

TABLE 79

Higher education R&D expenditures in science and engineering fields, ranked by FY 2021 R&D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
All institutions	-	58,387,551	61,988,017	62,198,981	63,354,270	63,766,035	64,935,455	67,634,588	70,846,590	74,381,325	78,633,170	81,277,287	84,610,017
Johns Hopkins U. ^a	1	1,997,252	2,135,547	2,092,999	2,149,770	2,227,536	2,299,057	2,425,199	2,556,641	2,656,152	2,913,280	3,104,669	3,174,937
U. California, San Francisco	2	935,509	995,226	1,032,673	1,042,841	1,084,031	1,126,620	1,294,261	1,409,398	1,595,732	1,595,098	1,651,073	1,710,036
U. Michigan, Ann Arbor	3	1,128,686	1,212,990	1,247,680	1,304,074	1,279,603	1,300,340	1,357,228	1,434,535	1,493,353	1,571,320	1,572,931	1,521,417
U. Pennsylvania	4	793,523	851,522	813,210	790,265	792,314	828,649	1,140,833	1,247,686	1,304,291	1,368,837	1,432,968	1,492,554
U. Washington, Seattle	5	995,036	1,112,526	1,065,414	1,111,508	1,091,135	1,101,078	1,197,773	1,270,642	1,342,509	1,347,667	1,371,333	1,414,987
U. California, Los Angeles	6	899,677	942,450	969,682	934,135	920,183	992,009	1,002,013	1,037,780	1,242,619	1,249,535	1,338,707	1,396,451
U. California, San Diego	7	937,982	1,003,584	1,065,306	1,066,979	1,060,207	1,093,784	1,079,429	1,126,269	1,256,171	1,344,185	1,395,348	1,385,097
U. Wisconsin-Madison	8	940,286	1,022,723	1,030,605	997,523	984,830	938,366	1,051,311	1,105,261	1,113,968	1,209,224	1,272,053	1,294,884
Stanford U.	9	810,300	868,393	854,580	900,547	912,244	969,643	1,012,351	1,055,418	1,106,314	1,158,689	1,159,809	1,230,009
Duke U.	10	980,514	1,018,241	1,004,759	987,393	1,031,404	1,029,193	1,044,046	1,113,921	1,153,947	1,212,928	1,180,209	1,222,283
Ohio State U.	11	719,574	794,023	720,082	743,321	752,836	745,238	751,293	804,699	818,428	876,402	914,199	1,176,605
U. North Carolina, Chapel Hill	12	746,828	846,499	864,748	942,467	955,601	939,252	1,013,128	1,061,535	1,094,063	1,113,654	1,115,776	1,160,524
Yale U.	13	621,125	654,259	654,824	787,609	764,002	792,953	865,970	930,569	972,856	1,056,640	1,079,696	1,147,777
Harvard U.	14	561,703	623,116	753,973	910,569	875,964	955,246	1,011,950	1,032,590	1,066,612	1,129,158	1,116,344	1,144,925
Cornell U.	15	747,199	779,809	799,794	841,224	874,727	946,419	956,184	963,166	1,033,740	1,103,810	1,147,119	1,143,319
U. Texas M. D. Anderson Cancer Center	16	599,529	663,279	685,814	718,096	794,980	833,406	852,095	888,029	929,710	969,496	1,051,297	1,124,971
U. Pittsburgh, Pittsburgh	17	806,014	880,425	839,793	846,556	835,838	852,333	880,508	930,198	995,762	1,068,746	1,092,847	1,124,822
Texas A&M U., College Station and Health Science Center	18	666,516	682,553	669,968	796,101	826,152	836,250	859,952	869,100	882,191	911,375	1,089,944	1,108,197
U. Maryland ^b	19	na	na	na	na	na	na	na	na	na	1,047,276	1,047,911	1,087,629
Georgia Institute of Technology	20	611,226	650,588	683,894	726,377	720,248	757,116	780,118	785,603	859,009	931,076	1,017,808	1,086,161
Columbia U. in the City of New York	21	770,888	841,173	847,809	845,847	844,766	826,010	793,710	848,733	908,771	965,696	981,906	1,043,130
U. Minnesota, Twin Cities	22	764,916	824,489	806,832	834,181	850,880	844,016	872,514	881,286	915,798	970,212	999,314	1,034,743
New York U.	23	343,762	402,327	425,043	435,095	490,614	505,071	751,393	822,329	801,961	845,249	858,190	986,894
Vanderbilt U. and Vanderbilt U. Medical Center	24	478,345	534,806	533,878	548,086	659,418	619,866	612,351	681,286	702,128	730,378	774,717	968,571
Washington U., Saint Louis	25	693,749	707,404	689,035	665,484	646,756	680,150	726,622	740,005	797,267	866,478	894,681	960,656
Pennsylvania State U., University Park and Hershey Medical Center	26	762,041	776,945	783,894	825,011	785,705	774,384	809,985	826,683	885,661	924,031	970,457	936,007
U. Florida	27	636,607	686,048	649,988	642,502	652,341	699,750	741,945	766,469	831,362	880,771	889,677	919,504
U. Southern California	28	574,366	579,717	593,003	610,382	650,506	650,457	662,029	725,528	854,673	869,142	899,507	915,525
Massachusetts Institute of Technology	29	646,222	693,714	770,367	833,884	815,008	858,917	880,111	878,964	893,508	940,079	926,053	896,339
Northwestern U.	30	554,228	595,202	602,451	612,009	621,504	627,320	684,767	724,060	776,458	827,607	847,679	888,101
Emory U.	31	498,309	479,678	474,537	493,734	551,556	574,472	597,971	646,146	693,172	773,843	780,693	842,940
Icahn School of Medicine at Mount Sinai	32	370,666	405,527	400,680	428,654	463,429	508,353	540,296	575,448	640,141	722,241	747,014	820,260
U. California, Davis	33	669,282	698,193	704,999	715,870	699,689	706,087	726,070	726,469	774,775	791,184	804,674	805,386

TABLE 79

Higher education R&D expenditures in science and engineering fields, ranked by FY 2021 R&D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. California, Berkeley	34	659,572	670,926	696,904	690,299	708,485	748,139	734,486	724,817	747,690	751,584	796,303	794,847
U. Arizona	35	577,958	597,988	615,434	616,487	575,864	592,874	592,412	609,965	672,038	715,290	743,233	741,376
Baylor C. of Medicine	36	447,874	466,061	474,700	508,799	496,314	520,220	572,527	604,952	623,396	651,920	685,641	716,976
U. Texas, Austin	37	531,412	558,377	549,312	572,959	526,173	551,654	565,708	598,597	617,567	619,929	726,915	709,163
U. Illinois, Urbana-Champaign	38	493,386	522,769	558,022	721,587	598,531	614,011	587,264	602,641	609,984	640,880	658,561	695,919
Michigan State U.	39	399,358	423,766	471,620	479,145	492,501	519,994	573,204	653,611	673,959	682,018	674,384	672,904
Indiana U., Bloomington	40	156,996	160,038	151,240	173,464	172,380	451,508	471,055	507,553	534,811	630,449	676,116	659,073
U. Alabama, Birmingham	41	483,862	497,680	449,108	434,882	421,475	509,586	531,492	553,651	575,060	595,361	608,545	636,451
U. Texas Southwestern Medical Center	42	419,220	431,883	435,085	440,620	434,627	438,824	442,666	461,797	474,260	496,697	595,939	632,134
Boston U.	43	344,687	348,593	330,247	359,312	353,850	372,267	379,117	398,754	435,864	508,813	554,084	625,491
Purdue U., West Lafayette	44	477,145	520,001	528,140	528,564	502,457	498,887	517,879	533,598	535,826	598,411	638,715	623,530
Rutgers, State U. New Jersey, New Brunswick	45	407,170	415,502	420,737	474,192	627,076	607,257	610,648	633,789	666,368	621,194	661,656	615,280
U. Utah	46	375,420	410,392	425,558	486,245	476,017	509,409	322,670	318,956	534,208	548,714	577,238	597,318
Arizona State U.	47	296,458	323,567	344,611	367,277	380,581	403,708	441,411	484,315	559,391	572,588	594,927	595,651
U. Colorado Anschutz Medical Campus ^c	48	na	na	na	na	na	na	na	na	na	na	na	561,527
U. Virginia, Charlottesville	49	271,843	377,757	363,569	366,103	337,732	339,813	367,926	431,793	490,902	547,179	584,678	551,703
Virginia Polytechnic Institute and State U.	50	393,888	445,302	448,054	487,121	502,486	495,502	512,333	511,340	520,575	532,154	546,172	531,482
U. Cincinnati	51	393,518	419,456	408,294	414,738	399,571	408,412	401,701	427,236	464,289	513,397	511,252	530,944
North Carolina State U.	52	357,802	374,446	400,046	413,524	440,392	462,347	479,039	488,974	497,851	523,124	528,089	529,307
U. Iowa	53	435,118	433,088	432,980	423,097	436,852	423,528	447,718	466,462	484,253	483,809	510,793	522,141
U. Colorado Boulder	54	335,983	372,034	373,512	369,663	362,882	403,654	433,850	474,496	488,883	486,073	496,549	519,045
U. Chicago	55	432,943	446,512	411,864	389,900	378,322	402,777	402,491	419,996	412,791	448,263	448,404	489,005
U. California, Irvine	56	311,105	328,870	335,874	329,500	322,315	313,798	325,582	339,309	399,295	422,781	456,453	487,480
Scripps Research Institute	57	387,298	400,768	398,673	399,899	386,231	384,161	364,670	354,582	396,839	427,734	444,964	485,435
SUNY, Polytechnic Institute	58	na	na	na	na	412,851	295,313	316,680	308,843	257,316	352,788	355,519	465,149
Oregon Health and Science U.	59	314,990	334,324	305,360	307,134	313,112	325,268	329,414	346,710	372,148	415,629	446,826	452,798
Colorado State U., Fort Collins	60	291,621	321,130	335,336	303,461	300,572	308,785	323,068	328,221	356,951	382,252	384,044	432,131
U. Georgia	61	274,380	300,388	311,498	308,486	313,445	330,273	360,520	403,575	390,773	414,909	419,656	429,421
California Institute of Technology	62	359,245	374,636	374,075	333,548	358,137	350,833	356,204	380,711	363,007	375,558	418,697	422,491
Case Western Reserve U.	63	417,805	428,206	430,246	422,041	417,436	400,167	403,827	406,196	430,379	435,852	437,725	419,933
U. Kentucky	64	350,857	364,175	354,132	332,366	322,313	325,558	340,295	367,934	382,973	398,384	406,131	418,800
U. Illinois, Chicago	65	355,581	373,750	381,918	358,797	339,644	344,619	314,365	352,200	343,254	365,409	396,061	411,904
SUNY, U. Buffalo	66	337,976	337,783	340,930	371,387	370,083	367,133	373,308	386,386	393,241	394,279	401,640	407,266
U. Rochester	67	412,704	428,144	388,401	382,399	347,161	344,921	344,489	351,924	369,072	392,275	395,774	407,058
Princeton U.	68	231,862	255,483	264,980	264,998	287,730	272,379	285,733	321,953	351,297	370,700	382,414	389,652

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(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Carnegie Mellon U.	69	221,376	240,956	254,992	270,898	250,497	241,829	304,383	313,145	318,218	346,356	373,131	386,540
Uniformed Services U. of the Health Sciences	70	134,126	175,365	143,250	164,232	262,489	361,173	256,203	298,370	308,326	417,300	324,510	384,490
U. Miami	71	278,664	321,830	361,772	338,568	342,852	328,082	355,690	365,310	355,132	358,621	380,470	375,130
Rockefeller U.	72	265,750	272,491	292,896	298,474	316,368	323,932	335,136	348,845	353,142	351,089	356,217	357,543
U. Missouri, Columbia	73	133,120	130,269	234,975	232,760	233,613	243,430	262,919	272,196	275,413	288,501	303,906	354,500
U. Massachusetts, Medical School	74	232,039	262,714	256,090	245,923	241,869	250,338	253,099	279,884	274,211	281,507	279,096	347,337
U. South Florida ^d	75	330,528	343,366	394,694	410,092	436,578	420,002	447,812	502,216	334,944	330,968	287,339	340,036
Iowa State U.	76	243,890	261,016	252,675	259,320	297,293	295,635	316,822	310,100	343,890	342,498	306,338	334,671
U. Oklahoma, Norman and Health Science Center	77	201,187	223,828	217,177	220,916	227,104	227,568	240,239	250,627	262,863	283,375	337,624	334,058
U. New Mexico	78	207,906	217,206	216,218	220,840	221,817	224,321	227,591	236,623	245,400	233,310	237,249	327,382
Washington State U.	79	285,120	299,905	288,693	273,037	287,942	i 306,989	307,431	288,629	289,326	302,309	294,831	324,631
Utah State U.	80	147,612	172,563	155,305	156,774	167,256	173,848	178,830	184,746	215,994	280,476	300,894	322,139
U. Texas Health Science Center, Houston	81	240,772	261,172	236,250	233,256	233,737	234,299	237,016	246,060	258,411	271,525	273,862	308,823
U. Kansas	82	251,992	248,076	256,310	267,050	251,186	257,766	241,656	251,140	269,494	282,642	292,485	304,800
Albert Einstein C. of Medicine	83	na	na	na	na	na	na	289,660	289,685	297,328	298,824	288,654	301,715
U. Connecticut	84	230,387	247,252	250,468	236,126	247,379	251,621	257,958	257,176	256,826	273,034	270,397	296,090
Dartmouth C. and Dartmouth Hitchcock Medical Center	85	193,608	210,274	195,251	198,995	204,360	203,660	224,497	277,638	287,951	284,843	285,551	292,979
Virginia Commonwealth U.	86	176,422	185,566	179,310	175,880	177,540	196,412	202,150	210,827	222,757	230,882	255,589	291,853
U. Tennessee, Knoxville ^e	87	133,877	i 151,814	165,708	175,264	170,471	166,591	177,240	199,356	233,705	221,726	292,314	287,374
Louisiana State U., Baton Rouge	88	280,432	281,221	279,019	276,748	282,462	274,001	282,574	258,402	278,075	287,203	277,811	283,507
Temple U.	89	115,543	122,663	126,288	207,190	206,556	210,371	232,379	249,156	253,548	263,217	274,258	280,000
Medical U. South Carolina	90	224,632	213,346	236,586	245,451	242,594	243,534	260,098	262,267	282,253	295,600	272,590	277,761
Medical C. Wisconsin	91	191,816	215,358	209,040	201,237	199,713	199,283	199,925	209,618	229,436	251,300	264,325	276,850
U. Nebraska, Lincoln	92	211,385	220,141	238,472	245,171	254,877	260,152	264,485	270,749	275,161	284,544	284,935	272,743
Oregon State U.	93	215,400	227,752	239,571	231,342	229,456	242,874	252,541	260,893	266,684	257,935	262,426	271,218
SUNY, Stony Brook U.	94	201,846	206,207	218,209	224,030	210,301	219,485	227,942	235,430	240,949	257,048	260,203	270,403
U. Hawaii, Manoa	95	303,085	318,316	312,311	326,402	319,818	313,046	300,864	288,294	272,971	277,704	273,320	268,692
Brown U.	96	201,116	223,455	234,906	222,945	291,917	i 286,332	i 235,373	201,253	233,689	245,883	256,871	264,138
Woods Hole Oceanographic Institution	97	181,746	198,775	204,352	198,232	220,016	216,592	212,374	194,088	204,400	229,143	227,573	262,048
Wake Forest U.	98	192,034	208,460	203,730	182,721	176,380	171,538	169,533	181,876	190,991	236,494	241,271	259,165
Mississippi State U.	99	223,032	217,793	222,320	197,359	200,251	216,817	229,939	233,024	235,581	255,674	264,367	257,912
Florida State U.	100	208,834	216,869	208,005	224,425	231,390	237,427	243,327	247,319	260,486	257,656	270,051	250,915
Georgetown U.	101	155,538	164,301	171,829	170,503	162,983	157,308	162,734	187,948	192,160	210,896	225,504	249,329
George Washington U.	102	189,113	189,427	187,652	192,152	213,334	226,132	214,984	226,005	242,029	249,198	249,745	248,501
U. California, Santa Barbara	103	217,952	217,877	222,916	225,976	225,614	213,537	219,907	225,767	223,349	230,097	241,523	232,800

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Higher education R&D expenditures in science and engineering fields, ranked by FY 2021 R&D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Auburn U., Auburn	104	143,874	161,785	130,222	143,545	140,110	132,970	149,411	167,352	184,650	199,851	221,503	229,394
U. Delaware	105	147,204	160,503	161,327	170,470	169,641	167,904	169,384	176,455	179,560	200,935	214,517	224,655
Wayne State U.	106	248,753	252,620	221,666	217,984	213,253	207,830	214,306	220,199	230,231	235,072	229,753	222,694
Tufts U.	107	153,113	154,760	159,140	154,694	156,411	162,510	181,011	216,895	197,478	196,559	209,283	221,029
U. Texas Health Science Center, San Antonio	108	207,115	198,655	184,298	175,983	172,716	170,277	194,885	169,200	179,219	188,483	202,572	219,734
Florida International U.	109	92,250	97,804	83,639	92,463	107,487	124,631	133,831	146,431	165,748	191,754	210,258	215,873
U. Notre Dame	110	104,288	121,466	143,328	156,234	160,461	171,148	175,187	184,061	190,469	211,694	200,815	214,388
U. Massachusetts, Amherst	111	164,850	176,545	178,207	172,217	183,210	197,183	193,863	194,030	193,495	203,885	204,998	201,187
U. Nebraska, Medical Center	112	138,219	133,036	141,619	137,485	139,126	145,009	150,694	171,491	177,245	194,455	202,406	200,974
Rice U.	113	97,288	109,197	115,235	128,621	136,419	141,935	151,855	163,312	157,352	177,126	192,213	200,803
Thomas Jefferson U.	114	103,064	104,923	100,506	89,273	118,378	119,631	122,396	142,569	148,573	170,458	171,354	200,364
Northeastern U.	115	74,998	81,230	102,911	111,134	111,779	115,664	121,574	134,827	156,546	174,485	189,802	199,031
U. Arkansas for Medical Sciences	116	119,518	122,066	129,056	133,677	131,438	132,451	125,378	128,508	139,187	153,135	174,549	194,709
George Mason U.	117	77,966	80,284	79,913	82,849	85,493	89,845	92,649	98,488	125,416	164,053	196,362	193,205
Tulane U.	118	151,686	154,530	154,196	151,314	148,784	140,118	153,298	167,338	179,813	182,444	190,724	191,868
West Virginia U.	119	146,944	159,206	161,961	159,865	156,946	160,560	164,501	175,403	176,082	178,575	180,349	190,951
Kansas State U.	120	154,888	163,494	169,863	177,525	178,304	180,082	181,933	183,513	201,866	202,244	199,739	190,199
U. Dayton	121	91,943	89,037	79,877	82,349	83,409	93,319	111,363	127,207	143,636	163,924	162,216	189,741
U. Louisville	122	162,447	166,918	165,319	160,338	163,199	154,598	164,371	168,906	168,433	166,122	184,869	187,772
U. Texas Medical Branch	123	188,399	193,555	180,888	180,198	178,014	173,506	179,541	185,106	181,831	175,372	180,595	185,759
Clemson U.	124	144,562	135,681	110,493	116,138	116,871	120,858	133,342	144,728	160,361	165,227	174,342	183,496
U. California, Riverside	125	121,541	125,902	129,609	126,916	128,506	136,493	147,268	159,305	162,054	172,146	177,921	183,414
U. Vermont	126	129,612	132,107	115,569	115,055	109,343	114,090	115,230	117,433	128,179	135,673	178,828	182,307
U. Central Florida	127	108,662	97,309	102,562	108,560	143,063	169,770	166,000	168,630	176,094	185,873	178,762	182,161
U. Houston	128	106,646	98,231	105,844	112,469	122,163	125,973	142,081	149,795	158,543	168,909	174,582	177,843
Montana State U., Bozeman	129	124,227	114,244	113,235	103,144	104,646	98,467	102,179	118,221	114,496	140,359	147,443	174,739
Wichita State U.	130	51,068	51,862	50,108	52,831	53,614	49,902	53,092	65,491	66,916	113,618	139,670	174,661
U. Alaska, Fairbanks	131	127,808	126,691	121,640	118,907	152,352	139,605	141,976	150,064	138,989	142,307	150,364	170,923
U. South Carolina, Columbia	132	218,771	196,820	186,559	178,800	181,363	181,742	183,478	180,127	145,739	136,433	187,909	168,442
U. Nevada, Reno	133	94,420	86,372	83,137	85,085	81,028	83,385	90,673	99,156	127,049	136,707	144,327	158,566
U. California, Santa Cruz	134	136,964	149,702	149,824	145,092	147,536	147,518	146,237	119,990	123,221	138,455	146,771	156,839
U. New Hampshire	135	103,801	128,348	152,276	134,535	130,951	130,700	136,006	133,592	133,378	137,626	145,844	152,800
Oklahoma State U., Stillwater	136	147,094	162,786	166,523	134,500	126,543	126,607	150,167	152,605	154,418	150,021	153,586	151,936
Texas Tech U.	137	106,220	114,648	105,147	114,506	125,126	128,554	132,766	144,898	139,500	147,317	147,162	150,907
North Dakota State U.	138	125,294	132,717	133,874	144,069	148,352	148,934	152,106	149,230	140,507	145,723	149,867	149,983
U. Louisiana, Lafayette	139	57,333	56,313	51,873	52,089	59,068	55,250	58,984	78,780	102,812	131,601	138,225	148,749

TABLE 79

Higher education R&D expenditures in science and engineering fields, ranked by FY 2021 R&D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Drexel U.	140	115,458	109,729	112,390	118,754	124,464	122,366	120,789	132,507	148,107	140,907	134,792	144,102
New Jersey Institute of Technology	141	81,240	89,250	91,407	97,088	94,371	96,386	95,235	101,334	124,565	136,801	146,635	143,190
U. Arkansas, Fayetteville	142	104,336	110,310	111,502	112,296	111,703	120,679	132,648	135,925	146,029	148,960	141,283	142,272
U. Alabama, Huntsville	143	73,266	72,988	83,076	96,932	85,994	84,745	91,549	89,392	94,519	104,824	124,322	141,890
U. Maine	144	106,238	111,129	91,673	77,169	100,493	78,608	78,576	98,748	105,810	121,621	124,999	136,719
Georgia State U.	145	61,971	54,221	62,188	79,235	80,955	79,813	103,731	133,242	133,302	126,225	126,387	135,070
U. North Dakota	146	76,262	74,636	79,792	68,636	67,199	63,590	69,145	91,958	100,061	100,841	102,047	132,941
U. Rhode Island	147	84,523	101,202	97,845	94,381	84,393	86,139	90,562	95,197	98,271	107,429	102,059	120,266
Augusta U.	148	na	na	na	64,033	64,116	67,736	71,338	99,637	99,043	96,396	103,886	116,415
Cold Spring Harbor Laboratory	149	ne	89,913	84,072	78,236	76,733	84,653	88,943	97,288	115,870	126,773	115,051	114,885
U. Texas, Dallas	150	75,236	89,767	83,124	93,582	94,961	92,374	99,328	105,140	100,950	113,560	119,531	112,959
U. Montana, Missoula	151	62,814	59,617	58,735	59,809	54,808	60,282	69,994	84,109	86,096	96,246	101,504	112,294
Rensselaer Polytechnic Institute	152	83,601	84,346	92,348	92,365	104,844	102,122	93,907	96,533	94,221	99,326	114,386	110,580
SUNY, Binghamton U.	153	66,512	65,816	73,098	67,892	63,960	70,367	75,332	88,735	105,017	93,446	105,920	110,490
U. Tennessee, Health Science Center	154	81,900	81,216	77,749	71,897	67,841	65,771	71,547	73,393	79,460	96,979	99,716	109,562
New Mexico State U.	155	146,364	137,301	135,214	136,254	129,124	127,000	103,871	99,975	93,993	100,033	105,817	109,520
U. Oregon	156	83,545	87,161	87,656	78,654	77,655	65,226	68,631	72,517	83,132	82,231	88,598	108,990
Rush U.	157	73,398	79,212	80,300	81,770	80,551	79,048	73,351	74,062	89,101	96,267	94,438	107,398
U. Texas, Arlington	158	62,410	60,003	64,684	72,571	74,261	74,702	82,355	82,065	87,257	100,734	107,017	105,993
U. Mississippi	159	100,712	113,281	109,897	98,354	97,286	89,707	102,660	114,674	117,390	137,475	115,972	104,529
U. Idaho	160	85,475	94,345	95,327	93,941	92,512	95,459	99,354	105,475	105,578	107,351	109,184	102,636
SUNY, U. Albany	161	356,517	146,987	135,673	135,879	129,434	110,284	105,605	140,392	151,303	161,613	120,484	100,353
U. Alabama, Tuscaloosa	162	39,992	52,601	52,021	49,728	47,920	51,555	53,395	52,151	59,911	68,032	72,260	99,710
U. Texas, San Antonio	163	51,480	50,496	48,700	48,599	42,318	50,012	49,383	64,143	66,192	75,719	91,606	98,032
U. Wyoming	164	53,957	55,320	63,812	63,149	48,736	54,928	108,552	121,927	112,857	79,928	91,738	92,230
Brandeis U.	165	67,672	71,638	69,489	69,398	67,048	68,690	56,871	62,745	56,750	56,738	77,912	90,932
U. Massachusetts, Lowell	166	55,120	55,257	53,980	51,465	52,595	57,435	58,437	60,735	65,060	76,770	85,346	87,311
U. Texas, El Paso	167	64,134	67,576	72,033	73,005	70,475	77,515	80,981	83,892	80,824	92,205	87,437	86,892
San Diego State U.	168	95,064	91,789	75,670	69,338	77,474	76,131	74,504	70,862	69,858	74,733	78,865	86,282
U. Maryland, Baltimore County	169	81,894	83,155	65,628	62,887	64,329	67,944	69,404	69,926	70,358	76,918	79,669	81,658
Syracuse U.	170	76,808	56,598	56,192	48,195	48,034	49,384	53,864	78,329	78,642	83,679	77,690	79,680
Colorado School of Mines	171	43,403	45,816	55,925	57,778	58,498	57,425	59,576	58,175	58,288	67,310	74,763	79,464
Michigan Technological U.	172	60,183	66,812	67,977	66,192	64,791	66,135	68,863	68,681	75,194	76,853	74,731	78,507
Saint Louis U.	173	46,589	52,134	48,303	47,174	42,316	40,831	40,426	53,643	55,913	61,907	66,858	75,470
U. Nevada, Las Vegas	174	42,202	37,711	33,130	34,299	38,229	39,564	49,405	53,073	62,711	73,777	77,606	74,115
Northern Arizona U.	175	27,281	28,581	27,078	30,134	30,903	34,731	38,800	45,572	52,105	57,763	62,548	67,558

TABLE 79

Higher education R&D expenditures in science and engineering fields, ranked by FY 2021 R&D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Cleveland State U.	176	33,857	55,044	60,481	67,137	61,291	56,683	70,665	77,518	77,203	73,854	72,092	65,974
Van Andel Research Institute	177	ne	ne	ne	ne	ne	40,502	40,040	44,578	55,171	61,738	58,982	65,789
U. Southern Mississippi	178	41,480	45,207	54,151	44,912	45,127	41,432	47,195	49,769	49,785	65,249	64,496	60,447
Indiana U.-Purdue U., Indianapolis	179	290,490	314,004	308,101	325,562	316,650	51,479	52,050	51,783	54,270	58,150	63,477	58,855
Old Dominion U.	180	76,710	80,696	79,305	76,187	52,832	48,418	53,097	54,635	51,747	59,858	58,862	58,478
Naval Postgraduate School	181	96,067	95,153	124,531	89,616	91,400	74,293	54,558	52,404	52,551	60,522	58,276	58,240
William & Mary	182	51,453	48,835	46,547	48,183	49,428	52,642	54,491	54,197	54,508	55,687	55,857	58,063
U. North Texas, Denton	183	22,762	34,421	40,796	43,342	39,453	38,001	30,858	35,443	37,731	54,523	57,764	56,738
CUNY, City C.	184	45,050	56,734	56,618	54,316	52,072	51,905	61,354	53,738	53,132	51,305	44,175	55,178
Florida Atlantic U.	185	41,896	47,027	46,782	22,594	21,760	19,718	25,158	42,918	44,634	46,399	50,002	54,980
Mercer U.	186	26,862	28,998	31,352	28,876	30,162	32,771	31,653	29,366	34,098	44,037	48,955	51,895
Missouri U. of Science and Technology	187	37,259	36,325	33,797	35,400	38,509	35,144	35,531	37,958	42,657	47,521	46,813	51,669
U. Toledo	188	66,839	70,164	63,348	63,119	56,710	48,391	45,687	46,697	48,184	52,655	51,843	51,629
Howard U.	189	38,626	41,471	44,587	41,351	38,366	45,764	40,412	44,613	44,592	43,227	44,077	51,442
South Dakota State U.	190	67,269	69,646	68,554	63,751	58,199	57,433	60,582	63,328	63,287	66,462	60,600	51,153
U. North Texas, Health Science Center	191	38,862	45,943	46,865	44,904	47,002	46,335	50,567	48,476	49,503	50,124	42,766	50,698
U. California, Office of the President	192	72,542	63,420	65,627	67,447	50,103	48,233	39,051	46,399	55,676	67,702	60,686	50,462
U. Maryland Center for Environmental Science	193	42,670	50,007	48,224	53,683	50,814	49,341	52,861	54,491	53,398	55,121	53,676	50,322
U. Memphis	194	40,589	39,315	41,841	39,306	44,351	37,539	40,374	41,192	50,819	47,225	54,193	50,121
U. Wisconsin-Milwaukee	195	58,417	56,845	52,271	47,568	51,316	55,883	50,661	48,017	53,585	50,950	54,782	49,581
San Jose State U.	196	32,947	34,075	29,554	32,100	36,354	39,833	38,326	36,594	38,252	39,818	40,474	48,531
Rochester Institute of Technology	197	33,537	29,709	31,893	32,199	31,471	36,030	39,952	45,563	43,679	49,949	49,572	48,513
U. Texas Rio Grande Valley	198	na	na	na	na	na	na	27,400	28,547	25,623	42,714	47,610	48,450
U. North Carolina, Charlotte	199	28,216	24,323	22,504	21,744	20,646	21,836	23,610	24,190	34,870	42,697	45,181	47,458
Worcester Polytechnic Institute	200	17,154	20,647	18,558	23,780	26,544	33,910	34,921	31,662	31,477	37,822	41,949	47,250
Southern Illinois U., Carbondale	201	69,924	71,130	71,097	70,854	65,256	57,509	53,172	48,416	49,636	41,729	41,617	47,210
U. South Alabama	202	30,012	36,975	34,194	34,737	33,994	38,245	42,466	40,629	40,519	51,968	50,571	46,500
Boston C.	203	36,960	30,446	30,436	30,700	28,326	26,123	40,724	43,825	42,801	44,768	43,168	45,726
Air Force Institute of Technology	204	28,318	30,090	30,609	26,234	23,335	26,323	29,722	35,703	33,360	34,016	35,584	45,703
SUNY, Upstate Medical U.	205	43,824	39,988	35,897	34,286	33,460	32,453	31,892	35,551	36,674	38,091	41,557	44,870
Louisiana State U., Health Sciences Center, New Orleans	206	59,776	57,007	53,712	49,443	45,486	46,840	43,067	40,785	38,989	40,914	43,419	44,370
Ohio U.	207	44,428	43,399	42,798	44,746	58,238	57,786	55,828	57,321	49,518	45,581	42,369	44,199
U. Puerto Rico, Medical Sciences Campus	208	39,134	64,017	45,649	43,374	40,444	43,316	46,232	42,423	41,216	45,014	37,217	44,111
Boise State U.	209	18,045	23,519	26,885	24,027	25,351	29,955	30,384	32,279	37,959	35,528	38,919	43,167
Loyola U., Chicago	210	42,120	40,994	44,785	50,150	48,996	47,000	41,152	38,070	37,049	37,210	38,210	42,342
Baylor U.	211	8,452	10,277	8,184	11,877	17,877	20,721	22,237	25,052	25,289	26,291	31,313	42,087

TABLE 79

Higher education R&D expenditures in science and engineering fields, ranked by FY 2021 R&D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
East Carolina U.	212	23,370	25,727	29,468	36,425	29,169	26,248	25,251	25,551	36,066	47,612	47,123	42,053
Stevens Institute of Technology	213	32,230	39,973	29,893	26,788	28,917	33,042	34,413	34,018	31,565	35,477	42,640	41,313
Texas Tech U., Health Sciences Center	214	51,282	58,774	61,219	61,309	36,932	39,261	38,717	38,657	36,784	42,959	43,102	40,567
Texas State U.	215	19,496	19,243	24,285	26,671	25,910	29,934	30,064	28,479	29,444	35,440	39,242	40,513
U. California, Merced	216	20,730	20,307	21,826	21,730	22,612	28,278	27,185	32,448	35,753	42,611	43,421	39,867
Brigham Young U., Provo	217	27,766	29,980	26,499	30,076	30,797	31,849	35,512	36,791	34,276	33,275	33,810	39,753
Lehigh U.	218	34,897	29,639	28,949	31,003	32,860	33,693	30,375	33,752	35,849	35,414	36,427	39,118
U. Massachusetts, Boston	219	39,387	31,864	28,869	29,875	30,021	30,305	35,220	37,929	33,865	38,998	36,827	37,121
Kent State U.	220	24,616	24,388	23,353	19,962	21,785	25,917	21,951	27,413	26,703	32,867	33,929	36,040
Florida A&M U.	221	30,282	33,719	31,375	33,538	29,895	31,676	32,856	33,024	34,437	36,605	34,194	35,945
North Carolina Agricultural and Technical State U.	222	35,216	34,725	33,963	33,251	34,160	34,514	31,782	35,285	34,714	33,297	31,382	35,189
SUNY, Downstate Health Sciences U.	223	32,512	41,993	43,257	39,354	33,331	28,652	33,735	31,873	34,661	36,015	33,204	34,459
Portland State U.	224	40,203	41,692	40,939	38,785	39,134	36,355	38,717	36,595	36,526	38,726	33,654	33,096
San Francisco State U.	225	24,959	25,772	29,447	31,948	28,710	26,178	25,149	26,712	27,841	29,667	31,177	32,882
Morehouse School of Medicine	226	30,669	33,946	37,586	36,638	41,858	33,367	38,774	35,454	33,215	31,289	29,813	32,637
U.S. Air Force Academy	227	54,509	70,285	43,512	49,471	41,539	35,157	50,659	40,635	33,467	34,940	33,308	32,086
U. Missouri, Kansas City	228	24,461	27,000	23,902	23,521	26,452	24,097	23,955	22,806	22,857	30,096	34,695	31,756
CUNY, Hunter C.	229	35,751	35,645	36,085	36,741	35,702	33,483	33,508	26,496	29,752	32,773	33,951	30,854
Illinois Institute of Technology	230	34,348	40,199	32,148	36,426	30,938	33,810	29,430	32,362	32,566	34,220	29,003	29,542
American U.	231	16,809	18,212	18,404	23,794	38,038	25,350	28,170	26,551	31,906	39,531	37,505	29,508
Marquette U.	232	13,124	16,525	15,208	16,257	17,267	19,985	21,968	23,692	24,623	28,856	29,152	29,369
New Mexico Institute of Mining and Technology	233	51,696	43,857	37,875	32,442	48,260	26,222	19,238	20,404	21,260	24,523	24,267	28,487
SUNY, C. of Environmental Science and Forestry	234	26,916	25,007	23,117	21,225	19,013	22,036	24,221	27,755	26,559	28,979	29,000	28,145
U. Massachusetts, Dartmouth	235	24,312	23,708	21,556	25,559	25,879	23,875	24,363	24,336	24,536	26,554	25,326	27,986
U. Texas Health Science Center, Tyler	236	ne	ne	ne	ne	ne	12,191	11,799	16,292	17,949	19,606	21,265	27,928
Texas A&M U.-Corpus Christi	237	15,034	15,146	13,626	15,161	19,058	22,985	21,911	25,644	28,077	29,296	28,246	27,070
Catholic U. of America	238	20,871	24,933	24,275	22,795	22,009	23,817	24,360	23,337	24,269	23,402	24,099	26,557
Tennessee State U.	239	11,253	11,961	14,108	15,149	19,437	19,208	18,324	16,247	16,355	14,376	25,478	26,409
Desert Research Institute	240	34,367	35,331	33,056	27,695	23,778	22,103	29,422	29,440	27,875	26,991	26,428	26,365
Rowan U.	241	2,610	3,185	3,657	2,729	8,118	7,921	10,113	12,710	15,818	21,980	25,269	26,086
Southern Methodist U.	242	16,121	22,008	20,917	17,972	24,443	20,538	22,729	21,128	21,505	27,503	26,882	25,998
Wright State U.	243	48,396	47,795	45,901	49,760	54,456	53,881	55,241	59,263	67,615	63,779	48,974	25,852
Georgia Southern U.	244	3,164	3,505	5,185	17,287	19,584	16,456	16,465	15,221	12,150	9,634	10,049	25,292
Louisiana State U., Health Sciences Center, Shreveport	245	30,817	31,021	29,365	28,266	25,004	24,069	23,353	22,560	24,463	26,262	25,321	24,600
Teachers C., Columbia U.	246	15,149	17,459	19,829	18,538	19,457	22,359	22,868	23,189	23,261	24,234	22,170	24,303
Nova Southeastern U.	247	9,740	11,912	12,599	12,415	13,532	14,439	18,991	22,021	22,406	24,277	25,476	24,185

TABLE 79

Higher education R&D expenditures in science and engineering fields, ranked by FY 2021 R&D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Ponce Health Sciences U.	248	8,934	10,502	11,586	7,241	5,710	7,520	7,992	8,664	7,857	11,390	13,566	23,297
U. Minnesota, Duluth	249	20,237	22,301	20,863	20,818	21,122	26,958	26,949	24,452	24,693	26,859	25,634	23,276
Miami U.	250	14,561	14,795	21,151	17,875	i 16,035	14,904	14,111	15,482	17,120	19,280	21,808	23,045
U. South Dakota	251	27,511	25,321	27,060	30,364	27,367	21,671	22,543	24,830	27,168	28,456	24,766	22,891
California Polytechnic State U., San Luis Obispo	252	19,148	15,489	15,939	15,098	14,648	15,666	17,559	17,304	15,860	24,954	23,679	22,541
Albany Medical C.	253	22,953	20,876	17,735	15,093	16,093	18,043	20,166	20,443	21,187	23,028	23,510	22,443
Florida Institute of Technology	254	11,427	9,749	9,187	9,195	10,564	i 11,201	15,196	18,040	16,343	16,847	17,276	22,238
Creighton U.	255	25,432	i 28,907	29,911	i 27,709	i 24,073	i 22,228	i 21,843	i 22,310	i 18,896	i 22,278	i 18,899	i 21,647
Marshall U.	256	24,398	26,268	18,998	19,607	20,154	19,835	18,777	16,423	18,043	17,823	19,020	21,555
U. Denver	257	12,348	13,018	11,575	12,716	11,216	10,614	16,858	18,327	21,618	21,642	22,612	21,373
Tuskegee U.	258	14,258	14,321	13,188	17,094	24,066	i 20,704	i 16,508	i 16,508	i 13,402	20,562	20,973	21,355
Texas A&M U.-Kingsville	259	14,213	14,572	14,824	15,308	18,371	18,170	18,849	19,360	18,443	19,537	20,568	21,280
U. Nebraska, central administration	260	ne	ne	ne	ne	ne	ne	ne	ne	12,713	17,697	22,814	20,931
Louisiana Tech U.	261	20,752	21,641	20,265	18,983	17,088	17,744	16,639	17,079	18,089	19,760	20,371	20,780
U. Alaska, Anchorage	262	11,328	12,380	13,004	13,022	15,112	15,396	18,382	18,646	19,254	20,655	22,123	20,590
Central Michigan U.	263	3,229	5,865	8,190	9,996	11,506	9,725	10,304	11,521	13,406	15,607	16,050	20,390
Rutgers, State U. New Jersey, Newark	264	25,953	31,714	31,287	29,110	23,235	19,913	18,412	21,586	23,190	21,291	23,118	20,252
California State U., Sacramento	265	11,673	13,822	12,056	12,444	11,783	16,585	17,705	17,647	18,017	20,279	21,425	20,072
U. Puerto Rico, Rio Piedras	266	27,780	30,139	31,877	26,755	26,656	26,544	22,610	17,600	13,889	18,019	17,888	19,797
Oakland U.	267	11,796	14,725	15,439	14,033	12,515	15,015	14,083	12,757	11,961	17,226	12,851	19,663
Eastern Virginia Medical School	268	44,420	36,569	37,745	44,183	43,917	42,296	32,550	28,671	30,010	27,064	20,870	19,415
Northern Illinois U.	269	23,353	17,672	18,147	18,866	15,165	i 13,660	16,515	12,565	18,965	18,337	16,675	19,357
Villanova U.	270	9,191	i 9,281	i 7,831	i 6,931	i 11,645	12,208	12,934	15,189	16,376	18,225	20,414	19,197
Delaware State U.	271	14,723	17,993	15,416	17,260	17,654	15,964	20,384	19,136	18,916	22,512	19,627	i 19,194
Embry-Riddle Aeronautical U.	272	12,189	10,705	14,225	11,575	14,741	11,528	16,409	13,133	16,601	12,307	17,436	19,054
U.S. Military Academy	273	19,763	i 12,314	11,702	11,612	13,247	13,135	12,281	7,247	6,313	6,432	11,872	19,040
U. North Carolina, Greensboro	274	12,818	16,230	12,590	12,629	15,735	16,673	16,129	14,416	14,374	16,500	15,364	18,992
Morgan State U.	275	12,768	12,544	17,470	14,942	15,337	13,406	15,353	14,527	12,727	12,791	16,919	18,888
New York Medical C.	276	28,400	27,316	23,277	20,243	17,908	17,653	17,311	15,637	i 8,141	i 19,398	i 20,137	18,872
Western Michigan U. and Homer Stryker M.D. School of Medicine	277	14,432	15,875	13,546	12,821	13,500	13,375	11,974	17,687	15,913	15,160	15,350	17,672
U. Nebraska, Omaha	278	6,783	7,903	7,536	7,966	7,640	6,688	9,093	10,637	10,987	11,775	12,878	17,554
East Tennessee State U.	279	9,185	9,496	10,657	8,506	6,954	6,173	7,680	9,146	13,694	i 13,903	i 13,618	i 17,396
U. Guam	280	5,555	5,477	5,975	5,873	6,790	5,919	7,351	8,803	11,053	12,001	12,674	17,212
U. Akron	281	47,558	52,881	59,765	62,331	64,270	54,089	57,351	39,566	31,789	29,090	22,595	16,747
Chapman U.	282	2,135	2,098	2,396	2,734	3,189	3,074	5,023	8,568	9,895	12,498	13,951	16,594

TABLE 79

Higher education R&D expenditures in science and engineering fields, ranked by FY 2021 R&D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. Puerto Rico, Mayaguez	283	25,536	33,509	31,143	28,041	25,920	26,986	24,908	25,328	23,764	26,092	25,896	16,322
Meharry Medical C.	284	27,001	29,055	25,559	22,532	18,997	13,998	14,768	16,782	16,980	18,286	13,870	15,840
South Dakota School of Mines and Technology	285	28,572	32,010	18,991	12,156	10,472	14,970	15,396	15,541	15,092	12,973	14,490	15,746
U. Tulsa	286	22,690	18,703	19,895	21,186	26,460	24,135	21,347	20,567	19,797	18,180	18,487	15,688
Clarkson U.	287	18,289	17,772	14,787	12,009	13,642	13,194	12,799	14,180	15,780	16,211	14,095	15,512
CUNY, Advanced Science Research Center	288	na	na	na	na	na	569	ne	3,293	5,462	8,300	11,226	15,400
U. of the Virgin Islands	289	31,272	21,373	i 24,543	i 18,374	i 14,732	i 19,456	21,215	12,031	11,853	11,668	13,622	15,231
California State U., Northridge	290	16,747	9,795	15,619	9,466	12,628	12,053	12,471	15,336	17,036	18,758	19,405	15,220
U. North Carolina, Wilmington	291	20,618	19,961	17,015	15,490	12,212	13,166	13,597	14,000	15,058	16,039	15,005	15,051
CUNY, Graduate School of Public Health and Health Policy	292	na	na	na	na	na	na	na	na	8,636	9,521	12,177	15,035
CUNY, Queens C.	293	16,233	22,831	22,067	18,601	22,053	18,332	18,538	15,522	15,969	17,643	15,606	14,946
Montana Technological U.	294	7,424	6,705	11,765	11,059	11,348	11,595	11,851	13,059	12,666	12,731	12,987	14,933
Prairie View A&M U.	295	12,557	15,226	14,523	13,174	12,248	12,932	12,511	13,455	14,766	15,538	16,103	14,867
Jackson State U.	296	38,114	39,867	38,027	32,119	24,132	22,163	22,408	21,272	18,972	18,057	14,979	14,822
Tarleton State U.	297	9,931	9,720	8,646	7,854	9,961	8,956	8,880	10,250	11,960	11,566	12,253	14,688
Tennessee Technological U.	298	16,152	11,809	9,138	8,705	9,410	9,804	9,776	11,467	12,227	13,107	13,613	14,616
Middle Tennessee State U.	299	3,370	2,825	5,491	3,384	1,522	1,965	3,971	4,092	3,735	4,474	4,780	14,240
California State U., Long Beach	300	14,762	14,006	i 13,250	i 12,494	9,746	8,108	14,175	16,993	18,408	17,459	15,900	14,210
Alcorn State U.	301	10,280	11,397	11,515	11,315	10,060	9,396	8,204	16,129	13,834	14,435	13,710	14,188
Kennesaw State U.	302	1,401	1,374	1,738	i 2,100	1,881	1,316	6,279	7,728	8,006	10,320	14,555	14,161
Northeast Ohio Medical U.	303	10,819	13,581	13,358	12,722	15,916	17,103	18,823	19,216	18,218	18,007	15,756	13,853
Rosalind Franklin U. of Medicine and Science	304	12,426	14,261	15,587	17,401	17,794	16,604	16,760	17,006	16,765	16,126	14,601	13,805
Loma Linda U.	305	32,915	37,169	29,762	29,799	23,120	25,417	22,956	21,846	19,537	i 17,621	i 15,705	i 13,788
Idaho State U.	306	19,234	21,047	20,764	21,476	19,962	17,540	20,305	18,398	17,659	14,560	14,232	13,746
Humboldt State U.	307	7,505	9,520	9,464	7,999	8,242	11,173	16,084	15,914	14,983	14,891	13,899	13,649
Southern Illinois U., Edwardsville	308	30,958	33,318	25,608	24,594	17,215	18,248	17,243	15,559	16,914	15,513	14,260	13,603
U. New Orleans	309	25,932	23,290	22,275	19,790	17,182	16,980	14,551	13,436	12,148	12,713	13,686	13,398
Charles R. Drew U. of Medicine and Science	310	22,152	22,150	20,580	18,250	20,686	14,128	13,360	15,652	11,490	13,739	13,682	13,228
Texas Christian U.	311	3,815	3,841	5,105	5,342	5,132	5,095	4,053	4,330	3,279	4,291	13,590	13,075
U. Colorado Denver ^c	312	na	na	na	na	na	na	na	na	na	na	na	13,067
U. Hawaii, system office	313	ne	ne	ne	ne	ne	ne	ne	ne	12,340	12,159	13,568	12,918
Xavier U. Louisiana	314	8,022	9,836	10,606	8,789	9,335	9,588	12,060	12,372	11,586	9,999	11,335	12,660
Bowling Green State U.	315	8,030	8,834	8,426	12,808	8,630	6,263	10,999	9,374	9,570	10,112	11,699	12,417
North Carolina Central U.	316	6,870	9,043	10,573	8,190	10,158	10,971	10,539	11,689	11,299	13,352	13,699	11,840
U. Missouri, Saint Louis	317	10,050	12,344	12,840	13,156	14,632	9,991	10,876	10,411	10,708	12,865	12,676	11,484

TABLE 79

Higher education R&D expenditures in science and engineering fields, ranked by FY 2021 R&D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Montclair State U.	318	1,368	3,373	4,470	4,005	3,342	3,433	4,250	4,006	4,965	7,960	10,604	11,470
California State U., East Bay	319	1,312	1,644	1,039	934	ne	ne	837	ne	ne	ne	5,515	11,291
Hampton U.	320	14,455	12,292	15,290	12,620	11,153	14,767	13,572	15,908	13,669	12,943	10,842	11,181
U. West Florida	321	4,079	3,551	2,559	4,004	5,080	5,180	12,310	12,461	15,710	12,173	11,122	11,069
Western Washington U.	322	6,630	7,738	6,501	6,577	6,768	7,619	7,997	9,294	10,912	9,896	10,315	11,045
Midwestern U.	323	3,596	4,022	5,200	6,292	7,310	8,560	7,732	9,207	10,173	10,343	10,479	10,961
U.S. Naval Academy	324	11,093	10,543	9,156	10,476	10,661	9,609	11,364	13,524	14,057	13,481	12,827	10,747
Long Island U.	325	630	672	671	676	ne	ne	611	1,602	1,731	4,858	10,148	10,652
Texas Tech U., Health Sciences Center, El Paso	326	ne	ne	ne	ne	22,634	18,186	16,674	15,526	12,145	11,649	10,294	10,555
New School	327	3,167	3,277	3,695	5,919	3,843	5,254	15,747	11,123	8,112	9,179	9,255	10,162
Missouri State U.	328	7,737	5,576	4,340	3,879	3,677	3,516	3,027	3,104	4,391	5,669	13,020	9,994
U. Tennessee, Chattanooga	329	8,786	7,308	8,865	5,928	4,627	5,318	3,962	4,814	5,834	7,337	9,060	9,380
California State U., San Marcos	330	5,049	5,044	5,040	5,034	4,470	4,637	5,212	4,962	7,185	9,446	11,918	9,220
West Texas A&M U.	331	5,741	4,307	4,346	4,122	3,663	3,924	3,776	4,690	4,441	5,021	5,488	9,014
California State U., Los Angeles	332	7,178	8,682	6,876	7,192	4,881	4,461	4,860	8,031	9,487	12,083	10,188	8,892
Virginia State U.	333	6,907	8,094	10,060	9,213	8,175	7,657	7,948	8,053	8,674	9,223	7,826	8,784
Kentucky State U.	334	4,887	4,559	6,843	5,580	5,694	6,017	7,060	8,151	9,125	8,432	7,963	8,756
Central State U.	335	3,060	3,694	3,490	2,769	2,025	1,508	1,643	2,008	3,615	3,766	6,107	8,751
U. Arkansas, Pine Bluff	336	8,343	9,415	9,073	8,909	8,198	8,425	8,873	8,136	8,314	9,005	8,527	8,713
Clark Atlanta U.	337	8,515	8,205	10,405	9,156	9,172	9,929	8,482	7,948	7,810	8,508	8,259	8,712
James Madison U.	338	6,858	7,075	8,428	5,539	4,516	3,700	3,283	3,108	3,859	4,968	6,169	8,687
U. Maryland, Eastern Shore	339	8,692	8,664	7,265	8,786	8,982	9,631	8,175	7,403	4,941	7,128	8,092	8,636
Alabama A&M U.	340	30,297	28,813	28,573	28,335	28,095	27,855	23,784	19,887	15,989	12,089	8,237	8,533
Arkansas State U., Jonesboro	341	11,043	13,339	14,064	10,320	7,956	8,391	8,158	7,936	8,238	8,906	8,637	8,379
California State U., Fresno	342	8,117	8,296	8,283	7,117	7,303	7,248	7,431	7,228	8,414	8,241	8,347	8,284
California State U., San Bernardino	343	2,630	7,266	7,472	10,872	12,572	14,342	9,725	10,319	11,535	12,419	7,415	7,999
Texas Southern U.	344	4,744	4,255	4,424	5,518	2,855	3,089	3,764	4,702	2,637	4,893	8,600	7,880
Oklahoma State U., Center for Health Sciences	345	4,398	2,815	2,122	2,137	1,805	1,625	1,924	2,374	2,497	5,339	8,342	7,752
Clark U.	346	5,237	6,032	7,041	5,481	5,644	6,357	6,404	7,408	7,650	9,426	9,795	7,750
Illinois State U.	347	5,622	5,492	4,852	5,155	5,212	5,042	5,586	4,658	5,157	6,584	7,128	7,664
Lincoln U., Jefferson City	348	8,475	8,518	7,899	6,585	6,742	6,296	5,826	5,164	4,215	4,581	5,777	7,621
Duquesne U.	349	12,078	13,603	12,858	12,385	13,019	13,767	14,211	14,396	14,121	13,176	13,851	7,589
U. Hawaii, Hilo	350	11,567	5,927	14,841	11,607	9,242	14,431	11,216	6,976	7,048	6,818	6,957	7,379
U. Michigan, Dearborn	351	6,377	7,025	5,720	6,419	7,744	7,179	7,050	7,664	7,411	8,092	8,141	7,174
U. of the District of Columbia	352	5,012	3,700	4,011	3,073	2,361	2,043	3,469	3,733	2,960	4,043	3,942	7,054
U. Arkansas, Little Rock	353	9,754	11,320	10,245	11,994	7,055	6,276	6,971	6,050	7,079	9,134	8,883	6,896

TABLE 79

Higher education R&D expenditures in science and engineering fields, ranked by FY 2021 R&D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021			
Winston-Salem State U.	354	ne	743	1,280	436	ne	ne	1,069	1,175	1,289	1,468	4,378	6,890			
California State Polytechnic U., Pomona	355	4,040	4,737	4,599	6,702	i	5,349	4,513	5,254	5,732	7,538	5,323	7,151	6,878		
California State U., Monterey Bay	356	5,305	6,959	6,567	6,129		4,780	5,459	5,679	5,384	5,702	6,192	5,763	6,844		
Edward Via C. of Osteopathic Medicine	357	ne	2,453	2,576	4,992		2,633	2,237	5,692	8,119	7,601	7,225	7,475	6,629		
West Virginia State U.	358	3,770	4,176	5,087	4,467		6,689	7,364	5,224	6,305	6,535	5,763	5,775	6,438		
Sam Houston State U.	359	6,045	2,637	3,643	3,225		3,235	2,804	3,170	3,408	5,622	6,180	5,758	6,422		
California State U., Fullerton	360	11,147	14,330	11,094	10,230		7,104	5,318	5,029	4,890	5,724	6,017	5,457	6,363		
Grand Valley State U.	361	4,968	6,296	i	7,624	i	8,954	7,934	7,213	6,595	6,268	6,729	6,204	6,354	6,315	
Ball State U.	362	4,780	9,159	4,701	3,616		4,364	4,810	5,689	5,215	6,412	7,025	6,771	6,262		
U. New England	363	3,560	4,016	5,217	6,637		7,456	7,360	7,289	7,817	6,668	7,346	6,881	6,229		
Philadelphia C. of Osteopathic Medicine	364	1,278	2,401	1,898	2,614		2,209	2,561	2,458	2,969	3,059	3,162	3,360	6,186		
Southern U. and A&M C., Agricultural Research and Extension Center	365	ne	6,143	8,122	5,530		5,606	4,761	4,704	5,000	i	5,296	5,448	4,475	6,164	
Gallaudet U.	366	4,975	4,404	4,305	4,468		3,457	3,543	4,014	7,060	7,046	3,255	2,904	6,116		
Western Kentucky U.	367	9,527	8,003	10,259	8,744		7,398	6,936	7,480	9,062	8,003	7,872	7,022	6,092		
Langston U.	368	4,492	5,206	5,326	4,932		8,512	8,126	10,941	10,592	i	10,459	i	10,326	13,954	6,090
Roseman U. of Health Sciences	369	ne	840	ne	ne		3,021	3,287	3,433	4,167	3,973	4,176	i	4,380	5,893	
CUNY, Brooklyn C.	370	6,266	8,706	8,485	7,631		8,232	8,553	9,205	6,748	6,054	6,299	i	6,518	5,768	
Western U. of Health Sciences	371	1,283	900	2,773	2,218		2,384	2,219	3,717	5,740	4,063	3,936	4,866	5,598		
Wesleyan U.	372	7,599	9,356	8,162	7,280		6,017	6,330	6,760	7,589	8,529	7,714	5,971	5,596		
Fordham U.	373	5,212	4,494	5,624	6,704		7,086	6,352	9,477	8,429	7,336	6,623	5,472	5,479		
Loyola Marymount U.	374	1,364	3,938	2,369	2,285		3,610	3,286	4,168	4,075	4,120	4,322	4,489	5,436		
U. North Florida	375	6,316	8,773	6,620	4,126		2,657	3,160	4,366	5,059	5,666	5,439	5,490	5,358		
U. Southern Maine	376	3,125	7,236	13,682	11,527		6,723	i	5,095	i	3,465	6,550	6,696	6,058	5,180	5,341
U. of Health Sciences and Pharmacy in St. Louis	377	ne	ne	ne	ne		ne	ne	ne	ne	ne	ne	ne	4,835	5,313	
DePaul U.	378	4,302	5,256	5,344	4,828		5,681	8,506	8,590	7,590	6,325	5,241	5,754	5,293		
C. Charleston	379	11,422	6,446	7,217	8,078		7,121	7,327	6,955	6,740	5,450	5,206	4,142	5,109		
Pennsylvania State U., Behrend	380	2,500	2,724	3,169	3,041		4,156	3,614	5,104	3,598	2,617	3,268	1,713	5,102		
Florida Gulf Coast U.	381	3,841	3,611	3,190	2,943		2,150	1,967	2,112	1,888	1,742	1,470	3,454	5,057		
Toyota Technological Institute, Chicago	382	ne	746	ne	ne		ne	2,543	2,710	2,880	3,251	3,681	5,887	4,967		
Salisbury U.	383	844	880	2,689	2,587		3,677	4,180	4,523	3,679	4,867	4,870	4,432	4,956		
Eastern Michigan U.	384	5,388	5,044	5,428	2,655		1,244	1,509	2,642	3,467	3,637	4,706	6,584	4,842		
Fort Valley State U.	384	4,586	3,850	3,665	3,688		4,547	4,320	5,138	5,374	3,916	4,562	4,921	4,842		
Bryn Mawr C.	386	4,482	4,807	6,247	5,429		5,329	6,369	6,136	6,270	5,708	4,971	5,508	4,803		
St. Edward's U.	387	ne	3,299	2,480	2,640		1,745	4,200	3,720	7,161	2,813	5,813	5,377	4,789		
Wellesley C.	388	5,271	4,130	5,253	6,156		6,537	5,653	6,896	5,489	4,896	5,076	4,957	4,701		

TABLE 79

Higher education R&D expenditures in science and engineering fields, ranked by FY 2021 R&D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021										
U.S. Army War C.	389	ne	ne	ne	ne	ne	ne	ne	ne	ne	2,146	i	ne	4,662	i								
California State U., Bakersfield	390	2,083	3,130	1,115	2,380	2,254	2,857	2,725	3,751	4,633	6,612		5,902	4,608									
Des Moines U.	391	855	924	ne	ne	929	ne	1,206	1,355	1,351	1,643		4,395	4,604	i								
U. Colorado Colorado Springs	392	8,805	6,935	3,996	3,688	4,312	5,962	5,679	5,611	4,730	3,440		4,385	4,495									
U. of St. Thomas (MN)	393	1,003	1,037	751	1,019	647	ne	909	929	1,344	1,395		2,047	4,471									
Hope C.	394	3,552	3,605	3,320	3,367	2,719	2,932	2,811	3,213	3,011	2,694		3,157	4,429									
U. Detroit Mercy	395	1,084	1,127	933	ne	1,305	1,872	3,649	2,737	4,577	5,170		4,756	4,422									
Abilene Christian U.	396	625	486	ne	ne	ne	ne	ne	ne	ne	ne		ne	4,412									
U. Wisconsin-Stevens Point	397	6,674	6,063	i	5,452	4,300	3,876	i	3,404	i	2,933	i	3,377	i	3,822	i	4,266	i	4,713		4,393		
New York Institute of Technology	398	1,785	1,934		2,056	3,214	4,916		3,507		3,846		3,094		3,663		5,705		3,473		4,389		
Oregon Institute of Technology	399	ne	258	ne	ne	ne	788		4,027		3,537	i	3,145	i	3,357	i	2,968	i	2,968	i	4,314	i	
Norfolk State U.	400	5,944	6,930	8,336	6,179	6,780	5,122		7,196		7,237		6,877		7,935		7,121				4,308		
Purdue U., Northwest	401	na	na	na	na	na	na		na		4,920		4,695		3,111		4,415				4,260		
Amherst C.	402	2,622	3,230	3,618	i	4,007	3,171		3,401		3,072		3,105		3,546		5,380		3,991		4,226	i	
Claremont McKenna C.	403	4,788	4,425	5,365	i	5,414	i	5,463	i	ne	6,054		5,818		5,299		5,923		5,403		4,204		
Fisk U.	404	7,686	4,631	4,058		5,429	i	7,366		7,247	i	7,681		4,333		2,781		4,606		3,904		4,143	
Bucknell U.	405	5,169	4,618	3,623		3,867		4,143		3,790		4,005	i	4,321	i	4,639		4,061		4,645	i	4,136	
Barnard C.	406	3,240	3,916	3,611		2,893		2,403		2,562		3,103		3,108		2,938		3,539		3,449		4,124	
Morehouse C.	407	7,704	8,280	i	8,856	9,169		6,973		5,836		4,199		3,663		4,365		4,427		4,686		4,102	
Yeshiva U.	408	314,240	281,334		289,027	271,166		306,826		306,174		46,130		3,258		3,302		2,420		2,763		4,083	
U. New Haven	409	ne	595	456	728	511	i	518		2,535		985		5,577		5,045		3,736				4,015	
U. of the Sciences Philadelphia	410	1,945	2,314	2,341		2,087		2,586		3,366		3,187		3,954		3,671		3,740		3,761		4,005	
William Paterson U.	411	574	753	ne	ne	ne		ne		803		1,592		3,691		4,424		4,972				4,000	
Southern U. and A&M C., Baton Rouge	412	6,865	6,819	i	6,773	4,727		3,153		4,054		3,267		3,554		3,532		3,713		3,232		3,899	
Rutgers, State U. New Jersey, Camden	413	2,573	2,792		2,278	4,923		4,691		4,440		4,192		2,912		2,050		1,889		3,351		3,883	
U. Washington, Tacoma	414	106	142	261	23	1		1,812		1,784		971		2,105		3,052		3,179				3,862	
Texas Woman's U.	415	2,155	2,576	3,196	2,067	1,970		1,812		2,635		3,130		3,265		2,996		3,238				3,850	
U. Central del Caribe	416	7,122	7,515	7,313	7,095	7,181		6,964		7,090		5,634		4,111		3,953		3,931				3,831	
U. North Carolina, general administration	417	ne	ne	ne	ne	ne		4,197		4,137		3,721		4,779		4,154		3,932				3,805	
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	418	ne	2,342	2,562	2,979	3,356		3,089		3,177		3,285		3,502		3,769		3,737				3,776	
U. San Diego	419	2,567	2,340	2,485	2,552	2,873		2,332		2,566		3,543		3,491		3,742		3,900				3,774	
Pacific U.	420	1,567	927	481	2,387	1,094	i	978		1,509		5,299		4,156		6,607		4,540				3,767	
Murray State U.	421	3,384	3,713	3,341	2,179	2,053		2,341		2,092		2,438		2,860		3,676		2,993				3,757	
Albany C. of Pharmacy and Health Sciences	422	3,074	3,496	2,639	2,637	3,200		2,520		1,789		2,561		2,730		3,381		3,765				3,687	
Reed C.	423	1,904	1,839	1,837	2,395	3,091		3,050		3,213		1,415		2,607		3,240		3,662				3,682	i

TABLE 79

Higher education R&D expenditures in science and engineering fields, ranked by FY 2021 R&D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Appalachian State U.	424	2,550	3,498	4,196	2,877	3,977	3,507	2,868	4,318	3,387	3,060	4,141	3,650
California State U., Chico	425	2,710	2,288	2,430	2,833	2,284	1,676	2,152	1,474	2,298	2,562	3,671	3,634
Smith C.	426	4,215	4,156	3,777	3,688	4,047	5,006	4,124	5,211	5,360	5,330	4,047	3,633
Williams C.	427	4,691	4,165	4,080	3,127	3,213	4,461	4,506	4,393	4,372	3,735	3,549	3,560
Occidental C.	428	2,154	1,803	1,592	1,634	2,177	1,426	1,907	1,764	1,432	2,458	2,657	3,523
Touro U.	429	999	1,196	1,993	1,772	3,067	3,106	3,466	3,122	3,233	3,543	3,539	3,475
SUNY, C. of Optometry	430	3,529	3,738	3,466	3,637	3,481	3,906	4,169	3,304	3,120	2,968	3,477	3,460
U. Oklahoma, Tulsa	431	ne	ne	ne	ne	ne	2,554	3,107	2,667	3,868	4,003	4,591	3,432
Haverford C.	432	3,603	2,765	2,588	2,370	2,546	2,266	1,750	1,945	2,630	3,324	4,473	3,424
Western Illinois U.	433	1,210	1,524	4,514	1,983	1,349	778	ne	1,904	2,414	2,307	2,297	3,394
CUNY, Graduate Center	434	6,799	4,964	6,861	8,835	5,719	4,144	4,979	5,727	4,145	4,163	3,613	3,352
Towson U.	435	3,002	3,570	2,529	2,795	2,265	2,200	1,945	2,593	3,033	3,245	3,259	3,290
Claremont Graduate U.	436	5,068	1,100	6,200	7,030	5,907	5,252	4,598	3,944	3,290	2,634	4,365	3,281
Northern Kentucky U.	437	2,188	2,214	1,970	1,641	1,867	1,715	1,650	1,517	1,429	2,025	2,411	3,266
Dakota State U.	438	ne	1,015	5,709	1,574	1,446	1,152	2,026	2,276	3,610	3,706	4,412	3,255
Indiana U. Pennsylvania	439	767	967	958	337	414	ne	628	1,798	2,474	3,637	3,668	3,249
South Carolina State U.	440	7,166	8,157	9,149	6,674	7,838	9,002	12,077	13,254	14,021	3,010	3,123	3,236
Milwaukee School of Engineering	441	3,944	4,347	4,599	4,351	4,410	4,524	3,930	3,374	3,232	4,026	3,190	3,193
U. Northern Iowa	442	2,077	3,451	3,302	3,395	3,510	3,281	3,559	3,248	2,946	3,601	2,870	3,180
Lamar U.	443	5,316	4,685	3,570	2,564	2,439	2,218	1,824	3,359	3,316	3,196	2,339	3,154
U. North Carolina, Asheville	444	2,322	2,603	2,575	2,189	1,597	2,046	2,794	2,418	2,641	2,226	2,932	3,149
Hofstra U.	445	1,151	1,095	1,546	955	1,354	2,039	1,916	1,455	1,347	1,253	977	3,107
Carleton C.	446	2,916	3,081	3,529	4,768	4,426	2,718	1,451	1,794	1,918	3,946	2,758	2,984
CUNY, Lehman C.	447	2,932	3,168	2,982	2,242	2,543	2,613	3,847	4,114	4,657	2,594	3,429	2,968
Middlebury C.	448	2,284	2,358	3,015	2,083	1,371	1,574	1,822	2,043	1,822	1,657	1,720	2,927
U. Baltimore	449	3,606	4,452	3,894	3,865	3,951	4,091	5,188	4,972	3,794	3,474	3,456	2,915
Sonoma State U.	450	858	787	ne	1,938	1,714	1,146	572	ne	ne	ne	1,459	2,878
Southern Connecticut State U.	451	0	899	1,034	632	2,472	2,058	1,406	1,481	1,684	2,756	3,526	2,867
U. Nebraska, Kearney	451	1,441	2,137	948	1,234	1,275	1,216	1,588	3,011	2,091	2,636	2,524	2,867
U. Massachusetts, central office	453	ne	ne	485	131	339	517	1,690	2,894	3,308	3,437	4,272	2,855
U. Wisconsin-La Crosse	454	3,852	3,366	2,879	2,815	3,121	2,948	2,795	2,840	3,178	2,355	2,570	2,847
Colgate U.	455	2,559	2,109	3,004	2,340	2,226	2,244	2,631	2,728	3,142	3,128	2,163	2,807
Santa Clara U.	456	3,812	2,327	3,082	2,201	2,772	1,654	2,038	2,026	2,182	2,220	2,569	2,790
Pittsburg State U.	457	1,759	1,687	1,479	1,536	2,458	2,205	2,162	2,255	2,253	2,513	2,173	2,730
CUNY, C. Staten Island	458	3,137	2,162	3,151	2,477	2,089	1,907	2,780	2,988	3,644	3,517	3,534	2,726
St. John's U., New York	459	1,509	1,697	1,971	2,376	2,392	2,225	1,832	2,200	2,635	2,309	2,930	2,696

TABLE 79

Higher education R&D expenditures in science and engineering fields, ranked by FY 2021 R&D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Alfred U.	460	4,181	5,946	5,377	6,014	4,156	5,064	3,735	3,197	3,628	5,153	2,780	2,660
Pennsylvania State U., Harrisburg	461	2,728	3,446	2,774	1,906	2,482	3,379	2,546	1,638	2,087	2,497	1,798	2,652
Alabama State U.	462	13,340	12,340	13,607	1,927	2,236	2,303	2,372	2,253	2,434	2,577	2,582	2,631
California State U., Maritime Academy	463	ne	3,005	i 2,342	2,180	1,011	1,522	2,205	1,916	3,039	2,959	3,202	2,603
Trinity U.	464	1,387	1,355	1,611	2,815	2,499	2,225	2,096	2,712	2,637	3,185	2,834	2,598
U. Wisconsin-Superior	464	5,890	6,187	i 6,041	i ne	3,022	i ne	ne	ne	3,060	2,250	2,295	2,598
National Defense U.	466	ne	ne	ne	4,906	6,712	4,832	5,720	5,723	2,219	2,155	2,583	2,586
Bates C.	467	1,545	1,814	2,031	2,444	1,531	2,725	1,730	1,750	1,508	2,074	2,237	2,577
Stephen F. Austin State U.	468	7,536	4,664	3,370	2,877	3,207	3,920	2,968	2,801	2,599	3,241	2,456	2,520
MGH Institute of Health Professions	469	ne	587	ne	ne	ne	3,931	2,228	1,839	2,957	3,494	3,014	2,500
Azusa Pacific U.	470	ne	3,414	i 1,930	i ne	ne	3,953	4,996	4,330	4,207	2,731	3,609	2,466
Western Carolina U.	471	2,353	1,419	1,768	1,011	1,048	1,145	1,305	1,431	1,430	2,518	2,352	2,441
Framingham State U.	472	ne	ne	ne	ne	ne	ne	ne	1,875	131	ne	2,317	2,401
Central Washington U.	473	5,132	2,854	2,752	2,087	1,998	2,182	2,751	3,755	3,050	3,205	2,620	2,400
Swarthmore C.	474	2,381	2,364	2,684	2,744	2,657	2,215	2,310	2,643	2,690	2,795	2,540	2,396
Saginaw Valley State U.	475	585	925	748	576	ne	838	804	978	1,584	2,750	2,301	2,386
West Chester U. Pennsylvania	476	4,634	i 7,785	1,914	969	1,294	2,294	3,138	3,302	3,247	3,787	2,862	2,377
Christopher Newport U.	477	1,096	1,669	1,327	1,173	1,469	1,002	1,036	1,137	1,437	1,961	2,244	2,373
Pace U.	478	2,413	2,709	3,306	2,914	3,570	3,436	2,946	2,847	2,148	2,384	3,077	2,346
Texas A&M International U.	479	1,596	1,336	1,225	1,349	1,450	925	1,617	2,974	3,729	4,034	1,713	2,336
Harvey Mudd C.	480	3,214	3,830	3,507	3,531	3,088	3,204	4,302	3,706	3,717	3,292	2,850	2,328
U. Northern Colorado	481	2,029	1,801	2,012	2,174	3,252	2,670	2,866	3,220	3,722	3,157	2,362	2,309
CUNY, Baruch C.	482	1,860	1,342	2,143	967	900	1,379	2,315	1,843	1,736	1,987	2,243	2,297
Youngstown State U.	483	4,518	4,625	3,533	3,713	3,410	3,331	2,333	4,416	4,435	4,368	3,996	2,290
Northwest Indian C.	484	2,271	i 2,557	i 2,590	2,760	2,503	i 1,575	i ne	ne	1,649	2,201	2,181	i 2,289
U. Illinois, Springfield	485	1,808	1,536	2,155	2,205	1,852	2,040	1,293	2,246	2,104	1,727	2,859	2,286
Davidson C.	486	1,432	1,808	1,291	2,213	1,629	2,305	1,463	1,583	1,338	1,549	1,842	2,279
Fayetteville State U.	487	2,188	2,378	1,771	2,050	2,499	2,092	3,040	2,502	2,501	2,224	1,985	2,272
Skidmore C.	488	2,632	1,941	1,758	1,733	1,646	1,620	1,208	1,741	2,451	2,924	2,316	2,269
U. Texas of the Permian Basin	489	1,274	1,024	969	716	1,216	1,132	1,080	597	300	ne	939	2,268
California State U., Channel Islands	490	ne	363	ne	1,101	3,324	1,640	1,282	1,002	1,170	1,517	1,399	2,262
U. Washington, Bothell	491	471	497	553	13	742	2,168	744	1,114	1,361	2,356	1,260	2,246
Palmer C. of Chiropractic, Davenport	492	4,693	4,861	4,507	3,774	2,736	i 1,698	1,510	1,189	1,600	1,650	1,900	2,233
Franklin and Marshall C.	493	3,444	3,140	2,543	2,855	2,123	3,045	2,447	2,876	2,911	3,092	1,919	2,199
Colorado State U., Pueblo	494	413	364	ne	ne	ne	ne	ne	ne	ne	2,008	1,937	2,159
Sul Ross State U.	495	2,970	3,101	2,296	2,159	2,528	2,187	1,908	2,498	2,934	2,352	2,068	2,143

TABLE 79

Higher education R&D expenditures in science and engineering fields, ranked by FY 2021 R&D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. Louisiana, Monroe	496	2,869	2,801	2,439	2,753	2,267	1,640	2,430	2,297	2,123	2,359	2,349	2,135
Grinnell C.	497	1,797	1,072	2,001	2,603	2,336	2,091	2,055	3,174	3,798	3,655	2,921	2,129
Keck Graduate Institute	498	ne	2,313	1,920	2,357	2,132	1,708	1,799	i 1,859	i 1,850	i 1,969	i 2,023	i 2,121
U. Richmond	499	3,243	3,051	3,302	2,602	2,921	2,484	2,559	2,532	2,301	2,311	2,073	2,117
U. Texas, Tyler	500	2,566	2,394	3,705	2,343	2,573	2,349	1,120	1,710	1,589	2,029	1,882	2,114
Bowdoin C.	501	2,532	2,633	4,277	4,025	2,950	2,873	3,079	2,200	2,506	2,677	2,554	2,112
Tougaloo C.	502	2,978	2,542	1,865	1,857	1,894	1,868	1,747	2,252	2,860	2,293	2,102	2,092
Austin Peay State U.	503	ne	1,603	1,358	1,413	868	863	556	955	1,191	1,169	1,974	2,083
Coastal Carolina U.	504	2,383	2,035	2,232	2,411	2,079	1,750	1,585	1,875	1,629	2,042	1,903	2,062
California State U., Stanislaus	505	ne	1,419	i 1,758	1,104	892	1,078	1,108	1,326	1,371	1,435	1,769	2,056
Minnesota State U., Mankato	506	3,344	1,990	1,614	1,945	1,798	1,632	3,605	1,849	2,293	2,665	2,339	2,034
Texas A&M U.-Commerce	507	2,147	1,316	1,550	1,758	1,606	1,972	1,409	2,250	2,558	2,428	2,544	2,031
U. South Carolina, Aiken	508	337	i 750	ne	1,309	1,133	i 1,154	1,445	2,961	2,582	2,145	2,489	1,994
California State U., Dominguez Hills	509	2,743	2,780	2,894	3,088	1,384	i 1,035	1,460	1,105	1,582	1,563	1,810	1,985
New England C. of Optometry	510	1,457	1,751	2,237	2,172	1,234	1,077	980	ne	1,026	1,223	1,150	1,978
U. Central Arkansas	511	1,700	1,457	1,563	1,444	2,201	2,037	2,132	2,167	2,253	2,150	2,107	1,939
SUNY, Buffalo State	512	1,889	2,532	2,970	2,099	1,971	2,355	2,195	1,868	1,905	2,009	2,208	1,935
Eastern Washington U.	513	3,171	3,780	2,538	2,027	1,820	2,973	3,276	1,964	2,506	1,971	2,221	1,918
CUNY, John Jay C. of Criminal Justice	514	4,354	4,125	5,001	3,799	3,726	3,515	3,252	3,738	5,893	2,986	4,557	1,908
Fort Lewis C.	515	360	606	ne	ne	ne	ne	ne	ne	ne	1,460	1,370	1,906
U. of the Incarnate Word	516	ne	302	ne	ne	ne	576	ne	ne	1,057	1,428	1,408	1,895
Hobart and William Smith Colleges	517	1,320	1,355	1,120	2,042	1,100	654	ne	923	ne	1,846	2,007	1,886
Spelman C.	517	2,740	1,833	1,874	1,366	1,185	1,035	1,291	1,227	1,673	2,004	2,136	1,886
U. Puerto Rico, Cayey	519	713	1,067	1,817	1,726	1,795	1,521	1,415	1,109	1,359	1,870	i 1,974	1,881
Pomona C.	520	2,377	3,115	2,694	3,364	3,412	3,234	3,447	2,787	2,425	2,239	2,582	1,878
SUNY, Geneseo	521	1,174	2,239	1,989	1,082	957	1,162	1,594	1,626	1,813	1,958	1,528	1,847
Mount Holyoke C.	522	2,305	2,810	2,838	2,716	3,335	3,565	3,297	3,635	2,601	2,689	1,895	1,845
C. New Jersey	523	809	420	ne	ne	ne	ne	ne	1,023	867	ne	1,389	1,828
Hawaii Pacific U.	524	ne	592	1,016	983	1,524	1,221	2,351	2,155	2,094	1,960	1,796	1,817
Marymount U.	525	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,812
Mercyhurst U.	526	1,106	581	588	474	887	631	307	976	i 1,673	i 1,719	i 1,808	i 1,808
Savannah State U.	527	1,874	2,700	1,996	2,613	2,210	1,801	2,261	1,405	1,793	1,720	1,804	1,804
U. Wisconsin-Eau Claire	528	1,774	1,287	1,225	1,132	798	ne	1,170	1,557	1,136	1,468	1,275	1,777
Furman U.	529	2,202	2,023	1,889	1,994	1,513	1,748	1,864	2,029	2,015	1,628	2,079	1,776
U. Wisconsin-Green Bay	530	1,128	984	i 991	i 998	i 1,003	i 1,010	i 1,446	i 1,364	i 1,353	i 1,936	i 1,849	i 1,752
Morehead State U.	531	1,882	2,000	2,064	2,376	1,433	1,420	2,089	2,564	2,223	1,624	1,862	1,735

TABLE 79

Higher education R&D expenditures in science and engineering fields, ranked by FY 2021 R&D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Dillard U.	532	3,707	5,577	i 7,448	7,692	6,907	9,385	9,459	6,943	6,573	2,730	2,487	1,733
Heidelberg U.	533	ne	1,219	i ne	1,129	1,537	1,107	1,286	1,619	1,280	1,237	1,125	1,725
Trinity C., Hartford	534	1,292	1,449	1,675	1,369	1,654	1,217	1,217	2,496	1,423	1,579	1,309	1,720
Monmouth U.	535	2,195	1,956	904	ne	865	ne	900	ne	ne	1,294	1,729	1,667
CUNY, system office	536	ne	ne	819	435	652	828	820	444	2,940	1,713	1,470	1,664
Rhode Island C.	537	ne	2,316	1,569	1,167	907	1,396	1,259	960	776	809	1,438	1,629
Pepperdine U.	538	239	1,134	i 1,455	i 1,107	i 1,298	1,725	1,820	897	691	1,025	1,153	1,564
Manhattan C.	539	498	521	ne	ne	ne	ne	ne	ne	ne	969	1,064	1,522
U. Ana G. Mendez, Gurabo	539	1,054	410	615	566	2,319	1,780	1,747	1,640	1,388	3,823	2,025	1,522
Vassar C.	541	1,236	1,552	993	1,136	999	2,118	i 1,417	1,579	4,185	i 1,009	1,553	1,498
Citadel Military C. South Carolina	542	ne	305	ne	ne	ne	ne	ne	ne	ne	ne	693	1,497
U. Central Oklahoma	543	1,786	1,537	998	1,058	1,207	1,619	1,214	1,054	1,228	1,429	1,422	i 1,489
Roger Williams U.	544	1,174	1,616	1,369	1,283	1,927	1,450	1,815	1,900	1,665	1,459	1,285	1,470
Winthrop U.	545	ne	1,350	1,465	1,207	1,211	1,163	917	853	865	1,146	1,200	1,441
Calvin U.	546	3,720	2,045	2,370	3,408	2,627	1,772	i 1,331	1,306	1,793	1,521	1,444	i 1,439
U. Wisconsin-Oshkosh	547	1,229	1,847	2,027	1,763	i 1,613	i 1,465	i ne	1,338	i 1,361	i 1,386	i 1,409	i 1,432
U. Houston-Clear Lake	548	831	1,273	1,253	1,175	1,013	853	1,067	1,146	1,227	1,113	1,128	1,399
Saint Joseph's U.	549	1,957	1,840	1,704	937	569	650	911	1,316	1,255	1,688	1,748	1,398
Troy U.	550	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,589	1,394
Northeastern Illinois U.	551	376	388	ne	ne	613	ne	ne	805	1,877	2,078	1,378	1,370
U. of the Pacific	551	4,429	3,241	3,753	3,479	1,877	1,488	2,289	1,592	2,228	2,387	1,690	1,370
Union C., Schenectady	553	1,957	1,527	1,378	2,312	1,807	1,431	2,031	1,042	1,297	1,454	837	1,353
Marshall B. Ketchum U.	554	ne	ne	ne	ne	1,030	1,468	1,491	1,512	i 1,451	i 1,430	i 1,357	i 1,351
U. Virginia's C. Wise	555	481	336	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,346
U. Puerto Rico, Humacao	556	1,968	i 1,976	1,949	1,452	1,102	748	ne	ne	1,168	1,195	1,456	1,321
Elizabeth City State U.	557	5,366	10,229	3,811	3,843	2,434	1,837	1,670	1,323	978	ne	1,010	1,319
Purdue U., Fort Wayne	558	4,832	5,206	4,563	5,080	4,348	4,013	3,930	3,317	3,401	1,220	1,380	1,317
U. Hartford	559	1,137	2,414	1,736	1,448	1,305	1,350	1,478	1,572	460	1,528	1,239	1,247
Stockton U.	560	ne	1,226	609	ne	1,155	1,297	759	ne	2,560	2,630	3,198	1,246
West Virginia School of Osteopathic Medicine	561	594	528	ne	ne	ne	ne	ne	ne	ne	ne	1,303	1,245
Connecticut C.	562	1,532	1,801	1,740	1,842	1,966	1,900	1,972	1,875	1,349	1,894	1,598	1,244
Northwestern State U. Louisiana	562	1,407	1,185	1,085	997	792	ne	1,202	1,023	1,199	1,275	1,341	1,244
Grambling State U.	564	993	2,085	1,523	1,327	1,165	1,098	1,454	1,554	1,343	927	855	1,238
SUNY, C. Plattsburgh	565	1,613	1,098	913	ne	1,008	1,087	1,020	1,003	1,604	1,649	1,419	1,229
Black Hills State U.	566	1,741	1,568	1,909	1,983	1,322	1,197	1,722	1,297	918	1,254	1,439	1,204
Biola U.	567	ne	ne	ne	ne	ne	ne	947	i 978	i 1,026	i 1,097	i 1,130	i 1,185

TABLE 79

Higher education R&D expenditures in science and engineering fields, ranked by FY 2021 R&D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
St. Cloud State U.	568	2,326	1,992	1,489	1,418	1,511	2,148	1,576	1,676	1,694	1,435	1,040	1,179
U. Alaska, Southeast	569	1,620	1,147	1,107	1,241	1,484	1,588	1,725	1,621	1,640	1,341	1,257	1,176
Florida Polytechnic U.	570	na	na	na	na	na	212	ne	ne	ne	1,981	1,071	1,166
Johnson C. Smith U.	571	ne	ne	ne	ne	ne	ne	641	628	1,425	1,034	1,087	1,153 i
Colby C.	572	1,515	1,528	1,709	1,571	1,475	1,573	1,639	1,643	1,948	1,641	1,390	1,133
Macalester C.	572	3,080	3,343	1,518	1,241	1,256	1,096	1,389	1,754	1,218	1,582	1,565	1,133
New Mexico Highlands U.	574	1,463	1,444	1,241	1,209	979	ne	1,111	1,023	952	ne	1,090	1,129 i
Northern Michigan U.	575	423	405	ne	ne	ne	ne	627	653	963	1,047	1,163	1,127
SUNY, C. Brockport	576	831	1,248	1,487	1,183	1,130	1,329	1,331	1,270	1,268	1,372	1,713	1,111
Southeastern Louisiana U.	577	2,172	1,638	1,733	1,642	1,408	1,984	1,550	1,606	1,304	1,140	1,564	1,071
CUNY, York C.	578	ne	2,134	1,153	826	ne	315	ne	ne	ne	1,574	1,648	1,060
Canisius C.	579	221	205	ne	ne	ne	ne	ne	1,398	1,054	943	ne	1,036
Alaska Pacific U.	580	434	518	ne	ne	ne	976	1,009	835	1,325	1,627	1,234	1,034
CUNY, New York City C. of Technology	581	133	284	ne	ne	ne	ne	ne	ne	2,358	2,576	1,902	1,029
Claflin U.	582	3,241	5,202	5,255	2,574	1,618	1,204	1,748	1,354	1,505	1,736	1,910	1,015
Central Connecticut State U.	583	659	1,083	1,248	1,416	971	1,106	1,198	873	ne	966	989	1,007
U. San Francisco	583	1,546	1,734	3,405	2,233	2,208	1,848	1,718	1,009	1,169	1,195	1,157	1,007
Augustana U.	585	912	1,578	1,160	1,045	1,106	756	ne	958	1,128	841	ne	1,003
Seton Hall U.	585	3,030	5,560	679	691	688	736	825	850	724	810	539	1,003
U. Houston-Downtown	587	1,010	1,272	2,123	584	605	1,016	818	1,111	953	481	682	994
Bowie State U.	588	ne	1,910	1,739	1,422	1,761	1,497	1,507	987	1,100	876	1,368	980
Ithaca C.	589	1,046	963	1,079	1,141	1,079	836	ne	ne	ne	ne	1,129	966
SUNY, Oswego	589	783	977	ne	724	ne	ne	ne	1,626	1,953	1,679	1,500	966
U. Wisconsin-Platteville	591	681	715 i	ne	ne	899 i	726 i	ne	812 i	ne	829 i	843 i	950 i
Doane U.	592	ne	1,022	678	ne	1,026	474	ne	ne	952	887	911 i	948 i
Franklin W. Olin C. of Engineering	593	ne	1,012	1,777	1,157	1,561	2,136	1,762	1,301	876	534	491	936
Lewis and Clark C.	593	1,427	1,504	1,222	2,948	3,118	2,480	2,063	1,905	1,407	1,370	1,907	936
Elon U.	595	ne	602 i	707 i	876 i	851	1,054	1,141	1,130	1,304	1,162	890	921
Keene State C.	596	ne	1,029	814 i	597	1,048	966	ne	825	ne	1,061	1,063	919
Eastern Kentucky U.	597	3,017	3,169	2,965	2,182	1,858	1,375	1,340	1,157	1,004	975	912	897
Northland C.	598	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	881 i
Albion C.	599	ne	563	ne	ne	ne	ne	ne	807	738	753	866	868 i
Lafayette C.	600	1,544	1,720	1,308	1,269	973	1,201	959	1,459	1,239	1,101	1,185	859
U. Hawaii, Maui C.	601	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	857
Eastern Connecticut State U.	602	ne	96	ne	ne	574	606	464	770	588	871	1,057	851
National U. of Natural Medicine	603	ne	791	ne	ne	ne	ne	ne	921	ne	1,245	1,428	850

TABLE 79

Higher education R&D expenditures in science and engineering fields, ranked by FY 2021 R&D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021						
Rhode Island School of Design	640	ne	377	ne	ne	ne	328	354	i	351	i	695	i	691	i	657	i	247	i
Sacred Heart U.	641	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	174
Mills C.	642	122	210	162	325	139	99	257	68	44	230	129	167						
Jacksonville State U.	643	398	624	ne	ne	ne	197	457	363	i	380	167	58	67					
La Sierra U.	644	ne	661	ne	ne	283	280	471	228	147	213	180	6						
All other surveyed institutions	-	1,751,899	2,179,522	2,154,595	2,072,590	1,408,650	1,418,987	1,444,058	1,523,954	1,606,416	632,364	563,991	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 \$1,949,752 thousand in total R&D expenditures in science and engineering fields in FY 2021.

^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^c The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

^d The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

^e The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):

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