

TABLE 80

## Federally financed 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	-	36,510,431	39,648,595	38,939,996	38,264,373	36,824,264	36,775,605	37,675,543	39,032,187	40,612,582	43,217,463	44,868,504	47,760,101	52,480,716
Johns Hopkins U. <sup>a</sup>	1	1,731,818	1,875,410	1,845,845	1,881,959	1,936,953	1,988,993	2,100,097	2,173,734	2,246,705	2,479,371	2,679,737	2,772,522	2,968,175
U. Washington, Seattle	2	809,433	921,399	876,941	869,623	849,713	851,573	893,050	912,856	955,518	958,103	987,195	1,000,152	1,033,866
U. Michigan, Ann Arbor	3	729,779	801,194	773,766	802,114	733,779	728,712	780,080	822,436	841,158	879,954	877,379	882,167	961,590
U. California, San Diego	4	578,889	635,223	653,549	630,009	597,270	601,184	602,336	639,643	634,676	698,138	726,536	773,484	958,169
Georgia Institute of Technology	5	370,532	426,088	482,349	520,754	510,422	548,063	567,100	578,107	646,317	708,682	780,894	838,185	926,720
Duke U.	6	513,469	584,161	585,636	580,416	556,847	558,566	574,738	622,174	644,179	708,544	706,023	775,046	900,220
Columbia U. in the City of New York	7	561,531	634,973	631,961	619,557	591,523	577,833	585,578	632,994	673,792	724,232	743,915	804,534	875,383
U. Pennsylvania	8	626,816	689,571	656,425	623,939	606,115	597,791	638,336	653,405	671,796	702,747	705,791	776,072	853,506
Stanford U.	9	576,553	633,287	607,578	625,144	608,342	645,633	668,578	684,928	685,871	713,688	725,942	785,118	835,331
U. California, Los Angeles	10	522,423	545,882	527,899	489,820	458,157	482,771	479,718	479,799	557,986	587,740	642,219	706,193	828,111
U. Pittsburgh, Pittsburgh	11	581,148	647,060	620,070	601,358	565,409	554,658	575,281	612,754	643,129	671,380	682,715	719,750	810,167
U. North Carolina, Chapel Hill	12	541,910	592,541	597,629	614,627	601,933	577,574	624,131	657,879	681,581	701,623	685,851	727,045	796,847
U. California, San Francisco	13	514,693	570,116	559,329	566,117	544,697	535,457	602,705	606,768	669,470	671,047	676,331	683,179	780,318
U. Maryland <sup>b</sup>	14	na	na	na	na	na	na	na	na	na	678,126	669,023	693,294	730,658
U. Wisconsin-Madison	15	522,473	568,389	557,688	533,220	522,251	506,910	548,247	552,983	555,666	594,094	617,902	631,320	720,984
Yale U.	16	475,010	518,195	517,072	502,439	475,585	471,381	494,504	531,995	549,026	573,491	582,575	641,530	686,044
Pennsylvania State U., University Park and Hershey Medical Center	17	463,301	459,333	526,212	556,185	516,300	507,889	532,669	528,181	557,323	591,201	632,245	606,189	664,168
Washington U., Saint Louis	18	466,993	460,282	432,434	402,702	410,115	424,723	436,229	468,637	496,648	531,885	545,027	588,717	662,135
New York U.	19	250,006	289,172	300,271	283,382	314,712	326,691	332,483	369,947	395,445	416,137	433,598	534,552	652,614
Vanderbilt U. and Vanderbilt U. Medical Center	20	377,185	434,213	430,445	432,752	408,743	390,701	395,505	442,669	456,599	470,774	492,333	567,490	644,964
U. Minnesota, Twin Cities	21	420,102	482,639	480,531	489,318	483,542	468,482	462,570	448,814	455,294	483,898	503,414	562,697	643,362
Cornell U.	22	446,705	476,163	471,024	444,303	438,834	445,266	427,940	435,355	464,468	522,035	558,346	588,001	631,804

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## Federally financed 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
Harvard U.	23	467,237	530,908	574,346	575,868	554,944	530,382	549,539	565,269	578,722	611,123	598,313	609,310	620,497
Northwestern U.	24	356,193	393,449	385,377	389,757	385,888	385,868	424,638	438,732	464,689	497,740	527,958	569,875	615,163
Icahn School of Medicine at Mount Sinai	25	302,770	296,835	271,722	277,517	300,667	329,641	342,104	367,522	398,656	443,745	480,452	554,582	610,646
Ohio State U.	26	384,633	471,331	416,304	425,547	416,177	406,941	418,887	427,154	439,594	465,081	505,626	523,826	594,323
U. Southern California	27	402,372	443,458	433,136	423,708	421,887	408,105	396,197	436,515	488,081	530,971	549,528	559,032	583,581
Emory U.	28	336,948	369,945	360,934	364,136	329,254	346,534	360,197	381,151	392,971	423,515	451,487	515,009	567,102
Massachusetts Institute of Technology	29	451,050	482,544	478,955	487,647	480,991	486,650	501,702	484,597	476,576	485,821	484,184	480,092	527,845
U. Texas, Austin	30	331,439	334,240	328,560	352,788	313,955	331,388	340,181	377,389	386,954	387,551	478,458	465,529	506,533
U. Colorado Boulder	31	282,008	313,531	319,019	309,072	302,877	341,828	360,827	359,462	376,870	397,709	412,476	444,381	491,940
Texas A&M U., College Station and Health Science Center	32	276,977	281,063	259,506	302,356	298,489	291,714	281,015	294,602	316,771	342,390	501,396	512,130	484,899
U. California, Davis	33	329,041	359,704	356,540	344,632	327,697	322,919	334,534	337,995	354,823	370,601	377,068	369,231	463,039
U. California, Berkeley	34	303,201	326,120	333,179	305,932	309,305	342,042	338,562	326,548	324,521	341,328	345,103	348,147	459,518
U. Florida	35	269,765	296,950	295,745	285,778	279,920	281,317	297,267	314,187	340,725	369,001	375,577	404,432	449,973
U. Chicago	36	348,537	365,824	329,119	294,862	276,237	290,776	293,557	302,361	297,824	327,837	347,734	390,098	449,456
U. Colorado Anschutz Medical Campus <sup>c</sup>	37	na	na	na	na	na	na	na	na	na	na	na	363,331	429,452
Baylor C. of Medicine	38	284,072	295,529	268,753	285,230	264,641	256,895	267,849	292,806	300,098	309,354	315,101	365,472	420,054
U. Alabama, Birmingham	39	320,704	340,342	303,677	286,873	276,112	325,008	346,190	356,303	370,401	395,910	397,206	421,209	418,667
U. Illinois, Urbana-Champaign	40	294,236	312,796	348,536	459,791	336,172	330,479	320,703	344,657	339,732	369,006	376,505	394,374	407,278
Boston U.	41	298,467	300,923	273,204	265,476	254,285	256,562	250,523	253,828	264,281	313,670	333,387	396,685	406,151
Case Western Reserve U.	42	333,438	352,938	358,722	347,628	328,548	307,960	320,402	325,354	346,935	355,970	356,751	339,658	379,602
U. Arizona	43	307,038	324,751	328,369	334,680	286,595	265,878	259,443	269,201	287,852	323,060	325,621	350,487	371,931
Michigan State U.	44	198,735	222,937	250,416	246,131	247,970	256,228	294,369	329,533	315,674	317,653	317,885	339,614	369,302
U. Utah	45	226,489	263,623	271,629	297,099	284,125	270,311	224,270	218,405	302,586	282,157	306,629	329,537	358,535
Indiana U., Bloomington	46	67,483	69,298	72,501	82,005	80,109	206,263	216,917	241,350	245,402	304,116	314,721	320,591	353,187
U. Cincinnati	47	261,982	286,003	266,507	256,816	243,705	250,457	229,761	239,659	246,400	249,656	283,059	306,411	347,321
Oregon Health and Science U.	48	247,054	268,777	242,219	244,867	246,050	243,876	230,608	243,495	264,492	298,227	321,572	329,016	346,724

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## Federally financed 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
Rutgers, State U. New Jersey, New Brunswick	49	218,910	235,178	273,498	288,374	355,116	320,311	318,123	316,118	330,823	287,031	304,486	332,033	343,447
Purdue U., West Lafayette	50	221,679	246,116	255,691	258,596	227,857	209,005	214,373	224,965	230,208	231,188	257,641	277,663	335,125
U. Rochester	51	321,258	337,312	307,390	298,781	265,686	261,023	265,430	267,040	283,973	305,325	295,154	308,426	332,302
California Institute of Technology	52	325,751	340,131	322,295	272,223	276,447	269,156	260,489	272,323	268,765	278,846	309,386	287,810	322,107
Colorado State U., Fort Collins	53	205,890	230,661	245,573	213,355	206,958	213,685	227,624	232,405	257,355	276,173	276,863	296,067	310,004
U. Iowa	54	280,089	280,989	265,780	252,161	234,122	223,730	236,363	236,679	243,216	248,639	255,617	278,615	307,534
U. Virginia, Charlottesville	55	224,607	239,249	225,558	212,051	192,907	186,676	198,760	215,193	231,161	257,013	282,429	282,472	307,111
U. Texas Southwestern Medical Center	56	232,027	231,639	207,513	198,114	185,137	183,787	185,263	200,085	197,910	203,544	242,679	257,611	298,154
Arizona State U.	57	164,890	178,153	182,188	190,066	186,126	186,890	200,280	214,845	244,795	253,530	262,377	256,875	288,495
Utah State U.	58	89,750	112,611	107,054	106,074	114,075	119,811	124,981	137,295	158,576	219,912	241,433	263,341	278,857
U. California, Irvine	59	189,343	204,134	204,062	196,256	180,431	170,622	170,674	178,789	192,182	207,234	225,967	237,874	276,782
U. Miami	60	196,435	223,870	222,535	204,315	202,818	192,691	194,346	193,549	191,408	211,493	223,774	230,632	264,366
Carnegie Mellon U.	61	179,136	200,878	209,307	215,560	198,247	187,259	190,620	189,974	181,958	197,927	217,481	234,743	259,034
U. Massachusetts, Medical School	62	178,293	208,244	202,149	189,159	183,582	183,588	181,446	200,232	194,953	197,388	192,938	248,873	258,147
U. Kentucky	63	167,192	175,801	157,813	148,758	140,450	145,097	152,708	168,347	168,968	189,860	197,848	218,566	250,152
North Carolina State U.	64	137,124	152,790	171,464	174,440	177,722	196,058	197,261	213,544	214,440	224,471	227,964	234,181	245,159
U. Illinois, Chicago	65	229,131	245,323	243,622	219,473	201,646	192,930	175,302	188,730	189,322	200,926	215,990	230,140	243,243
Scripps Research Institute	66	313,746	317,201	309,471	308,628	292,268	274,097	242,489	250,090	267,088	267,122	243,502	272,181	242,135
Virginia Polytechnic Institute and State U.	67	161,636	187,269	181,371	197,462	198,092	191,080	190,975	181,379	195,140	206,208	208,952	214,291	231,144
U. New Mexico	68	147,003	161,950	159,302	155,684	151,082	151,619	153,100	159,583	167,315	156,865	158,882	239,587	229,987
U. Connecticut	69	128,700	141,252	150,402	146,400	139,594	135,349	143,955	141,977	139,022	153,496	160,763	180,758	227,351
U. Texas M. D. Anderson Cancer Center	70	206,664	236,400	196,753	182,971	158,986	161,171	155,044	166,552	173,206	176,156	186,488	217,073	225,659
Albert Einstein C. of Medicine	71	na	na	na	na	na	na	188,521	188,259	196,457	202,513	204,635	214,619	220,780
Princeton U.	72	149,164	162,491	160,985	156,070	163,805	157,867	161,562	175,485	179,659	192,747	202,447	204,430	217,505

TABLE 80

## Federally financed 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
SUNY, U. Buffalo	73	164,477	176,923	186,747	200,212	185,144	174,146	180,095	184,313	183,124	178,458	195,829	207,224	214,559
U. Georgia	74	117,225	134,200	133,525	127,487	122,145	127,825	138,374	153,279	144,926	156,628	167,347	184,847	214,505
Brown U.	75	120,749	123,649	127,665	120,977	125,005	127,886	131,751	141,864	161,384	175,849	183,180	195,302	212,899
Woods Hole Oceanographic Institution	76	153,066	165,819	161,115	158,672	177,616	172,995	166,010	148,491	163,003	184,995	191,186	222,351	211,550
U. Dayton	77	72,567	69,847	64,369	66,396	63,881	74,548	97,635	112,584	130,488	152,545	153,215	180,479	201,898
U. Oklahoma, Norman and Health Science Center	78	100,065	112,146	124,131	119,762	108,356	122,918	128,260	126,510	142,470	159,640	179,640	181,388	197,521
Uniformed Services U. of the Health Sciences	79	72,125	117,781	102,134	119,647	213,389	299,007	175,007	204,241	218,702	297,808	235,202	275,573	194,187
U. Delaware	80	102,637	112,523	110,760	114,048	111,933	109,258	108,378	113,031	113,582	128,651	139,682	152,665	189,374
U. South Florida <sup>d</sup>	81	219,634	220,931	218,772	207,441	205,155	196,215	210,823	234,871	163,013	164,662	142,086	161,278	187,491
Oregon State U.	82	135,081	146,069	155,667	148,174	143,815	150,625	156,437	157,708	166,354	162,781	161,646	173,532	186,756
U. Texas Health Science Center, Houston	83	150,324	156,790	146,424	144,235	136,145	125,890	121,098	124,461	128,232	132,647	133,624	165,139	184,205
SUNY, Stony Brook U.	84	120,090	124,938	123,198	118,432	111,386	115,031	118,296	125,150	134,802	143,258	145,526	161,552	182,212
Wake Forest U.	85	159,084	173,004	172,779	156,506	153,069	148,084	140,651	147,746	154,031	165,439	166,480	188,809	180,681
Iowa State U.	86	108,181	116,109	117,144	120,934	115,285	113,443	124,242	125,607	145,241	145,541	161,153	160,520	179,143
Thomas Jefferson U.	87	77,817	80,027	68,976	56,247	54,676	58,536	58,866	62,029	64,869	74,816	74,653	109,419	173,855
U. Hawaii, Manoa	88	196,275	201,700	193,722	225,263	202,574	199,818	189,683	181,750	166,398	167,432	163,091	156,953	168,711
U. Kansas	89	137,458	143,300	147,052	147,557	131,186	128,374	117,549	126,109	130,036	141,679	151,987	156,707	164,326
Washington State U.	90	105,333	115,775	120,146	119,921	112,568	121,627	122,275	133,308	131,229	137,424	135,023	162,455	163,595
Medical U. South Carolina	91	131,650	143,464	136,907	127,472	118,649	117,255	124,212	134,072	142,639	153,226	153,802	162,394	163,395
U. Missouri, Columbia	92	113,362	113,072	110,446	108,305	102,784	102,852	116,337	122,821	126,164	128,293	137,029	145,070	161,723
U. California, Santa Barbara	93	127,696	132,490	134,984	131,392	119,816	114,596	114,884	113,173	110,065	115,569	121,120	119,203	159,694
George Washington U.	94	120,844	115,463	111,068	119,441	139,148	135,667	138,735	144,567	153,412	152,562	154,026	158,475	159,372
Dartmouth C. and Dartmouth Hitchcock Medical Center	95	117,909	131,518	147,218	154,917	145,080	145,807	138,641	136,977	139,692	137,337	141,040	151,449	154,621
U. Alaska, Fairbanks	96	97,889	103,677	97,472	92,602	83,483	78,985	87,829	95,467	93,562	91,405	99,572	126,247	152,929
Medical C. Wisconsin	97	121,750	133,929	125,325	116,765	111,241	109,542	108,529	108,276	111,273	119,036	128,783	136,385	152,301
Tufts U.	98	115,159	120,864	120,042	112,495	115,046	120,181	124,363	138,004	128,404	136,088	145,473	165,222	148,667

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## Federally financed 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. Tennessee, Knoxville <sup>e</sup>	99	83,491	99,712	103,147	104,558	106,778	101,608	106,930	115,320	116,028	121,549	136,741	133,073	145,653
Virginia Commonwealth U.	100	125,713	134,431	124,836	119,293	119,507	123,665	124,962	127,341	122,771	125,393	135,266	141,521	144,785
Northeastern U.	101	56,727	65,757	75,733	82,587	77,401	78,379	78,668	90,190	109,443	122,663	131,752	138,641	144,322
Florida State U.	102	127,571	136,332	131,998	132,583	140,995	133,569	118,294	118,359	129,435	131,472	141,229	127,509	139,147
Temple U.	103	76,170	85,021	85,062	124,764	118,892	119,945	134,132	143,636	141,505	150,201	146,564	146,101	138,403
Mississippi State U.	104	105,224	97,987	96,132	73,834	70,615	79,181	86,570	87,435	88,365	103,546	119,093	114,492	134,780
U. Alabama, Huntsville	105	71,461	70,197	75,715	83,396	73,913	66,564	68,882	68,259	74,315	84,689	103,599	116,441	131,443
U. New Hampshire	106	76,191	96,552	109,728	92,778	89,640	83,106	89,457	85,714	87,854	84,599	94,554	95,579	127,040
Tulane U.	107	106,021	110,222	101,130	97,873	94,287	84,143	89,028	93,747	102,090	104,187	107,216	113,434	126,990
Georgetown U.	108	119,509	122,802	113,229	113,703	99,567	87,268	82,819	93,224	88,778	93,004	98,138	128,798	126,625
Florida International U.	109	52,784	61,687	54,204	57,858	68,946	67,293	68,539	66,351	80,417	90,067	97,758	100,470	125,166
U. Massachusetts, Amherst	110	97,131	106,315	106,470	103,233	102,682	97,206	97,576	101,992	103,555	110,063	112,546	112,146	123,598
U. Texas Medical Branch	111	128,840	128,098	109,867	108,287	101,761	98,050	100,464	104,458	104,356	107,806	114,103	117,915	123,467
Wayne State U.	112	131,418	133,925	125,965	118,217	112,608	108,221	109,460	106,865	107,791	114,349	108,536	111,708	122,454
U. Texas Health Science Center, San Antonio	113	121,723	121,200	106,177	99,198	89,303	85,940	89,742	85,455	86,956	96,502	102,959	106,824	119,071
U. Notre Dame	114	61,645	79,003	82,244	79,268	79,192	82,615	85,870	90,038	92,144	102,335	99,743	104,905	117,559
U. Vermont	115	98,588	101,465	87,843	85,028	79,727	83,733	83,124	78,383	86,936	90,378	97,676	103,118	116,827
U. Nebraska, Medical Center	116	80,784	86,295	84,196	80,750	76,195	71,918	76,221	84,814	93,463	102,604	105,158	111,042	114,754
U. Louisville	117	83,593	84,557	79,252	72,047	63,258	66,368	69,781	69,722	77,281	83,421	83,626	91,928	114,628
George Mason U.	118	59,591	61,016	57,504	57,154	53,775	54,113	50,687	52,432	64,315	91,377	99,332	99,910	113,443
U. California, Riverside	119	58,159	59,351	61,304	57,032	56,327	62,642	69,924	75,920	75,990	79,666	90,235	95,480	112,776
U. Nebraska, Lincoln	120	97,538	106,575	105,440	98,534	93,190	94,763	93,532	99,956	102,078	108,207	104,794	104,032	109,630
Montana State U., Bozeman	121	84,735	78,431	78,409	66,451	66,770	62,827	61,490	66,449	67,705	80,955	84,960	104,973	109,264
Clemson U.	122	59,374	49,365	48,182	47,825	44,673	45,292	52,184	62,920	66,618	72,335	74,438	83,731	109,121
Louisiana State U., Baton Rouge	123	94,611	96,050	91,238	93,281	93,584	82,276	84,954	80,044	83,453	87,498	86,975	97,985	109,092
U. California, Santa Cruz	124	81,598	95,015	91,409	88,600	89,206	91,249	93,651	65,133	62,218	73,635	75,813	85,887	106,434

TABLE 80

## Federally financed 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. Central Florida	125	67,795	66,736	72,620	68,691	64,323	81,788	80,365	82,777	89,504	90,851	94,617	102,599	102,637
Rice U.	126	69,176	78,249	76,431	79,742	73,782	73,817	82,643	83,894	77,607	83,105	86,675	93,114	102,307
Auburn U., Auburn	127	53,648	59,061	55,118	56,809	49,739	47,939	54,258	54,693	57,718	63,660	72,844	90,386	101,663
U. South Carolina, Columbia	128	119,890	100,045	93,237	87,562	87,844	84,723	88,231	89,565	80,948	88,052	83,386	82,827	100,973
U. Arkansas for Medical Sciences	129	72,217	75,924	69,883	64,856	55,556	50,603	48,999	51,298	57,523	63,498	70,508	83,387	95,080
Rockefeller U.	130	88,705	97,710	84,616	80,384	81,820	81,949	80,667	86,763	87,231	84,566	86,280	96,318	94,693
West Virginia U.	131	74,465	84,061	77,981	72,677	67,450	66,608	70,313	70,256	73,518	79,320	77,455	85,717	94,054
Drexel U.	132	75,339	81,424	85,584	74,047	75,557	67,226	65,193	69,326	80,074	81,957	77,965	88,198	93,094
Wichita State U.	133	13,633	15,425	14,267	10,161	8,100	6,397	7,947	19,507	16,522	26,633	50,042	72,487	91,757
U. Rhode Island	134	60,963	77,668	78,194	70,900	61,836	61,085	58,438	59,623	61,135	69,913	65,860	76,992	90,118
U. Nevada, Reno	135	58,115	55,374	55,150	53,898	50,904	49,977	51,630	53,438	59,879	60,967	63,827	76,240	82,904
U. Oregon	136	66,809	71,344	71,157	61,856	62,824	56,448	55,137	57,092	56,403	63,912	66,182	68,617	82,841
U. Maine	137	48,270	59,644	39,428	33,903	50,338	35,033	34,125	37,189	45,206	49,832	52,755	63,250	81,887
U. Mississippi	138	69,031	72,456	72,855	62,816	63,070	58,797	63,372	61,232	62,721	72,731	80,923	74,055	81,102
Rush U.	139	51,304	57,978	57,512	57,063	53,501	52,193	50,332	51,532	64,178	68,941	65,343	73,279	79,647
U. Houston	140	50,148	57,090	54,657	57,569	55,574	54,516	58,085	57,263	62,134	66,848	68,987	73,234	78,687
Kansas State U.	141	66,400	74,414	73,247	67,524	64,565	66,632	67,863	72,321	77,730	78,878	76,164	74,930	78,508
New Mexico State U.	142	98,050	90,283	90,338	86,546	80,247	78,253	61,494	59,087	53,417	57,183	60,056	64,235	71,377
New Mexico Institute of Mining and Technology	143	42,243	37,316	29,894	23,581	33,168	19,975	16,657	18,271	19,437	22,771	22,598	24,642	70,570
U. Wyoming	144	44,026	47,782	55,663	52,296	39,778	47,232	63,223	56,178	42,538	51,657	56,078	54,183	68,645
U. Montana, Missoula	145	40,116	38,176	35,590	33,825	30,164	33,617	38,726	44,465	51,975	52,919	58,745	66,840	68,546
New Jersey Institute of Technology	146	47,832	52,873	57,513	55,017	51,853	50,554	63,322	64,840	78,313	87,588	82,331	71,860	67,189
Colorado School of Mines	147	28,416	31,414	31,399	31,585	33,908	33,578	34,708	36,650	39,311	48,593	53,875	59,547	65,518
Georgia State U.	148	23,732	21,980	27,251	28,216	29,470	36,843	40,897	54,842	55,241	54,882	62,835	61,436	65,436
Augusta U.	149	na	na	na	47,913	47,771	50,585	50,294	48,921	48,800	47,031	55,797	61,943	64,609
U. Maryland, Baltimore County	150	58,597	61,110	44,669	44,257	46,993	47,591	50,645	52,008	52,934	54,740	58,178	58,317	63,336
U. Arkansas, Fayetteville	151	32,659	37,203	34,123	30,562	26,014	33,486	39,527	42,198	48,288	46,871	45,196	45,674	61,088
U. Massachusetts, Lowell	152	24,475	26,802	25,670	25,441	25,874	28,998	26,499	28,078	28,982	33,948	40,037	46,970	60,222

TABLE 80

## Federally financed 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. Tennessee, Health Science Center	153	52,650	51,840	48,473	42,269	41,830	39,356	38,374	39,138	39,421	42,396	48,264	56,021	60,221
U. North Dakota	154	52,381	53,913	54,411	46,397	40,191	37,457	42,253	40,845	48,858	47,235	42,021	56,742	60,188
U. Texas, Dallas	155	30,019	32,355	34,088	31,903	32,096	30,776	34,532	35,244	39,010	47,443	55,225	57,778	60,073
U. Alabama, Tuscaloosa	156	25,945	32,387	32,515	27,963	25,477	28,029	27,019	24,344	27,660	33,233	37,198	46,389	59,703
Cold Spring Harbor Laboratory	157	51,529	51,529	43,874	41,002	41,845	49,063	50,478	54,260	67,139	73,854	62,068	56,889	59,163
U. Texas, El Paso	158	34,439	34,765	39,274	37,741	34,528	40,334	41,384	43,759	43,214	40,111	37,495	42,385	58,291
U. Louisiana, Lafayette	159	12,060	11,879	12,435	10,007	9,050	10,315	9,479	14,953	20,766	30,341	25,919	47,788	56,538
U. Idaho	160	45,082	52,812	53,765	52,430	49,423	49,591	50,083	48,879	47,475	48,462	49,818	49,306	54,581
U. Texas, Arlington	161	29,671	28,190	30,473	28,588	24,079	26,858	24,853	30,588	34,063	39,198	42,157	44,134	52,942
Cleveland State U.	162	24,894	42,292	46,205	50,002	44,139	41,721	49,659	52,317	54,987	50,982	53,234	46,838	52,514
Oklahoma State U., Stillwater	163	56,998	81,855	85,876	44,200	36,687	38,498	41,186	42,331	40,052	38,757	38,419	45,243	51,084
U. Texas, San Antonio	164	27,036	28,011	29,168	28,066	22,518	23,108	24,493	28,650	28,943	32,986	32,512	41,177	51,075
SUNY, U. Albany	165	123,404	124,848	112,161	113,736	104,861	78,824	74,092	82,551	84,561	91,225	66,162	55,478	50,471
Rensselaer Polytechnic Institute	166	54,559	58,951	62,063	60,765	58,940	59,417	48,887	47,749	46,385	47,245	47,934	49,836	48,950
Michigan Technological U.	167	27,407	32,508	32,835	31,734	30,214	28,581	29,609	28,332	32,366	34,488	35,912	41,123	48,500
San Diego State U.	168	53,746	59,769	51,690	45,175	44,807	43,526	42,062	37,226	37,873	37,595	39,049	40,387	46,973
U. Southern Mississippi	169	36,729	40,764	34,487	28,324	25,956	24,710	23,952	26,104	30,331	45,687	41,791	43,078	46,255
North Dakota State U.	170	51,198	52,543	45,326	37,128	35,308	35,037	34,792	34,134	34,485	34,693	31,109	37,647	44,254
Brandeis U.	171	43,282	47,793	44,061	43,963	45,800	46,764	47,708	44,819	37,371	40,333	40,815	42,725	43,870
Texas Tech U.	172	32,680	32,881	27,698	25,153	26,161	25,458	24,586	23,426	24,503	29,857	29,685	32,129	43,014
Northern Arizona U.	173	14,990	17,687	15,946	15,533	18,044	20,111	22,997	25,615	29,137	35,156	38,492	40,890	41,925
Saint Louis U.	174	33,655	38,206	35,841	31,230	29,396	27,343	26,323	27,005	27,694	33,941	34,163	40,628	41,625
Stevens Institute of Technology	175	26,366	31,269	25,794	23,004	22,130	25,054	28,090	26,438	25,521	27,703	32,141	32,625	41,047
Naval Postgraduate School	176	86,765	88,950	120,209	86,538	89,284	71,987	50,560	42,246	41,151	49,168	48,709	49,366	40,536
CUNY, City C.	177	32,170	39,064	39,063	39,756	39,860	37,900	37,359	34,718	36,402	32,975	30,038	34,100	38,028
Howard U.	178	32,211	35,632	37,336	33,403	32,052	38,051	32,967	33,893	32,573	29,422	28,785	34,907	36,696
Florida A&M U.	179	26,311	30,771	27,951	28,446	25,313	26,700	28,021	27,899	29,861	32,117	30,022	31,669	36,409

TABLE 80

## Federally financed 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.S. Air Force Academy	180	43,803	60,292	36,316	42,303	32,284	29,417	44,567	34,664	27,650	34,940	33,308	31,818	35,826
U. Puerto Rico, Medical Sciences Campus	181	29,813	54,381	35,173	31,037	30,197	31,889	33,348	29,869	30,597	34,570	27,033	33,262	35,050
Lehigh U.	182	22,084	20,485	20,419	20,878	20,677	20,680	19,512	22,640	23,649	24,282	25,574	27,483	33,809
U. Toledo	183	36,984	42,680	38,563	37,539	31,648	26,428	24,860	22,371	25,056	27,802	27,412	32,411	33,765
Louisiana State U., Health Sciences Center, New Orleans	184	46,142	45,581	40,637	36,886	34,637	36,027	31,526	28,018	26,988	31,290	31,381	34,272	33,087
Worcester Polytechnic Institute	185	12,705	14,773	12,161	16,275	18,310	25,743	24,854	18,559	18,084	22,144	25,320	29,202	32,552
Mercer U.	186	18,778	17,904	19,963	19,411	19,666	21,563	21,120	19,772	18,999	27,035	31,572	34,413	32,504
Air Force Institute of Technology	187	13,514	18,986	17,919	17,614	16,342	16,369	19,660	25,558	23,393	21,856	22,854	27,025	32,479
SUNY, Polytechnic Institute	188	na	na	na	na	21,208	14,641	21,380	41,247	41,753	38,222	27,993	25,427	32,375
Morehouse School of Medicine	189	25,855	28,128	31,786	34,511	33,020	30,012	28,678	28,792	24,326	22,461	22,500	25,181	31,339
Boston C.	190	31,351	23,845	23,685	22,780	19,462	17,409	23,184	26,937	27,674	28,017	25,213	28,738	30,840
U. Missouri, Kansas City	191	16,139	18,748	17,219	15,406	14,613	12,810	12,739	11,145	10,396	18,400	21,921	20,784	30,571
Boise State U.	192	14,237	18,423	19,446	15,181	15,183	17,562	16,112	18,754	23,157	22,354	25,121	30,053	30,559
Brigham Young U., Provo	193	18,373	19,741	17,381	19,931	20,214	20,769	24,791	23,631	21,367	21,977	22,789	28,614	29,844
San Jose State U.	194	21,576	23,207	21,830	24,574	28,475	31,250	30,021	30,063	31,592	33,072	32,061	29,856	29,488
Van Andel Research Institute	195	ne	ne	ne	ne	ne	8,138	11,970	13,108	14,285	18,259	18,538	22,231	29,424
Missouri U. of Science and Technology	196	28,239	27,961	23,731	25,551	21,474	17,306	18,811	19,534	21,793	22,337	22,853	26,164	28,773
Syracuse U.	197	26,971	25,272	25,327	22,564	24,163	26,769	28,793	31,902	33,045	32,143	27,538	29,354	28,489
Rochester Institute of Technology	198	19,493	18,546	17,435	16,186	16,765	17,479	22,545	23,913	22,692	22,195	24,079	27,703	28,420
William & Mary	199	22,478	23,502	25,349	24,619	27,232	27,722	28,771	28,062	27,836	27,112	25,460	24,533	27,979
SUNY, Upstate Medical U.	200	27,959	28,663	27,013	23,730	21,334	19,213	18,942	19,991	20,391	22,028	23,940	24,974	27,737
Florida Atlantic U.	201	16,457	14,793	14,926	12,480	12,317	10,402	14,443	16,430	18,076	21,050	22,787	27,479	27,717
U. Nevada, Las Vegas	202	31,497	29,642	24,567	23,980	26,585	26,970	24,683	28,460	32,711	27,172	28,187	25,764	27,244



TABLE 80

## Federally financed 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
Indiana U.-Purdue U., Indianapolis	203	147,375	154,966	165,374	151,962	142,589	18,090	19,507	19,630	22,071	25,672	30,289	28,541	27,169
East Carolina U.	204	15,587	17,636	16,946	17,789	16,992	14,926	13,057	11,386	11,654	15,544	16,583	19,633	26,813
Catholic U. of America	205	15,837	19,651	17,350	17,154	17,061	19,548	19,451	19,364	20,423	21,408	22,244	22,886	26,126
Loyola U., Chicago	206	27,953	27,588	27,786	32,008	29,989	27,380	24,916	22,861	21,131	22,919	23,277	25,824	26,005
Illinois Institute of Technology	207	27,780	33,016	27,515	28,255	25,506	25,479	23,542	26,191	27,742	28,753	24,152	24,649	25,938
Old Dominion U.	208	30,534	34,084	31,877	30,478	30,568	27,857	27,556	32,898	28,792	27,633	26,904	23,158	25,424
Portland State U.	209	25,853	29,660	30,090	27,899	26,147	23,389	25,310	23,645	23,437	26,301	24,752	24,097	25,176
SUNY, Downstate Health Sciences U.	210	25,023	33,964	34,884	31,972	25,802	20,779	25,941	22,496	26,302	26,914	26,454	27,620	25,081
U. North Carolina, Charlotte	211	15,444	14,358	16,997	18,257	16,637	17,028	18,733	19,436	21,366	24,917	26,335	25,804	24,965
North Carolina A&T State U.	212	23,878	22,499	21,468	20,956	22,609	21,802	19,808	23,046	22,212	20,924	19,170	21,835	24,797
U. Wisconsin-Milwaukee	213	23,641	28,336	26,424	23,872	23,726	24,222	22,519	21,673	24,348	22,909	24,713	23,944	23,481
SUNY, Binghamton U.	214	20,766	20,443	20,151	16,749	14,757	16,038	18,363	20,601	22,964	23,626	24,027	22,012	23,413
U. Nebraska, central administration	215	ne	ne	ne	ne	ne	ne	ne	ne	12,561	17,360	22,246	20,349	23,048
South Dakota State U.	216	38,309	41,876	41,941	33,226	29,454	28,488	29,605	27,940	27,013	29,530	22,387	18,505	22,800
Embry-Riddle Aeronautical U.	217	8,241	9,257	12,126	9,906	12,614	9,940	13,957	10,501	12,584	8,890	11,391	14,258	22,699
U. South Alabama	218	14,343	16,259	13,294	13,361	13,478	15,025	17,131	15,856	14,572	19,383	21,359	22,924	22,586
U. North Texas, Denton	219	11,997	12,255	15,921	14,974	15,054	14,286	11,524	14,043	17,514	16,094	12,019	16,810	21,799
U. California, Merced	220	9,192	9,744	10,741	10,733	10,506	12,607	12,166	14,660	14,041	16,513	19,505	16,980	21,418
U. Memphis	221	17,726	16,738	19,113	15,747	18,344	16,250	16,784	16,958	23,463	17,074	15,927	17,538	21,029
Morgan State U.	222	10,035	9,878	15,279	13,301	14,131	12,693	14,305	13,215	11,450	11,844	14,016	15,207	20,739
Wright State U.	223	24,785	27,422	25,519	26,496	27,523	26,814	30,093	35,514	43,359	41,362	35,267	19,393	20,418
Ohio U.	224	18,209	21,938	20,340	20,134	16,425	17,140	14,421	16,017	13,512	14,453	15,466	19,048	20,360
U.S. Military Academy	225	19,763	12,314	11,702	11,612	13,247	13,135	12,281	7,247	6,313	6,432	8,068	13,657	19,344
U. of the Virgin Islands	226	27,291	15,717	22,605	15,627	10,475	19,456	20,951	10,701	10,748	9,903	11,778	13,099	19,127
Delaware State U.	227	9,967	11,901	11,053	11,802	12,464	12,075	14,613	13,909	12,039	11,936	10,841	12,461	19,019
CUNY, Hunter C.	228	17,543	21,191	22,078	21,465	18,825	19,018	19,597	18,179	20,053	21,188	23,638	21,275	18,940
Texas State U.	229	6,815	5,971	6,770	11,088	9,696	11,318	9,786	10,739	12,298	13,503	13,298	15,936	18,755

TABLE 80

## Federally financed 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
Rowan U.	230	1,737	2,071	2,295	1,875	4,588	4,665	5,239	7,110	9,568	11,909	15,276	17,211	18,502
U. Texas Rio Grande Valley	231	na	na	na	na	na	na	16,821	14,766	13,308	13,320	12,590	12,355	17,733
Eastern Virginia Medical School	232	29,291	25,319	24,694	28,728	28,532	28,637	21,459	21,209	21,356	19,408	15,748	14,774	17,616
Desert Research Institute	233	28,307	28,489	27,294	22,814	19,932	16,511	18,883	18,839	17,911	16,745	15,791	16,641	17,341
U. Nebraska, Omaha	234	4,128	5,034	5,589	5,230	4,979	4,484	6,657	7,038	7,043	7,655	8,626	12,949	17,133
U. Puerto Rico, Rio Piedras	235	21,130	24,336	24,867	17,190	17,489	18,177	15,870	11,137	9,826	13,670	13,767	14,953	16,716
U. Guam	236	4,962	5,242	5,311	5,390	6,321	5,455	6,576	8,051	8,425	9,104	9,364	13,862	16,303
Marshall U.	237	18,218	21,433	13,154	13,468	12,684	11,080	9,077	9,036	8,519	9,579	11,070	12,522	15,875
U. Denver	238	10,180	10,463	9,135	10,082	8,794	8,134	8,895	9,681	12,938	13,157	14,551	13,513	15,544
Baylor U.	239	2,842	3,386	3,289	3,435	3,991	3,839	4,214	5,255	5,749	6,885	8,684	10,879	15,512
Louisiana State U., Health Sciences Center, Shreveport	240	13,890	15,316	13,504	11,753	8,490	6,321	6,478	7,055	9,235	12,185	11,452	12,359	15,503
U. North Carolina, Greensboro	241	10,857	12,155	10,943	10,520	10,589	11,106	12,279	10,845	10,441	11,527	10,579	12,357	15,462
South Dakota School of Mines and Technology	242	25,172	28,051	14,338	7,853	7,029	9,286	10,370	10,639	10,240	9,283	10,659	11,587	15,100
Meharry Medical C.	243	24,302	26,779	23,467	21,135	17,754	13,068	13,528	15,613	14,515	16,443	12,573	13,784	15,048
Marquette U.	244	9,115	10,898	9,557	8,491	7,988	9,139	10,136	10,111	10,451	12,613	12,981	13,470	14,883
Tuskegee U.	245	10,986	11,033	11,243	13,132	14,102	12,265	10,386	10,386	10,386	14,825	15,122	15,424	14,880
San Francisco State U.	246	15,407	17,337	17,075	18,638	16,753	14,336	12,277	13,782	13,346	15,149	15,514	15,670	14,868
U. Massachusetts, Boston	247	17,787	15,040	17,649	13,471	14,544	15,464	17,326	16,308	16,852	16,117	15,007	14,938	14,823
U. Alaska, Anchorage	248	8,485	9,352	10,041	8,799	7,212	8,015	11,282	11,592	12,530	13,665	15,128	14,852	14,809
Southern Methodist U.	249	12,142	17,819	15,839	13,516	18,427	11,806	12,910	11,978	11,568	15,219	15,559	14,803	14,798
California State U., Northridge	250	11,122	8,729	13,965	7,778	11,007	10,889	10,136	12,952	13,822	15,543	16,478	13,363	14,692
Rutgers, State U. New Jersey, Newark	251	12,243	17,503	19,296	12,420	11,014	11,118	12,662	15,171	15,129	14,063	14,725	14,891	14,641
CUNY, Queens C.	252	13,496	15,491	14,829	14,689	15,809	13,532	13,966	11,780	11,882	12,862	12,208	11,779	14,611
Texas Tech U., Health Sciences Center	253	12,950	14,790	13,944	14,804	9,480	9,949	9,943	8,995	7,477	11,262	12,977	12,114	14,602

TABLE 80

## Federally financed 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	254	ne	ne	ne	ne	ne	3,713	3,757	5,792	6,438	i	7,084	i	7,732	12,007	14,362									
Jackson State U.	255	34,927	36,460	33,342	27,285	19,898	18,449	19,934	18,997	16,990		16,156		13,560	12,939	14,261									
U. Maryland Center for Environmental Science	256	12,123	18,007	16,081	16,852	13,202	11,993	12,156	14,482	14,276		16,573		14,622	13,242	14,240									
Kent State U.	257	13,311	13,334	13,425	10,009	9,350	9,594	8,733	9,204	10,265		12,576		13,406	13,620	14,228									
California Polytechnic State U., San Luis Obispo	258	11,396	8,296	9,618	9,442	8,903	9,651	10,966	10,035	9,313		9,574		9,765	10,785	14,172									
U. Puerto Rico, Mayaguez	259	12,505	18,269	19,536	13,830	13,638	15,313	14,403	13,585	14,092		15,653		15,842	12,683	13,923									
Texas A&M U.-Corpus Christi	260	7,647	7,225	5,387	5,990	7,085	9,155	7,078	9,057	11,694		13,131		12,453	9,782	13,622									
Southern Illinois U., Carbondale	261	22,209	23,696	22,055	18,398	16,288	14,895	14,574	13,421	12,733		12,625		12,735	12,655	13,582									
U. South Dakota	262	16,353	14,337	13,601	14,991	11,932	8,464	8,827	11,117	12,346		13,312		12,899	11,541	13,503									
Albany Medical C.	263	15,758	13,884	11,845	10,278	9,716	9,481	10,714	11,040	10,243		11,827		12,940	13,166	13,384									
CUNY, Advanced Science Research Center	264	na	na	na	na	na	257	ne	2,355	4,027		6,859		9,208	11,840	12,580									
North Carolina Central U.	265	6,870	9,043	10,573	7,750	9,320	10,293	9,691	10,627	10,728		12,235		11,883	9,831	12,561									
U. Hawaii, system office	266	ne	ne	ne	ne	ne	ne	ne	ne	12,328		12,052		13,367	12,688	12,511									
CUNY, Graduate School of Public Health and Health Policy	267	na	na	na	na	na	na	na	na	5,080		5,572		8,722	12,254	11,880									
Creighton U.	268	11,850	14,080	14,209	i	13,272	i	11,427	i	9,164	i	10,406	i	7,787	i	5,601	i	8,113	i	7,444	i	8,426	i	11,799	i
Xavier U. Louisiana	269	5,669	6,673	7,177	5,856	7,077	7,735	10,487	10,901	9,971		8,526		9,628	11,074	11,718									
Prairie View A&M U.	270	8,623	11,041	10,561	9,077	8,259	7,958	7,896	8,674	8,386		9,246		9,134	9,315	11,425									
California State U., Long Beach	271	12,096	11,570	i	11,044	i	10,517	7,689	6,047	10,960		12,991		13,704	13,380	11,846	10,849	11,132							
Hampton U.	272	14,455	12,292	15,290	12,620	11,153	14,619	13,572	15,908	13,669		12,943		10,842	11,181	11,049									
U. Akron	273	11,943	12,833	16,605	19,600	20,187	14,510	25,362	16,124	12,280		11,627		10,509	8,953	11,015									
Tennessee State U.	274	6,936	7,732	9,393	9,354	11,886	10,920	11,590	9,226	9,336		8,449		19,052	15,066	i	10,859								
Charles R. Drew U. of Medicine and Science	275	20,430	20,679	19,733	17,144	19,412	12,992	12,089	14,461	10,198		10,427		9,863	9,945	10,656									

TABLE 80

## Federally financed 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
Chapman U.	276	1,429	1,215	1,465	2,227	2,170	2,348	2,951	3,414	3,780	5,359	7,313	7,881	10,454
Florida Institute of Technology	277	8,903	7,387	7,189	7,112	7,706	8,251	8,714	8,440	8,333	10,043	10,448	12,386	10,429
American U.	278	6,263	6,549	5,254	5,613	7,426	8,444	8,280	7,601	11,237	13,762	13,491	9,064	10,345
U. Colorado Denver <sup>c</sup>	279	na	na	na	na	na	na	na	na	na	na	na	9,058	10,245
U. Massachusetts, Dartmouth	280	11,236	12,253	10,329	8,076	8,413	7,134	6,463	7,118	6,595	6,957	6,066	7,626	10,239
Teachers C., Columbia U.	281	6,478	8,433	10,120	8,492	8,909	12,666	11,373	10,194	8,925	8,054	7,614	8,521	10,177
U.S. Naval Academy	282	10,750	10,243	8,868	10,142	10,216	8,978	11,006	12,946	13,331	12,851	12,281	10,247	10,147
Missouri State U.	283	6,051	4,756	3,697	3,129	3,027	3,141	2,633	2,659	3,977	4,907	12,232	8,928	10,082
Central Michigan U.	284	2,301	4,315	4,965	5,325	5,982	5,108	4,883	5,550	7,121	8,100	7,429	6,919	9,764
Northern Illinois U.	285	16,907	11,226	12,311	12,178	8,697	8,915	9,679	6,164	6,925	6,705	6,025	9,014	9,725
East Tennessee State U.	286	6,121	7,705	8,052	6,825	4,865	4,664	5,655	5,870	7,168	7,688	7,329	8,310	9,714
Northeast Ohio Medical U.	287	4,009	4,081	3,816	5,244	6,582	7,607	9,181	10,043	9,743	10,107	10,684	9,999	9,400
Oakland U.	288	7,024	9,001	8,168	6,855	5,986	5,339	6,154	6,414	5,733	6,690	5,058	7,426	9,369
Alcorn State U.	289	9,256	8,655	8,598	8,321	7,447	6,784	6,387	8,634	7,372	7,540	7,023	7,593	9,360 i
Nova Southeastern U.	290	5,669	6,829	6,570	5,334	5,906	5,856	6,922	7,672	7,772	8,911	10,452	10,386	9,253
Miami U.	291	11,546	11,476	12,447	11,314	10,311	9,278	7,699	7,568	7,924	7,680	8,829	8,854	9,147
Loma Linda U.	292	27,175	30,899	23,447	24,991	19,044	21,082	16,118	15,192	13,806 i	12,548 i	11,289 i	10,031	9,134
New York Medical C.	293	21,095	21,013	16,471	13,806	11,421	11,326	10,772	9,000 i	8,141 i	11,061 i	12,106	10,739	9,070
U. Maryland, Eastern Shore	294	8,583	8,587	6,955	8,511	8,902	9,284	7,853	7,265	4,890	6,983	8,084	8,346	9,062
Lincoln U., Jefferson City	295	5,984	7,084	6,306	4,989	5,460	5,492	4,953	4,148	2,498	2,700	3,636	5,621	8,988
Idaho State U.	296	13,591	16,821	15,711	12,738	10,566	11,510	11,827	11,084	9,737	7,222	7,693	7,059	8,925
Alabama A&M U.	297	22,154	21,355 i	21,322 i	21,290 i	21,257 i	21,222 i	17,863 i	14,566 i	11,267 i	7,968 i	5,432 i	7,152 i	8,874 i
U. of the District of Columbia	298	1,946	2,313	2,430	2,168	1,627	1,434	2,451	2,659	2,021	2,526	2,020	5,801	8,555
Clarkson U.	299	9,408	9,531	7,061	5,275	5,462	5,436	6,183	6,538	7,814	8,350	6,876	6,872	8,342
California State U., Los Angeles	300	7,027	8,296	6,739	6,948	4,788	3,794	3,452	6,499	8,530	9,088	8,088	6,932	8,146
Western Michigan U. and Homer Stryker M.D. School of Medicine	301	10,120	11,444	8,295	7,547	7,185	7,216	6,863	7,447	6,948	5,654	5,374	7,853	7,736

TABLE 80

## Federally financed 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
SUNY, C. of Environmental Science and Forestry	302	8,907	8,732	8,557	8,382	5,564	7,784	8,109	7,658	6,854	7,632	7,718	6,863	7,678
Tennessee Technological U.	303	6,958	5,119	4,154	3,566	3,662	3,508	4,015	4,808	5,269	5,996	6,338	7,261	7,612
Rosalind Franklin U. of Medicine and Science	304	8,350	9,317	10,084	11,202	9,754	9,368	8,478	8,828	9,249	8,865	8,504	9,357	7,292
Fort Valley State U.	305	4,586	3,452	3,334	3,329	4,249	4,079	4,844	5,068	3,700	4,433	4,806	4,429	7,265
California State U., San Marcos	306	3,548	3,548	3,548	3,550	3,177	3,709	4,591	4,869	6,373	8,007	10,310	7,926	7,193
Texas A&M U.-Kingsville	307	5,067	4,765	4,980	4,988	6,415	5,483	5,910	5,827	5,640	6,874	8,253	7,822	6,834
Texas Southern U.	308	3,638	3,806	4,287	4,741	2,764	2,801	2,825	3,654	2,368	3,238	5,590	4,952	6,768
Western U. of Health Sciences	309	885	900	1,268	1,130	1,368	1,099	2,299	2,714	2,562	2,573	4,055	5,020	6,202
U. North Carolina, Wilmington	310	13,026	12,933	10,032	7,599	4,480	4,519	4,595	4,834	5,001	6,405	5,984	6,114	6,147
California State U., Fullerton	311	6,710	7,957	6,477	6,264	6,325	4,640	3,651	3,865	4,610	4,117	4,102	4,535	6,124
U. Minnesota, Duluth	312	6,427	8,372	7,560	7,264	5,940	10,025	8,055	6,033	5,520	7,082	6,393	5,282	6,094
U. Arkansas, Little Rock	313	6,578	7,995	7,894	6,076	4,559	3,736	4,473	4,220	4,942	6,114	6,660	6,438	6,043
Clark Atlanta U.	314	7,229	7,040	8,447	7,576	7,241	7,439	6,017	5,752	5,611	5,550	5,213	5,282	5,895
California State U., Sacramento	315	5,032	6,145	4,878	6,893	4,769	5,148	4,773	5,876	5,620	5,238	4,892	4,319	5,884
California State U., Fresno	316	3,089	3,589	3,517	2,682	2,852	3,040	2,979	3,162	3,925	2,897	3,004	3,593	5,838
Illinois State U.	317	3,449	3,264	2,954	3,203	3,463	2,872	2,878	2,742	2,742	4,390	3,639	5,194	5,797
U. New Orleans	318	14,185	12,475	11,481	9,729	8,716	6,787	6,617	5,502	5,246	4,272	3,741	3,566	5,764
Virginia State U.	319	5,080	5,642	6,852	6,108	5,321	4,848	5,017	4,357	4,814	5,486	4,630	3,991	5,751
U. West Florida	320	2,310	1,505	809	646	883	1,061	684	793	1,149	1,210	2,688	3,689	5,733
Western Washington U.	321	4,137	4,153	3,714	3,287	3,425	3,879	3,972	4,216	3,884	3,842	3,838	3,963	5,660
Montana Technological U.	322	5,321	4,999	3,293	3,507	3,202	3,420	3,916	5,019	4,691	4,926	4,322	6,133	5,600
Villanova U.	323	6,367	6,817	5,518	4,218	5,008	4,563	4,334	3,968	3,955	3,956	4,476	5,105	5,591
Central State U.	324	2,544	3,475	3,340	2,686	2,000	1,508	1,546	1,491	2,299	2,517	3,097	4,165	5,576
Louisiana Tech U.	325	9,715	10,351	8,296	7,593	6,577	5,433	5,013	5,438	5,710	6,303	7,000	6,234	5,568

TABLE 80

## Federally financed 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. Tulsa	326	6,819	7,547	6,615	6,041	5,487	5,885	6,037	5,816	4,440	3,891	4,555	5,524	5,565
Duquesne U.	327	5,032	5,103	4,614	3,289	3,980	4,394	4,973	4,959	4,944	4,316	4,579	4,435	5,562
U.S. Army War C.	328	ne	ne	ne	ne	ne	ne	ne	ne	ne	2,146	ne	4,662	5,496
Texas Christian U.	329	2,161	2,483	3,253	3,767	3,690	3,291	2,671	2,523	2,311	2,211	2,840	3,984	5,481
Bowling Green State U.	330	4,963	6,162	6,957	9,287	6,520	4,067	4,221	3,565	3,275	3,878	4,555	5,189	5,437
U. Hawaii, Hilo	331	10,491	5,243	14,195	10,989	8,522	12,718	9,401	5,461	5,264	4,924	5,274	5,510	5,292
Morehouse C.	332	7,704	8,280	8,856	9,169	6,919	5,836	4,199	3,663	4,365	4,427	4,686	4,102	5,056
Tarleton State U.	333	6,379	6,036	5,086	3,525	3,565	3,801	4,484	4,602	4,288	4,632	4,139	4,620	5,055
California State U., Monterey Bay	334	3,167	4,713	4,341	4,961	3,862	3,459	3,654	3,574	3,607	3,746	3,889	3,813	5,051
U. Tennessee, Chattanooga	335	4,866	2,929	3,199	2,056	1,486	1,949	1,092	1,144	1,490	2,393	3,915	4,416	5,031
Kentucky State U.	336	3,501	3,146	4,919	3,906	4,335	4,590	5,146	5,382	5,618	4,691	4,456	3,716	4,739
California State Polytechnic U., Pomona	337	2,523	2,964	2,635	2,945	2,165	1,826	2,199	3,225	4,181	3,131	5,300	4,267	4,643
U. Detroit Mercy	338	629	602	508	ne	317	890	2,565	2,296	4,385	4,908	4,201	3,815	4,640
Ball State U.	339	1,712	1,701	2,171	1,267	1,617	1,828	2,813	2,083	2,749	2,607	2,290	2,099	4,635
MGH Institute of Health Professions	340	ne	408	ne	ne	ne	3,766	2,228	1,839	2,957	3,494	3,014	2,500	4,628
U. Colorado Colorado Springs	341	6,453	5,420	2,935	2,471	3,150	3,791	3,717	4,267	3,734	2,752	3,110	3,681	4,606
CUNY, Brooklyn C.	342	5,002	6,724	6,305	5,831	5,709	5,439	5,836	4,968	4,149	4,210	4,385	4,335	4,448
Winston-Salem State U.	343	ne	743	1,280	436	ne	ne	1,069	1,175	1,289	1,468	3,234	4,190	4,442
Wesleyan U.	344	4,475	5,361	4,612	3,930	3,313	3,582	3,393	3,817	3,990	4,211	3,559	3,452	4,390
U. Washington, Tacoma	345	47	108	130	0	0	1,386	1,595	727	1,523	2,451	2,899	3,130	4,331
C. Charleston	346	10,105	4,438	5,259	5,354	4,114	4,863	5,026	5,020	3,653	3,689	2,781	3,839	4,305
U. Missouri, Saint Louis	347	5,886	8,214	7,990	6,821	5,293	3,984	4,343	4,710	5,889	6,759	5,840	5,299	4,278
West Virginia State U.	347	2,759	3,193	3,945	3,292	5,646	5,561	4,126	5,072	5,361	4,526	3,993	4,119	4,278
Southern U. and A&M C., Agricultural Research and Extension Center	349	ne	4,049	5,926	3,481	3,363	2,514	2,415	2,736	3,057	3,057	2,085	3,588	4,261
CUNY, John Jay C. of Criminal Justice	350	3,079	3,410	2,786	2,839	2,164	2,342	2,467	1,833	2,949	1,154	2,472	750	4,162

TABLE 80

## Federally financed 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
Middle Tennessee State U.	351	2,428	1,595	4,207	1,897	1,022	1,609	2,564	2,212	2,206	1,572	1,896	4,098	4,088
Western Illinois U.	352	658	742	3,855	1,183	735	350	ne	1,198	1,535	1,486	1,781	3,163	4,032
Florida Gulf Coast U.	353	2,661	2,740	1,902	1,553	1,153	1,139	1,377	1,105	764	944	2,639	2,410	4,008
Dakota State U.	354	ne	402	3,555	831	908	765	1,448	1,989	3,273	3,006	3,957	2,603	3,976
Arkansas State U., Jonesboro	355	6,169	8,591	9,595	6,268	3,849	4,315	4,826	4,396	4,371	4,867	4,712	4,249	3,932
Montclair State U.	356	1,113	2,552	3,265	2,944	1,900	2,116	2,301	1,974	2,942	3,050	2,766	2,816	3,917
California State U., San Bernardino	357	2,119	i 6,212	5,914	5,633	6,004	5,628	5,920	5,423	5,436	5,991	3,574	3,263	3,857
Chicago State U.	358	1,598	2,014	565	ne	ne	ne	910	ne	1,154	894	ne	ne	3,699
U. New England	359	2,829	3,242	3,359	4,271	4,762	4,856	5,298	5,918	4,976	5,269	5,064	3,864	3,660
U. Wisconsin-Superior	360	5,197	5,638	i 5,302	i ne	1,941	i ne	ne	ne	1,916	1,527	1,382	1,843	3,635
Barnard C.	361	2,702	3,226	3,122	2,530	2,190	2,166	2,794	2,645	2,291	2,701	2,680	3,422	3,605
Southern U. and A&M C., Baton Rouge	362	5,920	6,057	i 6,194	3,998	2,714	3,258	2,778	2,812	2,902	2,680	2,567	3,395	3,545
South Carolina State U.	363	6,333	6,797	i 7,261	2,958	i 2,231	i 1,503	4,376	i 13,254	13,846	i 3,010	3,123	i 3,236	i 3,513
Langston U.	364	3,313	3,778	3,957	4,153	5,816	5,621	8,941	7,960	i 7,146	i 6,331	8,584	2,899	3,484
Fisk U.	365	7,686	4,631	4,058	5,429	i 7,366	7,123	i 7,512	4,327	2,781	4,473	3,811	3,926	3,472
Hope C.	366	2,523	2,414	1,912	1,993	1,834	1,436	1,251	1,157	1,088	1,349	1,126	1,957	3,468
Youngstown State U.	367	2,067	3,304	2,159	1,825	1,867	2,346	1,083	3,257	3,634	2,878	3,190	1,717	3,464
National Defense U.	368	ne	ne	ne	4,906	6,712	4,832	5,720	5,723	2,219	2,155	2,583	2,586	3,420
Fordham U.	369	3,426	3,086	3,193	3,748	3,239	2,789	4,760	4,750	4,210	3,171	2,834	3,113	3,384
Rutgers, State U. New Jersey, Camden	370	1,765	1,259	1,248	1,511	1,728	1,984	2,637	2,322	1,495	1,096	1,952	2,841	3,349
Oklahoma State U., Center for Health Sciences	371	817	377	83	61	31	321	697	984	959	944	2,602	2,304	3,327
U. North Florida	372	4,516	5,048	3,760	1,424	1,045	1,184	1,333	1,287	1,325	1,243	1,167	1,917	3,309
U. Arkansas, Pine Bluff	373	3,947	4,696	4,540	4,550	3,875	3,912	4,233	3,747	3,648	4,299	4,393	3,960	3,306
CUNY, Lehman C.	374	2,348	i 2,700	2,208	1,874	2,247	2,371	3,625	3,713	4,177	2,181	2,614	2,606	3,276
Sam Houston State U.	375	4,887	2,098	2,422	1,729	1,733	1,488	1,830	1,872	2,200	2,316	2,444	2,472	3,216
U. North Texas, Health Science Center	376	25,847	26,132	26,627	24,187	21,943	22,422	27,163	26,368	27,579	27,260	25,917	32,464	3,172
U. Washington, Bothell	377	435	363	323	0	711	1,222	546	747	917	1,800	1,260	1,903	3,145

TABLE 80

## Federally financed 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			
Western Kentucky U.	378	6,606	6,079	5,639	4,161	2,916	2,983	3,346	3,285	2,860	3,128	2,977	2,306	3,127			
Bowie State U.	379	ne	1,910	1,739	1,422	1,761	1,497	1,507	987	1,100	876	1,368	980	3,112			
Citadel Military C. South Carolina	379	ne	157	ne	ne	ne	ne	ne	ne	ne	ne	470	1,258	3,112			
DePaul U.	381	3,874	4,601	4,800	4,236	4,818	4,436	4,601	5,393	4,496	4,331	5,024	4,466	3,084			
Norfolk State U.	382	5,413	6,345	7,739	5,465	6,381	4,918	6,947	7,101	6,877	7,935	7,121	3,976	3,082			
Gallaudet U.	383	4,584	3,876	3,712	3,916	2,586	2,064	2,133	2,273	2,142	1,105	899	2,130	3,014			
New York Institute of Technology	384	250	369	950	2,097	3,049	2,070	1,536	983	1,439	3,072	1,485	1,970	2,988			
Alabama State U.	385	13,340	12,340	13,607	1,927	2,236	2,303	2,372	2,253	2,434	2,577	2,582	2,338	2,930			
Wellesley C.	386	3,406	2,461	2,895	3,130	3,579	2,971	5,065	3,725	3,668	3,447	4,024	3,469	2,915			
CUNY, C. Staten Island	387	949	1,470	1,242	1,302	1,241	1,021	1,694	1,524	1,737	i	2,120	2,262	2,875			
Amherst C.	388	966	1,775	1,810	i	1,846	1,543	1,835	1,207	1,228	1,630	2,118	1,775	2,862			
Pennsylvania State U., Behrend	389	887	1,029	1,232	1,341	1,596	1,474	2,397	1,658	1,025	1,424	543	2,014	2,850			
Towson U.	390	1,806	2,630	1,771	2,015	1,870	1,325	1,449	1,453	2,133	2,141	1,999	1,743	2,809			
U. Central del Caribe	391	6,504	6,613	6,304	5,946	6,407	6,147	6,290	4,866	2,937	2,705	2,743	2,492	2,807			
Kennesaw State U.	392	1,105	983	1,127	i	1,271	1,397	713	1,037	1,182	1,306	1,738	1,696	2,753			
Sonoma State U.	393	690	559	ne	1,800	1,581	964	531	ne	ne	ne	936	2,212	2,730			
James Madison U.	394	5,563	5,218	6,476	4,604	2,997	2,418	2,189	2,172	1,640	2,075	1,973	2,189	2,724			
Haverford C.	395	2,698	1,851	1,478	1,547	1,309	1,476	972	1,031	1,660	2,339	2,680	2,455	2,722			
Southern Illinois U., Edwardsville	396	4,140	3,946	2,808	2,896	2,066	2,111	3,077	3,472	2,907	2,951	2,564	2,800	2,629			
Purdue U., Northwest	397	na	na	na	na	na	na	na	2,218	1,927	1,513	1,969	2,165	2,621			
Long Island U.	398	545	i	590	i	577	i	567	ne	ne	346	1,183	1,416	1,647	1,277	2,538	2,589
Northern Kentucky U.	399	1,476	1,573	1,474	1,239	1,396	1,246	1,061	1,047	780	1,223	1,415	2,155	2,585			
Occidental C.	400	644	898	1,079	1,105	1,365	853	1,260	701	888	1,614	1,567	2,284	2,551	i		
Bucknell U.	401	2,626	2,600	1,514	1,581	1,724	1,489	1,368	i	1,317	i	1,266	1,403	1,730	i	1,696	2,532
U. Michigan, Dearborn	402	2,801	4,291	2,881	3,103	2,882	1,844	2,035	1,860	1,341	1,722	2,244	2,366	2,528			
U. of Health Sciences and Pharmacy in St. Louis	403	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	3,767	4,063	2,523			
U. San Diego	404	1,332	1,139	1,903	2,002	2,435	1,799	2,121	2,299	2,362	2,494	2,048	1,997	2,504			
Clark U.	405	3,243	3,776	2,970	2,649	2,643	2,297	1,930	2,465	2,949	3,489	3,350	2,754	2,500			
U. New Haven	406	ne	199	235	728	344	i	183	2,157	474	3,853	2,786	1,440	2,069	2,447		



TABLE 80

## Federally financed 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
California State Polytechnic U., Humboldt	407	2,965	3,292	3,575	2,819	2,498	3,280	4,455	3,796	3,024	2,103	2,399	1,975	2,421
St. John's U., New York	408	1,161	1,181	1,095	868	879	942	868	961	1,528	1,666	1,805	1,931	2,416
Central Washington U.	409	4,038	2,238	1,840	1,242	1,108	1,575	1,580	2,287	1,840	2,159	1,701	1,778	2,415
Spelman C.	410	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
California State U., East Bay	411	643	921	536	310	ne	ne	479	ne	ne	ne	1,018	1,431	2,382
Appalachian State U.	412	1,662	2,398	2,264	1,722	2,186	1,795	1,896	2,629	1,840	1,298	1,375	1,313	2,372
Georgia Southern U.	413	1,882	1,520	1,341	1,990	3,123	2,923	2,540	2,826	1,758	1,765	1,759	3,298	2,356
Smith C.	414	2,755	3,101	2,626	2,824	3,042	3,575	2,563	3,352	3,288	2,887	2,483	2,249	2,252
Santa Clara U.	415	3,494	1,992	1,953	1,641	1,992	1,224	1,634	1,406	1,520	1,266	1,487	1,756	2,249
Middlebury C.	416	2,245	2,289	2,513	1,760	1,320	1,535	1,736	2,002	1,701	1,558	1,546	2,639	2,248
U. Southern Maine	417	2,498	3,592	5,415	4,515	3,071	2,460	1,848	2,252	2,237	2,275	2,128	2,020	2,201
Toyota Technological Institute, Chicago	418	ne	496	ne	ne	ne	1,392	1,410	1,581	1,759	1,934	3,038	3,090	2,199
Murray State U.	419	2,074	2,471	1,904	816	601	793	555	1,200	1,587	2,607	1,911	2,641	2,161
Troy U.	420	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,536	1,341	2,150
California State U., Dominguez Hills	421	2,658	2,671	2,689	2,738	1,384	1,035	1,124	753	1,072	1,135	1,360	1,528	2,143
U. Northern Iowa	422	499	1,597	1,982	2,146	2,007	1,847	2,267	2,153	1,697	2,343	1,792	1,978	2,132
Saint Joseph's U.	423	960	683	565	292	147	169	160	129	163	261	775	652	2,122
Tougaloo C.	424	2,978	2,542	1,865	1,857	1,894	1,868	1,747	2,252	2,860	2,293	2,102	2,092	2,098
Dine C.	425	ne	911	ne	ne	ne	ne	ne	ne	1,238	1,126	347	ne	2,091
Morehead State U.	426	1,291	1,656	1,591	1,798	961	1,064	1,668	2,051	1,672	1,471	1,657	1,709	2,086
SUNY, C. of Optometry	427	2,829	3,336	3,162	2,757	2,567	2,490	2,487	2,073	1,944	1,823	1,688	2,105	2,080
Fort Lewis C.	428	325	511	ne	ne	ne	ne	ne	ne	ne	1,284	1,228	1,730	2,053
U. North Carolina, Asheville	428	1,367	1,519	1,565	1,505	1,174	1,452	2,202	1,714	1,309	1,262	1,848	1,775	2,053
U. Louisiana, Monroe	430	1,470	1,971	1,752	976	1,705	1,479	2,016	1,838	1,789	1,949	2,025	1,465	1,993
Harvey Mudd C.	431	2,049	2,594	2,038	2,004	1,457	1,633	2,320	1,521	1,762	1,619	1,748	1,443	1,956
Saginaw Valley State U.	432	77	525	330	203	ne	223	228	595	1,215	2,332	1,809	1,899	1,940
Reed C.	433	796	772	678	897	1,092	1,638	1,690	415	1,065	1,423	1,635	1,735	1,921
Carleton C.	434	1,643	2,132	2,212	3,326	3,046	1,077	832	727	933	1,891	1,236	1,493	1,907
Pacific U.	435	565	75	198	1,669	539	350	708	2,830	1,559	2,731	1,719	1,528	1,903

TABLE 80

## Federally financed 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
Savannah State U.	436	1,774	2,518	1,874	2,514	2,127	1,796	2,245	1,388	1,778	1,709	1,804	1,804	1,881
C. New Jersey	437	447	188	ne	ne	ne	ne	ne	874	778	ne	888	1,016	1,860
West Texas A&M U.	438	2,100	1,340	1,785	1,314	1,324	1,635	1,523	1,108	1,104	1,278	1,253	1,915	1,850
Hawaii Pacific U.	439	ne	525	858	850	1,116	789	2,071	1,921	1,905	1,809	1,699	1,741	1,848
Eastern Michigan U.	440	3,375	3,802	3,081	2,194	932	1,274	1,200	1,005	1,137	1,971	2,520	2,029	1,828
Hofstra U.	441	920	948	1,117	666	997	1,836	1,762	1,307	1,060	915	606	960	1,820
CUNY, Baruch C.	442	1,010	1,025	1,209	547	548	838	1,214	1,027	1,154	1,359	1,470	1,682	1,819
Grand Valley State U.	443	1,078	1,610	i 2,142	i 2,675	2,151	2,033	1,479	1,365	1,719	1,663	1,783	1,407	1,802
Indiana U. Pennsylvania	444	489	616	669	101	169	ne	321	1,303	891	1,773	1,221	1,432	1,797
U. Nebraska, Kearney	445	289	1,018	714	838	652	513	870	975	1,014	1,227	1,259	1,286	1,794
Loyola Marymount U.	446	894	2,759	1,139	1,154	906	809	638	705	616	982	997	1,339	1,786
Bates C.	447	971	1,485	1,555	1,390	1,114	2,004	1,156	1,053	1,121	1,607	1,885	2,079	1,785
Texas Tech U., Health Sciences Center, El Paso	448	ne	ne	ne	ne	5,316	2,689	2,953	2,329	2,489	2,238	1,675	1,566	1,751
California State U., Chico	449	1,466	1,209	1,332	1,668	1,085	743	851	577	1,051	1,359	1,943	1,706	1,725
Bowdoin C.	450	1,806	1,876	3,300	3,240	2,330	2,154	2,452	1,811	2,026	1,777	1,862	1,767	1,702
Yeshiva U.	451	163,399	197,032	201,397	193,831	186,885	180,791	30,266	816	683	380	772	1,509	1,695
Franklin and Marshall C.	452	1,857	1,397	1,116	879	867	991	945	1,711	1,760	1,580	1,202	1,363	1,680
California State U., Bakersfield	453	637	727	641	1,721	1,140	1,854	1,662	2,416	3,243	4,245	4,244	3,167	1,675
Christopher Newport U.	454	1,035	1,587	1,230	1,083	1,263	938	779	859	1,068	1,285	1,347	1,487	1,674
U. Central Oklahoma	455	1,059	1,146	750	765	993	1,422	1,081	850	1,048	1,277	1,266	i 1,329	i 1,668
Northeastern Illinois U.	456	288	311	ne	ne	588	ne	ne	805	1,877	2,078	1,378	1,370	1,663
CUNY, York C.	457	ne	1,507	812	693	ne	288	ne	ne	ne	1,477	1,480	889	1,638
California State U., Channel Islands	458	ne	311	ne	316	520	825	244	122	269	500	513	953	1,621
Swarthmore C.	459	901	1,005	1,115	1,203	1,261	1,352	1,393	1,402	1,343	1,367	1,011	1,329	1,612
Texas A&M International U.	460	1,481	1,191	985	868	977	658	911	1,722	1,980	1,814	941	1,203	1,611
U. Richmond	460	2,050	1,705	2,097	1,747	2,004	1,738	1,924	1,870	1,628	1,545	1,588	1,522	1,611
Midwestern U.	462	285	438	427	369	517	654	1,060	1,184	1,278	1,045	936	1,506	1,609

TABLE 80

## Federally financed 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
New England C. of Optometry	462	726	1,236	1,685	1,588	533	419	618	ne	837	928	785	1,623	1,609
Black Hills State U.	464	1,355	1,097	1,118	1,123	662	635	1,127	812	813	860	1,234	1,048	1,600
Des Moines U.	465	62	91	ne	ne	224	ne	363	842	897	805	425	1,019	1,589
U. Texas, Tyler	466	1,689	977	2,084	1,325	280	309	352	613	718	813	774	929	1,585
Colgate U.	467	1,519	1,058	1,497	1,320	1,153	1,109	1,217	1,096	1,389	1,202	858	1,440	1,570
Palmer C. of Chiropractic, Davenport	468	3,009	3,344	2,906	1,991	1,775	i	1,558	1,485	1,189	1,100	1,100	1,400	1,733
U. Texas of the Permian Basin	469	627	692	786	716	489	595	510	328	50	ne	736	1,610	1,538
SUNY, Geneseo	470	679	1,278	1,499	609	455	635	908	992	998	1,184	950	1,187	1,514
Mount Holyoke C.	471	1,346	1,883	1,790	1,775	2,374	2,314	2,848	3,168	2,210	2,074	1,442	1,539	1,511
Texas A&M U.-Commerce	472	1,078	941	1,182	1,319	1,067	1,121	582	604	956	780	1,004	1,085	1,494
Texas Woman's U.	472	822	942	1,058	588	423	299	573	407	326	677	882	1,009	1,494
U. Central Arkansas	474	1,560	1,300	1,314	1,033	1,145	1,222	931	1,183	1,113	1,347	1,374	1,135	1,482
Pace U.	475	627	952	1,469	1,054	1,155	1,329	1,170	862	610	1,537	2,120	1,522	1,472
Western Carolina U.	476	1,273	691	931	647	669	740	873	963	992	1,650	1,615	1,625	1,462
U. Alaska, Southeast	477	1,150	941	887	1,001	1,158	1,341	1,502	1,480	1,636	1,235	1,092	1,046	1,392
Colby C.	478	1,015	1,002	1,148	989	943	1,038	1,061	1,038	1,188	1,058	787	623	1,387
CUNY, New York City C. of Technology	479	59	145	ne	ne	ne	ne	ne	ne	1,978	1,795	1,359	884	1,383
Davidson C.	480	1,153	1,053	651	1,574	1,166	1,703	810	1,099	738	895	1,254	1,112	1,370
U. of the Pacific	481	1,667	1,414	749	823	985	1,019	1,879	1,403	2,057	2,144	1,362	1,106	1,351
Trinity U.	482	964	1,046	1,222	1,989	1,535	1,151	956	977	1,116	878	1,195	1,078	1,345
William Paterson U.	483	105	140	ne	ne	ne	ne	299	178	195	626	1,072	1,240	1,318
U. Northern Colorado	484	1,606	1,513	1,117	956	1,867	1,230	1,674	1,752	1,745	1,518	1,233	1,362	1,300
Rhode Island C.	485	ne	1,195	1,140	993	851	726	1,107	860	669	726	1,102	1,470	1,298
U. Ana G. Mendez, Gurabo	486	212	377	446	362	1,008	346	357	423	418	951	946	926	1,292
Lafayette C.	487	1,223	1,421	1,149	1,145	853	1,052	858	1,303	968	838	745	499	1,291
CUNY, Graduate Center	488	2,663	1,652	1,849	2,180	2,127	1,707	1,004	i	830	2,313	2,785	2,206	2,251
Furman U.	489	1,245	984	1,044	1,108	857	1,071	1,068	1,292	1,110	1,106	847	1,028	1,280
Utah Valley U.	489	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,280
Colorado State U., Pueblo	491	364	354	ne	ne	ne	ne	ne	ne	ne	1,282	1,161	1,508	1,278

TABLE 80

## Federally financed 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
Hobart and William Smith Colleges	492	1,030	1,206	914	1,786	666	378	ne	528	ne	1,047	1,072	758	1,264
Bryn Mawr C.	493	932	1,469	1,619	1,853	1,346	1,713	1,641	1,432	1,265	1,052	833	774	1,257
SUNY, Buffalo State	494	1,247	1,958	2,348	1,336	1,076	846	849	860	1,040	1,203	1,240	977	1,255
U. Wisconsin-Stevens Point	495	4,455	3,752	i 3,049	2,131	1,740	i 1,349	i 957	i 1,266	i 1,575	i 1,884	i 2,193	1,776	1,235
Pennsylvania State U., Harrisburg	496	963	1,288	1,161	377	194	565	270	215	292	80	437	1,597	1,234
Butler U.	497	ne	173	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,227
Pomona C.	498	1,038	1,769	1,528	2,144	1,789	1,074	1,579	1,038	867	861	1,123	930	1,217
Seton Hall U.	499	2,206	1,259	679	691	688	736	825	850	724	810	539	1,003	1,185
Lake Superior State U.	500	ne	133	ne	ne	ne	327	272	726	237	ne	ne	ne	1,184
Clafin U.	501	3,226	5,103	5,090	2,556	1,511	1,158	1,726	1,344	1,491	1,735	1,907	1,005	1,179
Nevada State C.	502	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,167
Pittsburg State U.	502	999	1,280	989	791	1,006	448	270	316	195	339	477	759	1,167
Williams C.	504	2,330	2,117	2,029	1,498	1,029	1,700	1,614	1,703	1,458	1,131	1,086	i 1,152	i 1,165
New School	505	1,376	1,512	1,830	2,370	1,892	2,106	2,366	2,126	1,665	1,790	986	960	1,164
U. Puerto Rico, Humacao	506	1,950	i 1,976	1,949	1,452	1,102	669	ne	ne	882	828	1,279	1,137	1,160
Elizabeth City State U.	507	5,352	10,176	3,673	3,767	1,956	1,644	1,619	1,305	960	ne	992	1,266	1,150
Virginia Military Institute	508	451	133	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,137
U. Wisconsin-Oshkosh	509	769	1,100	1,140	971	i 1,005	i 1,040	i ne	1,068	i 1,061	i 1,054	i 1,048	i 1,039	1,114
Albany C. of Pharmacy and Health Sciences	510	1,380	1,634	1,182	1,333	1,643	1,065	380	566	1,092	1,690	1,938	1,900	1,110
New Mexico Highlands U.	511	963	986	704	741	969	ne	1,086	1,015	741	ne	1,034	1,085	i 1,104
U. Oklahoma, Tulsa	512	ne	ne	ne	ne	ne	882	1,046	883	1,531	1,415	1,559	681	1,098
U. Baltimore	513	1,518	2,328	2,391	2,063	2,513	2,390	3,479	2,922	1,642	1,309	1,024	848	1,092
U. of the Incarnate Word	514	ne	111	ne	ne	ne	403	ne	ne	868	1,075	869	1,076	1,078
Coastal Carolina U.	515	1,533	1,439	1,474	1,691	1,281	1,041	858	1,028	1,031	1,294	1,211	944	1,076
Southeastern Louisiana U.	516	942	735	794	815	692	1,212	757	1,027	830	586	884	582	1,074
Claremont McKenna C.	517	1,102	1,061	1,082	i 1,081	i 1,080	i ne	604	754	555	730	741	637	1,070
Fayetteville State U.	518	2,188	1,810	1,421	1,690	2,185	1,792	2,740	2,202	2,251	1,974	799	979	1,060

TABLE 80

## Federally financed 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
California State U., Stanislaus	519	ne	1,037	i 1,070	650	341	174	221	478	734	964	1,284	1,354	1,056
Trinity C., Hartford	520	1,026	1,217	1,432	1,040	1,313	889	893	2,084	794	1,077	1,019	1,348	1,049
Kenyon C.	521	413	358	ne	ne	ne	ne	ne	ne	764	776	714	ne	1,021
St. Edward's U.	522	ne	3,073	2,450	2,640	1,633	4,200	3,600	5,560	1,596	4,893	4,568	3,980	1,010
U. Wisconsin-Green Bay	523	724	631	i 592	i 552	i 512	i 470	i 833	i 604	i 526	i 792	i 859	i 845	i 1,009
Alfred U.	524	1,645	1,964	1,625	1,447	1,310	1,305	1,318	883	1,403	1,580	947	939	1,008
Dillard U.	525	2,711	5,019	i 7,325	7,692	6,889	8,851	7,585	5,592	5,503	1,390	1,164	841	992
Roger Williams U.	526	1,056	1,391	1,362	1,206	1,454	1,124	1,215	1,183	854	828	844	972	982
Milwaukee School of Engineering	527	1,177	1,181	1,207	1,245	1,500	1,335	1,164	775	680	764	613	751	969
U. Wisconsin-La Crosse	528	2,150	2,013	i 1,876	1,240	1,095	1,006	1,250	1,158	1,171	775	809	895	968
Touro U., California	529	999	1,196	1,390	1,351	1,374	1,332	1,199	1,196	1,410	1,540	1,546	1,375	964
Vassar C.	530	1,236	1,552	993	1,136	999	954	1,417	1,579	4,185	i 909	1,055	918	952
Abilene Christian U.	531	537	427	ne	ne	ne	ne	ne	ne	ne	ne	ne	757	934
Calvin U.	532	2,031	556	664	731	1,208	1,034	i 795	880	1,332	900	927	i 928	930
Naval War C.	533	ne	ne	0	i 0	i 0	0	0	3,797	i 4,384	679	724	794	929
U. Hartford	534	820	1,571	1,450	1,165	1,080	992	1,172	1,178	62	1,019	842	766	886
U. Illinois, Springfield	535	332	373	554	503	405	307	527	1,169	1,108	966	971	1,056	881
Austin Peay State U.	536	ne	729	481	364	189	334	301	347	599	295	475	597	870
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	537	ne	106	179	340	523	264	643	206	201	191	342	376	858
U. South Carolina, Aiken	538	122	i 592	ne	937	759	i 689	1,155	2,697	2,437	2,063	2,328	1,880	857
Macalester C.	539	1,044	1,455	1,075	871	878	708	771	970	553	805	647	617	852
Eastern Washington U.	540	46	559	725	1,226	885	955	1,244	1,181	997	811	1,092	772	848
U. Houston-Clear Lake	541	301	818	730	875	739	541	756	753	894	718	632	865	841
West Chester U. Pennsylvania	542	3,531	i 5,691	788	513	392	500	453	618	425	704	575	486	835
Stephen F. Austin State U.	543	4,704	1,385	953	1,055	1,118	1,565	1,011	835	785	1,297	884	814	833

TABLE 80

## Federally financed 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
Franklin W. Olin C. of Engineering	544	ne	666	1,090	946	1,050	1,103	782	473	425	111	255	636	805
Skidmore C.	545	1,872	1,562	1,334	1,448	1,170	969	732	1,179	1,878	2,261	1,827	1,739	796
Northwest Indian C.	546	1,943	1,993	2,044	2,216	1,705	1,154	ne	ne	1,649	2,201	572	683	791
U. Virginia's C. Wise	547	76	38	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,307	786
CUNY, system office	548	ne	ne	819	397	352	828	774	420	1,977	1,347	869	768	764
U. Puerto Rico, Cayey	549	601	871	1,515	1,168	1,143	959	1,105	704	632	963	1,210	1,202	757
Union C., Schenectady	550	1,427	959	867	1,863	1,385	1,080	1,680	554	872	964	462	976	750
Lewis and Clark C.	551	818	684	718	1,490	1,378	872	636	723	834	931	1,268	702	746
U. Puget Sound	552	86	186	ne	ne	ne	ne	ne	459	ne	ne	397	ne	743
Northwestern State U. Louisiana	553	635	683	609	590	494	ne	490	458	490	579	598	738	742
C. Wooster	554	249	512	183	ne	404	386	ne	736	744	456	283	505	730
Stockton U.	555	ne	405	160	ne	380	198	221	ne	246	549	663	486	728
SUNY, C. Brockport	556	521	677	989	755	564	535	639	747	672	638	781	500	723
Augustana U.	557	889	1,169	1,007	809	737	647	ne	890	981	784	ne	1,003	709
Southern Connecticut State U.	558	0	899	605	446	1,620	1,205	981	1,004	766	718	885	613	707
Ithaca C.	559	617	627	774	788	763	570	ne	ne	ne	ne	981	685	703
Colorado C.	560	412	362	307	269	511	570	320	585	259	202	91	197	702
Northland C.	561	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	615	686
U. Wisconsin-Eau Claire	562	1,271	826	786	646	393	ne	660	925	690	742	647	909	681
Claremont Graduate U.	563	4,888	1,050	6,200	7,030	5,517	4,696	3,876	3,056	2,236	1,414	803	626	649
Western New England U.	564	ne	931	325	ne	ne	ne	580	214	ne	ne	ne	ne	648
Keck Graduate Institute	565	ne	1,744	1,671	1,227	1,302	937	895	853	811	769	727	685	643
Florida Polytechnic U.	566	na	na	na	na	na	203	ne	ne	ne	338	252	424	631
Winthrop U.	567	ne	871	935	651	594	676	490	391	442	634	697	679	628
Lamar U.	568	4,184	3,959	3,057	1,604	1,118	297	218	917	1,280	1,604	1,157	1,157	625
U. North Georgia	569	ne	ne	ne	ne	ne	ne	ne	257	198	222	183	435	597
Lawrence Technological U.	570	2,809	2,425	1,106	985	739	971	326	569	457	294	296	252	588
Willamette U.	571	441	419	911	646	672	730	757	739	807	435	222	486	587
SUNY, C. Plattsburgh	572	1,187	726	454	ne	459	717	545	455	1,254	1,142	930	786	584
Indiana State U.	573	990	1,352	1,268	858	1,005	925	954	510	629	821	635	292	579

TABLE 80

## Federally financed 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
Minnesota State U., Mankato	574	2,001	812	667	297	296	357	1,189	522	639	708	525	575	575
Robert Morris U.	575	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	567 i
Connecticut C.	576	954	1,005	1,130	833	514	756	817	777	505	752	483	439	554
Plymouth State U.	576	1,012 i	1,402 i	1,315	1,116	1,261	1,224	925	827	794	ne	ne	ne	554
Sul Ross State U.	578	1,595	1,672	1,073	735	546	333	272	440	553	339	481	505 i	547 i
U. San Francisco	578	335	313	1,842	858	738	503	280	405	310	198	148	255	547
SUNY, Oswego	580	644	871	ne	673	ne	ne	ne	669	661	628	492	415	544
Alaska Pacific U.	581	283	349	ne	ne	ne	532	322	252	217	304	121	187	542
Monmouth U.	582	2,190	1,873	714	ne	635	ne	173	ne	ne	120	110	174	535
Drake U.	583	361	229	ne	560	ne	ne	830	486	262	220	ne	371	525
Northern Michigan U.	584	287	124	ne	ne	ne	ne	228	96	151	258	418	366	513
Grambling State U.	585	993	1,515	1,298	1,077	1,065	915	974	846	778	558	359	436	483 i
Edward Via C. of Osteopathic Medicine	586	ne	707	502	517	250	89	88	94	195	749	566	537	482
U. of St. Thomas (MN)	587	656	720	557	570	352	ne	195	212	320	313	450	1,321	472
Central Connecticut State U.	588	351	662	666	601	433	193	131	208	ne	328	518	508	470
Salisbury U.	589	422	586	360	674	1,155	967	841	806	369	658	204	416	469
West Virginia School of Osteopathic Medicine	590	22	17	ne	ne	ne	ne	ne	ne	ne	ne	414	418	468
Canisius C.	591	154	181	ne	ne	ne	ne	ne	1,330	1,044	943	ne	597	454
Seattle U.	592	467 i	622	530	ne	848	890	809	748	873	574	487	262	452
Manhattan C.	593	166	245	ne	ne	ne	ne	ne	ne	ne	245	398	397	440
Whitman C.	594	1,072	957	398	ne	ne	ne	ne	ne	ne	701	558	ne	434
U. Wisconsin-Platteville	595	46	50 i	ne	ne	287 i	266 i	ne	299 i	ne	294 i	292 i	321 i	396 i
Texas A&M U.-San Antonio	596	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	394
Kean U.	597	ne	550	1,191	347	ne	244	8	ne	ne	ne	522	242	388
Marshall B. Ketchum U.	598	ne	ne	ne	ne	48	224	375	368 i	354 i	336 i	323 i	343 i	383 i
SUNY, Cobleskill	599	1,382	909	ne	844	ne	ne	ne	ne	ne	ne	ne	ne	379
Johnson C. Smith U.	600	ne	ne	ne	ne	ne	ne	483	603	994	913	1,087	405 i	370
Pepperdine U.	601	199	172	428	465	586	724	966	343	289	399	261	410	364
Elon U.	602	ne	40	111	161	143	92	194	213	285	264	106	138	361

TABLE 80

## Federally financed 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-Downtown	603	905	1,178	1,824	464	496	773	620	828	703	130	274	504	345
Oregon Institute of Technology	604	ne	193	ne	ne	ne	63	1,268	694	217	437	326	252	340
Suffolk U.	604	ne	299	198	351	313	217	411	573	ne	ne	842	634	340
Hamilton C.	606	812	1,085	1,070	848	413	202	173	48	78	88	61	259	329
U. North Carolina, general administration	607	ne	ne	ne	ne	ne	337	174	161	98	213	562	342	319
St. Catherine U.	608	ne	265	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	300
California Lutheran U.	609	ne	171	ne	ne	ne	ne	ne	ne	ne	159	203	ne	298
Azusa Pacific U.	610	ne	970	609	ne	ne	323	606	334	199	125	128	206	282
Purdue U., Fort Wayne	611	1,231	1,490	1,132	1,121	806	956	742	688	766	476	561	379	280
Albion C.	612	ne	113	ne	ne	ne	ne	ne	210	114	180	272	289	277
Heidelberg U.	613	ne	266	ne	349	199	272	294	428	163	164	188	308	262
U. of Mary Washington	614	ne	563	79	ne	ne	187	ne	ne	46	128	207	246	237
Bentley U.	615	ne	ne	ne	ne	ne	ne	ne	110	ne	ne	ne	ne	223
U. Charleston	616	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	217
Grinnell C.	617	1,155	287	648	372	414	546	340	582	588	326	617	309	209
Framingham State U.	618	ne	ne	ne	ne	ne	ne	ne	4	17	ne	179	188	200
Marymount U.	619	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	337	178
U. California, Office of the President	620	121	483	1,048	599	248	181	295	288	343	319	217	379	158
California State U., Maritime Academy	621	ne	1,200	1,748	1,257	122	23	71	225	550	617	621	450	135
East Stroudsburg U. Pennsylvania	622	ne	250	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	128
St. Cloud State U.	623	501	380	215	420	797	1,299	561	554	494	515	141	273	90
Mercyhurst U.	624	703	174	145	134	97	77	95	405	ne	382	276	171	64
C. of Saint Benedict	625	ne	0	ne	72	71	53	38	44	47	45	43	42	47
Eastern Connecticut State U.	626	ne	0	ne	ne	6	17	27	19	36	181	177	108	42
Philadelphia C. of Osteopathic Medicine	627	812	850	694	277	104	192	150	260	260	346	422	318	40
Roseman U. of Health Sciences	628	ne	0	ne	ne	131	0	0	0	18	37	56	53	30
Babson C.	629	ne	187	ne	ne	ne	ne	0	0	0	0	0	0	16



TABLE 80

**Federally financed 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
Kettering U.	630	4,477	3,452	1,985	1,084	908	666	817	1,395	883	321	423	17	10
All other surveyed institutions	-	1,101,329	1,249,718	1,215,909	1,125,171	901,360	879,195	906,189	947,037	1,004,856	410,456	373,266	29,611	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 \$1,983,078 thousand in federally financed 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.