

TABLE 79

## Higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2022 R&amp;D expenditures: FYs 2010–22

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
All institutions	-	58,387,551	61,988,017	62,198,981	63,342,770	63,733,283	64,906,285	67,603,238	70,847,375	74,382,109	78,633,252	81,266,294	84,580,554	91,822,920
Johns Hopkins U. <sup>a</sup>	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	3,410,192
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	1,805,950
U. Pennsylvania	3	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	1,651,972
U. Michigan, Ann Arbor	4	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	1,649,126
U. California, San Diego	5	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	1,506,966
U. Washington, Seattle	6	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	1,491,668
U. California, Los Angeles	7	899,677	942,450	969,682	934,135	920,183	992,009	1,002,013	1,037,780	1,242,619	1,249,535	1,338,707	1,396,451	1,470,554
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	1,427,742
Duke U.	9	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	1,374,670
Stanford U.	10	810,300	868,393	854,580	900,547	912,244	969,643	1,012,351	1,055,418	1,106,314	1,158,689	1,159,809	1,230,009	1,339,958
U. North Carolina, Chapel Hill	11	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	1,304,611
Ohio State U.	12	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	1,289,443
Cornell U.	13	747,199	779,809	799,794	841,224	874,727	946,419	956,184	963,166	1,033,740	1,103,810	1,147,119	1,143,319	1,250,601
U. Pittsburgh, Pittsburgh	14	806,014	880,425	839,793	846,556	835,838	852,333	880,508	930,198	995,762	1,068,746	1,092,847	1,124,822	1,241,506
Georgia Institute of Technology	15	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	1,208,017
Harvard U.	16	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	1,197,301
Yale U.	17	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	1,182,633
U. Texas M. D. Anderson Cancer Center	18	599,529	663,279	685,814	718,096	794,980	833,406	852,095	888,029	929,710	969,496	1,051,297	1,124,971	1,182,536
Columbia U. in the City of New York	19	770,888	841,173	847,809	845,847	844,766	826,010	793,710	848,733	908,771	965,696	981,906	1,043,130	1,168,337
U. Maryland <sup>b</sup>	20	na	na	na	na	na	na	na	na	na	1,047,276	1,047,911	1,087,629	1,165,409
New York U.	21	343,762	402,327	425,043	435,095	490,614	505,071	751,393	822,329	801,961	845,249	858,190	986,894	1,160,923
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	1,159,697
Texas A&M U., College Station and Health Science Center	23	666,516	682,553	669,968	796,101	826,152	836,250	859,952	869,100	882,191	911,375	1,089,944	1,108,197	1,096,371
U. Florida	24	636,607	686,048	649,988	642,502	652,341	699,750	741,945	766,469	831,362	880,771	889,677	919,504	1,040,885

TABLE 79

## Higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2022 R&amp;D expenditures: FYs 2010–22

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
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	1,016,233
Vanderbilt U. and Vanderbilt U. Medical Center	26	478,345	534,806	533,878	548,086	659,418	619,866	612,351	681,286	702,128	730,378	774,717	968,571	1,008,824
Pennsylvania State U., University Park and Hershey Medical Center	27	762,041	776,945	783,894	825,011	785,705	774,384	809,985	826,683	885,661	924,031	970,457	936,007	982,289
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	978,728
Northwestern U.	29	554,228	595,202	602,451	612,009	621,504	627,320	684,767	724,060	776,458	827,607	847,679	888,101	968,460
Massachusetts Institute of Technology	30	646,222	693,714	770,367	833,884	815,008	858,917	880,111	878,964	893,508	940,079	926,053	896,339	940,291
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	938,203
U. California, Berkeley	32	659,572	670,926	696,904	690,299	708,485	748,139	734,486	724,817	747,690	751,584	796,303	794,847	906,277
Icahn School of Medicine at Mount Sinai	33	370,666	405,527	400,680	428,654	463,429	508,353	540,296	575,448	640,141	722,241	747,014	820,260	893,968
U. California, Davis	34	669,282	698,193	704,999	715,870	699,689	706,087	726,070	726,469	774,775	791,184	804,674	805,386	870,660
Baylor C. of Medicine	35	447,874	466,061	474,700	508,799	496,314	520,220	572,527	604,952	623,396	651,920	685,641	716,976	827,005
U. Arizona	36	577,958	597,988	615,434	616,487	575,864	592,874	592,412	609,965	672,038	715,290	743,233	741,376	794,268
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	780,041
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	727,068
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	719,859
U. Texas Southwestern Medical Center	40	419,220	431,883	435,085	440,620	434,627	438,824	442,666	461,797	474,260	496,697	595,939	632,134	719,002
Indiana U., Bloomington	41	156,996	160,038	151,240	173,464	172,380	451,508	471,055	507,553	534,811	630,449	676,116	659,073	712,423
U. Alabama, Birmingham	42	483,862	497,680	449,108	434,882	421,475	509,586	531,492	553,651	575,060	595,361	608,545	636,451	701,768
Purdue U., West Lafayette	43	477,145	520,001	528,140	528,564	502,457	498,887	517,879	533,598	535,826	598,411	638,715	623,530	691,359
Boston U.	44	344,687	348,593	330,247	359,312	353,850	372,267	379,117	398,754	435,864	508,813	554,084	625,491	690,805
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	682,102
Arizona State U.	46	296,458	323,567	344,611	367,277	380,581	403,708	441,411	484,315	559,391	572,588	594,927	595,651	668,826

TABLE 79

## Higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2022 R&amp;D expenditures: FYs 2010–22

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
U. Colorado Anschutz Medical Campus <sup>c</sup>	47	na	na	na	na	na	na	na	na	na	na	na	561,527	609,216
U. Virginia, Charlottesville	48	271,843	377,757	363,569	366,103	337,732	339,813	367,926	431,793	490,902	547,179	584,678	551,703	592,325
U. Cincinnati	49	393,518	419,456	408,294	414,738	399,571	408,412	401,701	427,236	464,289	513,397	511,252	530,944	591,320
U. Chicago	50	432,943	446,512	411,864	389,900	378,322	402,777	402,491	419,996	412,791	448,263	448,404	489,005	578,354
U. Colorado Boulder	51	335,983	372,034	373,512	369,663	362,882	403,654	433,850	474,496	488,883	486,073	496,549	519,045	574,814
Virginia Polytechnic Institute and State U.	52	393,888	445,302	448,054	487,121	502,486	495,502	512,333	511,340	520,575	532,154	546,172	531,482	573,228
North Carolina State U.	53	357,802	374,446	400,046	413,524	440,392	462,347	479,039	488,974	497,851	523,124	528,089	529,307	567,750
U. Iowa	54	435,118	433,088	432,980	423,097	436,852	423,528	447,718	466,462	484,253	483,809	510,793	522,141	560,653
U. Utah	55	375,420	410,392	425,558	486,245	476,017	509,409	322,670	318,956	534,208	548,714	577,238	597,318	552,484
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	503,202
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	492,639
Oregon Health and Science U.	58	314,990	334,324	305,360	307,134	313,112	325,268	329,414	346,710	372,148	415,629	446,826	452,798	479,094
U. Georgia	59	274,380	300,388	311,498	308,486	313,445	330,273	360,520	403,575	390,773	414,909	419,656	429,421	474,974
Case Western Reserve U.	60	417,805	428,206	430,246	422,041	417,436	400,167	403,827	406,196	430,379	435,852	437,725	419,933	466,233
U. Kentucky	61	350,857	364,175	354,132	332,366	322,313	325,558	340,295	367,934	382,973	398,384	406,131	418,800	463,357
U. Rochester	62	412,704	428,144	388,401	382,399	347,161	344,921	344,489	351,924	369,072	392,275	395,774	407,058	448,264
California Institute of Technology	63	359,245	374,636	374,075	333,548	358,137	350,833	356,204	380,711	363,007	375,558	418,697	422,491	447,479
Colorado State U., Fort Collins	64	291,621	321,130	335,336	303,461	300,572	308,785	323,068	328,221	356,951	382,252	384,044	432,131	445,539
Princeton U.	65	231,862	255,483	264,980	264,998	287,730	272,379	285,733	321,953	351,297	370,700	382,414	389,652	444,425
U. Miami	66	278,664	321,830	361,772	338,568	342,852	328,082	355,690	365,310	355,132	358,621	380,470	375,130	434,763
Carnegie Mellon U.	67	221,376	240,956	254,992	270,898	250,497	241,829	304,383	313,145	318,218	346,356	373,131	386,540	432,701
U. Illinois, Chicago	68	355,581	373,750	381,918	358,797	339,644	344,619	314,365	352,200	343,254	365,409	396,061	411,904	422,763
SUNY, U. Buffalo	69	337,976	337,783	340,930	371,387	370,083	367,133	373,308	386,386	393,241	394,279	401,640	407,266	417,058
SUNY, Polytechnic Institute	70	na	na	na	na	412,851	295,313	316,680	308,843	257,316	352,788	355,519	465,149	413,602
U. Missouri, Columbia	71	133,120	130,269	234,975	232,760	233,613	243,430	262,919	272,196	275,413	288,501	303,906	354,500	397,821
Iowa State U.	72	243,890	261,016	252,675	259,320	297,293	295,635	316,822	310,100	343,890	342,498	306,338	334,671	368,288
Rockefeller U.	73	265,750	272,491	292,896	298,474	316,368	323,932	335,136	348,845	353,142	351,089	356,217	357,543	360,877

TABLE 79

## Higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2022 R&amp;D expenditures: FYs 2010–22

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
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	358,204
U. Connecticut	75	230,387	247,252	250,468	236,126	247,379	251,621	257,958	257,176	256,826	273,034	270,397	296,090	356,880
U. Oklahoma, Norman and Health Science Center	76	201,187	223,828	217,177	220,916	227,104	227,568	240,239	250,627	262,863	283,375	337,624	334,058	354,567
U. Delaware	77	147,204	160,503	161,327	170,470	169,641	167,904	169,384	176,455	179,560	200,935	214,517	224,655	343,559
U. Texas Health Science Center, Houston	78	240,772	261,172	236,250	233,256	233,737	234,299	237,016	246,060	258,411	271,525	273,862	308,823	342,633
Utah State U.	79	147,612	172,563	155,305	156,774	167,256	173,848	178,830	184,746	215,994	280,476	300,894	322,139	339,964
U. South Florida <sup>d</sup>	80	330,528	343,366	394,694	410,092	436,578	420,002	447,812	502,216	334,944	330,968	287,339	320,913	339,213
Louisiana State U., Baton Rouge	81	280,432	281,221	279,019	276,748	282,462	274,001	282,574	258,402	278,075	287,203	277,811	283,507	333,398
Virginia Commonwealth U.	82	176,422	185,566	179,310	175,880	177,540	196,412	202,150	210,827	222,757	230,882	255,589	291,853	327,324
U. New Mexico	83	207,906	217,206	216,218	220,840	221,817	224,321	227,591	236,623	245,400	233,310	237,249	327,382	325,361
Washington State U.	84	285,120	299,905	288,693	261,537	255,190	277,819	275,208	288,629	289,326	302,309	294,831	324,631	322,562
Thomas Jefferson U.	85	103,064	104,923	100,506	89,273	118,378	119,631	122,396	142,569	148,573	170,458	171,354	200,364	321,638
Medical C. Wisconsin	86	191,816	215,358	209,040	201,237	199,713	199,283	199,925	209,618	229,436	251,300	264,325	276,850	321,506
U. Kansas	87	251,992	248,076	256,310	267,050	251,186	257,766	241,656	251,140	269,494	282,642	292,485	304,800	318,765
Albert Einstein C. of Medicine	88	na	na	na	na	na	na	289,660	289,685	297,328	298,824	288,654	301,715	318,314
SUNY, Stony Brook U.	89	201,846	206,207	218,209	224,030	210,301	219,485	227,942	235,430	240,949	257,048	260,203	270,403	308,351
Dartmouth C. and Dartmouth Hitchcock Medical Center	90	193,608	210,274	195,251	198,995	204,360	203,660	224,497	277,638	287,951	284,843	285,551	292,979	305,348
U. Nebraska, Lincoln	91	211,385	220,141	238,472	245,171	254,877	260,152	264,485	270,749	275,161	284,544	284,935	284,757	300,961
Brown U.	92	201,116	223,455	234,906	222,945	291,917	286,332	235,373	201,253	233,689	245,883	256,871	264,138	297,930
U. Tennessee, Knoxville <sup>e</sup>	93	133,877	151,814	165,708	175,264	170,471	166,591	177,240	199,356	233,705	221,726	292,314	287,374	292,996
Oregon State U.	94	215,400	227,752	239,571	231,342	229,456	242,874	252,541	260,893	266,684	257,935	262,426	271,218	292,006
Medical U. South Carolina	95	224,632	213,346	236,586	245,451	242,594	243,534	260,098	262,267	282,253	295,600	272,590	277,761	284,553
Mississippi State U.	96	223,032	217,793	222,320	197,359	200,251	216,817	229,939	233,024	235,581	255,674	264,367	257,912	283,416
Temple U.	97	115,543	122,663	126,288	207,190	206,556	210,371	232,379	249,156	253,548	263,217	274,258	280,000	281,483
Uniformed Services U. of the Health Sciences	98	134,126	175,365	143,250	164,232	262,489	361,173	256,203	298,370	308,326	417,300	324,510	384,490	277,240

TABLE 79

## Higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2022 R&amp;D expenditures: FYs 2010–22

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
U. Hawaii, Manoa	99	303,085	318,316	312,311	326,402	319,818	313,046	300,864	288,294	272,971	277,704	273,320	268,692	273,968
Georgetown U.	100	155,538	164,301	171,829	170,503	162,983	157,308	162,734	187,948	192,160	210,896	225,504	249,329	268,486
Florida State U.	101	208,834	216,869	208,005	224,425	231,390	237,427	243,327	247,319	260,486	257,656	270,051	250,915	267,537
U. California, Santa Barbara	102	217,952	217,877	222,916	225,976	225,614	213,537	219,907	225,767	223,349	230,097	241,523	232,800	266,443
Auburn U., Auburn	103	143,874	161,785	130,222	143,545	140,110	132,970	149,411	167,352	184,650	199,851	221,503	229,394	263,383
Wake Forest U.	104	192,034	208,460	203,730	182,721	176,380	171,538	169,533	181,876	190,991	236,494	241,271	259,165	261,740
George Washington U.	105	189,113	189,427	187,652	192,152	213,334	226,132	214,984	226,005	242,029	249,198	249,745	248,501	257,177
Woods Hole Oceanographic Institution	106	181,746	198,775	204,352	198,232	220,016	216,592	212,374	194,088	204,400	229,143	227,573	262,048	255,017
Florida International U.	107	92,250	97,804	83,639	92,463	107,487	124,631	133,831	146,431	165,748	191,754	210,258	215,873	249,706
Wichita State U.	108	51,068	51,862	50,108	52,831	53,614	49,902	53,092	65,491	66,916	113,618	139,670	174,661	245,510
U. Notre Dame	109	104,288	121,466	143,328	156,234	160,461	171,148	175,187	184,061	190,469	211,694	200,815	214,388	242,040
U. Texas Health Science Center, San Antonio	110	207,115	198,655	184,298	175,983	172,716	170,277	194,885	169,200	179,219	188,483	202,572	219,734	238,510
Wayne State U.	111	248,753	252,620	221,666	217,984	213,253	207,830	214,306	220,199	230,231	235,072	229,753	222,694	230,996
Tufts U.	112	153,113	154,760	159,140	154,694	156,411	162,510	181,011	216,895	197,478	196,559	209,283	221,029	226,775
U. Massachusetts, Amherst	113	164,850	176,545	178,207	172,217	183,210	197,183	193,863	194,030	193,495	203,885	204,998	201,187	223,427
U. Louisville	114	162,447	166,918	165,319	160,338	163,199	154,598	164,371	168,906	168,433	166,122	184,869	187,772	217,449
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	211,408
Rice U.	116	97,288	109,197	115,235	128,621	136,419	141,935	151,855	163,312	157,352	177,126	192,213	200,803	210,310
U. Dayton	117	91,943	89,037	79,877	82,349	83,409	93,319	111,363	127,207	143,636	163,924	162,216	189,741	209,436
U. Houston	118	106,646	98,231	105,844	112,469	122,163	125,973	142,081	149,795	158,543	168,909	174,582	177,843	208,653
Tulane U.	119	151,686	154,530	154,196	151,314	148,784	140,118	153,298	167,338	179,813	182,444	190,724	191,868	207,447
West Virginia U.	120	146,944	159,206	161,961	159,865	156,946	160,560	164,501	175,403	176,082	178,575	180,349	190,951	206,080
U. Arkansas for Medical Sciences	121	119,518	122,066	129,056	133,677	131,438	132,451	125,378	128,508	139,187	153,135	174,549	194,709	205,493
U. Nebraska, Medical Center	122	138,219	133,036	141,619	137,485	139,126	145,009	150,694	171,491	177,245	194,455	202,406	200,974	205,253
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	204,518
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	204,021
George Mason U.	125	77,966	80,284	79,913	82,849	85,493	89,845	92,649	98,488	125,416	164,053	196,362	193,205	202,471

TABLE 79

## Higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2022 R&amp;D expenditures: FYs 2010–22

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
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	201,859
U. Alaska, Fairbanks	127	127,808	126,691	121,640	118,907	152,352	139,605	141,976	150,064	138,989	142,307	150,364	170,923	200,660
Kansas State U.	128	154,888	163,494	169,863	177,525	178,304	180,082	181,933	183,513	201,866	202,244	199,739	190,199	199,055
U. California, Riverside	129	121,541	125,902	129,609	126,916	128,506	136,493	147,268	159,305	162,054	172,146	177,921	183,414	193,235
U. New Hampshire	130	103,801	128,348	152,276	134,535	130,951	130,700	136,006	133,592	133,378	137,626	145,844	152,800	191,700
U. Central Florida	131	108,662	97,309	102,562	108,560	143,063	169,770	166,000	168,630	176,094	185,873	178,762	182,161	185,692
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	178,990	168,442	184,190
Montana State U., Bozeman	133	124,227	114,244	113,235	103,144	104,646	98,467	102,179	118,221	114,496	140,359	147,443	174,739	180,951
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	171,771
Texas Tech U.	135	106,220	114,648	105,147	114,506	125,126	128,554	132,766	144,898	139,500	147,317	147,162	150,907	169,184
North Dakota State U.	136	125,294	132,717	133,874	144,069	148,352	148,934	152,106	149,230	140,507	145,723	149,867	149,983	165,968
U. Nevada, Reno	137	94,420	86,372	83,137	85,085	81,028	83,385	90,673	99,156	127,049	136,707	144,327	158,566	165,839
U. Louisiana, Lafayette	138	57,333	56,313	51,873	52,089	59,068	55,250	58,984	78,780	102,812	131,601	138,225	148,749	164,578
U. Arkansas, Fayetteville	139	104,336	110,310	111,502	112,296	111,703	120,679	132,648	135,925	146,029	148,960	141,283	142,272	164,018
U. Maine	140	106,238	111,129	91,673	77,169	100,493	78,608	78,576	98,748	105,810	121,621	124,999	136,719	161,080
U. Alabama, Huntsville	141	73,266	72,988	83,076	96,932	85,994	84,745	91,549	89,392	94,519	104,824	124,322	141,890	160,626
Oklahoma State U., Stillwater	142	147,094	162,786	166,523	134,500	126,543	126,607	150,167	152,605	154,418	150,021	153,586	151,936	159,739
New Jersey Institute of Technology	143	81,240	89,250	91,407	97,088	94,371	96,386	95,235	101,334	124,565	136,801	146,635	143,190	155,441
Georgia State U.	144	61,971	54,221	62,188	79,235	80,955	79,813	103,731	133,242	133,302	126,225	126,387	135,070	149,641
Drexel U.	145	115,458	109,729	112,390	118,754	124,464	122,366	120,789	132,507	148,107	140,907	134,792	144,102	142,544
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	136,282
U. Wyoming	147	53,957	55,320	63,812	63,149	48,736	54,928	108,552	121,927	112,857	79,928	91,738	92,230	132,538
U. Oregon	148	83,545	87,161	87,656	78,654	77,655	65,226	68,631	72,517	83,132	82,231	88,598	108,990	129,211
Augusta U.	149	na	na	na	64,033	64,116	67,736	71,338	99,637	99,043	96,396	103,886	116,415	125,126
U. Mississippi	150	100,712	113,281	109,897	98,354	97,286	89,707	102,660	114,674	117,390	137,475	115,972	104,529	123,477
U. Alabama, Tuscaloosa	151	39,992	52,601	52,021	49,728	47,920	51,555	53,395	52,151	59,911	68,032	72,260	99,710	122,764
U. Texas, Dallas	152	75,236	89,767	83,124	93,582	94,961	92,374	99,328	105,140	100,950	113,560	119,531	112,959	120,737
New Mexico State U.	153	146,364	137,301	135,214	136,254	129,124	127,000	103,871	99,975	93,993	100,033	105,817	109,520	120,064

TABLE 79

## Higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2022 R&amp;D expenditures: FYs 2010–22

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Cold Spring Harbor Laboratory	154	ne	89,913	84,072	78,236	76,733	84,653	88,943	97,288	115,870	126,773	115,051	114,885	118,034
U. Rhode Island	155	84,523	101,202	97,845	94,381	84,393	86,139	90,562	95,197	98,271	107,429	102,059	120,266	115,189
U. Tennessee, Health Science Center	156	81,900	i 81,216	77,749	71,897	67,841	65,771	71,547	73,393	79,460	96,979	99,716	109,562	115,161
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	114,874
Rensselaer Polytechnic Institute	158	83,601	84,346	92,348	92,365	104,844	102,122	93,907	96,533	94,221	99,326	114,386	110,580	114,332
U. Montana, Missoula	159	62,814	59,617	58,735	59,809	54,808	60,282	69,994	84,109	86,096	96,246	101,504	112,294	113,897
U. Texas, Arlington	160	62,410	60,003	64,684	72,571	74,261	74,702	82,355	82,065	87,257	100,734	107,017	105,993	113,736
U. Idaho	161	85,475	94,345	95,327	93,941	92,512	95,459	99,354	105,475	105,578	107,351	109,184	102,636	112,198
U. Texas, San Antonio	162	51,480	50,496	48,700	48,599	42,318	50,012	49,383	64,143	66,192	75,719	91,606	98,032	111,983
SUNY, Binghamton U.	163	66,512	65,816	73,098	67,892	63,960	70,367	75,332	88,735	105,017	93,446	105,920	110,490	110,499
U. Texas, El Paso	164	64,134	67,576	72,033	73,005	70,475	77,515	80,981	83,892	80,824	92,205	87,437	86,892	106,992
SUNY, U. Albany	165	356,517	146,987	135,673	135,879	129,434	110,284	105,605	140,392	151,303	161,613	120,484	100,353	104,873
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	102,312
U. Maryland, Baltimore County	167	81,894	83,155	65,628	62,887	64,329	67,944	69,404	69,926	70,358	76,918	79,669	81,658	100,757
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	97,311
Colorado School of Mines	169	43,403	45,816	55,925	57,778	58,498	57,425	59,576	58,175	58,288	67,310	74,763	79,464	90,864
Michigan Technological U.	170	60,183	66,812	67,977	66,192	64,791	66,135	68,863	68,681	75,194	76,853	74,731	78,507	87,980
New Mexico Institute of Mining and Technology	171	51,696	43,857	37,875	32,442	i 48,260	26,222	19,238	20,404	21,260	24,523	24,267	28,487	87,527
Brandeis U.	172	67,672	71,638	69,489	69,398	67,048	i 68,690	i 56,871	62,745	i 56,750	56,738	77,912	80,095	86,979
Syracuse U.	173	76,808	56,598	56,192	48,195	48,034	49,384	53,864	78,329	78,642	83,679	77,690	79,680	79,843
Saint Louis U.	174	46,589	52,134	48,303	47,174	42,316	40,831	40,426	53,643	55,913	61,907	66,858	75,470	79,565
Van Andel Research Institute	175	ne	ne	ne	ne	ne	40,502	i 40,040	i 44,578	i 55,171	61,738	58,982	65,789	78,626
Cleveland State U.	176	33,857	55,044	60,481	67,137	61,291	56,683	i 70,665	77,518	77,203	73,854	72,092	65,974	73,255
U. Nevada, Las Vegas	177	42,202	37,711	33,130	34,299	38,229	39,564	49,405	53,073	62,711	73,777	77,606	74,115	72,478
Howard U.	178	38,626	41,471	44,587	41,351	38,366	45,764	40,412	44,613	44,592	43,227	44,077	51,442	66,646
U. North Texas, Denton	179	22,762	34,421	40,796	43,342	39,453	38,001	30,858	35,443	37,731	54,523	57,764	56,738	66,521
U. Southern Mississippi	180	41,480	45,207	54,151	44,912	45,127	41,432	47,195	49,769	49,785	65,249	64,496	60,447	64,443

TABLE 79

## Higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2022 R&amp;D expenditures: FYs 2010–22

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Northern Arizona U.	181	27,281	28,581	27,078	30,134	30,903	34,731	38,800	45,572	52,105	57,763	62,548	67,558	64,332
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	64,142
CUNY, City C.	183	45,050	56,734	56,618	54,316	52,072	51,905	61,354	53,738	53,132	51,305	44,175	55,178	60,571
Old Dominion U.	184	76,710	80,696	79,305	76,187	52,832	48,418	53,097	54,635	51,747	59,858	58,862	58,478	59,895
U. Toledo	185	66,839	70,164	63,348	63,119	56,710	48,391	45,687	46,697	48,184	52,655	51,843	51,629	59,820
South Dakota State U.	186	67,269	69,646	68,554	63,751	58,199	57,433	60,582	63,328	63,287	66,462	60,600	51,153	59,064
Naval Postgraduate School	187	96,067	95,153	124,531	89,616	91,400	74,293	54,558	52,404	52,551	60,522	58,276	58,240	58,894
Florida Atlantic U.	188	41,896	47,027	46,782	22,594	21,760	19,718	25,158	42,918	44,634	46,399	50,002	54,980	58,593
Texas State U.	189	19,496	19,243	24,285	26,671	25,910	29,934	30,064	28,479	29,444	35,440	39,242	40,513	57,743
Indiana U.-Purdue U., Indianapolis	190	290,490	314,004	308,101	325,562	316,650	51,479	52,050	51,783	54,270	58,150	63,477	58,855	56,684
San Jose State U.	191	32,947	34,075	29,554	32,100	36,354	39,833	38,326	36,594	38,252	39,818	40,474	48,531	55,187
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	54,568
Rochester Institute of Technology	193	33,537	29,709	31,893	32,199	31,471	36,030	39,952	45,563	43,679	49,949	49,572	48,513	54,566
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	54,238
Louisiana State U., Health Sciences Center, New Orleans	195	59,776	57,007	53,712	49,443	45,486	46,840	43,067	40,785	38,989	40,914	43,419	44,370	53,995
Worcester Polytechnic Institute	196	17,154	20,647	18,558	23,780	26,544	33,910	34,921	31,662	31,477	37,822	41,949	47,250	53,527
U. Maryland Center for Environmental Science	197	42,670	50,007	48,224	53,683	50,814	49,341	52,861	54,491	53,398	55,121	53,676	50,322	52,814
U. Texas Rio Grande Valley	198	na	na	na	na	na	na	27,400	28,547	25,623	42,714	47,610	48,450	52,702
Stevens Institute of Technology	199	32,230	39,973	29,893	26,788	28,917	33,042	34,413	34,018	31,565	35,477	42,640	41,313	51,988
Baylor U.	200	8,452	10,277	8,184	11,877	17,877	20,721	22,237	25,052	25,289	26,291	31,313	42,087	51,527
Missouri U. of Science and Technology	201	37,259	36,325	33,797	35,400	38,509	35,144	35,531	37,958	42,657	47,521	46,813	51,669	51,242
U. Missouri, Kansas City	202	24,461	27,000	23,902	23,521	26,452	24,097	23,955	22,806	22,857	30,096	34,695	31,756	50,685
SUNY, Upstate Medical U.	203	43,824	39,988	35,897	34,286	33,460	32,453	31,892	35,551	36,674	38,091	41,557	44,870	50,586



TABLE 79

## Higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2022 R&amp;D expenditures: FYs 2010–22

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
U. Wisconsin-Milwaukee	204	58,417	56,845	52,271	47,568	51,316	55,883	50,661	48,017	53,585	50,950	54,782	49,581	50,505
Mercer U.	205	26,862	28,998	31,352	28,876	30,162	32,771	31,653	29,366	34,098	44,037	48,955	51,895	50,073
Lehigh U.	206	34,897	29,639	28,949	31,003	32,860	33,693	30,375	33,752	35,849	35,414	36,427	39,118	48,362
U. Puerto Rico, Medical Sciences Campus	207	39,134	64,017	45,649	43,374	40,444	43,316	46,232	42,423	41,216	45,014	37,217	44,111	47,578
Ohio U.	208	44,428	43,399	42,798	44,746	58,238	i 57,786	i 55,828	i 57,321	i 49,518	i 45,581	42,369	44,199	47,490
East Carolina U.	209	23,370	25,727	29,468	36,425	29,169	26,248	25,251	25,551	36,066	47,612	47,123	42,053	46,984
Southern Illinois U., Carbondale	210	69,924	71,130	71,097	70,854	65,256	57,509	53,172	48,416	49,636	41,729	41,617	47,210	46,967
Boston C.	211	36,960	i 30,446	30,436	30,700	28,326	26,123	40,724	43,825	42,801	44,768	43,168	45,726	46,563
Texas Tech U., Health Sciences Center	212	51,282	58,774	61,219	61,309	36,932	39,261	38,717	38,657	36,784	42,959	43,102	40,567	44,961
Boise State U.	213	18,045	23,519	26,885	24,027	25,351	29,955	30,384	32,279	37,959	35,528	38,919	43,167	44,696
Air Force Institute of Technology	214	28,318	30,090	30,609	26,234	23,335	26,323	29,722	35,703	33,360	34,016	35,584	45,703	44,391
Loyola U., Chicago	215	42,120	40,994	44,785	50,150	48,996	47,000	41,152	38,070	37,049	37,210	38,210	42,342	44,182
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	43,445
Morehouse School of Medicine	217	30,669	i 33,946	37,586	36,638	i 41,858	33,367	38,774	35,454	33,215	31,289	29,813	32,637	42,489
U. South Alabama	218	30,012	36,975	34,194	34,737	33,994	38,245	42,466	40,629	40,519	51,968	50,571	46,500	41,920
Florida A&M U.	219	30,282	33,719	31,375	33,538	29,895	31,676	32,856	33,024	34,437	36,605	34,194	35,945	41,786
North Carolina A&T State U.	220	35,216	34,725	33,963	33,251	34,160	34,514	31,782	35,285	34,714	33,297	31,382	35,189	41,426
Brigham Young U., Provo	221	27,766	29,980	26,499	30,076	30,797	31,849	35,512	36,791	34,276	33,275	33,810	39,753	40,734
U. North Carolina, Charlotte	222	28,216	24,323	22,504	21,744	20,646	21,836	23,610	24,190	34,870	42,697	45,181	47,458	38,264
U. Massachusetts, Boston	223	39,387	31,864	28,869	29,875	30,021	30,305	35,220	37,929	33,865	38,998	36,827	37,121	37,753
Southern Methodist U.	224	16,121	22,008	20,917	17,972	24,443	20,538	22,729	21,128	21,505	27,503	26,882	25,998	37,318
Oakland U.	225	11,796	14,725	15,439	14,033	12,515	15,015	14,083	12,757	11,961	17,226	12,851	19,663	37,108
U.S. Air Force Academy	226	54,509	70,285	43,512	49,471	41,539	i 35,157	50,659	40,635	33,467	34,940	33,308	32,086	36,504
Kent State U.	227	24,616	24,388	23,353	19,962	21,785	25,917	21,951	27,413	26,703	32,867	33,929	36,040	36,440
San Francisco State U.	228	24,959	25,772	29,447	31,948	28,710	26,178	25,149	26,712	27,841	29,667	31,177	i 32,882	34,059

TABLE 79

## Higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2022 R&amp;D expenditures: FYs 2010–22

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022												
U. Texas Health Science Center, Tyler	229	ne	ne	ne	ne	ne	12,191	11,799	16,292	17,949	i	19,606	i	21,265	27,928	33,872										
Portland State U.	230	40,203	41,692	40,939	38,785	39,134	36,355	38,717	36,595	36,526		38,726		33,654	33,096	33,017										
SUNY, C. of Environmental Science and Forestry	231	26,916	25,007	i	23,117	i	21,225	i	19,013	i	22,036	24,221	27,755	26,559	28,979	29,000	28,145	32,606	i							
Texas A&M U.-Corpus Christi	232	15,034	15,146	13,626	15,161	19,058	22,985	21,911	25,644	28,077	29,296	28,246	27,070	31,991												
U. Massachusetts, Dartmouth	233	24,312	23,708	21,556	25,559	25,879	23,875	24,363	24,336	24,536	26,554	25,326	27,986	31,852												
American U.	234	16,809	18,212	18,404	23,794	38,038	25,350	28,170	26,551	31,906	39,531	37,505	29,508	31,685												
Teachers C., Columbia U.	235	15,149	17,459	19,829	18,538	19,457	22,359	22,868	23,189	23,261	24,234	22,170	24,303	30,921												
SUNY, Downstate Health Sciences U.	236	32,512	41,993	43,257	39,354	33,331	28,652	33,735	31,873	34,661	36,015	33,204	34,459	30,918												
Marquette U.	237	13,124	16,525	15,208	16,257	17,267	19,985	21,968	23,692	24,623	28,856	29,152	29,369	30,871												
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	30,035												
Rowan U.	239	2,610	3,185	3,657	2,729	8,118	7,921	10,113	12,710	15,818	21,980	25,269	26,086	29,723												
Illinois Institute of Technology	240	34,348	40,199	32,148	36,426	30,938	33,810	29,430	32,362	32,566	34,220	29,003	29,542	29,710												
Louisiana State U., Health Sciences Center, Shreveport	241	30,817	31,021	29,365	28,266	25,004	24,069	23,353	22,560	24,463	26,262	25,321	24,600	29,502												
California Polytechnic State U., San Luis Obispo	242	19,148	15,489	15,939	15,098	14,648	15,666	17,559	17,304	15,860	24,954	23,679	22,541	29,000												
Desert Research Institute	243	34,367	35,331	33,056	27,695	23,778	22,103	29,422	29,440	27,875	26,991	26,428	26,365	28,478												
Nova Southeastern U.	244	9,740	11,912	12,599	12,415	13,532	14,439	18,991	22,021	22,406	24,277	25,476	24,185	27,786												
CUNY, Hunter C.	245	35,751	35,645	36,085	36,741	35,702	33,483	33,508	26,496	29,752	32,773	33,951	30,854	27,656												
Embry-Riddle Aeronautical U.	246	12,189	10,705	14,225	11,575	14,741	11,528	16,409	13,133	16,601	12,307	17,436	19,054	27,382												
Wright State U.	247	48,396	47,795	45,901	49,760	54,456	53,881	55,241	59,263	67,615	63,779	48,974	25,852	27,217												
U. South Dakota	248	27,511	25,321	27,060	30,364	27,367	21,671	22,543	24,830	27,168	28,456	24,766	22,891	26,140												
Creighton U.	249	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	i	25,850	i
Morgan State U.	250	12,768	12,544	17,470	14,942	15,337	13,406	15,353	14,527	12,727	12,791	16,919	18,888	25,178												
U. Denver	251	12,348	13,018	11,575	12,716	11,216	10,614	16,858	18,327	21,618	21,642	22,612	21,373	24,694												

TABLE 79

## Higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2022 R&amp;D expenditures: FYs 2010–22

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
U. Nebraska, central administration	252	ne	ne	ne	ne	ne	ne	ne	ne	12,713	17,697	22,814	20,931	24,578
Georgia Southern U.	253	3,164	3,505	5,185	17,287	19,584	16,456	16,465	15,221	12,150	9,634	10,049	25,292	24,155
Central Michigan U.	254	3,229	5,865	8,190	9,996	11,506	9,725	10,304	11,521	13,406	15,607	16,050	20,390	24,004
Delaware State U.	255	14,723	17,993	15,416	17,260	17,654	15,964	20,384	19,136	18,916	22,512	19,627	19,194	23,434
Rutgers, State U. New Jersey, Newark	256	25,953	31,714	31,287	29,110	23,235	19,913	18,412	21,586	23,190	21,291	23,118	20,252	23,306
Marshall U.	257	24,398	26,268	18,998	19,607	20,154	19,835	18,777	16,423	18,043	17,823	19,020	21,555	22,982
U. Minnesota, Duluth	258	20,237	22,301	20,863	20,818	21,122	26,958	26,949	24,452	24,693	26,859	25,634	23,276	22,937
U. Nebraska, Omaha	259	6,783	7,903	7,536	7,966	7,640	6,688	9,093	10,637	10,987	11,775	12,878	17,554	22,893
Miami U.	260	14,561	14,795	21,151	17,875	16,035	14,904	14,111	15,482	17,120	19,280	21,808	23,045	22,655
East Tennessee State U.	261	9,185	9,496	10,657	8,506	6,954	6,173	7,680	9,146	13,694	13,903	13,618	17,396	22,453
Albany Medical C.	262	22,953	20,876	17,735	15,093	16,093	18,043	20,166	20,443	21,187	23,028	23,510	22,443	22,297
U. North Carolina, Greensboro	263	12,818	16,230	12,590	12,629	15,735	16,673	16,129	14,416	14,374	16,500	15,364	18,992	22,203
Eastern Virginia Medical School	264	44,420	36,569	37,745	44,183	43,917	42,296	32,550	28,671	30,010	27,064	20,870	19,415	22,165
U. Puerto Rico, Rio Piedras	265	27,780	30,139	31,877	26,755	26,656	26,544	22,610	17,600	13,889	18,019	17,888	19,797	22,159
Tuskegee U.	266	14,258	14,321	13,188	17,094	24,066	20,704	16,508	16,508	13,402	20,562	20,973	21,355	21,897
Texas A&M U.-Kingsville	267	14,213	14,572	14,824	15,308	18,371	18,170	18,849	19,360	18,443	19,537	20,568	21,280	21,858
Chapman U.	268	2,135	2,098	2,396	2,734	3,189	3,074	5,023	8,568	9,895	12,498	13,951	16,594	21,500
Louisiana Tech U.	269	20,752	21,641	20,265	18,983	17,088	17,744	16,639	17,079	18,089	19,760	20,371	20,780	21,384
CUNY, Queens C.	270	16,233	22,831	22,067	18,601	22,053	18,332	18,538	15,522	15,969	17,643	15,606	14,946	21,027
Western Michigan U. and Homer Stryker M.D. School of Medicine	271	14,432	15,875	13,546	12,821	13,500	13,375	11,974	17,687	15,913	15,160	15,350	17,672	20,850
Montclair State U.	272	1,368	3,373	4,470	4,005	3,342	3,433	4,250	4,006	4,965	7,960	10,604	11,470	20,806
Northern Illinois U.	273	23,353	17,672	18,147	18,866	15,165	13,660	16,515	12,565	18,965	18,337	16,675	19,357	20,720
U.S. Military Academy	274	19,763	12,314	11,702	11,612	13,247	13,135	12,281	7,247	6,313	6,432	11,872	19,040	20,439
California State U., Sacramento	275	11,673	13,822	12,056	12,444	11,783	16,585	17,705	17,647	18,017	20,279	21,425	20,072	20,388
U. of the Virgin Islands	276	31,272	21,373	24,543	18,374	14,732	19,456	21,215	12,031	11,853	11,668	13,622	15,231	20,259

TABLE 79

## Higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2022 R&amp;D expenditures: FYs 2010–22

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
South Dakota School of Mines and Technology	277	28,572	32,010	18,991	12,156	10,472	14,970	15,396	15,541	15,092	12,973	14,490	15,746	20,061
U. Guam	278	5,555	5,477	5,975	5,873	6,790	5,919	7,351	8,803	11,053	12,001	12,674	17,212	19,708
U. Alaska, Anchorage	279	11,328	12,380	13,004	13,022	15,112	15,396	18,382	18,646	19,254	20,655	22,123	20,590	19,625
U. Akron	280	47,558	52,881	59,765	62,331	64,270	54,089	57,351	39,566	31,789	29,090	22,595	16,747	19,449
Clarkson U.	281	18,289	17,772	14,787	12,009	13,642	13,194	12,799	14,180	15,780	16,211	14,095	15,512	19,365
Villanova U.	282	9,191	9,281	7,831	6,931	11,645	12,208	12,934	15,189	16,376	18,225	20,414	19,197	18,882
Southern Illinois U., Edwardsville	283	30,958	33,318	25,608	24,594	17,215	18,248	17,243	15,559	16,914	15,513	14,260	13,603	18,193
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	17,960
Tennessee State U.	285	11,253	11,961	14,108	15,149	19,437	19,208	18,324	16,247	16,355	14,376	25,478	21,796	17,825
California State U., Northridge	286	16,747	9,795	15,619	9,466	12,628	12,053	12,471	15,336	17,036	18,758	19,405	15,220	17,724
U. North Carolina, Wilmington	287	20,618	19,961	17,015	15,490	12,212	13,166	13,597	14,000	15,058	16,039	15,005	15,051	17,634
Prairie View A&M U.	288	12,557	15,226	14,523	13,174	12,248	12,932	12,511	13,455	14,766	15,538	16,103	14,867	17,361
Florida Institute of Technology	289	11,427	9,749	9,187	9,195	10,564	11,201	15,196	18,040	16,343	16,847	17,276	22,238	16,928
Tarleton State U.	290	9,931	9,720	8,646	7,854	9,961	8,956	8,880	10,250	11,960	11,566	12,253	14,688	16,794
Alcorn State U.	291	10,280	11,397	11,515	11,315	10,060	9,396	8,204	16,129	13,834	14,435	13,710	14,188	16,725
CUNY, Advanced Science Research Center	292	na	na	na	na	na	569	ne	3,293	5,462	8,300	11,226	15,400	16,499
New York Medical C.	293	28,400	27,316	23,277	20,243	17,908	17,653	17,311	15,637	8,141	19,398	20,137	18,872	16,461
U. Tulsa	294	22,690	18,703	19,895	21,186	26,460	24,135	21,347	20,567	19,797	18,180	18,487	16,426	16,456
CUNY, Graduate School of Public Health and Health Policy	295	na	na	na	na	na	na	na	na	8,636	9,521	12,177	15,035	16,423
Idaho State U.	296	19,234	21,047	20,764	21,476	19,962	17,540	20,305	18,398	17,659	14,560	14,232	13,746	16,361
Kennesaw State U.	297	1,401	1,374	1,738	2,100	1,881	1,316	6,279	7,728	8,006	10,320	14,555	14,161	16,128
Jackson State U.	298	38,114	39,867	38,027	32,119	24,132	22,163	22,408	21,272	18,972	18,057	14,979	14,822	16,118
U. Puerto Rico, Mayaguez	299	25,536	33,509	31,143	28,041	25,920	26,986	24,908	25,328	23,764	26,092	25,896	16,322	15,914
California State U., Long Beach	300	14,762	14,006	13,250	12,494	9,746	8,108	14,175	16,993	18,408	17,459	15,900	14,210	15,781
Loma Linda U.	301	32,915	37,169	29,762	29,799	23,120	25,417	22,956	21,846	19,537	17,621	15,705	13,788	15,498
Texas Christian U.	302	3,815	3,841	5,105	5,342	5,132	5,095	4,053	4,330	3,279	4,291	13,590	13,075	15,427

TABLE 79

## Higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2022 R&amp;D expenditures: FYs 2010–22

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Tennessee Technological U.	303	16,152	11,809	9,138	8,705	9,410	9,804	9,776	11,467	12,227	13,107	13,613	14,616	15,248
California State Polytechnic U., Humboldt	304	7,505	9,520	9,464	7,999	8,242	11,173	16,084	15,914	14,983	14,891	13,899	13,649	14,985
Middle Tennessee State U.	305	3,370	2,825	5,491	3,384	1,522	1,965	3,971	4,092	3,735	4,474	4,780	14,240	14,731
U. New Orleans	306	25,932	23,290	22,275	19,790	17,182	16,980	14,551	13,436	12,148	12,713	13,686	13,398	14,689
Charles R. Drew U. of Medicine and Science	307	22,152	22,150	20,580	18,250	20,686	14,128	13,360	15,652	11,490	13,739	13,682	13,228	14,581
U. West Florida	308	4,079	3,551	2,559	4,004	5,080	5,180	12,310	12,461	15,710	12,173	11,122	11,069	14,445
North Carolina Central U.	309	6,870	9,043	10,573	8,190	10,158	10,971	10,539	11,689	11,299	13,352	13,699	11,840	14,414
Montana Technological U.	310	7,424	6,705	11,765	11,059	11,348	11,595	11,851	13,059	12,666	12,731	12,987	14,933	14,188
Xavier U. Louisiana	311	8,022	9,836	10,606	8,789	9,335	9,588	12,060	12,372	11,586	9,999	11,335	12,660	14,141
Long Island U.	312	630	672	671	676	ne	ne	611	1,602	1,731	4,858	10,148	10,652	13,678
Northeast Ohio Medical U.	313	10,819	13,581	13,358	12,722	15,916	17,103	18,823	19,216	18,218	18,007	15,756	13,853	13,465
Bowling Green State U.	314	8,030	8,834	8,426	12,808	8,630	6,263	10,999	9,374	9,570	10,112	11,699	12,417	13,363
U. Colorado Denver <sup>c</sup>	315	na	na	na	na	na	na	na	na	na	na	na	13,067	13,123
Texas Tech U., Health Sciences Center, El Paso	316	ne	ne	ne	ne	22,634	18,186	16,674	15,526	12,145	11,649	10,294	10,555	13,073
Rosalind Franklin U. of Medicine and Science	317	12,426	14,261	15,587	17,401	17,794	16,604	16,760	17,006	16,765	16,126	14,601	13,805	12,988
U. Hawaii, system office	318	ne	ne	ne	ne	ne	ne	ne	ne	12,340	12,159	13,568	12,918	12,645
New School	319	3,167	3,277	3,695	5,919	3,843	5,254	15,747	11,123	8,112	9,179	9,255	10,162	12,593
California State U., Fullerton	320	11,147	14,330	11,094	10,230	7,104	5,318	5,029	4,890	5,724	6,017	5,457	6,363	12,400
California State U., Fresno	321	8,117	8,296	8,283	7,117	7,303	7,248	7,431	7,228	8,414	8,241	8,347	8,284	12,062
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	11,769
Lincoln U., Jefferson City	323	8,475	8,518	7,899	6,585	6,742	6,296	5,826	5,164	4,215	4,581	5,777	7,621	11,500
Missouri State U.	324	7,737	5,576	4,340	3,879	3,677	3,516	3,027	3,104	4,391	5,669	13,020	9,994	11,156

TABLE 79

## Higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2022 R&amp;D expenditures: FYs 2010–22

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Midwestern U.	325	3,596	4,022	5,200	6,292	7,310	8,560	7,732	9,207	10,173	10,343	10,479	10,961	11,069
Hampton U.	326	14,455	12,292	15,290	12,620	11,153	14,767	13,572	15,908	13,669	12,943	10,842	11,181	11,049
James Madison U.	327	6,858	7,075	8,428	5,539	4,516	3,700	3,283	3,108	3,859	4,968	6,169	8,687	11,045
U.S. Naval Academy	328	11,093	10,543	9,156	10,476	10,661	9,609	11,364	13,524	14,057	13,481	12,827	10,747	10,664
Texas Southern U.	329	4,744	4,255	4,424	5,518	2,855	3,089	3,764	4,702	2,637	4,893	8,600	7,880	10,576
U. Tennessee, Chattanooga	330	8,786	7,308	8,865	5,928	4,627	5,318	3,962	4,814	5,834	7,337	9,060	9,380	10,514
U. North Texas, Health Science Center	331	38,862	45,943	46,865	44,904	47,002	46,335	50,567	48,476	49,503	50,124	42,766	50,698	10,439
Duquesne U.	332	12,078	13,603	12,858	12,385	13,019	13,767	14,211	14,396	14,121	13,176	13,851	7,589	10,379
Central State U.	333	3,060	3,694	3,490	2,769	2,025	1,508	1,643	2,008	3,615	3,766	6,107	8,751	10,274
U. Missouri, Saint Louis	334	10,050	12,344	12,840	13,156	14,632	9,991	10,876	10,411	10,708	12,865	12,676	11,484	10,179
Virginia State U.	335	6,907	8,094	10,060	9,213	8,175	7,657	7,948	8,053	8,674	9,223	7,826	8,784	10,152
Fort Valley State U.	336	4,586	3,850	3,665	3,688	4,547	4,320	5,138	5,374	3,916	4,562	4,921	4,842	9,969
U. of the District of Columbia	337	5,012	3,700	4,011	3,073	2,361	2,043	3,469	3,733	2,960	4,043	3,942	7,054	9,475
California State U., Los Angeles	338	7,178	8,682	6,876	7,192	4,881	4,461	4,860	8,031	9,487	12,083	10,188	8,892	9,320
Kentucky State U.	339	4,887	4,559	6,843	5,580	5,694	6,017	7,060	8,151	9,125	8,432	7,963	8,756	9,280
U. Maryland, Eastern Shore	340	8,692	8,664	7,265	8,786	8,982	9,631	8,175	7,403	4,941	7,128	8,092	8,636	9,274
Alabama A&M U.	341	30,297	28,813	28,573	28,335	28,095	27,855	23,784	19,887	15,989	12,089	8,237	8,725	9,225
U. North Florida	342	6,316	8,773	6,620	4,126	2,657	3,160	4,366	5,059	5,666	5,439	5,490	5,358	9,051
California State U., Monterey Bay	343	5,305	6,959	6,567	6,129	4,780	5,459	5,679	5,384	5,702	6,192	5,763	6,844	8,914
Clark Atlanta U.	344	8,515	8,205	10,405	9,156	9,172	9,929	8,482	7,948	7,810	8,508	8,259	8,712	8,779
West Texas A&M U.	345	5,741	4,307	4,346	4,122	3,663	3,924	3,776	4,690	4,441	5,021	5,488	9,014	8,744
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	8,570
California State U., San Marcos	347	5,049	5,044	5,040	5,034	4,470	4,637	5,212	4,962	7,185	9,446	11,918	9,220	8,384
Oklahoma State U., Center for Health Sciences	348	4,398	2,815	2,122	2,137	1,805	1,625	1,924	2,374	2,497	5,339	8,342	7,752	8,307
Arkansas State U., Jonesboro	349	11,043	13,339	14,064	10,320	7,956	8,391	8,158	7,936	8,238	8,906	8,637	8,379	8,141
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	7,955
California State U., San Bernardino	351	2,630	7,266	7,472	10,872	12,572	14,342	9,725	10,319	11,535	12,419	7,415	7,999	7,847

TABLE 79

## Higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2022 R&amp;D expenditures: FYs 2010–22

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Illinois State U.	352	5,622	5,492	4,852	5,155	5,212	5,042	5,586	4,658	5,157	6,584	7,128	7,664	7,811
Sam Houston State U.	353	6,045	2,637	3,643	3,225	3,235	2,804	3,170	3,408	5,622	6,180	5,758	6,422	7,790
U. Michigan, Dearborn	354	6,377	7,025	5,720	6,419	7,744	7,179	7,050	7,664	7,411	8,092	8,141	7,174	7,766
Fordham U.	355	5,212	4,494	5,624	6,704	7,086	6,352	9,477	8,429	7,336	6,623	5,472	5,479	7,554
U. Arkansas, Pine Bluff	356	8,343	9,415	9,073	8,909	8,198	8,425	8,873	8,136	8,314	9,005	8,527	8,713	7,506
California State U., East Bay	357	1,312	1,644	1,039	934	ne	ne	837	ne	ne	ne	5,515	6,104	7,450
Ball State U.	358	4,780	9,159	4,701	3,616	4,364	4,810	5,689	5,215	6,412	7,025	6,771	6,262	7,404
Saint Joseph's U.	359	1,957	1,840	1,704	937	569	650	911	1,316	1,255	1,688	1,748	1,398	7,309
Wesleyan U.	360	7,599	9,356	8,162	7,280	6,017	6,330	6,760	7,589	8,529	7,714	5,971	5,596	7,234
Edward Via C. of Osteopathic Medicine	361	ne	2,453	2,576	4,992	2,633	2,237	5,692	8,119	7,601	7,225	7,475	6,629	7,121
Western Kentucky U.	362	9,527	8,003	10,259	8,744	7,398	6,936	7,480	9,062	8,003	7,872	7,022	6,092	7,103
Southern U. and A&M C., Agricultural Research and Extension Center	363	ne	6,143	8,122	5,530	5,606	4,761	4,704	5,000	i	5,296	5,448	4,475	6,164
Western U. of Health Sciences	364	1,283	900	2,773	2,218	2,384	2,219	3,717	5,740	4,063	3,936	4,866	5,598	7,043
California State Polytechnic U., Pomona	365	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
U. Colorado Colorado Springs	366	8,805	6,935	3,996	3,688	4,312	5,962	5,679	5,611	4,730	3,440	4,385	4,495	6,780
U. Arkansas, Little Rock	367	9,754	11,320	10,245	11,994	7,055	6,276	6,971	6,050	7,079	9,134	8,883	6,896	6,734
West Virginia State U.	368	3,770	4,176	5,087	4,467	6,689	7,364	5,224	6,305	6,535	5,763	5,775	6,438	6,703
Philadelphia C. of Osteopathic Medicine	369	1,278	2,401	1,898	2,614	2,209	2,561	2,458	2,969	3,059	3,162	3,360	6,186	6,667
U. New England	370	3,560	4,016	5,217	6,637	7,456	7,360	7,289	7,817	6,668	7,346	6,881	6,229	6,641
Amherst C.	371	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
Appalachian State U.	372	2,550	3,498	4,196	2,877	3,977	3,507	2,868	4,318	3,387	3,060	4,141	3,650	6,301
Roseman U. of Health Sciences	373	ne	840	ne	ne	3,021	3,287	3,433	4,167	3,973	4,176	i	4,380	5,893
Langston U.	374	4,492	5,206	5,326	4,932	8,512	8,126	10,941	10,592	i	10,459	i	10,326	13,954
Towson U.	375	3,002	3,570	2,529	2,795	2,265	2,200	1,945	2,593	3,033	3,245	3,259	3,290	6,225
Yeshiva U.	376	314,240	281,334	289,027	271,166	306,826	306,174	46,130	3,258	3,302	2,420	2,763	4,083	6,188
Grand Valley State U.	377	4,968	6,296	i	7,624	i	8,954	7,934	7,213	6,595	6,268	6,729	6,204	6,354

TABLE 79

## Higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2022 R&amp;D expenditures: FYs 2010–22

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
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	6,129
Gallaudet U.	379	4,975	4,404	4,305	4,468	3,457	3,543	4,014	7,060	7,046	3,255	2,904	6,116	6,087
Abilene Christian U.	380	625	486	ne	ne	ne	ne	ne	ne	ne	ne	ne	4,412	6,073
Loyola Marymount U.	381	1,364	3,938	2,369	2,285	3,610	3,286	4,168	4,075	4,120	4,322	4,489	5,436	6,028
Florida Gulf Coast U.	382	3,841	3,611	3,190	2,943	2,150	1,967	2,112	1,888	1,742	1,470	3,454	5,057	6,017
Pennsylvania State U., Behrend	383	2,500	2,724	3,169	3,041	4,156	3,614	5,104	3,598	2,617	3,268	1,713	5,102	5,905
U. Central Oklahoma	384	1,786	1,537	998	1,058	1,207	1,619	1,214	1,054	1,228	1,429	1,422	1,489	5,712
Winston-Salem State U.	385	ne	743	1,280	436	ne	ne	1,069	1,175	1,289	1,468	4,378	6,890	5,678
Claremont McKenna C.	386	4,788	4,425	5,365	5,414	5,463	ne	6,054	5,818	5,299	5,923	5,403	4,204	5,545
Bryn Mawr C.	387	4,482	4,807	6,247	5,429	5,329	6,369	6,136	6,270	5,708	4,971	5,508	4,803	5,539
Hope C.	388	3,552	3,605	3,320	3,367	2,719	2,932	2,811	3,213	3,011	2,694	3,157	4,429	5,496
U.S. Army War C.	388	ne	ne	ne	ne	ne	ne	ne	ne	ne	2,146	ne	4,662	5,496
New York Institute of Technology	390	1,785	1,934	2,056	3,214	4,916	3,507	3,846	3,094	3,663	5,705	3,473	4,389	5,477
CUNY, Brooklyn C.	391	6,266	8,706	8,485	7,631	8,232	8,553	9,205	6,748	6,054	6,299	6,518	5,768	5,432
U. Southern Maine	392	3,125	7,236	13,682	11,527	6,723	5,095	3,465	6,550	6,696	6,058	5,180	5,341	5,298
C. Charleston	393	11,422	6,446	7,217	8,078	7,121	7,327	6,955	6,740	5,450	5,206	4,142	5,109	5,229
Rutgers, State U. New Jersey, Camden	394	2,573	2,792	2,278	4,923	4,691	4,440	4,192	2,912	2,050	1,889	3,351	3,883	5,192
U. San Diego	395	2,567	2,340	2,485	2,552	2,873	2,332	2,566	3,543	3,491	3,742	3,900	3,774	5,114
U. Detroit Mercy	396	1,084	1,127	933	ne	1,305	1,872	3,649	2,737	4,577	5,170	4,756	4,422	5,092
Oregon Institute of Technology	397	ne	258	ne	ne	ne	788	4,027	3,537	3,145	3,357	2,968	4,314	5,086
Des Moines U.	398	855	924	ne	ne	929	ne	1,206	1,355	1,351	1,643	4,395	4,911	5,080
Morehouse C.	399	7,704	8,280	8,856	9,169	6,973	5,836	4,199	3,663	4,365	4,427	4,686	4,102	5,056
U. Central del Caribe	400	7,122	7,515	7,313	7,095	7,181	6,964	7,090	5,634	4,111	3,953	3,931	3,831	5,053
Smith C.	401	4,215	4,156	3,777	3,688	4,047	5,006	4,124	5,211	5,360	5,330	4,047	3,633	5,036
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	402	ne	2,342	2,562	2,979	3,356	3,089	3,177	3,285	3,502	3,769	3,737	3,776	4,954
U. Washington, Tacoma	403	106	142	261	23	1	1,812	1,784	971	2,105	3,052	3,179	3,862	4,922



TABLE 79

## Higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2022 R&amp;D expenditures: FYs 2010–22

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
CUNY, John Jay C. of Criminal Justice	404	4,354	4,125	5,001	3,799	3,726	3,515	3,252	3,738	5,893	2,986	4,557	1,908	4,881
Bucknell U.	405	5,169	4,618	3,623	3,867	4,143	3,790	4,005	4,321	4,639	4,061	4,645	4,136	4,874
Pacific U.	406	1,567	927	481	2,387	1,094	978	1,509	5,299	4,156	6,607	4,540	3,767	4,714
Barnard C.	407	3,240	3,916	3,611	2,893	2,403	2,562	3,103	3,108	2,938	3,539	3,449	4,124	4,693
Dakota State U.	408	ne	1,015	5,709	1,574	1,446	1,152	2,026	2,276	3,610	3,706	4,412	3,255	4,684
Texas Woman's U.	409	2,155	2,576	3,196	2,067	1,970	1,812	2,635	3,130	3,265	2,996	3,238	3,850	4,658
MGH Institute of Health Professions	410	ne	587	ne	ne	ne	3,931	2,228	1,839	2,957	3,494	3,014	2,500	4,628
Purdue U., Northwest	411	na	na	na	na	na	na	na	4,920	4,695	3,111	4,415	4,260	4,619
U. Wisconsin-Superior	412	5,890	6,187	6,041	ne	3,022	ne	ne	ne	3,060	2,250	2,295	2,598	4,601
Reed C.	413	1,904	1,839	1,837	2,395	3,091	3,050	3,213	1,415	2,607	3,240	3,662	3,682	4,525
Wellesley C.	414	5,271	4,130	5,253	6,156	6,537	5,653	6,896	5,489	4,896	5,076	4,957	4,701	4,514
Eastern Michigan U.	415	5,388	5,044	5,428	2,655	1,244	1,509	2,642	3,467	3,637	4,706	6,584	4,842	4,509
SUNY, C. of Optometry	416	3,529	3,738	3,466	3,637	3,481	3,906	4,169	3,304	3,120	2,968	3,477	3,460	4,497
Toyota Technological Institute, Chicago	417	ne	746	ne	ne	ne	2,543	2,710	2,880	3,251	3,681	5,887	4,967	4,470
U. New Haven	418	ne	595	456	728	511	518	2,535	985	5,577	5,045	3,736	4,015	4,401
Salisbury U.	419	844	880	2,689	2,587	3,677	4,180	4,523	3,679	4,867	4,870	4,432	4,956	4,352
U. of Health Sciences and Pharmacy in St. Louis	420	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	4,835	5,313	4,280
Williams C.	421	4,691	4,165	4,080	3,127	3,213	4,461	4,506	4,393	4,372	3,735	3,549	3,560	4,249
Lamar U.	422	5,316	4,685	3,570	2,564	2,439	2,218	1,824	3,359	3,316	3,196	2,339	3,154	4,222
Western Illinois U.	423	1,210	1,524	4,514	1,983	1,349	778	ne	1,904	2,414	2,307	2,297	3,394	4,166
Kean U.	424	ne	550	1,191	473	ne	1,064	400	ne	ne	ne	1,076	393	4,158
Youngstown State U.	425	4,518	4,625	3,533	3,713	3,410	3,331	2,333	4,416	4,435	4,368	3,996	2,290	4,074
Indiana U. Pennsylvania	426	767	967	958	337	414	ne	628	1,798	2,474	3,637	3,668	3,249	4,070
Occidental C.	427	2,154	1,803	1,592	1,634	2,177	1,426	1,907	1,764	1,432	2,458	2,657	3,523	4,068
Haverford C.	428	3,603	2,765	2,588	2,370	2,546	2,266	1,750	1,945	2,630	3,324	4,473	3,424	3,961
Hofstra U.	429	1,151	1,095	1,546	955	1,354	2,039	1,916	1,455	1,347	1,253	977	3,107	3,958
U. Oklahoma, Tulsa	430	ne	ne	ne	ne	ne	2,554	3,107	2,667	3,868	4,003	4,591	3,432	3,939
William Paterson U.	430	574	753	ne	ne	ne	ne	803	1,592	3,691	4,424	4,972	4,000	3,939
CUNY, Lehman C.	432	2,932	3,168	2,982	2,242	2,543	2,613	3,847	4,114	4,657	2,594	3,429	2,968	3,937
Fisk U.	433	7,686	4,631	4,058	5,429	7,366	7,247	7,681	4,333	2,781	4,606	3,904	4,143	3,877
Northern Kentucky U.	434	2,188	2,214	1,970	1,641	1,867	1,715	1,650	1,517	1,429	2,025	2,411	3,266	3,777

TABLE 79

## Higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2022 R&amp;D expenditures: FYs 2010–22

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
U. North Carolina, Asheville	435	2,322	2,603	2,575	2,189	1,597	2,046	2,794	2,418	2,641	2,226	2,932	3,149	3,732
U. Wisconsin-Stevens Point	436	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	3,729
Chicago State U.	437	1,598	2,014	565	ne	ne	ne	910	ne	1,154	894	ne	ne	3,701
Southern U. and A&M C., Baton Rouge	438	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	3,673
Carleton C.	439	2,916	3,081	3,529	4,768	4,426	2,718	1,451	1,794	1,918	3,946	2,758	2,984	3,671
Texas A&M U.-Commerce	440	2,147	1,316	1,550	1,758	1,606	1,972	1,409	2,250	2,558	2,428	2,544	2,031	3,574
California State U., Chico	441	2,710	2,288	2,430	2,833	2,284	1,676	2,152	1,474	2,298	2,562	3,671	3,634	3,571
Santa Clara U.	442	3,812	2,327	3,082	2,201	2,772	1,654	2,038	2,026	2,182	2,220	2,569	2,790	3,566
Milwaukee School of Engineering	443	3,944	4,347	4,599	4,351	4,410	4,524	3,930	3,374	3,232	4,026	3,190	3,193	3,545
South Carolina State U.	444	7,166	8,157 i	9,149	6,674 i	7,838 i	9,002 i	12,077 i	13,254	14,021 i	3,010	3,123 i	3,236 i	3,513 i
Citadel Military C. South Carolina	445	ne	305	ne	ne	ne	ne	ne	ne	ne	ne	693	1,497	3,506
Alfred U.	446	4,181	5,946	5,377	6,014	4,156	5,064	3,735	3,197	3,628	5,153	2,780	2,660	3,477
Sonoma State U.	447	858	787	ne	1,938	1,714	1,146	572	ne	ne	ne	1,459	2,878	3,456
U. Northern Iowa	448	2,077	3,451	3,302	3,395	3,510	3,281	3,559	3,248	2,946	3,601	2,870	3,180	3,443
National Defense U.	449	ne	ne	ne	4,906	6,712	4,832	5,720	5,723	2,219	2,155	2,583	2,586	3,420
Colgate U.	450	2,559	2,109	3,004	2,340	2,226	2,244	2,631	2,728	3,142	3,128	2,163	2,807	3,391
U. North Carolina, general administration	451	ne	ne	ne	ne	ne	4,197	4,137	3,721	4,779	4,154	3,932	3,805	3,385
U. Washington, Bothell	452	471	497	553	13	742	2,168	744	1,114	1,361	2,356	1,260	2,246	3,366
Murray State U.	453	3,384	3,713	3,341	2,179	2,053	2,341	2,092	2,438	2,860	3,676	2,993	3,757	3,345
Southern Connecticut State U.	454	0	899 i	1,034 i	632 i	2,472 i	2,058 i	1,406	1,481	1,684	2,756	3,526	2,867	3,303
C. New Jersey	455	809	420	ne	ne	ne	ne	ne	1,023	867	ne	1,389	1,828	3,301
Harvey Mudd C.	456	3,214	3,830	3,507	3,531	3,088	3,204	4,302	3,706	3,717	3,292	2,850	2,328	3,295
California State U., Channel Islands	457	ne	363	ne	1,101	3,324	1,640	1,282	1,002	1,170	1,517	1,399	2,262	3,292
St. John's U., New York	458	1,509	1,697	1,971	2,376	2,392	2,225	1,832	2,200	2,635	2,309	2,930	2,696	3,245
Norfolk State U.	459	5,944	6,930	8,336	6,179	6,780	5,122	7,196	7,237	6,877	7,935	7,121	4,308	3,234

TABLE 79

## Higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2022 R&amp;D expenditures: FYs 2010–22

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
CUNY, C. Staten Island	460	3,137	2,162	3,151	2,477	i 2,089	1,907	2,780	2,988	3,644	i 3,517	3,534	2,726	3,198
U. Nebraska, Kearney	461	1,441	2,137	948	1,234	1,275	1,216	1,588	3,011	2,091	2,636	2,524	2,867	3,196
West Chester U. Pennsylvania	462	4,634	i 7,785	1,914	969	1,294	2,294	3,138	3,302	3,247	3,787	2,862	2,377	3,186
Alabama State U.	463	13,340	12,340	13,607	1,927	2,236	2,303	2,372	2,253	2,434	2,577	2,582	2,631	3,146
Central Washington U.	464	5,132	2,854	2,752	2,087	1,998	2,182	2,751	3,755	3,050	3,205	2,620	2,400	3,134
Bowie State U.	465	ne	1,910	1,739	1,422	1,761	1,497	1,507	987	1,100	876	1,368	980	3,112
U. Louisiana, Monroe	466	2,869	2,801	2,439	2,753	2,267	1,640	2,430	2,297	2,123	2,359	2,349	2,135	3,087
Hobart and William Smith Colleges	467	1,320	1,355	1,120	2,042	1,100	654	ne	923	ne	1,846	2,007	1,886	3,084
Trinity U.	468	1,387	1,355	1,611	2,815	2,499	2,225	2,096	2,712	2,637	3,185	2,834	2,598	3,076
U. Texas, Tyler	469	2,566	2,394	3,705	2,343	2,573	2,349	1,120	1,710	1,589	2,029	1,882	2,114	2,985
Coastal Carolina U.	470	2,383	2,035	2,232	2,411	2,079	1,750	1,585	1,875	1,629	2,042	1,903	2,062	2,955
California State U., Dominguez Hills	471	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	2,931
U. Baltimore	472	3,606	4,452	3,894	3,865	3,951	4,091	5,188	4,972	3,794	3,474	3,456	2,915	2,885
Pittsburg State U.	473	1,759	1,687	1,479	1,536	2,458	2,205	2,162	2,255	2,253	2,513	2,173	2,730	2,884
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	2,883
Morehead State U.	475	1,882	2,000	2,064	2,376	1,433	1,420	2,089	2,564	2,223	1,624	1,862	1,735	2,880
CUNY, system office	476	ne	ne	819	435	652	828	820	444	2,940	1,713	1,470	1,664	2,860
Grinnell C.	477	1,797	1,072	2,001	2,603	2,336	2,091	2,055	3,174	3,798	3,655	2,921	2,129	2,841
Franklin and Marshall C.	478	3,444	3,140	2,543	2,855	2,123	3,045	2,447	2,876	2,911	3,092	1,919	2,199	2,829
Claremont Graduate U.	479	5,068	1,100	6,200	7,030	5,907	i 5,252	i 4,598	i 3,944	i 3,290	i 2,634	4,365	3,281	2,820
U. Wisconsin-La Crosse	480	3,852	3,366	i 2,879	2,815	3,121	2,948	2,795	2,840	3,178	2,355	2,570	2,847	2,778
Texas A&M International U.	481	1,596	1,336	1,225	1,349	1,450	925	1,617	2,974	3,729	4,034	1,713	2,336	2,701
California State U., Bakersfield	482	2,083	3,130	1,115	2,380	2,254	2,857	2,725	3,751	4,633	6,612	5,902	4,608	2,696
Pepperdine U.	483	239	1,134	i 1,455	i 1,107	i 1,298	1,725	1,820	897	691	1,025	1,153	1,564	2,693
Biola U.	484	ne	ne	ne	ne	ne	ne	1,959	i 2,024	i 2,124	i 2,262	i 2,323	i 2,433	i 2,641
U. Central Arkansas	485	1,700	1,457	1,563	1,444	2,201	2,037	2,132	2,167	2,253	2,150	2,107	1,939	2,627
Furman U.	486	2,202	2,023	1,889	1,994	1,513	1,748	1,864	2,029	2,015	1,628	2,079	1,776	2,617
Davidson C.	487	1,432	1,808	1,291	2,213	1,629	2,305	1,463	1,583	1,338	1,549	1,842	2,279	2,588

TABLE 79

## Higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2022 R&amp;D expenditures: FYs 2010–22

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
U. Wisconsin-Green Bay	488	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 i	2,516 i
Hawaii Pacific U.	489	ne	592	1,016	983	1,524	1,221	2,351	2,155	2,094	1,960	1,796	1,817	2,474
Middlebury C.	490	2,284	2,358	3,015	2,083	1,371	1,574	1,822	2,043	1,822	1,657	1,720	2,927	2,467
Eastern Washington U.	491	3,171	3,780	2,538	2,027	1,820	2,973	3,276	1,964	2,506	1,971	2,221	1,918	2,430
Spelman C.	492	2,740	1,833	1,874	1,366	1,185	1,035	1,291	1,227	1,673	2,004	2,136	1,886	2,409
Stephen F. Austin State U.	493	7,536	4,664	3,370	2,877	3,207	3,920	2,968	2,801	2,599	3,241	2,456	2,520	2,407
U. Northern Colorado	494	2,029	1,801	2,012	2,174	3,252	2,670	2,866	3,220	3,722	3,157	2,362	2,309	2,402
Austin Peay State U.	495	ne	1,603	1,358	1,413	868	863	556	955	1,191	1,169	1,974	2,083	2,391
Franklin W. Olin C. of Engineering	496	ne	1,012	1,777	1,157	1,561	2,136	1,762	1,301	876	534	491	936	2,380
Bates C.	497	1,545	1,814	2,031	2,444	1,531	2,725	1,730	1,750	1,508	2,074	2,237	2,577	2,377
Christopher Newport U.	497	1,096	1,669	1,327	1,173	1,469	1,002	1,036	1,137	1,437	1,961	2,244	2,373	2,377
U. Texas of the Permian Basin	499	1,274	1,024	969	716	1,216	1,132	1,080	597	300	ne	939	2,268	2,374
U. Richmond	500	3,243	3,051	3,302	2,602	2,921	2,484	2,559	2,532	2,301	2,311	2,073	2,117	2,347
Pomona C.	501	2,377	3,115	2,694	3,364	3,412	3,234	3,447	2,787	2,425	2,239	2,582	1,878	2,327
Saginaw Valley State U.	502	585	925	748	576	ne	838	804	978	1,584	2,750	2,301	2,386 i	2,316 i
Bowdoin C.	503	2,532	2,633	4,277	4,025	2,950	2,873	3,079	2,200	2,506	2,677	2,554	2,112	2,290
Touro U., California	503	999	1,196	1,993	1,772	3,067	3,106	3,466	3,122	3,233	3,543	3,539	3,475	2,290
Western Carolina U.	505	2,353	1,419	1,768	1,011	1,048	1,145	1,305	1,431	1,430	2,518	2,352	2,441	2,278
Albany C. of Pharmacy and Health Sciences	506	3,074	3,496	2,639	2,637	3,200	2,520	1,789	2,561	2,730	3,381	3,765	3,687	2,276
Troy U.	507	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,589	1,394	2,271
CUNY, Baruch C.	508	1,860	1,342	2,143	967	900	1,379	2,315	1,843	1,736	1,987	2,243	2,297	2,222
Vassar C.	509	1,236	1,552	993	1,136	999	2,118 i	1,417	1,579	4,185 i	1,009	1,553	1,498	2,214
Fort Lewis C.	510	360	606	ne	ne	ne	ne	ne	ne	ne	1,460	1,370	1,906	2,192
Minnesota State U., Mankato	511	3,344	1,990	1,614	1,945	1,798	1,632	3,605	1,849	2,293	2,665	2,339	2,034	2,166
Framingham State U.	512	ne	ne	ne	ne	ne	ne	ne	1,875	131	ne	2,317	2,401 i	2,154 i
Pace U.	512	2,413	2,709	3,306	2,914	3,570	3,436	2,946	2,847	2,148	2,384	3,077	2,346	2,154
SUNY, Buffalo State	514	1,889	2,532	2,970	2,099	1,971	2,355	2,195	1,868	1,905	2,009	2,208	1,935	2,120
Tougaloo C.	515	2,978	2,542	1,865	1,857	1,894	1,868	1,747	2,252	2,860	2,293	2,102	2,092 i	2,098 i

TABLE 79

## Higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2022 R&amp;D expenditures: FYs 2010–22

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Dine C.	516	ne	911	i ne	ne	ne	ne	ne	ne	1,238	1,126	347	ne	2,091
U. Illinois, Springfield	517	1,808	1,536	2,155	2,205	1,852	2,040	1,293	2,246	2,104	1,727	2,859	2,286	2,082
Colby C.	518	1,515	1,528	1,709	1,571	1,475	1,573	1,639	1,643	1,948	1,641	1,390	1,133	2,081
U. San Francisco	519	1,546	1,734	3,405	2,233	2,208	1,848	1,718	1,009	1,169	1,195	1,157	1,007	2,079
Lake Superior State U.	520	ne	752	ne	ne	ne	1,122	991	1,066	630	ne	ne	ne	2,056
Western New England U.	521	ne	1,111	461	ne	ne	ne	1,254	551	ne	ne	ne	ne	2,052
Palmer C. of Chiropractic, Davenport	522	4,693	4,861	4,507	3,774	2,736	i 1,698	1,510	1,189	1,600	1,650	1,900	2,233	2,050
Sul Ross State U.	523	2,970	3,101	2,296	2,159	2,528	2,187	1,908	2,498	2,934	2,352	2,068	2,143	i 2,005
U. South Carolina, Aiken	524	337	i 750	ne	1,309	1,133	i 1,154	1,445	2,961	2,582	2,145	2,489	1,994	1,956
U. of St. Thomas (MN)	525	1,003	1,037	751	1,019	647	ne	909	929	1,344	1,395	2,047	4,471	1,936
Monmouth U.	526	2,195	1,956	904	ne	865	ne	900	ne	ne	1,294	1,729	1,667	1,928
St. Edward's U.	527	ne	3,299	2,480	2,640	1,745	4,200	3,720	7,161	2,813	5,813	5,377	4,789	1,914
Black Hills State U.	528	1,741	1,568	1,909	1,983	1,322	1,197	1,722	1,297	918	1,254	1,439	1,204	1,907
Azusa Pacific U.	529	ne	3,414	i 1,930	i ne	ne	3,953	4,996	4,330	4,207	2,731	3,609	2,466	1,891
Savannah State U.	530	1,874	2,700	1,996	2,613	2,210	1,801	2,261	1,405	1,793	1,720	1,804	1,804	1,888
California State U., Stanislaus	531	ne	1,419	i 1,758	1,104	892	1,078	1,108	1,326	1,371	1,435	1,769	2,056	1,883
CUNY, Graduate Center	532	6,799	4,964	6,861	8,835	5,719	4,144	4,979	i 5,727	4,145	4,163	3,613	3,352	1,881
Mount Holyoke C.	533	2,305	2,810	2,838	2,716	3,335	3,565	3,297	3,635	2,601	2,689	1,895	1,845	1,868
New England C. of Optometry	533	1,457	1,751	2,237	2,172	1,234	1,077	980	ne	1,026	1,223	1,150	1,978	1,868
SUNY, Geneseo	535	1,174	2,239	1,989	1,082	957	1,162	1,594	1,626	1,813	1,958	1,528	1,847	1,859
Utah Valley U.	536	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,850
Pennsylvania State U., Harrisburg	537	2,728	3,446	2,774	1,906	2,482	3,379	2,546	1,638	2,087	2,497	1,798	2,652	1,832
U. of the Pacific	537	4,429	3,241	3,753	3,479	1,877	1,488	2,289	1,592	2,228	2,387	1,690	1,370	1,832
CUNY, York C.	539	ne	2,134	1,153	826	ne	315	ne	ne	ne	1,574	1,648	1,060	1,805
Lafayette C.	540	1,544	1,720	1,308	1,269	973	1,201	959	1,459	1,239	1,101	1,185	859	1,803
U. of the Incarnate Word	541	ne	302	ne	ne	ne	576	ne	ne	1,057	1,428	1,408	1,895	1,789
Dillard U.	542	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	1,746
Fayetteville State U.	543	2,188	2,378	1,771	2,050	2,499	2,092	3,040	2,502	2,501	2,224	1,985	2,272	1,745

TABLE 79

## Higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2022 R&amp;D expenditures: FYs 2010–22

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
U. Houston-Clear Lake	544	831	1,273	1,253	1,175	1,013	853	1,067	1,146	1,227	1,113	1,128	1,399	1,712
Southeastern Louisiana U.	545	2,172	1,638	1,733	1,642	1,408	1,984	1,550	1,606	1,304	1,140	1,564	1,071	1,700
Roger Williams U.	546	1,174	1,616	1,369	1,283	1,927	1,450	1,815	1,900	1,665	1,459	1,285	1,470	1,689
Virginia Military Institute	547	825	355	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,686
Connecticut C.	548	1,532	1,801	1,740	1,842	1,966	1,900	1,972	1,875	1,349	1,894	1,598	1,244	1,683
Northeastern Illinois U.	549	376	388	ne	ne	613	ne	ne	805	1,877	2,078	1,378	1,370	1,663
Stockton U.	550	ne	1,226	609	ne	1,155	1,297	759	ne	2,560	2,630	3,198	1,246	1,657
Colorado State U., Pueblo	551	413	364	ne	ne	ne	ne	ne	ne	ne	2,008	1,937	2,159	1,649
Skidmore C.	552	2,632	1,941	1,758	1,733	1,646	1,620	1,208	1,741	2,451	2,924	2,316	2,269	1,605
Northern Michigan U.	553	423	405	ne	ne	ne	ne	627	653	963	1,047	1,163	1,127	1,600
U. Wisconsin-Eau Claire	554	1,774	1,287	1,225	1,132	798	ne	1,170	1,557	1,136	1,468	1,275	1,777	1,594
U. Alaska, Southeast	555	1,620	1,147	1,107	1,241	1,484	1,588	1,725	1,621	1,640	1,341	1,257	1,176	1,570
Alaska Pacific U.	556	434	518	ne	ne	ne	976	1,009	835	1,325	1,627	1,234	1,034	1,568
Florida Polytechnic U.	557	na	na	na	na	na	212	ne	ne	ne	1,981	1,071	1,166	1,566
Marshall B. Ketchum U.	558	ne	ne	ne	ne	1,030	1,468	1,491	1,512	i	1,451	i	1,430	i
Calvin U.	559	3,720	2,045	2,370	3,408	2,627	1,772	i	1,331	1,306	1,793	1,521	1,243	i
Colorado C.	559	543	751	701	398	896	1,423	1,003	1,346	1,294	1,053	828	686	1,527
CUNY, New York City C. of Technology	561	133	284	ne	ne	ne	ne	ne	ne	2,358	2,576	1,902	1,029	1,524
Butler U.	562	ne	397	i	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,493
U. Wisconsin-Oshkosh	563	1,229	1,847	2,027	1,763	i	1,613	i	1,465	i	1,338	i	1,361	i
Trinity C., Hartford	564	1,292	1,449	1,675	1,369	1,654	1,217	1,217	2,496	1,423	1,579	1,309	1,720	1,473
U. Puerto Rico, Humacao	565	1,968	i	1,976	1,949	1,452	1,102	748	ne	ne	1,168	1,195	1,456	1,321
SUNY, C. Brockport	566	831	1,248	1,487	1,183	1,130	1,329	1,331	1,270	1,268	1,372	1,713	1,111	1,447
C. Wooster	567	938	1,110	880	ne	1,135	1,135	i	ne	1,379	1,338	1,586	823	1,150
Macalester C.	568	3,080	3,343	1,518	1,241	1,256	1,096	1,389	1,754	1,218	1,582	1,565	1,133	1,423
Elizabeth City State U.	569	5,366	10,229	3,811	3,843	2,434	1,837	1,670	1,323	978	ne	1,010	1,319	1,390
U. Puerto Rico, Cayey	570	713	1,067	1,817	1,726	1,795	1,521	1,415	1,109	1,359	1,870	i	1,974	1,881
Rhode Island C.	571	ne	2,316	1,569	1,167	907	1,396	1,259	960	776	809	1,438	1,629	1,367
Purdue U., Fort Wayne	572	4,832	5,206	4,563	5,080	4,348	4,013	3,930	3,317	3,401	1,220	1,380	1,317	1,363

TABLE 79

## Higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2022 R&amp;D expenditures: FYs 2010–22

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Grambling State U.	573	993	2,085	1,523	1,327	1,165	1,098	1,454	1,554	1,343	927	855	1,238	1,345
West Virginia School of Osteopathic Medicine	574	594	528	ne	ne	ne	ne	ne	ne	ne	ne	1,303	1,245	1,327
Manhattan C.	575	498	521	ne	ne	ne	ne	ne	ne	ne	969	1,064	1,522	1,318
Union C., Schenectady	576	1,957	1,527	1,378	2,312	1,807	1,431	2,031	1,042	1,297	1,454	837	1,353	1,309
U. Ana G. Mendez, Gurabo	577	1,054	410	615	566	2,319	1,780	1,747	1,640	1,388	3,823	2,025	1,522	1,304
Keck Graduate Institute	578	ne	2,313	1,920	2,357	2,132	1,708	1,660	i 1,598	i 1,536	i 1,474	i 1,412	i 1,350	i 1,282
Kenyon C.	579	428	433	ne	ne	ne	ne	ne	ne	1,161	1,068	896	ne	1,261
Willamette U.	580	1,161	1,161	1,825	1,484	1,183	1,643	1,054	1,345	1,543	895	665	810	1,238
Northwestern State U. Louisiana	581	1,407	1,185	1,085	997	792	ne	1,202	1,023	1,199	1,275	1,341	1,244	1,234
SUNY, Cobleskill	582	1,404	909	ne	844	ne	ne	ne	ne	ne	ne	ne	ne	1,211
Seton Hall U.	583	3,030	5,560	679	691	688	736	825	850	724	810	539	1,003	1,206
Nevada State C.	584	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,191
SUNY, Oswego	585	783	977	ne	724	ne	ne	ne	1,626	1,953	1,679	1,500	966	1,185
Heidelberg U.	586	ne	1,219	i ne	1,129	1,537	1,107	1,286	1,619	1,280	1,237	1,125	1,725	1,184
Clafin U.	587	3,241	5,202	5,255	2,574	1,618	1,204	1,748	1,354	1,505	1,736	1,910	1,015	1,179
Texas A&M U.-San Antonio	588	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,169
Winthrop U.	589	ne	1,350	1,465	1,207	1,211	1,163	917	853	865	1,146	1,200	1,441	1,161
Canisius C.	590	221	205	ne	ne	ne	ne	ne	1,398	1,054	943	ne	1,036	1,160
New Mexico Highlands U.	591	1,463	1,444	1,241	1,209	979	ne	1,111	1,023	952	ne	1,090	1,129	i 1,137
U. Wisconsin-Platteville	592	681	715	i ne	ne	899	i 726	ne	812	i ne	829	i 843	i 950	i 1,123
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	1,118
Whitman C.	594	1,407	1,142	849	ne	ne	ne	ne	ne	ne	1,039	865	ne	1,101
Seattle U.	595	1,190	i 1,274	642	ne	1,500	1,975	1,610	1,177	1,368	1,128	908	509	1,078
U. Hartford	596	1,137	2,414	1,736	1,448	1,305	1,350	1,478	1,572	460	1,528	1,239	1,247	1,055
SUNY, C. Plattsburgh	597	1,613	1,098	913	ne	1,008	1,087	1,020	1,003	1,604	1,649	1,419	1,229	1,043
Northland C.	598	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	881	i 1,011
Marymount U.	599	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,812	995
U. Puget Sound	600	329	331	ne	ne	ne	ne	ne	884	ne	ne	823	ne	989
Albion C.	601	ne	563	ne	ne	ne	ne	ne	807	738	753	866	868	i 956
U. North Georgia	602	ne	ne	ne	ne	ne	ne	ne	331	544	551	363	596	951

TABLE 79

## Higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2022 R&amp;D expenditures: FYs 2010–22

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Lawrence Technological U.	603	3,103	3,158	1,471	1,666	1,393	1,962	1,449	1,490	1,068	975	875	673	948
Robert Morris U.	604	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	946 i
Elon U.	605	ne	602 i	707 i	876 i	851	1,054	1,141	1,130	1,304	1,162	890	921	932
Naval War C.	606	ne	ne	0 i	0 i	0 i	0	0	4,240 i	5,270	679	724	794	929
Indiana State U.	607	1,526	1,980	1,857	1,230	1,434	1,459	1,487	929	977	1,250	1,068	677	928
Eastern Connecticut State U.	608	ne	96	ne	ne	574	606	464	770	588	871	1,057	851	912
Ithaca C.	609	1,046	963	1,079	1,141	1,079	836	ne	ne	ne	ne	1,129	966	909
U. Virginia's C. Wise	610	481	336	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,346	907
Drake U.	611	680	644	ne	863	ne	ne	1,147	759	563	485	ne	784	899
Saint John's U.	612	390	563	ne	763	907	745	909	738	568	560 i	531 i	773 i	892 i
St. Catherine U.	612	ne	468	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	892
Bentley U.	614	ne	ne	ne	ne	ne	ne	ne	562	ne	ne	ne	ne	875
East Stroudsburg U. Pennsylvania	615	ne	250	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	860
C. of Saint Benedict	616	ne	513	ne	738	769	662	854	660	520	512 i	487 i	742 i	856 i
Central Connecticut State U.	617	659	1,083	1,248	1,416	971	1,106	1,198	873	ne	966	989	1,007	831
Hamilton C.	618	1,431	1,476	1,136	1,660	1,178	627	897	1,036	880	841	785	781	815
Northwest Indian C.	619	2,271 i	2,557 i	2,590	2,760	2,503 i	1,575 i	ne	ne	1,649	2,201	572 i	683 i	791
St. Cloud State U.	620	2,326	1,992	1,489	1,418	1,511	2,148	1,576	1,676	1,694	1,435	1,040	1,179	716
Augustana U.	621	912	1,578	1,160	1,045	1,106	756	ne	958	1,128	841	ne	1,003	709
Plymouth State U.	622	1,241 i	2,010 i	1,550	1,391	1,550	1,531	1,331	1,118	990	ne	ne	ne	652
California Lutheran U.	623	ne	666	ne	ne	ne	ne	ne	ne	ne	670	498	ne	627
Babson C.	624	ne	367	ne	ne	ne	ne	92 i	81 i	1,224 i	0 i	0 i	0 i	555 i
U. Houston-Downtown	625	1,010	1,272	2,123	584	605	1,016	818	1,111	953	481	682	994	548
Sonoran U. Health Sciences	626	ne	ne	ne	ne	ne	ne	ne	ne	ne	230	ne	ne	520 i
Mercyhurst U.	627	1,106	581	588	474	887	631	307	976 i	ne	1,085 i	888 i	693 i	495
Kettering U.	628	6,275	4,936	3,215	2,806	2,728	2,685	2,650	3,245	2,060	1,613	1,771	387	475
California State U., Maritime Academy	629	ne	3,005 i	2,342	2,180	1,011	1,522	2,205	1,916	3,039	2,959	3,202	2,603	458
U. of Mary Washington	630	ne	563 i	90	ne	ne	266	ne	ne	336	280	449	436	423
Johnson C. Smith U.	631	ne	ne	ne	ne	ne	ne	641	628	1,425	1,034	1,087	421 i	394
Suffolk U.	632	ne	847	477	748	757	625	714 i	884 i	ne	ne	845	635	379



TABLE 79

**Higher education R&D expenditures in science and engineering fields, ranked by FY 2022 R&D expenditures: FYs 2010–22**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
U. Charleston	633	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	217
La Sierra U.	634	ne	661	ne	ne	283	280	471	228	147	213	180	6	81
All other surveyed institutions	-	1,770,634	2,199,887	2,182,097	2,093,629	1,430,871	1,443,556	1,465,731	1,551,931	1,628,437	665,052	598,683	47,467	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.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$2,056,063 thousand in total R&D expenditures in science and engineering fields in FY 2022.

<sup>b</sup> 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.

<sup>c</sup> 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.

<sup>d</sup> 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.

<sup>e</sup> 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 2022 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.