

TABLE 80

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

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
All institutions	-	36,510,431	39,648,595	38,939,996	38,264,373	36,824,264	36,775,605	37,676,152	39,032,870	40,613,346	43,218,658	44,878,387	47,778,518
Johns Hopkins U. ^a	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
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
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
Georgia Institute of Technology	4	370,532	426,088	482,349	520,754	510,422	548,063	567,100	578,107	646,317	708,682	780,894	838,185
Columbia U. in the City of New York	5	561,531	634,973	631,961	619,557	591,523	577,833	585,578	632,994	673,792	724,232	743,915	804,534
Stanford U.	6	576,553	633,287	607,578	625,144	608,342	645,633	668,578	684,928	685,871	713,688	725,942	785,118
U. Pennsylvania	7	626,816	689,571	656,425	623,939	606,115	597,791	638,336	653,405	671,796	702,747	705,791	776,072
Duke U.	8	513,469	584,161	585,636	580,416	556,847	558,566	574,738	622,174	644,179	708,544	706,023	775,046
U. California, San Diego	9	578,889	635,223	653,549	630,009	597,270	601,184	602,336	639,643	634,676	698,138	726,536	773,484
U. North Carolina, Chapel Hill	10	541,910	592,541	597,629	614,627	601,933	577,574	624,131	657,879	681,581	701,623	685,851	727,045
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
U. California, Los Angeles	12	522,423	545,882	527,899	489,820	458,157	482,771	479,718	479,799	557,986	587,740	642,219	706,193
U. Maryland ^b	13	na	na	na	na	na	na	na	na	na	678,126	669,023	693,294
U. California, San Francisco	14	514,693	570,116	559,329	566,117	544,697	535,457	602,705	606,768	669,470	671,047	676,331	683,179
Yale U.	15	475,010	518,195	517,072	502,439	475,585	471,381	494,504	531,995	549,026	573,491	582,575	641,530
U. Wisconsin-Madison	16	522,473	568,389	557,688	533,220	522,251	506,910	548,247	552,983	555,666	594,094	617,902	631,320
Harvard U.	17	467,237	530,908	574,346	575,868	554,944	530,382	549,539	565,269	578,722	611,123	598,313	609,310
Pennsylvania State U., University Park and Hershey Medical Center	18	463,301	459,333	526,212	556,185	516,300	507,889	532,669	528,181	557,323	591,201	632,245	606,189
Washington U., Saint Louis	19	466,993	460,282	432,434	402,702	410,115	424,723	436,229	468,637	496,648	531,885	545,027	588,717
Cornell U.	20	446,705	476,163	471,024	444,303	438,834	445,266	427,940	435,355	464,468	522,035	558,346	588,001
Northwestern U.	21	356,193	393,449	385,377	389,757	385,888	385,868	424,638	438,732	464,689	497,740	527,958	569,875
Vanderbilt U. and Vanderbilt U. Medical Center	22	377,185	434,213	430,445	432,752	408,743	390,701	395,505	442,669	456,599	470,774	492,333	567,490
U. Minnesota, Twin Cities	23	420,102	482,639	480,531	489,318	483,542	468,482	462,570	448,814	455,294	483,898	503,414	562,697
U. Southern California	24	402,372	443,458	433,136	423,708	421,887	408,105	396,197	436,515	488,081	530,971	549,528	559,032
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
New York U.	26	250,006	289,172	300,271	283,382	314,712	326,691	332,483	369,947	395,445	416,137	433,598	534,552
Ohio State U.	27	384,633	471,331	416,304	425,547	416,177	406,941	418,887	427,154	439,594	465,081	505,626	523,826
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
Texas A&M U., College Station and Health Science Center	29	276,977	281,063	259,506	302,356	298,489	291,714	281,015	294,602	316,771	342,390	501,396	512,130
Massachusetts Institute of Technology	30	451,050	482,544	478,955	487,647	480,991	486,650	501,702	484,597	476,576	485,821	484,184	480,092
U. Texas, Austin	31	331,439	334,240	328,560	352,788	313,955	331,388	340,181	377,389	386,954	387,551	478,458	465,529
U. Colorado Boulder	32	282,008	313,531	319,019	309,072	302,877	341,828	360,827	359,462	376,870	397,709	412,476	444,381
U. Alabama, Birmingham	33	320,704	340,342	303,677	286,873	276,112	325,008	346,190	356,303	370,401	395,910	397,206	421,209

TABLE 80

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

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. Florida	34	269,765	296,950	295,745	285,778	279,920	281,317	297,267	314,187	340,725	369,001	375,577	404,432
Boston U.	35	298,467	300,923	273,204	265,476	254,285	256,562	250,523	253,828	264,281	313,670	333,387	396,685
U. Illinois, Urbana-Champaign	36	294,236	312,796	348,536	459,791	336,172	330,479	320,703	344,657	339,732	369,006	376,505	394,374
U. Chicago	37	348,537	365,824	329,119	294,862	276,237	290,776	293,557	302,361	297,824	327,837	347,734	390,098
U. California, Davis	38	329,041	359,704	356,540	344,632	327,697	322,919	334,534	337,995	354,823	370,601	377,068	369,231
Baylor C. of Medicine	39	284,072	295,529	268,753	285,230	264,641	256,895	267,849	292,806	300,098	309,354	315,101	365,472
U. Colorado Anschutz Medical Campus ^C	40	na	na	na	na	na	na	na	na	na	na	na	363,331
U. Arizona	41	307,038	324,751	328,369	334,680	286,595	265,878	259,443	269,201	287,852	323,060	325,621	350,487
U. California, Berkeley	42	303,201	326,120	333,179	305,932	309,305	342,042	338,562	326,548	324,521	341,328	345,103	348,147
Case Western Reserve U.	43	333,438	352,938	358,722	347,628	328,548	307,960	320,402	325,354	346,935	355,970	356,751	339,658
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
Rutgers, State U. New Jersey, New Brunswick	45	218,910	235,178	273,498	288,374	355,116	320,311	318,123	316,118	330,823	287,031	304,486	332,033
U. Utah	46	226,489	263,623	271,629	297,099	284,125	270,311	224,270	218,405	302,586	282,157	306,629	329,537
Oregon Health and Science U.	47	247,054	268,777	242,219	244,867	246,050	243,876	230,608	243,495	264,492	298,227	321,572	329,016
Indiana U., Bloomington	48	67,483	69,298	72,501	82,005	80,109	206,263	216,917	241,350	245,402	304,116	314,721	320,591
U. Rochester	49	321,258	337,312	307,390	298,781	265,686	261,023	265,430	267,040	283,973	305,325	295,154	308,426
U. Cincinnati	50	261,982	286,003	266,507	256,816	243,705	250,457	229,761	239,659	246,400	249,656	283,059	306,411
Colorado State U., Fort Collins	51	205,890	230,661	245,573	213,355	206,958	213,685	227,624	232,405	257,355	276,173	276,863	296,067
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
U. Virginia, Charlottesville	53	224,607	239,249	225,558	212,051	192,907	186,676	198,760	215,193	231,161	257,013	282,429	282,472
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
Purdue U., West Lafayette	55	221,679	246,116	255,691	258,596	227,857	209,005	214,373	224,965	230,208	231,188	257,641	277,663
Uniformed Services U. of the Health Sciences	56	72,125	117,781	102,134	119,647	213,389	299,007	175,007	204,241	218,702	297,808	235,202	275,573
Scripps Research Institute	57	313,746	317,201	309,471	308,628	292,268	274,097	242,489	250,090	267,088	267,122	243,502	272,181
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
U. Texas Southwestern Medical Center	59	232,027	231,639	207,513	198,114	185,137	183,787	185,263	200,085	197,910	203,544	242,679	257,611
Arizona State U.	60	164,890	178,153	182,188	190,066	186,126	186,890	200,280	214,845	244,795	253,530	262,377	256,875
U. Massachusetts, Medical School	61	178,293	208,244	202,149	189,159	183,582	183,588	181,446	200,232	194,953	197,388	192,938	248,873
U. New Mexico	62	147,003	161,950	159,302	155,684	151,082	151,619	153,100	159,583	167,315	156,865	158,882	239,587
U. California, Irvine	63	189,343	204,134	204,062	196,256	180,431	170,622	170,674	178,789	192,182	207,234	225,967	237,874
Carnegie Mellon U.	64	179,136	200,878	209,307	215,560	198,247	187,259	190,620	189,974	181,958	197,927	217,481	234,743
North Carolina State U.	65	137,124	152,790	171,464	174,440	177,722	196,058	197,261	213,544	214,440	224,471	227,964	234,181
U. Miami	66	196,435	223,870	222,535	204,315	202,818	192,691	194,346	193,549	191,408	211,493	223,774	230,632
U. Illinois, Chicago	67	229,131	245,323	243,622	219,473	201,646	192,930	175,302	188,730	189,322	200,926	215,990	230,140
Woods Hole Oceanographic Institution	68	153,066	165,819	161,115	158,672	177,616	172,995	166,010	148,491	163,003	184,995	191,186	222,351

TABLE 80

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

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. Kentucky	69	167,192	175,801	157,813	148,758	140,450	145,097	152,708	168,347	168,968	189,860	197,848	218,566
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
Albert Einstein C. of Medicine	71	na	na	na	na	na	na	188,521	188,259	196,457	202,513	204,635	214,619
Virginia Polytechnic Institute and State U.	72	161,636	187,269	181,371	197,462	198,092	191,080	190,975	181,379	195,140	206,208	208,952	214,291
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
Princeton U.	74	149,164	162,491	160,985	156,070	163,805	157,867	161,562	175,485	179,659	192,747	202,447	204,430
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
Wake Forest U.	76	159,084	173,004	172,779	156,506	153,069	148,084	140,651	147,746	154,031	165,439	166,480	188,809
U. Georgia	77	117,225	134,200	133,525	127,487	122,145	127,825	138,374	153,279	144,926	156,628	167,347	184,847
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
U. Connecticut	79	128,700	141,252	150,402	146,400	139,594	135,349	143,955	141,977	139,022	153,496	160,763	180,758
U. Dayton	80	72,567	69,847	64,369	66,396	63,881	74,548	97,635	112,584	130,488	152,545	153,215	180,479
Oregon State U.	81	135,081	146,069	155,667	148,174	143,815	150,625	156,437	157,708	166,354	162,781	161,646	173,532
Tufts U.	82	115,159	120,864	120,042	112,495	115,046	120,181	124,363	138,004	128,404	136,088	145,473	165,222
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
Washington State U.	84	105,333	115,775	120,146	119,921	112,568	121,627	122,275	133,308	131,229	137,424	135,023	162,455
Medical U. South Carolina	85	131,650	143,464	136,907	127,472	118,649	117,255	124,212	134,072	142,639	153,226	153,802	162,394
SUNY, Stony Brook U.	86	120,090	124,938	123,198	118,432	111,386	115,031	118,296	125,150	134,802	143,258	145,526	161,552
U. South Florida ^d	87	219,634	220,931	218,772	207,441	205,155	196,215	210,823	234,871	163,013	164,662	142,086	161,278
Iowa State U.	88	108,181	116,109	117,144	120,934	115,285	113,443	124,242	125,607	145,241	145,541	161,153	160,520
George Washington U.	89	120,844	115,463	111,068	119,441	139,148	135,667	138,735	144,567	153,412	152,562	154,026	158,475
U. Hawaii, Manoa	90	196,275	201,700	193,722	225,263	202,574	199,818	189,683	181,750	166,398	167,432	163,091	156,953
U. Kansas	91	137,458	143,300	147,052	147,557	131,186	128,374	117,549	126,109	130,036	141,679	151,987	156,707
U. Delaware	92	102,637	112,523	110,760	114,048	111,933	109,258	108,378	113,031	113,582	128,651	139,682	152,665
Dartmouth C. and Dartmouth Hitchcock Medical Center	93	117,909	131,518	147,218	154,917	145,080	145,807	138,641	136,977	139,692	137,337	141,040	151,449
Temple U.	94	76,170	85,021	85,062	124,764	118,892	119,945	134,132	143,636	141,505	150,201	146,564	146,101
U. Missouri, Columbia	95	113,362	113,072	110,446	108,305	102,784	102,852	116,337	122,821	126,164	128,293	137,029	145,070
Virginia Commonwealth U.	96	125,713	134,431	124,836	119,293	119,507	123,665	124,962	127,341	122,771	125,393	135,266	141,521
Northeastern U.	97	56,727	65,757	75,733	82,587	77,401	78,379	78,668	90,190	109,443	122,663	131,752	138,641
Medical C. Wisconsin	98	121,750	133,929	125,325	116,765	111,241	109,542	108,529	108,276	111,273	119,036	128,783	136,385
U. Tennessee, Knoxville ^e	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
Georgetown U.	100	119,509	122,802	113,229	113,703	99,567	87,268	82,819	93,224	88,778	93,004	98,138	128,798
Florida State U.	101	127,571	136,332	131,998	132,583	140,995	133,569	118,294	118,359	129,435	131,472	141,229	127,509
U. Alaska, Fairbanks	102	97,889	103,677	97,472	92,602	83,483	78,985	87,829	95,467	93,562	91,405	99,572	126,247
U. California, Santa Barbara	103	127,696	132,490	134,984	131,392	119,816	114,596	114,884	113,173	110,065	115,569	121,120	119,203

TABLE 80

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

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. Texas Medical Branch	104	128,840	128,098	109,867	108,287	101,761	98,050	100,464	104,458	104,356	107,806	114,103	117,915
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
Mississippi State U.	106	105,224	97,987	96,132	73,834	70,615	79,181	86,570	87,435	88,365	103,546	119,093	114,492
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
U. Massachusetts, Amherst	108	97,131	106,315	106,470	103,233	102,682	97,206	97,576	101,992	103,555	110,063	112,546	112,146
Wayne State U.	109	131,418	133,925	125,965	118,217	112,608	108,221	109,460	106,865	107,791	114,349	108,536	111,708
U. Nebraska, Medical Center	110	80,784	86,295	84,196	80,750	76,195	71,918	76,221	84,814	93,463	102,604	105,158	111,042
Thomas Jefferson U.	111	77,817	80,027	68,976	56,247	54,676	58,536	58,866	62,029	64,869	74,816	74,653	109,419
U. Texas Health Science Center, San Antonio	112	121,723	121,200	106,177	99,198	89,303	85,940	89,742	85,455	86,956	96,502	102,959	106,824
Montana State U., Bozeman	113	84,735	78,431	78,409	66,451	66,770	62,827	61,490	66,449	67,705	80,955	84,960	104,973
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
U. Nebraska, Lincoln	115	97,538	106,575	105,440	98,534	93,190	94,763	93,532	99,956	102,078	108,207	104,794	103,590
U. Vermont	116	98,588	101,465	87,843	85,028	79,727	83,733	83,124	78,383	86,936	90,378	97,676	103,118
U. Central Florida	117	67,795	66,736	72,620	68,691	64,323	81,788	80,365	82,777	89,504	90,851	94,617	102,599
Florida International U.	118	52,784	61,687	54,204	57,858	68,946	67,293	68,539	66,351	80,417	90,067	97,758	100,470
George Mason U.	119	59,591	61,016	57,504	57,154	53,775	54,113	50,687	52,432	64,315	91,377	99,332	99,910
Louisiana State U., Baton Rouge	120	94,611	96,050	91,238	93,281	93,584	82,276	84,954	80,044	83,453	87,498	86,975	97,985
Rockefeller U.	121	88,705	97,710	84,616	80,384	81,820	81,949	80,667	86,763	87,231	84,566	86,280	96,318
U. New Hampshire	122	76,191	96,552	109,728	92,778	89,640	83,106	89,457	85,714	87,854	84,599	94,554	95,579
U. California, Riverside	123	58,159	59,351	61,304	57,032	56,327	62,642	69,924	75,920	75,990	79,666	90,235	95,480
Rice U.	124	69,176	78,249	76,431	79,742	73,782	73,817	82,643	83,894	77,607	83,105	86,675	93,114
U. Louisville	125	83,593	84,557	79,252	72,047	63,258	66,368	69,781	69,722	77,281	83,421	83,626	91,928
U. South Carolina, Columbia	126	119,890	100,045	93,237	87,562	87,844	84,723	88,231	89,565	80,948	88,052	90,313	91,142
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
Drexel U.	128	75,339	81,424	85,584	74,047	75,557	67,226	65,193	69,326	80,074	81,957	77,965	88,198
U. California, Santa Cruz	129	81,598	95,015	91,409	88,600	89,206	91,249	93,651	65,133	62,218	73,635	75,813	85,887
West Virginia U.	130	74,465	84,061	77,981	72,677	67,450	66,608	70,313	70,256	73,518	79,320	77,455	85,717
Clemson U.	131	59,374	49,365	48,182	47,825	44,673	45,292	52,184	62,920	66,618	72,335	74,438	83,731
U. Arkansas for Medical Sciences	132	72,217	75,924	69,883	64,856	55,556	50,603	48,999	51,298	57,523	63,498	70,508	83,387
U. Rhode Island	133	60,963	77,668	78,194	70,900	61,836	61,085	58,438	59,623	61,135	69,913	65,860	76,992
U. Nevada, Reno	134	58,115	55,374	55,150	53,898	50,904	49,977	51,630	53,438	59,879	60,967	63,827	76,240
Kansas State U.	135	66,400	74,414	73,247	67,524	64,565	66,632	67,863	72,321	77,730	78,878	76,164	74,930
U. Mississippi	136	69,031	72,456	72,855	62,816	63,070	58,797	63,372	61,232	62,721	72,731	80,923	74,055
Rush U.	137	51,304	57,978	57,512	57,063	53,501	52,193	50,332	51,532	64,178	68,941	65,343	73,279
U. Houston	138	50,148	57,090	54,657	57,569	55,574	54,516	58,085	57,263	62,134	66,848	68,987	73,234
Wichita State U.	139	13,633	15,425	14,267	10,161	8,100	6,397	7,947	19,507	16,522	26,633	50,042	72,487

TABLE 80

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

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
New Jersey Institute of Technology	140	47,832	52,873	57,513	55,017	51,853	50,554	63,322	64,840	78,313	87,588	82,331	71,860
U. Oregon	141	66,809	71,344	71,157	61,856	62,824	56,448	55,137	57,092	56,403	63,912	66,182	68,617
U. Montana, Missoula	142	40,116	38,176	35,590	33,825	30,164	33,617	38,726	44,465	51,975	52,919	58,745	66,840
New Mexico State U.	143	98,050	90,283	90,338	86,546	80,247	78,253	61,494	59,087	53,417	57,183	60,056	64,235
U. Maine	144	48,270	59,644	39,428	33,903	50,338	35,033	34,125	37,189	45,206	49,832	52,755	63,250
Augusta U.	145	na	na	na	47,913	47,771	50,585	50,294	48,921	48,800	47,031	55,797	61,943
Georgia State U.	146	23,732	21,980	27,251	28,216	29,470	36,843	40,897	54,842	55,241	54,882	62,835	61,436
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
U. Maryland, Baltimore County	148	58,597	61,110	44,669	44,257	46,993	47,591	50,645	52,008	52,934	54,740	58,178	58,317
U. Texas, Dallas	149	30,019	32,355	34,088	31,903	32,096	30,776	34,532	35,244	39,010	47,443	55,225	57,778
Cold Spring Harbor Laboratory	150	ne	51,529	43,874	41,002	41,845	49,063	50,478	54,260	67,139	73,854	62,068	56,889
U. North Dakota	151	52,381	53,913	54,411	46,397	40,191	37,457	42,253	40,845	48,858	47,235	42,021	56,742
U. Tennessee, Health Science Center	152	52,650	51,840	48,473	42,269	41,830	39,356	38,374	39,138	39,421	42,396	48,264	56,021
SUNY, U. Albany	153	123,404	124,848	112,161	113,736	104,861	78,824	74,092	82,551	84,561	91,225	66,162	55,478
U. Wyoming	154	44,026	47,782	55,663	52,296	39,778	47,232	63,223	56,178	42,538	51,657	56,078	54,183
Rensselaer Polytechnic Institute	155	54,559	58,951	62,063	60,765	58,940	59,417	48,887	47,749	46,385	47,245	47,934	49,836
Naval Postgraduate School	156	86,765	88,950	120,209	86,538	89,284	71,987	50,560	42,246	41,151	49,168	48,709	49,366
U. Idaho	157	45,082	52,812	53,765	52,430	49,423	49,591	50,083	48,879	47,475	48,462	49,818	49,306
U. Louisiana, Lafayette	158	12,060	11,879	12,435	10,007	9,050	10,315	9,479	14,953	20,766	30,341	25,919	47,788
U. Massachusetts, Lowell	159	24,475	26,802	25,670	25,441	25,874	28,998	26,499	28,078	28,982	33,948	40,037	46,970
Cleveland State U.	160	24,894	42,292	46,205	50,002	44,139	41,721	49,659	52,317	54,987	50,982	53,234	46,838
U. Alabama, Tuscaloosa	161	25,945	32,387	32,515	27,963	25,477	28,029	27,019	24,344	27,660	33,233	37,198	46,389
U. Arkansas, Fayetteville	162	32,659	37,203	34,123	30,562	26,014	33,486	39,527	42,198	48,288	46,871	45,196	45,674
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
U. Texas, Arlington	164	29,671	28,190	30,473	28,588	24,079	26,858	24,853	30,588	34,063	39,198	42,157	44,134
Brandeis U.	165	43,282	47,793	44,061	43,963	45,800	46,764	47,708	44,819	37,371	40,333	40,815	43,322
U. Southern Mississippi	166	36,729	40,764	34,487	28,324	25,956	24,710	23,952	26,104	30,331	45,687	41,791	43,078
U. Texas, El Paso	167	34,439	34,765	39,274	37,741	34,528	40,334	41,384	43,759	43,214	40,111	37,495	42,385
U. Texas, San Antonio	168	27,036	28,011	29,168	28,066	22,518	23,108	24,493	28,650	28,943	32,986	32,512	41,177
Michigan Technological U.	169	27,407	32,508	32,835	31,734	30,214	28,581	29,609	28,332	32,366	34,488	35,912	41,123
Northern Arizona U.	170	14,990	17,687	15,946	15,533	18,044	20,111	22,997	25,615	29,137	35,156	38,492	40,890
Saint Louis U.	171	33,655	38,206	35,841	31,230	29,396	27,343	26,323	27,005	27,694	33,941	34,163	40,628
San Diego State U.	172	53,746	59,769	51,690	45,175	44,807	43,526	42,062	37,226	37,873	37,595	39,049	40,387
North Dakota State U.	173	51,198	52,543	45,326	37,128	35,308	35,037	34,792	34,134	34,485	34,693	31,109	37,647
Howard U.	174	32,211	35,632	37,336	33,403	32,052	38,051	32,967	33,893	32,573	29,422	28,785	34,907
Mercer U.	175	18,778	17,904	19,963	19,411	19,666	21,563	21,120	19,772	18,999	27,035	31,572	34,413

TABLE 80

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

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Louisiana State U., Health Sciences Center, New Orleans	176	46,142	45,581	40,637	36,886	34,637	36,027	31,526	28,018	26,988	31,290	31,381	34,272
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
U. Puerto Rico, Medical Sciences Campus	178	29,813	54,381	35,173	31,037	30,197	31,889	33,348	29,869	30,597	34,570	27,033	33,262
Stevens Institute of Technology	179	26,366	31,269	25,794	23,004	22,130	25,054	28,090	26,438	25,521	27,703	32,141	32,625
U. North Texas, Health Science Center	180	25,847	26,132	26,627	24,187	21,943	22,422	27,163	26,368	27,579	27,260	25,917	32,464
U. Toledo	181	36,984	42,680	38,563	37,539	31,648	26,428	24,860	22,371	25,056	27,802	27,412	32,411
Texas Tech U.	182	32,680	32,881	27,698	25,153	26,161	25,458	24,586	23,426	24,503	29,857	29,685	32,129
U.S. Air Force Academy	183	43,803	60,292	36,316	42,303	32,284	29,417	44,567	34,664	27,650	34,940	33,308	31,818
Florida A&M U.	184	26,311	30,771	27,951	28,446	25,313	26,700	28,021	27,899	29,861	32,117	30,022	31,669
Boise State U.	185	14,237	18,423	19,446	15,181	15,183	17,562	16,112	18,754	23,157	22,354	25,121	30,053
San Jose State U.	186	21,576	23,207	21,830	24,574	28,475	31,250	30,021	30,063	31,592	33,072	32,061	29,856
Syracuse U.	187	26,971	25,272	25,327	22,564	24,163	26,769	28,793	31,902	33,045	32,143	27,538	29,354
Worcester Polytechnic Institute	188	12,705	14,773	12,161	16,275	18,310	25,743	24,854	18,559	18,084	22,144	25,320	29,202
Boston C.	189	31,351	23,845	23,685	22,780	19,462	17,409	23,184	26,937	27,674	28,017	25,213	28,738
Brigham Young U., Provo	190	18,373	19,741	17,381	19,931	20,214	20,769	24,791	23,631	21,367	21,977	22,789	28,614
Indiana U.-Purdue U., Indianapolis	191	147,375	154,966	165,374	151,962	142,589	18,090	19,507	19,630	22,071	25,672	30,289	28,541
Rochester Institute of Technology	192	19,493	18,546	17,435	16,186	16,765	17,479	22,545	23,913	22,692	22,195	24,079	27,703
SUNY, Downstate Health Sciences U.	193	25,023	33,964	34,884	31,972	25,802	20,779	25,941	22,496	26,302	26,914	26,454	27,620
Lehigh U.	194	22,084	20,485	20,419	20,878	20,677	20,680	19,512	22,640	23,649	24,282	25,574	27,483
Florida Atlantic U.	195	16,457	14,793	14,926	12,480	12,317	10,402	14,443	16,430	18,076	21,050	22,787	27,479
Air Force Institute of Technology	196	13,514	18,986	17,919	17,614	16,342	16,369	19,660	25,558	23,393	21,856	22,854	27,025
Missouri U. of Science and Technology	197	28,239	27,961	23,731	25,551	21,474	17,306	18,811	19,534	21,793	22,337	22,853	26,164
Loyola U., Chicago	198	27,953	27,588	27,786	32,008	29,989	27,380	24,916	22,861	21,131	22,919	23,277	25,824
U. North Carolina, Charlotte	199	15,444	14,358	16,997	18,257	16,637	17,028	18,733	19,436	21,366	24,917	26,335	25,804
U. Nevada, Las Vegas	200	31,497	29,642	24,567	23,980	26,585	26,970	24,683	28,460	32,711	27,172	28,187	25,764
SUNY, Polytechnic Institute	201	na	na	na	na	21,208	14,641	21,380	41,247	41,753	38,222	27,993	25,427
Morehouse School of Medicine	202	25,855	28,128	31,786	34,511	33,020	30,012	28,678	28,792	24,326	22,461	22,500	25,181
SUNY, Upstate Medical U.	203	27,959	28,663	27,013	23,730	21,334	19,213	18,942	19,991	20,391	22,028	23,940	24,974
Illinois Institute of Technology	204	27,780	33,016	27,515	28,255	25,506	25,479	23,542	26,191	27,742	28,753	24,152	24,649
New Mexico Institute of Mining and Technology	205	42,243	37,316	29,894	23,581	33,168	19,975	16,657	18,271	19,437	22,771	22,598	24,642
William & Mary	206	22,478	23,502	25,349	24,619	27,232	27,722	28,771	28,062	27,836	27,112	25,460	24,533
Portland State U.	207	25,853	29,660	30,090	27,899	26,147	23,389	25,310	23,645	23,437	26,301	24,752	24,097
U. Wisconsin-Milwaukee	208	23,641	28,336	26,424	23,872	23,726	24,222	22,519	21,673	24,348	22,909	24,713	23,944
Old Dominion U.	209	30,534	34,084	31,877	30,478	30,568	27,857	27,556	32,898	28,792	27,633	26,904	23,158
U. South Alabama	210	14,343	16,259	13,294	13,361	13,478	15,025	17,131	15,856	14,572	19,383	21,359	22,924
Catholic U. of America	211	15,837	19,651	17,350	17,154	17,061	19,548	19,451	19,364	20,423	21,408	22,244	22,886

TABLE 80

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

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021		
Van Andel Research Institute	212	ne	ne	ne	ne	ne	8,138	i	11,970	13,108	14,285	18,259	18,538	22,231	
SUNY, Binghamton U.	213	20,766	20,443	20,151	16,749	14,757	16,038	18,363	20,601	22,964	23,626	24,027	22,012		
North Carolina Agricultural and Technical State U.	214	23,878	22,499	21,468	20,956	22,609	21,802	19,808	23,046	22,212	20,924	19,170	21,835		
CUNY, Hunter C.	215	17,543	21,191	22,078	21,465	18,825	19,018	19,597	18,179	20,053	21,188	23,638	21,275		
U. Missouri, Kansas City	216	16,139	18,748	17,219	15,406	14,613	12,810	12,739	11,145	10,396	18,400	21,921	20,784		
U. Nebraska, central administration	217	ne	ne	ne	ne	ne	ne	ne	ne	12,561	17,360	22,246	20,349		
Tennessee State U.	218	6,936	7,732	9,393	9,354	11,886	10,920	11,590	9,226	9,336	8,449	19,052	20,145	i	
East Carolina U.	219	15,587	17,636	16,946	17,789	16,992	14,926	13,057	11,386	11,654	15,544	16,583	19,633		
Wright State U.	220	24,785	27,422	25,519	26,496	27,523	26,814	30,093	35,514	43,359	41,362	35,267	19,393		
Ohio U.	221	18,209	21,938	20,340	20,134	16,425	17,140	14,421	16,017	13,512	14,453	15,466	19,048		
South Dakota State U.	222	38,309	41,876	41,941	33,226	29,454	28,488	29,605	27,940	27,013	29,530	22,387	18,505		
Ponce Health Sciences U.	223	7,569	9,318	10,486	6,249	4,960	6,729	6,951	7,108	6,386	8,339	11,228	18,284		
U. Memphis	224	17,726	16,738	19,113	15,747	18,344	16,250	16,784	16,958	23,463	17,074	15,927	17,538		
Rowan U.	225	1,737	2,071	2,295	1,875	4,588	4,665	5,239	7,110	9,568	11,909	15,276	17,211		
U. California, Merced	226	9,192	9,744	10,741	10,733	10,506	12,607	12,166	14,660	14,041	16,513	19,505	16,980		
U. North Texas, Denton	227	11,997	12,255	15,921	14,974	15,054	14,286	11,524	14,043	17,514	16,094	12,019	16,810		
Desert Research Institute	228	28,307	28,489	27,294	22,814	19,932	16,511	18,883	18,839	17,911	16,745	15,791	16,641		
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		
San Francisco State U.	230	15,407	17,337	17,075	18,638	16,753	14,336	12,277	13,782	13,346	15,149	15,514	i	15,670	
Tuskegee U.	231	10,986	11,033	11,243	13,132	14,102	i	12,265	i	10,386	10,386	10,386	14,825	15,122	15,424
Morgan State U.	232	10,035	9,878	15,279	13,301	14,131	12,693	14,305	13,215	11,450	11,844	14,016	15,207		
U. Puerto Rico, Rio Piedras	233	21,130	24,336	24,867	17,190	17,489	18,177	15,870	11,137	9,826	13,670	13,767	14,953		
U. Massachusetts, Boston	234	17,787	15,040	17,649	13,471	14,544	15,464	17,326	16,308	16,852	16,117	15,007	14,938		
Rutgers, State U. New Jersey, Newark	235	12,243	17,503	19,296	12,420	11,014	11,118	12,662	15,171	15,129	14,063	14,725	14,891		
U. Alaska, Anchorage	236	8,485	9,352	10,041	8,799	7,212	8,015	11,282	11,592	12,530	13,665	15,128	14,852		
Southern Methodist U.	237	12,142	17,819	15,839	13,516	18,427	11,806	12,910	11,978	11,568	15,219	15,559	14,803		
Eastern Virginia Medical School	238	29,291	25,319	24,694	28,728	28,532	28,637	21,459	21,209	21,356	19,408	15,748	14,774		
Embry-Riddle Aeronautical U.	239	8,241	9,257	12,126	9,906	12,614	9,940	13,957	10,501	12,584	8,890	11,391	14,258		
U. Guam	240	4,962	5,242	5,311	5,390	6,321	5,455	6,576	8,051	8,425	9,104	9,364	13,862		
Meharry Medical C.	241	24,302	26,779	23,467	21,135	17,754	13,068	13,528	15,613	14,515	16,443	12,573	13,784		
U.S. Military Academy	242	19,763	i	12,314	11,702	11,612	13,247	13,135	12,281	7,247	6,313	6,432	8,068	13,657	
Kent State U.	243	13,311	13,334	13,425	10,009	9,350	9,594	8,733	9,204	10,265	12,576	13,406	13,620		
U. Denver	244	10,180	10,463	9,135	10,082	8,794	8,134	8,895	9,681	12,938	13,157	14,551	13,513		
Marquette U.	245	9,115	10,898	9,557	8,491	7,988	9,139	10,136	10,111	10,451	12,613	12,981	13,470		
California State U., Northridge	246	11,122	8,729	13,965	7,778	11,007	10,889	10,136	12,952	13,822	15,543	16,478	13,363		
U. Maryland Center for Environmental Science	247	12,123	18,007	16,081	16,852	13,202	11,993	12,156	14,482	14,276	16,573	14,622	13,242		

TABLE 80

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

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Albany Medical C.	248	15,758	13,884	11,845	10,278	9,716	9,481	10,714	11,040	10,243	11,827	12,940	13,166
U. of the Virgin Islands	249	27,291	15,717	i 22,605	15,627	10,475	i 19,456	20,951	10,701	10,748	9,903	11,778	13,099
U. Nebraska, Omaha	250	4,128	5,034	5,589	5,230	4,979	4,484	6,657	7,038	7,043	7,655	8,626	12,949
Jackson State U.	251	34,927	36,460	33,342	27,285	19,898	18,449	19,934	18,997	16,990	16,156	13,560	12,939
U. Hawaii, system office	252	ne	ne	ne	ne	ne	ne	ne	ne	12,328	12,052	13,367	12,688
U. Puerto Rico, Mayaguez	253	12,505	18,269	19,536	13,830	13,638	15,313	14,403	13,585	14,092	15,653	15,842	12,683
Southern Illinois U., Carbondale	254	22,209	23,696	22,055	18,398	16,288	14,895	14,574	13,421	12,733	12,625	12,735	12,655
Marshall U.	255	18,218	21,433	13,154	13,468	12,684	11,080	9,077	9,036	8,519	9,579	11,070	12,522
Delaware State U.	256	9,967	11,901	11,053	11,802	12,464	12,075	14,613	13,909	12,039	11,936	10,841	i 12,461
Florida Institute of Technology	257	8,903	7,387	7,189	7,112	7,706	8,251	8,714	8,440	8,333	10,043	10,448	12,386
Louisiana State U., Health Sciences Center, Shreveport	258	13,890	15,316	13,504	11,753	8,490	6,321	6,478	7,055	9,235	12,185	11,452	12,359
U. North Carolina, Greensboro	259	10,857	12,155	10,943	10,520	10,589	11,106	12,279	10,845	10,441	11,527	10,579	12,357
U. Texas Rio Grande Valley	260	na	na	na	na	na	na	16,821	14,766	13,308	13,320	12,590	12,355
CUNY, Graduate School of Public Health and Health Policy	261	na	na	na	na	na	na	na	na	5,080	5,572	8,722	12,254
Texas Tech U., Health Sciences Center	262	12,950	14,790	13,944	14,804	9,480	9,949	9,943	8,995	7,477	11,262	12,977	12,114
U. Texas Health Science Center, Tyler	263	ne	ne	ne	ne	ne	3,713	3,757	5,792	6,438	i 7,084	i 7,732	12,007
CUNY, Advanced Science Research Center	264	na	na	na	na	na	257	ne	2,355	4,027	6,859	9,208	11,840
CUNY, Queens C.	265	13,496	15,491	14,829	14,689	15,809	13,532	13,966	11,780	11,882	12,862	12,208	11,779
South Dakota School of Mines and Technology	266	25,172	28,051	14,338	7,853	7,029	9,286	10,370	10,639	10,240	9,283	10,659	11,587
U. South Dakota	267	16,353	14,337	13,601	14,991	11,932	8,464	8,827	11,117	12,346	13,312	12,899	11,541
Hampton U.	268	14,455	12,292	15,290	12,620	11,153	14,619	13,572	15,908	13,669	12,943	10,842	11,181
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
Baylor U.	270	2,842	3,386	3,289	3,435	3,991	3,839	4,214	5,255	5,749	6,885	8,684	10,879
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
California Polytechnic State U., San Luis Obispo	272	11,396	8,296	9,618	9,442	8,903	9,651	10,966	10,035	9,313	9,574	9,765	10,785
New York Medical C.	273	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
Nova Southeastern U.	274	5,669	6,829	6,570	5,334	5,906	5,856	6,922	7,672	7,772	8,911	10,452	10,386
U.S. Naval Academy	275	10,750	10,243	8,868	10,142	10,216	8,978	11,006	12,946	13,331	12,851	12,281	10,247
Loma Linda U.	276	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
Northeast Ohio Medical U.	277	4,009	4,081	3,816	5,244	6,582	7,607	9,181	10,043	9,743	10,107	10,684	9,999
Charles R. Drew U. of Medicine and Science	278	20,430	20,679	19,733	17,144	19,412	12,992	12,089	14,461	10,198	10,427	9,863	9,945
North Carolina Central U.	279	6,870	9,043	10,573	7,750	9,320	10,293	9,691	10,627	10,728	12,235	11,883	9,831
Texas A&M U.-Corpus Christi	280	7,647	7,225	5,387	5,990	7,085	9,155	7,078	9,057	11,694	13,131	12,453	9,782
Rosalind Franklin U. of Medicine and Science	281	8,350	9,317	10,084	11,202	9,754	9,368	8,478	8,828	9,249	8,865	8,504	9,357
Prairie View A&M U.	282	8,623	11,041	10,561	9,077	8,259	7,958	7,896	8,674	8,386	9,246	9,134	9,315

TABLE 80

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

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
American U.	283	6,263	6,549	5,254	5,613	7,426	8,444	8,280	7,601	11,237	13,762	13,491	9,064
U. Colorado Denver ^C	284	na	na	na	na	na	na	na	na	na	na	na	9,058
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
U. Akron	286	11,943	12,833	16,605	19,600	20,187	14,510	25,362	16,124	12,280	11,627	10,509	8,953
Missouri State U.	287	6,051	4,756	3,697	3,129	3,027	3,141	2,633	2,659	3,977	4,907	12,232	8,928
Miami U.	288	11,546	11,476	12,447	11,314	10,311	9,278	7,699	7,568	7,924	7,680	8,829	8,854
Teachers C., Columbia U.	289	6,478	8,433	10,120	8,492	8,909	12,666	11,373	10,194	8,925	8,054	7,614	8,521
Creighton U.	290	11,850	14,080	14,209	13,272	11,427	9,164	10,406	7,787	5,601	8,113	7,444	8,426
U. Maryland, Eastern Shore	291	8,583	8,587	6,955	8,511	8,902	9,284	7,853	7,265	4,890	6,983	8,084	8,346
East Tennessee State U.	292	6,121	7,705	8,052	6,825	4,865	4,664	5,655	5,870	7,168	7,688	7,329	8,310
California State U., San Marcos	293	3,548	3,548	3,548	3,550	3,177	3,709	4,591	4,869	6,373	8,007	10,310	7,926
Chapman U.	294	1,429	1,215	1,465	2,227	2,170	2,348	2,951	3,414	3,780	5,359	7,313	7,881
Western Michigan U. and Homer Stryker M.D. School of Medicine	295	10,120	11,444	8,295	7,547	7,185	7,216	6,863	7,447	6,948	5,654	5,374	7,853
Texas A&M U.-Kingsville	296	5,067	4,765	4,980	4,988	6,415	5,483	5,910	5,827	5,640	6,874	8,253	7,822
U. Massachusetts, Dartmouth	297	11,236	12,253	10,329	8,076	8,413	7,134	6,463	7,118	6,595	6,957	6,066	7,626
Alcorn State U.	298	9,256	8,655	8,598	8,321	7,447	6,784	6,387	8,634	7,372	7,540	7,023	7,593
Oakland U.	299	7,024	9,001	8,168	6,855	5,986	5,339	6,154	6,414	5,733	6,690	5,058	7,426
Tennessee Technological U.	300	6,958	5,119	4,154	3,566	3,662	3,508	4,015	4,808	5,269	5,996	6,338	7,261
Idaho State U.	301	13,591	16,821	15,711	12,738	10,566	11,510	11,827	11,084	9,737	7,222	7,693	7,059
California State U., Los Angeles	302	7,027	8,296	6,739	6,948	4,788	3,794	3,452	6,499	8,530	9,088	8,088	6,932
Central Michigan U.	303	2,301	4,315	4,965	5,325	5,982	5,108	4,883	5,550	7,121	8,100	7,429	6,919
Clarkson U.	304	9,408	9,531	7,061	5,275	5,462	5,436	6,183	6,538	7,814	8,350	6,876	6,872
SUNY, C. of Environmental Science and Forestry	305	8,907	8,732	8,557	8,382	5,564	7,784	8,109	7,658	6,854	7,632	7,718	6,863
U. Arkansas, Little Rock	306	6,578	7,995	7,894	6,076	4,559	3,736	4,473	4,220	4,942	6,114	6,660	6,438
Louisiana Tech U.	307	9,715	10,351	8,296	7,593	6,577	5,433	5,013	5,438	5,710	6,303	7,000	6,234
Montana Technological U.	308	5,321	4,999	3,293	3,507	3,202	3,420	3,916	5,019	4,691	4,926	4,322	6,133
U. North Carolina, Wilmington	309	13,026	12,933	10,032	7,599	4,480	4,519	4,595	4,834	5,001	6,405	5,984	6,114
U. of the District of Columbia	310	1,946	2,313	2,430	2,168	1,627	1,434	2,451	2,659	2,021	2,526	2,020	5,801
Alabama A&M U.	311	22,154	21,355	21,322	21,290	21,257	21,222	17,863	14,566	11,267	7,968	5,432	5,742
Lincoln U., Jefferson City	312	5,984	7,084	6,306	4,989	5,460	5,492	4,953	4,148	2,498	2,700	3,636	5,621
U. Tulsa	313	6,819	7,547	6,615	6,041	5,487	5,885	6,037	5,816	4,440	3,891	4,555	5,524
U. Hawaii, Hilo	314	10,491	5,243	14,195	10,989	8,522	12,718	9,401	5,461	5,264	4,924	5,274	5,510
U. Missouri, Saint Louis	315	5,886	8,214	7,990	6,821	5,293	3,984	4,343	4,710	5,889	6,759	5,840	5,299
Clark Atlanta U.	316	7,229	7,040	8,447	7,576	7,241	7,439	6,017	5,752	5,611	5,550	5,213	5,282
U. Minnesota, Duluth	316	6,427	8,372	7,560	7,264	5,940	10,025	8,055	6,033	5,520	7,082	6,393	5,282

TABLE 80

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

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Illinois State U.	318	3,449	3,264	2,954	3,203	3,463	2,872	2,878	2,742	2,742	4,390	3,639	5,194
Bowling Green State U.	319	4,963	6,162	6,957	9,287	6,520	4,067	4,221	3,565	3,275	3,878	4,555	5,189
Villanova U.	320	6,367	6,817	5,518	4,218	5,008	4,563	4,334	3,968	3,955	3,956	4,476	5,105
Western U. of Health Sciences	321	885	900	1,268	1,130	1,368	1,099	2,299	2,714	2,562	2,573	4,055	5,020
Texas Southern U.	322	3,638	3,806	4,287	4,741	2,764	2,801	2,825	3,654	2,368	3,238	5,590	4,952
U.S. Army War C.	323	ne	ne	ne	ne	ne	ne	ne	ne	ne	2,146	ne	4,662
Tarleton State U.	324	6,379	6,036	5,086	3,525	3,565	3,801	4,484	4,602	4,288	4,632	4,139	4,620
California State U., Fullerton	325	6,710	7,957	6,477	6,264	6,325	4,640	3,651	3,865	4,610	4,117	4,102	4,535
DePaul U.	326	3,874	4,601	4,800	4,236	4,818	4,436	4,601	5,393	4,496	4,331	5,024	4,466
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
Fort Valley State U.	328	4,586	3,452	3,334	3,329	4,249	4,079	4,844	5,068	3,700	4,433	4,806	4,429
U. Tennessee, Chattanooga	329	4,866	2,929	3,199	2,056	1,486	1,949	1,092	1,144	1,490	2,393	3,915	4,416
CUNY, Brooklyn C.	330	5,002	6,724	6,305	5,831	5,709	5,439	5,836	4,968	4,149	4,210	4,385	4,335
California State U., Sacramento	331	5,032	6,145	4,878	6,893	4,769	5,148	4,773	5,876	5,620	5,238	4,892	4,319
California State Polytechnic U., Pomona	332	2,523	2,964	2,635	2,945	2,165	1,826	2,199	3,225	4,181	3,131	5,300	4,267
Arkansas State U., Jonesboro	333	6,169	8,591	9,595	6,268	3,849	4,315	4,826	4,396	4,371	4,867	4,712	4,249
Winston-Salem State U.	334	ne	743	1,280	436	ne	ne	1,069	1,175	1,289	1,468	3,234	4,190
Central State U.	335	2,544	3,475	3,340	2,686	2,000	1,508	1,546	1,491	2,299	2,517	3,097	4,165
California State U., East Bay	336	643	921	536	310	ne	ne	479	ne	ne	ne	1,018	4,158
West Virginia State U.	337	2,759	3,193	3,945	3,292	5,646	5,561	4,126	5,072	5,361	4,526	3,993	4,119
Morehouse C.	338	7,704	8,280	8,856	9,169	6,919	5,836	4,199	3,663	4,365	4,427	4,686	4,102
Middle Tennessee State U.	339	2,428	1,595	4,207	1,897	1,022	1,609	2,564	2,212	2,206	1,572	1,896	4,098
U. of Health Sciences and Pharmacy in St. Louis	340	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	3,767	4,063
Virginia State U.	341	5,080	5,642	6,852	6,108	5,321	4,848	5,017	4,357	4,814	5,486	4,630	3,991
Texas Christian U.	342	2,161	2,483	3,253	3,767	3,690	3,291	2,671	2,523	2,311	2,211	2,840	3,984
St. Edward's U.	343	ne	3,073	2,450	2,640	1,633	4,200	3,600	5,560	1,596	4,893	4,568	3,980
Norfolk State U.	344	5,413	6,345	7,739	5,465	6,381	4,918	6,947	7,101	6,877	7,935	7,121	3,976
Western Washington U.	345	4,137	4,153	3,714	3,287	3,425	3,879	3,972	4,216	3,884	3,842	3,838	3,963
U. Arkansas, Pine Bluff	346	3,947	4,696	4,540	4,550	3,875	3,912	4,233	3,747	3,648	4,299	4,393	3,960
Fisk U.	347	7,686	4,631	4,058	5,429	7,366	7,123	7,512	4,327	2,781	4,473	3,811	3,926
U. New England	348	2,829	3,242	3,359	4,271	4,762	4,856	5,298	5,918	4,976	5,269	5,064	3,864
C. Charleston	349	10,105	4,438	5,259	5,354	4,114	4,863	5,026	5,020	3,653	3,689	2,781	3,839
U. Detroit Mercy	350	629	602	508	ne	317	890	2,565	2,296	4,385	4,908	4,201	3,815
California State U., Monterey Bay	351	3,167	4,713	4,341	4,961	3,862	3,459	3,654	3,574	3,607	3,746	3,889	3,813
Kentucky State U.	352	3,501	3,146	4,919	3,906	4,335	4,590	5,146	5,382	5,618	4,691	4,456	3,716
U. West Florida	353	2,310	1,505	809	646	883	1,061	684	793	1,149	1,210	2,688	3,689

TABLE 80

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

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. Colorado Colorado Springs	354	6,453	5,420	2,935	2,471	3,150	3,791	3,717	4,267	3,734	2,752	3,110	3,681
California State U., Fresno	355	3,089	3,589	3,517	2,682	2,852	3,040	2,979	3,162	3,925	2,897	3,004	3,593
Southern U. and A&M C., Agricultural Research and Extension Center	356	ne	4,049	5,926	3,481	3,363	2,514	2,415	2,736	i 3,057	3,057	2,085	3,588
U. New Orleans	357	14,185	12,475	11,481	9,729	8,716	6,787	6,617	5,502	5,246	4,272	3,741	3,566
Wellesley C.	358	3,406	2,461	2,895	3,130	3,579	2,971	5,065	3,725	3,668	3,447	4,024	3,469
Wesleyan U.	359	4,475	5,361	4,612	3,930	3,313	3,582	3,393	3,817	3,990	4,211	3,559	3,452
Barnard C.	360	2,702	3,226	3,122	2,530	2,190	2,166	2,794	2,645	2,291	2,701	2,680	3,422
Southern U. and A&M C., Baton Rouge	361	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
Georgia Southern U.	362	1,882	1,520	1,341	1,990	3,123	2,923	2,540	2,826	1,758	1,765	1,759	3,298
California State U., San Bernardino	363	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
South Carolina State U.	364	6,333	i 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
California State U., Bakersfield	365	637	727	641	1,721	1,140	1,854	1,662	2,416	3,243	4,245	4,244	3,167
Western Illinois U.	366	658	742	3,855	1,183	735	350	ne	1,198	1,535	1,486	1,781	3,163
U. Washington, Tacoma	367	47	108	130	0	0	1,386	1,595	727	1,523	2,451	2,899	3,130
Fordham U.	368	3,426	3,086	3,193	3,748	3,239	2,789	4,760	4,750	4,210	3,171	2,834	3,113
Toyota Technological Institute, Chicago	369	ne	496	ne	ne	ne	1,392	1,410	1,581	1,759	1,934	3,038	3,090
Langston U.	370	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
Rutgers, State U. New Jersey, Camden	371	1,765	1,259	1,248	1,511	1,728	1,984	2,637	2,322	1,495	1,096	1,952	2,841
Montclair State U.	372	1,113	2,552	3,265	2,944	1,900	2,116	2,301	1,974	2,942	3,050	2,766	2,816
Southern Illinois U., Edwardsville	373	4,140	3,946	2,808	2,896	2,066	2,111	3,077	3,472	2,907	2,951	2,564	2,800
Clark U.	374	3,243	3,776	2,970	2,649	2,643	2,297	1,930	2,465	2,949	3,489	3,350	2,754
Murray State U.	375	2,074	2,471	1,904	816	601	793	555	1,200	1,587	2,607	1,911	2,641
Middlebury C.	376	2,245	2,289	2,513	1,760	1,320	1,535	1,736	2,002	1,701	1,558	1,546	2,639
CUNY, Lehman C.	377	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
Dakota State U.	378	ne	402	3,555	831	908	765	1,448	1,989	3,273	3,006	3,957	2,603
National Defense U.	379	ne	ne	ne	4,906	6,712	4,832	5,720	5,723	2,219	2,155	2,583	2,586
Kennesaw State U.	380	1,105	983	1,127	i 1,271	1,397	713	1,037	1,182	1,306	1,738	1,696	2,562
Long Island U.	381	545	i 590	i 577	i 567	ne	ne	346	1,183	1,416	1,647	1,277	2,538
MGH Institute of Health Professions	382	ne	408	ne	ne	ne	3,766	2,228	1,839	2,957	3,494	3,014	2,500
U. Central del Caribe	383	6,504	6,613	6,304	5,946	6,407	6,147	6,290	4,866	2,937	2,705	2,743	2,492
Sam Houston State U.	384	4,887	2,098	2,422	1,729	1,733	1,488	1,830	1,872	2,200	2,316	2,444	2,472
Haverford C.	385	2,698	1,851	1,478	1,547	1,309	1,476	972	1,031	1,660	2,339	2,680	2,455
Florida Gulf Coast U.	386	2,661	2,740	1,902	1,553	1,153	1,139	1,377	1,105	764	944	2,639	2,410
U. Michigan, Dearborn	387	2,801	4,291	2,881	3,103	2,882	1,844	2,035	1,860	1,341	1,722	2,244	2,366
Alabama State U.	388	13,340	12,340	13,607	1,927	2,236	2,303	2,372	2,253	2,434	2,577	2,582	2,338

TABLE 80

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

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Western Kentucky U.	389	6,606	6,079	5,639	4,161	2,916	2,983	3,346	3,285	2,860	3,128	2,977	2,306
Oklahoma State U., Center for Health Sciences	390	817	377	83	61	31	321	697	984	959	944	2,602	2,304
Northwest Indian C.	391	1,943	1,993	2,044	2,216	1,705	1,154	ne	ne	1,649	2,201	2,181	2,289
Occidental C.	392	644	898	1,079	1,105	1,365	853	1,260	701	888	1,614	1,567	2,284
CUNY, Graduate Center	393	2,663	1,652	1,849	2,180	2,127	1,707	1,004	830	2,313	2,785	2,206	2,251
Smith C.	394	2,755	3,101	2,626	2,824	3,042	3,575	2,563	3,352	3,288	2,887	2,483	2,249
CUNY, C. Staten Island	395	949	1,470	1,242	1,302	1,241	1,021	1,694	1,524	1,737	2,120	2,262	2,234
Sonoma State U.	396	690	559	ne	1,800	1,581	964	531	ne	ne	ne	936	2,212
James Madison U.	397	5,563	5,218	6,476	4,604	2,997	2,418	2,189	2,172	1,640	2,075	1,973	2,189
Purdue U., Northwest	398	na	na	na	na	na	na	na	2,218	1,927	1,513	1,969	2,165
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
Gallaudet U.	400	4,584	3,876	3,712	3,916	2,586	2,064	2,133	2,273	2,142	1,105	899	2,130
SUNY, C. of Optometry	401	2,829	3,336	3,162	2,757	2,567	2,490	2,487	2,073	1,944	1,823	1,688	2,105
Ball State U.	402	1,712	1,701	2,171	1,267	1,617	1,828	2,813	2,083	2,749	2,607	2,290	2,099
Tougaloo C.	403	2,978	2,542	1,865	1,857	1,894	1,868	1,747	2,252	2,860	2,293	2,102	2,092
Bates C.	404	971	1,485	1,555	1,390	1,114	2,004	1,156	1,053	1,121	1,607	1,885	2,079
U. New Haven	405	ne	199	235	728	344	183	2,157	474	3,853	2,786	1,440	2,069
Eastern Michigan U.	406	3,375	3,802	3,081	2,194	932	1,274	1,200	1,005	1,137	1,971	2,520	2,029
U. Southern Maine	407	2,498	3,592	5,415	4,515	3,071	2,460	1,848	2,252	2,237	2,275	2,128	2,020
Pennsylvania State U., Behrend	408	887	1,029	1,232	1,341	1,596	1,474	2,397	1,658	1,025	1,424	543	2,014
U. San Diego	409	1,332	1,139	1,903	2,002	2,435	1,799	2,121	2,299	2,362	2,494	2,048	1,997
U. Northern Iowa	410	499	1,597	1,982	2,146	2,007	1,847	2,267	2,153	1,697	2,343	1,792	1,978
Humboldt State U.	411	2,965	3,292	3,575	2,819	2,498	3,280	4,455	3,796	3,024	2,103	2,399	1,975
New York Institute of Technology	412	250	369	950	2,097	3,049	2,070	1,536	983	1,439	3,072	1,485	1,970
Hope C.	413	2,523	2,414	1,912	1,993	1,834	1,436	1,251	1,157	1,088	1,349	1,126	1,957
St. John's U., New York	414	1,161	1,181	1,095	868	879	942	868	961	1,528	1,666	1,805	1,931
U. North Florida	415	4,516	5,048	3,760	1,424	1,045	1,184	1,333	1,287	1,325	1,243	1,167	1,917
West Texas A&M U.	416	2,100	1,340	1,785	1,314	1,324	1,635	1,523	1,108	1,104	1,278	1,253	1,915
U. Washington, Bothell	417	435	363	323	0	711	1,222	546	747	917	1,800	1,260	1,903
Albany C. of Pharmacy and Health Sciences	418	1,380	1,634	1,182	1,333	1,643	1,065	380	566	1,092	1,690	1,938	1,900
Saginaw Valley State U.	419	77	525	330	203	ne	223	228	595	1,215	2,332	1,809	1,899
Spelman C.	420	2,740	1,833	1,874	1,366	1,185	1,035	1,291	1,227	1,673	2,004	2,136	1,886
U. South Carolina, Aiken	421	122	592	ne	937	759	689	1,155	2,697	2,437	2,063	2,328	1,880
U. Wisconsin-Superior	422	5,197	5,638	5,302	ne	1,941	ne	ne	ne	1,916	1,527	1,382	1,843
Savannah State U.	423	1,774	2,518	1,874	2,514	2,127	1,796	2,245	1,388	1,778	1,709	1,804	1,804
Central Washington U.	424	4,038	2,238	1,840	1,242	1,108	1,575	1,580	2,287	1,840	2,159	1,701	1,778

TABLE 80

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

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. Wisconsin-Stevens Point	425	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
U. North Carolina, Asheville	426	1,367	1,519	1,565	1,505	1,174	1,452	2,202	1,714	1,309	1,262	1,848	1,775
Bowdoin C.	427	1,806	1,876	3,300	3,240	2,330	2,154	2,452	1,811	2,026	1,777	1,862	1,767
Santa Clara U.	428	3,494	1,992	1,953	1,641	1,992	1,224	1,634	1,406	1,520	1,266	1,487	1,756
Towson U.	429	1,806	2,630	1,771	2,015	1,870	1,325	1,449	1,453	2,133	2,141	1,999	1,743
Hawaii Pacific U.	430	ne	525	858	850	1,116	789	2,071	1,921	1,905	1,809	1,699	1,741
Skidmore C.	431	1,872	1,562	1,334	1,448	1,170	969	732	1,179	1,878	2,261	1,827	1,739
Reed C.	432	796	772	678	897	1,092	1,638	1,690	415	1,065	1,423	1,635	1,735
Palmer C. of Chiropractic, Davenport	433	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
Fort Lewis C.	434	325	511	ne	ne	ne	ne	ne	ne	ne	1,284	1,228	1,730
Youngstown State U.	435	2,067	3,304	2,159	1,825	1,867	2,346	1,083	3,257	3,634	2,878	3,190	1,717
Morehead State U.	436	1,291	1,656	1,591	1,798	961	1,064	1,668	2,051	1,672	1,471	1,657	1,709
California State U., Chico	437	1,466	1,209	1,332	1,668	1,085	743	851	577	1,051	1,359	1,943	1,706
Bucknell U.	438	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
CUNY, Baruch C.	439	1,010	1,025	1,209	547	548	838	1,214	1,027	1,154	1,359	1,470	1,682
Western Carolina U.	440	1,273	691	931	647	669	740	873	963	992	1,650	1,615	1,625
New England C. of Optometry	441	726	1,236	1,685	1,588	533	419	618	ne	837	928	785	1,623
U. Texas of the Permian Basin	442	627	692	786	716	489	595	510	328	50	ne	736	1,610
Pennsylvania State U., Harrisburg	443	963	1,288	1,161	377	194	565	270	215	292	80	437	1,597
Texas Tech U., Health Sciences Center, El Paso	444	ne	ne	ne	ne	5,316	2,689	2,953	2,329	2,489	2,238	1,675	1,566
Mount Holyoke C.	445	1,346	1,883	1,790	1,775	2,374	2,314	2,848	3,168	2,210	2,074	1,442	1,539
California State U., Dominguez Hills	446	2,658	2,671	2,689	2,738	1,384	i 1,035	1,124	753	1,072	1,135	1,360	1,528
Pacific U.	446	565	75	198	1,669	539	350	708	2,830	1,559	2,731	1,719	1,528
Pace U.	448	627	952	1,469	1,054	1,155	1,329	1,170	862	610	1,537	2,120	1,522
U. Richmond	448	2,050	1,705	2,097	1,747	2,004	1,738	1,924	1,870	1,628	1,545	1,588	1,522
Yeshiva U.	450	163,399	197,032	201,397	193,831	186,885	180,791	30,266	816	683	380	772	1,509
Colorado State U., Pueblo	451	364	354	ne	ne	ne	ne	ne	ne	ne	1,282	1,161	1,508
Midwestern U.	452	285	438	427	369	517	654	1,060	1,184	1,278	1,045	936	1,506
Carleton C.	453	1,643	2,132	2,212	3,326	3,046	1,077	832	727	933	1,891	1,236	1,493
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
Rhode Island C.	455	ne	1,195	1,140	993	851	726	1,107	860	669	726	1,102	1,470
U. Louisiana, Monroe	456	1,470	1,971	1,752	976	1,705	1,479	2,016	1,838	1,789	1,949	2,025	1,465
Harvey Mudd C.	457	2,049	2,594	2,038	2,004	1,457	1,633	2,320	1,521	1,762	1,619	1,748	1,443
Colgate U.	458	1,519	1,058	1,497	1,320	1,153	1,109	1,217	1,096	1,389	1,202	858	1,440
Indiana U. Pennsylvania	459	489	616	669	101	169	ne	321	1,303	891	1,773	1,221	1,432
Grand Valley State U.	460	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

TABLE 80

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

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Amherst C.	461	966	1,775	1,810	i 1,846	1,543	1,835	1,207	1,228	1,630	2,118	1,775	1,375
Touro U.	461	999	1,196	1,390	1,351	1,374	1,332	1,199	1,196	1,410	1,540	1,546	1,375
Northeastern Illinois U.	463	288	311	ne	ne	588	ne	ne	805	1,877	2,078	1,378	1,370
Franklin and Marshall C.	464	1,857	1,397	1,116	879	867	991	945	1,711	1,760	1,580	1,202	1,363
U. Northern Colorado	465	1,606	1,513	1,117	956	1,867	1,230	1,674	1,752	1,745	1,518	1,233	1,362
California State U., Stanislaus	466	ne	1,037	i 1,070	650	341	174	221	478	734	964	1,284	1,354
Trinity C., Hartford	467	1,026	1,217	1,432	1,040	1,313	889	893	2,084	794	1,077	1,019	1,348
Troy U.	468	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,536	1,341
Loyola Marymount U.	469	894	2,759	1,139	1,154	906	809	638	705	616	982	997	1,339
Swarthmore C.	470	901	1,005	1,115	1,203	1,261	1,352	1,393	1,402	1,343	1,367	1,011	1,329
U. Central Oklahoma	470	1,059	1,146	750	765	993	1,422	1,081	850	1,048	1,277	1,266	i 1,329
U. of St. Thomas (MN)	472	656	720	557	570	352	ne	195	212	320	313	450	1,321
U. of the Sciences Philadelphia	473	965	1,338	1,287	1,357	937	851	1,153	1,102	1,095	1,318	1,126	1,320
Appalachian State U.	474	1,662	2,398	2,264	1,722	2,186	1,795	1,896	2,629	1,840	1,298	1,375	1,313
U. Virginia's C. Wise	475	76	38	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,307
U. Nebraska, Kearney	476	289	1,018	714	838	652	513	870	975	1,014	1,227	1,259	1,286
Elizabeth City State U.	477	5,352	10,176	3,673	3,767	1,956	1,644	1,619	1,305	960	ne	992	1,266
Citadel Military C. South Carolina	478	ne	157	ne	ne	ne	ne	ne	ne	ne	ne	470	1,258
William Paterson U.	479	105	140	ne	ne	ne	ne	299	178	195	626	1,072	1,240
Texas A&M International U.	480	1,481	1,191	985	868	977	658	911	1,722	1,980	1,814	941	1,203
U. Puerto Rico, Cayey	481	601	871	1,515	1,168	1,143	959	1,105	704	632	963	1,210	1,202
SUNY, Geneseo	482	679	1,278	1,499	609	455	635	908	992	998	1,184	950	1,187
Keck Graduate Institute	483	ne	1,744	1,671	1,227	1,302	937	949	i 969	i 987	i 1,059	i 1,093	i 1,178
Lamar U.	484	4,184	3,959	3,057	1,604	1,118	297	218	917	1,280	1,604	1,157	1,157
Johnson C. Smith U.	485	ne	ne	ne	ne	ne	ne	483	603	994	913	1,087	1,153
Williams C.	486	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
U. Puerto Rico, Humacao	487	1,950	i 1,976	1,949	1,452	1,102	669	ne	ne	882	828	1,279	1,137
U. Central Arkansas	488	1,560	1,300	1,314	1,033	1,145	1,222	931	1,183	1,113	1,347	1,374	1,135
Davidson C.	489	1,153	1,053	651	1,574	1,166	1,703	810	1,099	738	895	1,254	1,112
U. of the Pacific	490	1,667	1,414	749	823	985	1,019	1,879	1,403	2,057	2,144	1,362	1,106
New Mexico Highlands U.	491	963	986	704	741	969	ne	1,086	1,015	741	ne	1,034	1,085
Texas A&M U.-Commerce	491	1,078	941	1,182	1,319	1,067	1,121	582	604	956	780	1,004	1,085
Trinity U.	493	964	1,046	1,222	1,989	1,535	1,151	956	977	1,116	878	1,195	1,078
U. of the Incarnate Word	494	ne	111	ne	ne	ne	403	ne	ne	868	1,075	869	1,076
U. Illinois, Springfield	495	332	373	554	503	405	307	527	1,169	1,108	966	971	1,056
Black Hills State U.	496	1,355	1,097	1,118	1,123	662	635	1,127	812	813	860	1,234	1,048

TABLE 80

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

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. Alaska, Southeast	497	1,150	941	887	1,001	1,158	1,341	1,502	1,480	1,636	1,235	1,092	1,046
U. Wisconsin-Oshkosh	498	769	1,100	1,140	971	1,005	1,040	ne	1,068	1,061	1,054	1,048	1,039
Furman U.	499	1,245	984	1,044	1,108	857	1,071	1,068	1,292	1,110	1,106	847	1,028
C. New Jersey	500	447	188	ne	ne	ne	ne	ne	874	778	ne	888	1,016
Texas Woman's U.	501	822	942	1,058	588	423	299	573	407	326	677	882	1,009
Clafin U.	502	3,226	5,103	5,090	2,556	1,511	1,158	1,726	1,344	1,491	1,735	1,907	1,005
Augustana U.	503	889	1,169	1,007	809	737	647	ne	890	981	784	ne	1,003
Seton Hall U.	503	2,206	1,259	679	691	688	736	825	850	724	810	539	1,003
Bowie State U.	505	ne	1,910	1,739	1,422	1,761	1,497	1,507	987	1,100	876	1,368	980
Fayetteville State U.	506	2,188	1,810	1,421	1,690	2,185	1,792	2,740	2,202	2,251	1,974	799	979
SUNY, Buffalo State	507	1,247	1,958	2,348	1,336	1,076	846	849	860	1,040	1,203	1,240	977
Union C., Schenectady	508	1,427	959	867	1,863	1,385	1,080	1,680	554	872	964	462	976
Roger Williams U.	509	1,056	1,391	1,362	1,206	1,454	1,124	1,215	1,183	854	828	844	972
Hofstra U.	510	920	948	1,117	666	997	1,836	1,762	1,307	1,060	915	606	960
New School	510	1,376	1,512	1,830	2,370	1,892	2,106	2,366	2,126	1,665	1,790	986	960
California State U., Channel Islands	512	ne	311	ne	316	520	825	244	122	269	500	513	953
Coastal Carolina U.	513	1,533	1,439	1,474	1,691	1,281	1,041	858	1,028	1,031	1,294	1,211	944
Alfred U.	514	1,645	1,964	1,625	1,447	1,310	1,305	1,318	883	1,403	1,580	947	939
Pomona C.	515	1,038	1,769	1,528	2,144	1,789	1,074	1,579	1,038	867	861	1,123	930
U. Texas, Tyler	516	1,689	977	2,084	1,325	280	309	352	613	718	813	774	929
U. Ana G. Mendez, Gurabo	517	212	377	446	362	1,008	346	357	423	418	951	946	926
Vassar C.	518	1,236	1,552	993	1,136	999	954	1,417	1,579	4,185	909	1,055	918
Calvin U.	519	2,031	556	664	731	1,208	1,034	795	880	1,332	900	864	917
U. Wisconsin-Eau Claire	520	1,271	826	786	646	393	ne	660	925	690	742	647	909
U. Wisconsin-La Crosse	521	2,150	2,013	1,876	1,240	1,095	1,006	1,250	1,158	1,171	775	809	895
Keene State C.	522	ne	846	664	482	829	820	ne	754	ne	1,022	1,043	894
CUNY, York C.	523	ne	1,507	812	693	ne	288	ne	ne	ne	1,477	1,480	889
CUNY, New York City C. of Technology	524	59	145	ne	ne	ne	ne	ne	ne	1,978	1,795	1,359	884
U. Houston-Clear Lake	525	301	818	730	875	739	541	756	753	894	718	632	865
U. Baltimore	526	1,518	2,328	2,391	2,063	2,513	2,390	3,479	2,922	1,642	1,309	1,024	848
U. Wisconsin-Green Bay	527	724	631	592	552	512	470	833	604	526	792	859	845
Dillard U.	528	2,711	5,019	7,325	7,692	6,889	8,851	7,585	5,592	5,503	1,390	1,164	841
U. Hawaii, Maui C.	528	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	841
American Samoa Community C.	530	ne	ne	ne	ne	ne	1,337	793	ne	ne	860	ne	815
Stephen F. Austin State U.	531	4,704	1,385	953	1,055	1,118	1,565	1,011	835	785	1,297	884	814
Doane U.	532	ne	1,008	546	ne	846	390	ne	ne	725	728	752	812

TABLE 80

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

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Naval War C.	533	ne	ne	0	0	0	0	0	3,797	4,384	679	724	794
Fielding Graduate U.	534	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	791
SUNY, C. Plattsburgh	535	1,187	726	454	ne	459	717	545	455	1,254	1,142	930	786
Bryn Mawr C.	536	932	1,469	1,619	1,853	1,346	1,713	1,641	1,432	1,265	1,052	833	774
Eastern Washington U.	537	46	559	725	1,226	885	955	1,244	1,181	997	811	1,092	772
CUNY, system office	538	ne	ne	819	397	352	828	774	420	1,977	1,347	869	768
U. Hartford	539	820	1,571	1,450	1,165	1,080	992	1,172	1,178	62	1,019	842	766
Pittsburg State U.	540	999	1,280	989	791	1,006	448	270	316	195	339	477	759
Hobart and William Smith Colleges	541	1,030	1,206	914	1,786	666	378	ne	528	ne	1,047	1,072	758
Abilene Christian U.	542	537	427	ne	ne	ne	ne	ne	ne	ne	ne	ne	757
Milwaukee School of Engineering	543	1,177	1,181	1,207	1,245	1,500	1,335	1,164	775	680	764	613	751
CUNY, John Jay C. of Criminal Justice	544	3,079	3,410	2,786	2,839	2,164	2,342	2,467	1,833	2,949	1,154	2,472	750
Northwestern State U. Louisiana	545	635	683	609	590	494	ne	490	458	490	579	598	738
Mercyhurst U.	546	703	174	145	134	97	77	95	405	ne	656	678	732
Biola U.	547	ne	ne	ne	ne	ne	ne	555	567	588	631	652	703
Lewis and Clark C.	548	818	684	718	1,490	1,378	872	636	723	834	931	1,268	702
Ithaca C.	549	617	627	774	788	763	570	ne	ne	ne	ne	981	685
U. Oklahoma, Tulsa	550	ne	ne	ne	ne	ne	882	1,046	883	1,531	1,415	1,559	681
Winthrop U.	551	ne	871	935	651	594	676	490	391	442	634	697	679
Saint Joseph's U.	552	960	683	565	292	147	169	160	129	163	261	775	652
Claremont McKenna C.	553	1,102	1,061	1,082	1,081	1,080	ne	604	754	555	730	741	637
Franklin W. Olin C. of Engineering	554	ne	666	1,090	946	1,050	1,103	782	473	425	111	255	636
Suffolk U.	555	ne	299	198	351	313	217	411	573	ne	ne	842	634
Claremont Graduate U.	556	4,888	1,050	6,200	7,030	5,517	4,696	3,876	3,056	2,236	1,414	803	626
Colby C.	557	1,015	1,002	1,148	989	943	1,038	1,061	1,038	1,188	1,058	787	623
Macalester C.	558	1,044	1,455	1,075	871	878	708	771	970	553	805	647	617
Northland C.	559	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	615
Southern Connecticut State U.	560	0	899	605	446	1,620	1,205	981	1,004	766	718	885	613
Austin Peay State U.	561	ne	729	481	364	189	334	301	347	599	295	475	597
Canisius C.	561	154	181	ne	ne	ne	ne	ne	1,330	1,044	943	ne	597
Dordt U.	563	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	594
Southeastern Louisiana U.	564	942	735	794	815	692	1,212	757	1,027	830	586	884	582
Minnesota State U., Mankato	565	2,001	812	667	297	296	357	1,189	522	639	708	525	575
Providence C.	566	857	726	ne	827	ne	1,162	981	783	960	857	913	574
Edward Via C. of Osteopathic Medicine	567	ne	707	502	517	250	89	88	94	195	749	566	537
Eastern Kentucky U.	568	2,371	2,736	2,149	1,630	1,251	919	1,000	758	619	598	524	530

TABLE 80

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

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
National U. of Natural Medicine	569	ne	247	ne	ne	ne	ne	ne	427	ne	760	912	523
Central Connecticut State U.	570	351	662	666	601	433	193	131	208	ne	328	518	508
Oberlin C.	571	1,359	1,183	1,330	1,204	1,204	1,364	962	1,558	1,096	1,576	743	505
Sul Ross State U.	571	1,595	1,672	1,073	735	546	333	272	440	553	339	481	505 i
U. Houston-Downtown	573	905	1,178	1,824	464	496	773	620	828	703	130	274	504
SUNY, C. Brockport	574	521	677	989	755	564	535	639	747	672	638	781	500
Lafayette C.	575	1,223	1,421	1,149	1,145	853	1,052	858	1,303	968	838	745	499
Stockton U.	576	ne	405	160	ne	380	198	221	ne	246	549	663	486
West Chester U. Pennsylvania	576	3,531 i	5,691	788	513	392	500	453	618	425	704	575	486
Willamette U.	576	441	419	911	646	672	730	757	739	807	435	222	486
Fort Hays State U.	579	ne	ne	ne	ne	ne	ne	ne	ne	ne	690	761	480
Des Moines U.	580	62	91	ne	ne	224	ne	363	842	897	805	425	459 i
California State U., Maritime Academy	581	ne	1,200	1,748	1,257	122	23	71	225	550	617	621	450
Connecticut C.	582	954	1,005	1,130	833	514	756	817	777	505	752	483	439
Grambling State U.	583	993	1,515	1,298	1,077	1,065	915	974	846	778	558	359	436
U. North Georgia	584	ne	ne	ne	ne	ne	ne	ne	257	198	222	183	435
Florida Polytechnic U.	585	na	na	na	na	na	203	ne	ne	ne	338	252	424
West Virginia School of Osteopathic Medicine	586	22	17	ne	ne	ne	ne	ne	ne	ne	ne	414	418
Salisbury U.	587	422	586	360	674	1,155	967	841	806	369	658	204	416
SUNY, Oswego	588	644	871	ne	673	ne	ne	ne	669	661	628	492	415
Pepperdine U.	589	199	172	428	465	586	724	966	343	289	399	261	410
Manhattan C.	590	166	245	ne	ne	ne	ne	ne	ne	ne	245	398	397
Purdue U., Fort Wayne	591	1,231	1,490	1,132	1,121	806	956	742	688	766	476	561	379
U. California, Office of the President	591	121	483	1,048	599	248	181	295	288	343	319	217	379
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	593	ne	106	179	340	523	264	643	206	201	191	342	376
Drake U.	594	361	229	ne	560	ne	ne	830	486	262	220	ne	371
Albany State U.	595	396	893	1,988	1,532	1,271	1,005	965	842	649	903	506	370
Northern Michigan U.	596	287	124	ne	ne	ne	ne	228	96	151	258	418	366
Marshall B. Ketchum U.	597	ne	ne	ne	ne	48	224	375	368 i	354 i	336 i	323 i	343 i
U. North Carolina, general administration	598	ne	ne	ne	ne	ne	337	174	161	98	213	562	342
Marymount U.	599	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	337
U. Wisconsin-Platteville	600	46	50 i	ne	ne	287 i	266 i	ne	299 i	ne	294 i	292 i	321 i
Philadelphia C. of Osteopathic Medicine	601	812	850	694	277	104	192	150	260	260	346	422	318
Grinnell C.	602	1,155	287	648	372	414	546	340	582	588	326	617	309
Heidelberg U.	603	ne	266 i	ne	349	199	272	294	428	163	164	188	308

TABLE 80

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

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021			
C. Wooster	604	249	512	183	ne	404	386	i	ne	736	744	456	283	300	i	
Indiana State U.	605	990	1,352	1,268	858	1,005	925		954	510	629	821	635	292		
Albion C.	606	ne	113	ne	ne	ne	ne		ne	210	114	180	272	289	i	
St. Cloud State U.	607	501	380	215	420	797	1,299		561	554	494	515	141	273		
U. Massachusetts, central office	608	ne	ne	485	131	185	86		201	402	408	333	410	272		
St. Olaf C.	609	1,235	843	1,220	955	760	668		849	769	287	240	227	265		
Indiana U., South Bend	610	282	494	375	638	575	408		344	239	100	ne	ne	262		
Seattle U.	610	467	i	622	530	ne	848	890	809	748	873	574	487	262		
Hamilton C.	612	812	1,085	1,070	848	413	202		173	48	78	88	61	259		
Andrews U.	613	280	77	ne	ne	ne	ne		ne	ne	ne	278	263	256		
U. San Francisco	614	335	313	1,842	858	738	503		280	405	310	198	148	255		
Lawrence Technological U.	615	2,809	2,425	1,106	985	739	971		326	569	457	294	296	252		
Oregon Institute of Technology	615	ne	193	ne	ne	ne	63	1,268	694	i	217	437	i	326	252	i
U. of Mary Washington	617	ne	563	i	79	ne	ne		187	ne	ne	46	128	207	246	
Kean U.	618	ne	550	1,191	347	ne	244		8	ne	ne	ne	522	242		
U. Wisconsin-River Falls	619	134	174	i	ne	ne	ne		ne	501	445	ne	488	212		
Azusa Pacific U.	620	ne	970	609	i	ne	ne	323	606	334	199	125	128	206		
Lipscomb U.	621	ne	ne	ne	ne	ne	ne		ne	ne	ne	ne	188	i	203	
Colorado C.	622	412	362	307	269	511	570		320	585	259	202	91	197		
Framingham State U.	623	ne	ne	ne	ne	ne	ne		ne	4	17	ne	179	188	i	
Alaska Pacific U.	624	283	349	ne	ne	ne	532		322	252	217	304	121	187		
Arcadia U.	625	460	726	537	ne	ne	ne		ne	ne	ne	ne	ne	178		
Monmouth U.	626	2,190	1,873	714	ne	635	ne		173	ne	ne	120	110	174		
Wheaton C., Wheaton	627	ne	585	114	ne	168	162		ne	70	50	301	324	148		
Fairfield U.	628	372	401	379	i	354	810	339	435	982	1,172	563	365	147		
U. Minnesota, Morris	629	243	276	ne	257	262	306		428	294	ne	195	213	140		
Elon U.	630	ne	40	111	161	143	92		194	213	285	264	106	138		
Liberty U.	631	ne	ne	ne	ne	ne	ne		ne	ne	ne	535	486	120		
Eastern Connecticut State U.	632	ne	0	ne	ne	6	17		27	19	36	181	177	108		
Sacred Heart U.	633	ne	ne	ne	ne	ne	ne		ne	ne	ne	ne	ne	103		
U. Michigan, Flint	634	32	181	ne	ne	ne	ne		ne	219	159	122	220	72		
Rhode Island School of Design	635	ne	289	ne	ne	ne	252		274	i	269	i	212	i	215	i
Roseman U. of Health Sciences	636	ne	0	ne	ne	131	0		0	0	18	37	i	56	53	
C. of Saint Benedict	637	ne	0	ne	72	71	53		38	44	47	45	i	43	i	
Jacksonville State U.	638	133	265	ne	ne	ne	13		307	209	i	199	67	30	37	
Niagara U.	639	162	150	118	28	0	4		0	0	125	114	18	21		

TABLE 80

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

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Kettering U.	640	4,477	3,452	1,985	1,084	908	666	817	1,395	883	321	423	17
All other surveyed institutions	-	1,090,493	1,235,942	1,196,834	1,111,487	888,563	863,931	893,233	932,087	994,356	393,498	353,529	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

^a Johns Hopkins University includes the Applied Physics Laboratory, with \$1,881,568 thousand in federally financed R&D expenditures in science and engineering fields in FY 2021.

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

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

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

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

Note(s):

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

Source(s):

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