4,203	12	0	755	171	946	85	339	173	314	1,408

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. North Carolina, general administration	431	4,154	723	100	311	0	632	0	0	149	2,239	0
MGH Institute of Health Professions	432	4,130	0	0	3,494	0	0	0	0	0	0	636
Milwaukee School of Engineering	433	4,026	0	0	132	0	69	0	0	0	3,825	0
Barnard C.	434	4,010	1	9	660	74	1,004	1,359	432	0	0	471
CUNY, C. Staten Island	435	3,986	63	0	923	470	1,657	389	14	0	1	469
U. Central del Caribe	436	3,953	0	0	3,953	0	0	0	0	0	0	0
U. Ana G. Mendez, Gurabo	437	3,945	0	0	438	0	1,061	0	0	0	2,324	122
Roseman U. of Health Sciences	438	3,916	0	0	3,916	0	0	0	0	0	0	0
Pace U.	439	3,855	775	0	913	0	199	10	52	0	435	1,471
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	440	3,769	0	0	3,769	0	0	0	0	0	0	0
Central State U.	441	3,766	8	163	2,923	44	63	0	0	225	340	0
Colgate U.	442	3,756	362	511	726	50	769	270	440	0	0	628
Haverford C.	443	3,752	86	229	582	63	2,039	147	178	0	0	428
U. of the Sciences Philadelphia	444	3,740	0	0	3,096	0	644	0	0	0	0	0
Trinity U.	445	3,736	29	113	452	53	1,369	348	718	0	103	551
Dakota State U.	446	3,710	3,694	0	7	0	5	0	0	0	0	4
Murray State U.	446	3,710	0	120	3,136	62	358	0	0	0	0	34
Toyota Technological Institute, Chicago	448	3,681	3,681	0	0	0	0	0	0	0	0	0
Stephen F. Austin State U.	449	3,679	0	292	1,992	642	85	2	213	0	15	438
South Carolina State U.	450	3,659	100	0	1,318	0	930	0	0	0	662	649
U. Northern Iowa	451	3,628	0	161	215	4	1,289	8	1,924	0	0	27
Touro U.	452	3,543	0	0	3,543	0	0	0	0	0	0	0
U. Central Arkansas	453	3,477	442	0	682	45	665	82	5	229	0	1,327
U. Washington, Tacoma	454	3,471	555	1,827	597	0	0	0	36	37	0	419

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Wisconsin-Stevens Point	455	3,464	92	146	1,956	30	202	59	135	0	584	260
Towson U.	456	3,423	500	653	914	84	787	104	198	5	0	178
Pennsylvania State U., Behrend	457	3,414	138	1,154	124	94	151	46	53	0	1,508	146
Texas A&M U.-Commerce	458	3,403	64	0	1,040	13	883	334	66	0	28	975
Minnesota State U., Mankato	459	3,392	40	32	645	0	127	0	349	0	1,472	727
Albany C. of Pharmacy and Health Sciences	460	3,383	0	0	3,381	0	0	0	0	0	0	2
Tougaloo C.	461	3,380	0	0	1,444	0	849	0	0	0	0	1,087
Harvey Mudd C.	462	3,353	730	0	457	219	526	0	0	476	884	61
St. Cloud State U.	463	3,275	116	13	887	0	12	7	278	1	121	1,840
Appalachian State U.	464	3,268	198	583	1,663	41	262	52	226	30	5	208
Reed C.	465	3,240	128	0	1,588	370	623	209	322	0	0	0
California State U., Chico	466	3,232	14	140	1,089	61	186	52	453	0	567	670
Central Washington U.	467	3,223	5	2,110	517	154	229	1	119	0	70	18
Rutgers, State U. New Jersey, Camden	468	3,211	1,169	0	32	0	80	46	562	0	0	1,322
Philadelphia C. of Osteopathic Medicine	469	3,162	0	0	3,162	0	0	0	0	0	0	0
Colorado State U., Pueblo	470	3,107	43	0	1,693	11	6	70	7	0	178	1,099
U. of the Pacific	471	3,078	0	0	1,187	0	431	0	0	701	68	691
Skidmore C.	472	3,012	1	762	1,221	20	334	423	163	0	0	88
Bowdoin C.	473	2,991	16	507	1,476	71	364	0	243	0	0	314
Pomona C.	474	2,985	195	236	296	270	519	143	580	0	0	746
Mount Holyoke C.	475	2,979	273	0	142	370	1,037	572	295	0	0	290
SUNY, C. of Optometry	476	2,968	0	0	2,968	0	0	0	0	0	0	0
California State U., Maritime Academy	477	2,959	0	0	0	0	0	0	0	0	2,959	0
U. Nebraska, Kearney	478	2,919	0	0	1,810	4	652	53	76	41	0	283
Saint Joseph's U.	479	2,851	42	0	477	17	508	472	172	0	0	1,163

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Grambling State U.	480	2,836	0	0	0	82	845	0	0	0	0	1,909
Saginaw Valley State U.	481	2,818	8	11	1,381	617	300	9	124	61	239	68
Pennsylvania State U., Harrisburg	482	2,805	382	11	187	32	38	58	1,477	0	312	308
U. Richmond	483	2,783	0	49	937	90	450	206	579	0	0	472
Dillard U.	484	2,772	0	0	1,776	0	606	0	348	0	0	42
Spelman C.	485	2,751	86	0	536	202	595	526	43	0	16	747
Lewis and Clark C.	486	2,750	32	294	584	100	268	87	5	0	0	1,380
Hope C.	487	2,745	0	0	477	10	1,843	236	0	0	128	51
U. San Francisco	488	2,712	27	194	456	14	83	39	300	82	0	1,517
CUNY, New York City C. of Technology	489	2,711	210	209	631	694	350	0	4	0	478	135
U. Wisconsin-La Crosse	490	2,692	84	31	807	107	298	26	945	57	0	337
Northwest Indian C.	491	2,659	0	1,043	104	0	0	0	1,054	0	0	458
Stockton U.	492	2,634	0	2,484	78	0	15	0	49	0	4	4
Western Carolina U.	493	2,633	0	494	1,095	7	342	0	215	0	365	115
CUNY, system office	494	2,619	338	148	30	0	0	0	0	196	1,001	906
Alabama State U.	495	2,577	0	0	2,577	0	0	0	0	0	0	0
Elon U.	496	2,545	90	0	367	161	89	159	209	0	87	1,383
Pittsburg State U.	497	2,513	0	0	393	0	30	0	100	0	1,990	0
U. South Carolina, Aiken	498	2,481	0	0	625	0	0	0	0	0	1,520	336
Northeastern Illinois U.	499	2,478	217	131	1,325	60	84	179	82	0	0	400
Occidental C.	500	2,458	254	817	739	38	424	178	8	0	0	0
Jacksonville State U.	501	2,429	31	0	114	0	0	0	0	0	22	2,262
Yeshiva U.	502	2,420	0	0	2,420	0	0	0	0	0	0	0
Purdue U., Fort Wayne	503	2,416	0	0	680	50	101	97	24	47	221	1,196
CUNY, Baruch C.	504	2,387	0	79	396	175	375	133	728	101	0	400
Western Illinois U.	505	2,373	37	6	1,413	14	57	16	201	154	409	66
U. Louisiana, Monroe	506	2,364	0	307	1,795	0	75	0	182	0	0	5
Northern Kentucky U.	507	2,363	62	0	623	0	701	596	43	0	0	338
St. John's U., New York	508	2,352	128	0	1,763	59	273	55	31	0	0	43
Sul Ross State U.	508	2,352	0	0	1,578	0	0	0	774	0	0	0
Santa Clara U.	510	2,319	45	7	667	6	423	26	135	35	876	99
Austin Peay State U.	511	2,285	11	14	912	0	232	0	0	0	0	1,116

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Erikson Institute	512	2,279	0	0	0	0	0	0	0	0	0	2,279
U. Wisconsin-Superior	513	2,250	0	25	2,219	0	2	0	0	0	4	0
Colorado C.	514	2,233	0	109	307	38	102	84	413	0	0	1,180
Seattle U.	515	2,223	35	37	248	206	157	0	162	0	283	1,095
U. Houston-Downtown	516	2,216	71	27	38	75	77	0	143	8	42	1,735
Winthrop U.	517	2,189	0	5	513	1	443	0	184	0	0	1,043
Wheaton C., Wheaton	518	2,173	5	136	216	7	201	363	1,132	0	3	110
Pepperdine U.	519	2,170	0	0	358	22	88	220	71	266	0	1,145
Johnson C. Smith U.	520	2,148	395	90	483	0	66	0	0	0	0	1,114
SUNY, Geneseo	521	2,139	0	298	233	106	902	262	157	0	0	181
Bates C.	522	2,135	47	119	845	30	531	154	308	40	0	61
SUNY, Buffalo State	523	2,124	0	1,050	645	0	19	35	260	0	0	115
Polytechnic U. Puerto Rico	524	2,118	863	0	0	0	0	0	0	0	1,021	234
Keck Graduate Institute	525	2,095	i 83	i 0	i 1,537	i 23	i 0	i 0	i 0	i 0	i 326	i 126
U. Wisconsin-Green Bay	526	2,083	i 58	i 92	i 1,173	i 18	i 127	i 36	i 79	i 0	i 353	i 147
Oberlin C.	527	2,076	179	157	971	44	485	58	97	0	0	85
U. North Georgia	528	2,068	12	129	286	6	68	0	50	0	0	1,517
U. Texas, Tyler	529	2,063	32	4	1,378	95	44	37	45	0	394	34
Northwestern State U. Louisiana	530	2,058	332	0	261	19	0	6	657	0	0	783
Niagara U.	531	2,057	0	0	94	4	78	2	393	0	0	1,486
Hamilton C.	532	2,050	8	72	180	12	198	155	216	0	0	1,209
Coastal Carolina U.	533	2,042	82	1,573	305	0	0	82	0	0	0	0
Black Hills State U.	534	2,031	0	0	847	0	407	0	0	0	0	777
Morehead State U.	535	2,028	0	7	697	0	0	109	5	0	806	404
Eastern Washington U.	536	2,024	0	66	564	2	152	47	1,126	0	14	53
Winston-Salem State U.	537	2,011	0	0	650	45	320	0	453	0	0	543
Florida Polytechnic U.	538	2,006	112	0	50	8	68	0	4	0	1,739	25
Hawaii Pacific U.	539	1,980	0	324	1,265	11	0	0	350	0	10	20
Southeastern Louisiana U.	540	1,971	31	0	827	0	106	0	176	0	0	831
Christopher Newport U.	541	1,961	0	0	584	0	758	44	0	0	575	0

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
California State U., Dominguez Hills	542	1,957	243	7	244	76	821	114	58	0	0	394
Des Moines U.	543	1,954	0	82	1,406	0	0	0	155	0	0	311
Willamette U.	544	1,953	0	14	313	11	363	107	13	74	0	1,058
Hobart and William Smith Colleges	545	1,919	0	118	1,335	80	263	11	39	0	0	73
Bowie State U.	546	1,911	508	0	122	0	246	0	0	0	0	1,035
Connecticut C.	547	1,894	56	0	348	0	902	0	588	0	0	0
U. Illinois, Springfield	548	1,876	0	0	8	0	12	8	1,699	0	0	149
U. South Florida, Sarasota-Manatee	549	1,872	0	0	186	0	20	147	165	0	0	1,354
U. of St. Thomas (MN)	550	1,870	35	15	471	37	360	66	4	0	407	475
U. Puerto Rico, Cayey	550	1,870	0	0	802	0	140	0	150	778	0	0
Trinity C., Hartford	552	1,858	3	0	983	28	159	48	272	0	86	279
Colby C.	553	1,852	37	152	812	32	397	100	111	0	0	211
Roger Williams U.	553	1,852	0	700	314	13	154	204	38	0	36	393
Babson C.	555	1,845	0	0	0	0	0	0	0	0	0	1,845
Macalester C.	556	1,808	119	427	343	23	435	41	194	0	0	226
Mercyhurst U.	557	1,801	65	41	1,315	19	129	23	81	0	0	128
U. of the Incarnate Word	558	1,800	0	0	836	127	418	0	0	0	47	372
SUNY, Oswego	559	1,781	27	52	359	10	388	8	48	556	231	102
Liberty U.	560	1,780	150	0	867	22	55	11	13	0	311	351
Davidson C.	561	1,777	0	0	525	74	352	351	247	0	0	228
Alaska Pacific U.	562	1,774	0	1,406	221	0	0	0	0	0	0	147
Kettering U.	563	1,765	15	0	26	7	211	0	0	0	1,354	152
C. Wooster	564	1,758	0	120	509	63	568	21	283	22	0	172
Clafflin U.	565	1,746	447	259	350	27	508	0	0	0	145	10
Hofstra U.	566	1,744	58	20	472	12	48	19	103	0	521	491
Union C., Schenectady	567	1,740	312	189	80	18	609	56	72	0	118	286
SUNY, C. Plattsburgh	568	1,729	0	850	398	0	376	25	0	0	0	80
Savannah State U.	569	1,720	0	633	320	0	63	0	167	11	526	0
U. Wisconsin-Oshkosh	570	1,713	58	91	953	16	124	34	52	0	300	85
Indiana State U.	571	1,682	0	199	852	27	155	13	3	0	1	432
Gettysburg C.	572	1,664	1	209	435	3	301	108	468	0	0	139

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Eastern Connecticut State U.	573	1,659	6	22	302	5	10	215	198	101	12	788
Middlebury C.	574	1,657	269	270	317	0	459	205	137	0	0	0
Franklin W. Olin C. of Engineering	575	1,655	0	0	0	0	0	0	0	0	534	1,121
Palmer C. of Chiropractic, Davenport	576	1,650	0	0	1,650	0	0	0	0	0	0	0
Mills C.	577	1,643	0	0	121	0	0	0	109	0	0	1,413
Furman U.	578	1,628	22	16	412	0	983	182	13	0	0	0
CUNY, York C.	579	1,621	61	85	377	17	883	48	12	0	91	47
La Sierra U.	580	1,581	0	0	132	0	1	80	0	0	0	1,368
Calvin U.	581	1,577	255	37	519	32	462	0	105	0	111	56
California State U., Channel Islands	582	1,572	2	0	942	341	57	10	68	97	0	55
Lafayette C.	583	1,554	124	0	118	119	379	123	54	0	184	453
U. Wisconsin-Eau Claire	584	1,530	0	8	145	105	930	203	77	0	0	62
U. Hartford	585	1,528	7	0	38	183	0	0	0	0	1,300	0
Northern Michigan U.	586	1,520	0	155	684	1	24	183	0	0	0	473
Albany State U.	587	1,491	0	18	1,145	0	150	0	0	0	16	162
California State U., Stanislaus	588	1,477	290	0	910	160	25	11	39	0	0	42
Fort Lewis C.	589	1,460	0	22	640	0	1	0	37	0	760	0
U. Michigan, Flint	590	1,448	14	0	213	0	40	0	3	112	152	914
Marshall B. Ketchum U.	591	1,430	0	0	1,430	0	0	0	0	0	0	0
CUNY, Medgar Evers C.	592	1,397	0	0	883	61	362	0	77	0	0	14
SUNY, C. Brockport	593	1,390	0	396	846	7	48	5	70	0	0	18
Central Connecticut State U.	594	1,381	16	61	112	24	118	12	504	0	119	415
U. Houston-Clear Lake	595	1,370	37	0	279	0	520	209	63	0	5	257
Bradley U.	596	1,357	0	0	92	5	279	3	23	0	945	10
Lawrence Technological U.	597	1,352	31	0	0	53	9	0	0	0	882	377
U. Alaska, Southeast	598	1,341	0	309	676	0	0	0	0	356	0	0
U. of Mary Washington	599	1,315	1	17	100	12	48	12	90	0	0	1,035
Monmouth U.	600	1,294	0	1,082	164	0	18	0	30	0	0	0

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Fairfield U.	601	1,279	0	0	146	43	442	0	0	13	60	575
Benedict C.	602	1,269	276	157	158	52	374	0	0	0	252	0
Salish Kootenai C.	603	1,252	0	0	213	0	553	0	0	0	0	486
National U. of Natural Medicine	604	1,245	0	0	1,245	0	0	0	0	0	0	0
Heidelberg U.	605	1,237	0	1,222	15	0	0	0	0	0	0	0
U. Minnesota, Morris	606	1,234	3	216	53	197	24	2	139	0	0	600
New England C. of Optometry	607	1,223	0	0	1,223	0	0	0	0	0	0	0
Saint Michael's C.	608	1,200	0	0	775	25	269	131	0	0	0	0
U. Puerto Rico, Humacao	609	1,195	0	0	295	0	852	48	0	0	0	0
Saint John's U., Colleeville	610	1,191	i 26	i 11	i 140	i 17	i 139	i 25	i 202	i 0	i 0	i 631
Manhattan C.	611	1,190	0	14	91	0	55	0	0	0	809	221
Biola U.	612	1,155	i 41	i 0	i 748	i 12	i 82	i 13	i 39	i 0	i 162	i 58
Emerson C.	613	1,145	450	0	241	0	0	0	95	0	0	359
California Lutheran U.	614	1,143	76	0	310	56	91	39	77	21	0	473
Fort Hays State U.	614	1,143	0	331	371	0	155	0	20	0	0	266
Andrews U.	616	1,126	0	64	35	3	184	0	715	0	47	78
C. of Saint Benedict	616	1,126	i 53	i 12	i 157	i 18	i 176	i 28	i 68	i 0	i 0	i 614
Dine C.	616	1,126	0	0	1,074	0	0	0	44	0	8	0
Eastern Kentucky U.	619	1,125	0	7	885	50	0	13	20	0	0	150
Doane U.	620	1,093	181	0	585	0	121	0	0	0	0	206
Kenyon C.	621	1,092	0	0	569	31	444	0	24	0	0	24
U. Wisconsin-Platteville	622	1,084	i 18	i 70	i 389	i 20	i 99	i 26	i 62	i 0	i 145	i 255
Whitman C.	623	1,083	12	52	464	0	460	12	39	0	0	44
Keene State C.	624	1,061	0	39	549	0	91	0	0	374	8	0
Providence C.	625	1,042	0	166	589	0	93	122	5	0	41	26
Albion C.	626	1,040	17	53	118	16	380	56	102	11	0	287
Dickinson C.	627	1,037	5	31	307	6	71	41	15	0	0	561
Rhode Island School of Design	628	1,027	i 46	i 0	i 500	i 0	i 0	i 0	i 145	i 0	i 0	i 336
St. Olaf C.	629	1,010	22	102	288	109	139	37	139	0	0	174

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Vassar C.	630	1,009	153	11	34	428	172	100	111	0	0	0
U.S. Army War C.	631	1,000	i 0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	1,000 i
Augsburg U.	632	991	0	0	34	0	436	26	0	0	0	495
Canisius C.	633	950	0	0	0	0	191	0	0	752	0	7
U. Portland	634	942	0	3	179	20	173	102	21	0	393	51
Chicago State U.	635	898	0	0	52	0	842	0	0	0	0	4
Drake U.	636	865	0	0	260	44	130	16	35	0	0	380
American Samoa Community C.	637	860	0	0	860	0	0	0	0	0	0	0
Salus U.	638	854	0	0	854	0	0	0	0	0	0	0
Augustana U.	639	841	0	0	483	0	358	0	0	0	0	0
Bethune-Cookman U.	640	735	23	204	354	59	0	0	0	0	0	95
A. T. Still U.	641	644	0	0	644	0	0	0	0	0	0	0
Allegheny C.	642	632	1	18	39	0	110	0	3	158	0	303
U. Ana G. Mendez, Cupey	643	624	0	0	209	0	220	0	0	0	0	195
Texas A&M U.-Central Texas	644	428	0	0	0	0	182	0	68	0	70	108
Maine Maritime Academy	645	358	0	0	0	0	0	0	0	0	358	0
Southwest C. of Naturopathic Medicine and Health Sciences	646	230	0	0	230	0	0	0	0	0	0	0
Rider U.	647	228	0	52	72	26	41	0	7	0	0	30

i = imputed. NA = not available; data were not provided by institution.

nec = not elsewhere classified; S&E = science and engineering.

^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. This table includes only institutions reporting \$1 million or more in total R&D expenditures in 2018. Institutions reporting less than \$1 million in total R&D expenditures in 2018 completed a shorter version of the survey form in FY 2019, and that form did not collect R&D expenditures by source and detailed field. For R&D expenditures by major field at institutions completing the shorter version of the survey, see table 82.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2019.