

TABLE 24

## Federally financed higher education R&amp;D expenditures, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
All institutions	-	37,477,582	40,768,251	40,142,223	39,445,931	37,961,118	37,846,802	38,788,615	40,248,750	41,861,164	44,461,456	46,114,365	49,143,460
Johns Hopkins U. <sup>a</sup>	1	1,737,261	1,884,025	1,857,580	1,898,927	1,950,016	1,992,837	2,104,653	2,178,605	2,251,097	2,482,130	2,682,410	2,774,643
U. Washington, Seattle	2	829,885	948,976	909,652	928,193	909,034	906,768	946,787	952,738	989,221	992,643	1,024,195	1,046,377
U. Michigan, Ann Arbor	3	747,778	820,125	791,729	814,167	742,160	735,447	786,749	829,695	849,123	886,851	884,880	891,125
Georgia Institute of Technology	4	372,122	427,867	484,212	522,134	512,015	551,084	568,430	584,891	654,877	716,207	790,518	852,319
Columbia U. in the City of New York	5	572,213	645,233	645,573	635,987	608,588	592,545	600,457	647,840	686,338	736,536	762,289	831,648
Stanford U.	6	593,016	656,114	636,348	652,472	637,730	675,930	694,693	710,698	711,443	738,957	751,414	811,183
U. California, San Diego	7	580,279	636,879	656,891	632,593	599,095	603,343	604,298	641,469	635,888	698,925	727,289	801,117
U. Pennsylvania	8	642,180	707,051	669,970	636,589	620,396	611,620	655,791	669,911	688,313	717,359	721,308	792,089
Duke U.	9	514,084	585,262	587,268	581,695	557,969	559,217	575,521	623,573	645,259	709,705	707,746	776,632
U. North Carolina, Chapel Hill	10	545,993	600,843	606,348	623,237	610,664	585,758	632,426	676,282	701,169	720,613	706,145	747,895
U. Pittsburgh, Pittsburgh	11	594,675	662,471	637,857	622,232	582,136	561,210	580,650	617,884	649,166	677,559	689,273	724,993
U. California, Los Angeles	12	538,521	563,560	539,054	501,368	465,170	489,404	487,869	487,846	576,076	600,714	655,030	721,043
U. Maryland <sup>b</sup>	13	na	na	na	na	na	na	na	na	na	696,880	689,125	713,283
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	475,794	519,844	518,184	503,227	480,384	477,143	503,221	541,608	552,242	576,776	585,170	647,656
U. Wisconsin-Madison	16	545,189	593,633	580,661	555,875	548,388	533,286	567,132	570,796	574,048	608,925	632,558	646,764
Pennsylvania State U., University Park and Hershey Medical Center	17	464,750	468,705	531,421	558,871	520,574	513,410	538,938	538,164	565,348	600,489	638,930	622,532
Harvard U.	18	474,899	543,097	589,860	594,392	572,918	545,202	558,611	573,157	587,584	618,405	605,603	616,589
Washington U., Saint Louis	19	468,642	469,490	441,406	411,299	419,122	432,228	442,335	474,446	506,006	543,508	559,882	606,127
Cornell U.	20	448,085	476,583	472,673	445,116	439,770	446,360	430,987	438,182	470,020	525,182	562,021	592,359
Vanderbilt U. and Vanderbilt U. Medical Center	21	397,656	458,173	448,948	445,044	422,448	401,738	405,589	452,885	471,625	492,808	514,299	586,880
U. Southern California	22	408,564	453,283	443,842	437,813	431,430	421,227	409,516	450,204	501,893	543,607	562,120	574,185
Northwestern U.	23	360,980	399,719	393,074	396,138	391,946	393,186	432,413	446,609	469,525	502,300	531,654	572,975
U. Minnesota, Twin Cities	24	426,359	489,480	485,462	494,206	489,767	476,029	469,260	456,443	464,300	494,549	514,092	570,946
Ohio State U.	25	399,942	493,130	445,635	456,590	454,484	446,048	454,834	464,311	474,994	497,651	539,359	559,797
Icahn School of Medicine at Mount Sinai	26	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.	27	260,463	302,221	316,208	300,730	330,484	344,570	350,355	391,144	416,143	436,850	448,850	547,027
Texas A&M U., College Station and Health Science Center	28	288,173	291,812	269,460	314,104	311,920	304,437	293,551	307,656	333,768	359,609	517,489	528,057
Emory U.	29	336,986	369,982	361,165	365,121	330,378	348,071	361,288	382,177	393,647	424,461	452,636	515,940
U. Texas, Austin	30	350,308	355,437	354,873	372,633	332,758	346,215	357,309	396,447	405,131	407,981	500,409	489,827
Massachusetts Institute of Technology	31	457,575	489,080	496,132	490,809	483,891	488,421	503,858	487,434	479,654	489,345	488,741	483,526
U. Colorado Boulder	32	292,030	323,078	330,089	319,869	314,890	353,341	371,995	374,209	391,817	412,691	427,869	459,816
U. Alabama, Birmingham	33	325,103	344,164	306,210	290,082	280,333	328,531	348,632	358,916	373,360	398,403	400,110	423,290

TABLE 24

**Federally financed higher education R&D expenditures, 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	279,649	306,349	305,067	296,199	289,327	287,230	307,140	327,288	355,517	387,906	397,202	423,154
U. Illinois, Urbana-Champaign	35	303,852	323,454	359,989	468,798	343,275	338,178	335,056	358,905	353,710	382,206	387,853	406,612
Boston U.	36	302,411	305,476	275,319	267,194	257,017	259,736	253,475	259,832	284,888	318,511	339,172	402,443
U. Chicago	37	352,728	372,288	336,125	300,718	281,464	294,437	297,953	308,002	303,175	332,776	352,447	394,275
U. California, Davis	38	332,325	362,976	358,577	347,038	330,367	326,039	339,209	342,407	360,018	374,707	380,965	373,719
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 <sup>C</sup>	40	na	na	na	na	na	na	na	na	na	na	na	363,999
U. California, Berkeley	41	312,789	336,191	338,759	311,809	313,390	346,262	341,807	330,339	329,464	347,601	349,989	354,478
U. Arizona	42	308,157	327,565	331,578	338,790	290,370	269,959	262,989	273,567	291,767	327,025	328,807	353,117
Michigan State U.	43	214,134	240,837	268,952	260,610	261,826	272,838	310,225	343,751	328,618	331,148	329,748	349,889
Case Western Reserve U.	44	333,689	353,470	359,000	349,487	329,320	308,434	321,214	326,643	349,177	357,549	357,589	340,438
U. Utah	45	227,021	264,234	273,150	301,045	288,514	274,375	233,652	248,908	307,844	302,585	314,023	340,434
Rutgers, State U. New Jersey, New Brunswick	46	224,894	239,908	279,161	295,028	360,157	323,675	321,432	340,801	350,912	297,609	311,743	339,015
Oregon Health and Science U.	47	247,054	268,777	242,337	246,491	247,740	245,509	232,688	245,199	264,492	298,227	321,572	329,016
Indiana U., Bloomington	48	71,208	74,143	79,727	85,852	84,592	210,899	221,801	245,155	249,243	308,586	319,039	326,326
U. Rochester	49	322,048	337,907	308,115	299,553	266,767	262,681	266,322	267,860	285,330	306,551	296,241	309,647
U. Cincinnati	50	262,513	287,182	267,691	258,460	245,086	251,717	231,817	242,237	250,202	252,892	285,899	309,097
Colorado State U., Fort Collins	51	211,297	236,566	252,286	219,856	212,054	219,321	232,108	239,165	268,747	284,482	287,100	303,901
U. Virginia, Charlottesville	52	228,917	252,928	240,254	225,567	205,865	203,401	210,980	228,910	250,168	276,335	300,348	297,273
Purdue U., West Lafayette	53	232,564	259,948	270,655	271,504	236,860	217,330	229,093	245,110	251,517	249,831	270,605	295,278
California Institute of Technology	54	328,522	342,945	326,701	282,823	279,515	272,673	265,206	277,358	280,451	287,198	316,519	293,197
U. Iowa	55	282,465	283,627	269,734	255,329	235,527	225,587	237,743	238,842	246,117	252,563	259,639	283,763
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
Arizona State U.	57	172,202	185,766	194,376	201,363	196,270	196,528	212,396	227,621	254,384	267,087	278,150	274,541
Scripps Research Institute	58	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.	59	90,581	113,871	108,501	106,985	114,959	120,369	125,661	138,518	159,447	220,504	242,156	264,575
U. Texas Southwestern Medical Center	60	232,027	231,639	207,513	198,114	185,137	183,787	185,263	200,085	197,910	203,544	242,679	257,611
U. California, Irvine	61	194,559	209,117	206,985	198,730	182,585	174,875	177,779	187,535	201,173	217,094	241,734	255,010
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
U. New Mexico	63	148,216	162,854	160,895	158,057	153,889	154,794	159,280	165,128	169,952	159,940	161,627	242,212
North Carolina State U.	64	139,096	155,293	174,758	177,118	181,449	199,862	202,336	218,274	219,258	228,945	232,110	239,115
U. Illinois, Chicago	65	232,380	248,936	246,128	222,566	203,733	196,010	187,990	198,049	196,840	208,603	223,030	237,949
Carnegie Mellon U.	66	179,386	200,967	209,522	215,560	198,247	187,259	190,620	189,974	181,958	197,978	217,625	234,993
U. Miami	67	197,824	225,352	224,172	205,870	203,751	193,606	195,328	194,385	192,598	212,023	224,184	231,001
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 24

## Federally financed higher education R&amp;D expenditures, ranked by FY 2021 R&amp;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	171,528	179,161	159,678	150,468	142,312	146,548	154,559	171,323	171,672	192,945	200,664	220,703
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
Virginia Polytechnic Institute and State U.	71	162,566	189,198	184,175	201,646	204,308	196,096	195,859	186,054	199,897	209,607	210,792	216,733
Albert Einstein C. of Medicine	72	na	na	na	na	na	na	188,521	188,259	196,457	202,513	204,635	214,619
SUNY, U. Buffalo	73	167,099	182,585	193,613	204,995	189,209	177,441	182,883	186,836	186,494	182,983	200,155	210,257
Princeton U.	74	150,261	163,438	161,591	156,541	164,277	158,313	162,003	176,029	180,305	193,453	203,259	205,000
Brown U.	75	127,087	128,628	131,994	126,559	129,248	132,142	136,931	145,556	164,452	178,460	185,676	198,574
U. Oklahoma, Norman and Health Science Center	76	105,366	118,970	133,841	132,456	118,925	127,709	134,772	133,177	149,317	164,855	183,728	193,639
Wake Forest U.	77	159,084	173,130	172,779	156,506	153,069	148,451	141,052	148,001	154,363	165,702	166,596	188,887
U. Georgia	78	119,486	137,255	137,710	131,824	126,164	132,118	143,886	158,229	148,543	159,948	171,351	188,451
U. Kansas	79	147,598	162,721	171,043	174,021	165,442	155,835	140,002	148,178	155,147	169,694	185,007	187,249
U. South Florida <sup>d</sup>	80	243,017	243,030	236,148	225,414	222,790	218,338	228,365	250,384	179,024	181,882	158,958	185,364
U. Connecticut	81	132,169	144,280	153,264	148,651	144,104	137,980	146,390	145,637	144,048	159,220	164,848	183,362
U. Dayton	82	73,540	70,996	65,169	67,698	66,318	77,973	100,955	118,452	132,358	153,328	154,101	181,445
Washington State U.	83	113,452	123,502	129,255	134,329	126,955	134,889	136,646	152,843	151,133	158,982	154,623	179,536
Oregon State U.	84	135,886	146,882	156,446	149,396	145,247	153,017	158,142	163,479	171,805	168,571	167,494	179,180
Iowa State U.	85	109,461	117,522	118,242	121,993	116,273	114,518	125,397	128,221	147,679	147,866	165,912	169,177
Tufts U.	86	116,699	122,208	121,512	113,450	116,204	121,428	126,109	139,532	139,334	146,630	148,320	166,809
U. Texas Health Science Center, Houston	87	150,324	156,790	146,424	144,235	136,145	125,890	121,098	124,461	128,232	132,647	133,624	165,139
U. Missouri, Columbia	88	116,965	116,403	114,345	111,510	104,910	105,015	126,071	134,525	138,029	139,781	156,190	163,576
SUNY, Stony Brook U.	89	120,146	125,102	123,383	118,513	111,683	115,150	118,549	125,688	136,241	144,618	146,478	162,972
Medical U. South Carolina	90	131,650	143,464	136,907	127,472	118,649	117,255	124,212	134,072	142,639	153,226	153,802	162,394
George Washington U.	91	122,357	116,611	112,110	120,857	141,552	139,016	142,889	148,369	156,768	155,697	157,533	161,349
Virginia Commonwealth U.	92	144,138	153,228	142,053	135,804	138,559	142,447	143,701	147,585	140,363	142,293	152,751	160,995
U. Hawaii, Manoa	93	196,275	201,700	193,722	225,359	206,810	200,202	190,336	182,337	167,030	167,816	163,694	157,772
U. Delaware	94	105,454	118,673	117,072	119,756	116,340	114,245	113,217	117,813	118,573	133,020	144,142	157,725
Temple U.	95	79,939	89,719	90,243	131,872	126,803	129,499	140,775	153,404	155,312	161,673	154,600	153,316
Dartmouth C. and Dartmouth Hitchcock Medical Center	96	118,271	131,583	147,421	155,209	145,498	146,233	139,090	137,448	140,399	137,965	142,219	152,335
Florida State U.	97	134,794	140,850	140,419	148,413	151,701	139,597	126,289	134,278	147,184	149,784	162,296	150,108
Northeastern U.	98	59,074	67,938	77,667	85,170	79,666	80,576	81,124	93,572	114,711	126,762	136,273	143,421
Medical C. Wisconsin	99	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 <sup>e</sup>	100	96,972	111,942	112,471	117,836	112,201	105,417	109,722	117,097	117,776	123,434	138,402	135,202
Georgetown U.	101	120,589	123,540	115,197	114,760	100,475	88,015	83,827	94,435	89,977	94,050	98,682	130,419
U. Alaska, Fairbanks	102	99,657	105,469	99,674	94,953	85,904	81,586	89,940	97,314	94,998	92,964	101,414	128,229
U. California, Santa Barbara	103	129,457	136,244	136,352	132,960	121,045	116,232	116,775	117,457	113,388	118,517	123,198	122,168

TABLE 24

**Federally financed higher education R&D expenditures, 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
Wayne State U.	104	132,166	134,735	126,915	119,520	113,618	109,586	111,532	109,421	111,018	118,043	113,137	117,976
U. Texas Medical Branch	105	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	106	73,075	72,665	78,528	85,738	75,343	67,451	69,824	68,609	74,650	85,211	104,288	116,971
Mississippi State U.	107	106,324	98,998	96,689	74,075	71,715	80,097	87,277	87,928	89,012	104,738	120,616	116,713
U. Massachusetts, Amherst	108	97,937	107,683	115,280	111,448	110,189	103,417	106,269	108,871	110,654	117,359	116,170	116,349
Tulane U.	109	106,872	111,007	101,360	97,994	94,486	84,166	89,087	93,970	102,201	104,219	107,290	113,819
Montana State U., Bozeman	110	93,100	87,528	86,511	73,619	72,777	69,136	68,471	74,788	75,524	88,955	93,759	113,257
U. Nebraska, Medical Center	111	80,784	86,295	84,196	80,750	76,195	71,918	76,221	84,814	93,463	102,604	105,158	111,042
U. Notre Dame	112	62,152	79,716	83,295	79,564	79,690	83,710	87,129	91,787	96,182	106,411	104,030	109,891
Thomas Jefferson U.	113	77,817	80,027	68,976	56,247	54,676	58,536	58,866	62,029	64,869	74,816	74,676	109,448
U. Central Florida	114	69,331	69,098	78,411	76,533	70,716	88,814	87,417	89,904	97,539	99,310	101,332	109,310
U. Texas Health Science Center, San Antonio	115	121,723	121,200	106,177	99,198	89,303	85,940	89,742	85,455	86,956	96,502	102,959	106,824
U. Nebraska, Lincoln	116	98,417	108,059	106,725	100,592	94,265	95,831	95,426	101,532	103,565	109,954	107,299	106,564
Florida International U.	117	62,580	65,446	69,402	72,357	78,961	76,528	76,127	71,579	85,541	96,912	103,366	105,309
George Mason U.	118	63,011	65,301	63,786	65,096	61,877	63,600	58,864	57,345	69,481	96,307	104,070	103,712
U. Vermont	119	98,635	101,471	87,843	85,118	79,743	83,733	83,124	78,394	86,940	90,405	97,981	103,554
Louisiana State U., Baton Rouge	120	97,407	97,517	92,551	94,563	94,701	83,644	86,754	81,644	84,309	88,721	87,895	103,178
U. New Hampshire	121	84,553	106,806	119,451	102,053	101,125	92,040	93,599	92,338	95,807	90,241	100,373	99,323
U. South Carolina, Columbia	122	125,501	103,296	98,836	91,612	91,890	90,453	93,885	96,048	88,602	102,992	97,143	97,193
U. California, Riverside	123	63,127	62,312	63,821	59,065	57,397	63,515	70,489	76,795	77,314	81,151	92,503	97,182
U. Louisville	124	93,260	96,010	89,976	78,144	65,849	68,345	72,644	72,119	80,511	87,563	88,251	97,179
Rockefeller U.	125	88,705	97,710	84,616	80,384	81,820	81,949	80,667	86,763	87,231	84,566	86,280	96,318
Rice U.	126	69,395	78,730	76,964	80,075	73,965	74,266	83,273	84,469	78,175	83,584	88,768	95,648
Drexel U.	127	77,438	83,702	87,860	76,343	77,684	69,462	67,020	70,921	82,777	85,278	82,576	93,517
Auburn U., Auburn	128	53,971	59,559	55,557	57,253	50,088	48,352	54,751	55,700	58,488	64,333	73,468	91,157
Clemson U.	129	62,934	52,919	51,764	52,002	49,887	53,136	60,165	70,256	73,735	81,080	82,203	89,883
West Virginia U.	130	79,415	88,419	82,149	74,704	69,165	68,731	72,751	72,767	76,527	82,353	79,657	89,802
U. California, Santa Cruz	131	84,518	97,817	94,222	91,002	90,858	92,870	95,294	66,563	63,197	74,669	76,468	86,263
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. Oregon	133	76,378	84,997	86,316	75,423	74,603	69,723	66,850	69,598	71,568	80,083	81,278	82,242
Georgia State U.	134	27,073	28,210	34,075	37,521	42,259	50,122	52,351	71,248	71,650	70,185	78,199	79,834
U. Rhode Island	135	62,981	78,303	83,754	74,870	65,715	64,711	61,641	62,785	64,026	73,080	67,242	78,923
Kansas State U.	136	68,560	76,953	77,689	70,167	67,438	69,918	71,224	75,468	80,436	81,269	79,100	77,779
U. Houston	137	52,920	59,580	55,812	61,038	58,954	58,458	62,703	60,033	63,801	68,523	71,779	77,489
Wichita State U.	138	13,751	20,569	19,078	13,434	10,424	7,728	10,442	21,685	18,706	29,634	53,540	77,427
U. Nevada, Reno	139	58,115	57,220	55,437	56,900	53,363	51,724	53,371	54,782	62,635	62,903	64,793	77,246

TABLE 24

**Federally financed higher education R&D expenditures, 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	50,051	54,250	59,398	57,466	54,655	55,094	67,490	79,397	91,999	89,846	85,746	77,057
U. Mississippi	141	71,475	74,918	74,955	64,590	64,218	59,978	64,510	62,483	63,736	73,865	82,361	76,886
Rush U.	142	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. Montana, Missoula	143	40,760	38,565	35,984	34,021	30,319	33,718	38,753	44,534	54,708	55,566	62,067	70,686
U. Louisiana, Lafayette	144	12,881	14,659	13,848	11,090	10,666	15,799	16,893	23,895	28,874	34,400	40,044	65,436
U. Maine	145	50,163	59,800	39,661	34,252	50,589	35,369	34,277	37,321	45,348	51,049	54,376	65,249
New Mexico State U.	146	98,399	90,598	90,722	86,806	80,599	78,903	62,292	59,885	54,009	58,022	60,971	64,699
Augusta U.	147	na	na	na	47,913	47,771	50,585	50,294	48,921	48,800	47,031	55,797	61,943
Colorado School of Mines	148	29,892	33,789	33,481	32,399	34,781	34,266	35,677	37,505	40,161	49,603	55,560	61,421
U. Maryland, Baltimore County	149	59,448	61,172	45,014	44,662	47,538	47,954	50,984	52,014	53,522	56,993	59,391	59,882
U. North Dakota	150	52,504	54,058	54,476	46,491	40,340	37,697	42,425	43,262	51,050	49,700	44,153	58,463
U. Texas, Dallas	151	30,754	33,216	35,297	33,920	32,699	31,068	35,451	36,097	40,046	48,466	55,983	58,249
Cold Spring Harbor Laboratory	152	ne	51,529	43,874	41,002	41,845	49,063	50,478	54,260	67,139	73,854	62,215	56,907
SUNY, U. Albany	153	124,324	125,189	112,989	114,158	105,333	79,681	77,734	85,469	87,451	92,709	67,039	56,425
U. Tennessee, Health Science Center	154	52,652	51,842	48,473	42,269	41,830	39,356	38,374	39,138	39,421	42,396	48,264	56,021
Naval Postgraduate School	155	93,605	94,278	127,049	91,134	96,573	78,780	56,045	47,082	44,140	54,358	51,870	54,855
U. Wyoming	156	45,323	48,932	57,441	53,971	42,280	48,970	63,951	56,410	42,595	52,082	57,353	54,444
U. Alabama, Tuscaloosa	157	26,364	32,999	33,023	28,375	26,161	28,988	28,425	27,692	30,447	37,916	43,017	53,880
Rensselaer Polytechnic Institute	158	54,847	59,284	62,341	60,870	59,070	59,528	52,163	51,130	50,120	50,448	52,150	52,465
Brandeis U.	159	43,669	48,235	44,532	45,337	47,532	47,841	48,273	46,108	38,632	41,475	41,440	52,147
U. Idaho	160	46,303	54,243	55,115	53,986	50,638	50,559	51,295	50,935	51,172	51,529	51,450	51,021
U. Arkansas, Fayetteville	161	33,674	37,587	34,189	30,625	26,111	34,288	40,642	46,490	52,937	50,875	47,454	48,534
U. Massachusetts, Lowell	162	25,550	27,960	26,786	27,360	28,654	31,059	27,694	29,471	30,086	35,309	41,304	48,179
Oklahoma State U., Stillwater	163	56,998	81,855	85,876	44,200	36,687	38,585	42,976	44,977	43,421	39,880	39,873	47,428
Cleveland State U.	164	25,024	42,575	46,645	50,243	44,233	41,851	49,925	52,541	55,468	51,475	53,756	47,402
U. Texas, Arlington	165	31,628	30,659	33,150	30,815	24,857	27,712	26,664	33,111	36,027	41,764	44,950	46,946
U. Southern Mississippi	166	37,054	40,984	37,524	28,694	26,163	25,005	25,482	27,661	31,815	46,924	42,870	44,401
U. Texas, El Paso	167	34,617	35,399	40,024	38,253	35,304	41,897	42,423	44,811	44,352	41,261	39,126	43,930
San Diego State U.	168	56,504	64,056	56,797	51,274	50,542	46,870	44,495	39,417	39,453	39,515	41,117	43,473
U. Texas, San Antonio	169	28,717	31,972	32,672	29,078	23,066	23,511	25,813	29,947	29,824	34,588	34,334	42,952
North Dakota State U.	170	51,883	53,451	46,490	38,453	36,277	35,482	35,590	34,923	35,122	35,322	31,614	42,824
Northern Arizona U.	171	15,070	17,765	16,015	15,638	18,209	20,285	23,442	26,035	29,648	35,980	39,387	41,744
Michigan Technological U.	172	27,676	32,724	33,189	32,086	30,588	28,692	29,774	28,483	32,606	34,709	36,172	41,505
Saint Louis U.	173	33,728	38,323	35,873	31,645	30,071	27,580	26,813	27,436	28,121	34,275	34,419	41,411
Florida A&M U.	174	45,856	44,905	42,937	39,675	36,570	36,975	37,363	30,383	32,422	35,362	33,136	36,761
Howard U.	175	33,017	36,060	37,690	33,966	32,663	38,820	33,441	34,762	33,602	29,978	29,256	35,443

TABLE 24

**Federally financed higher education R&D expenditures, 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
Mercer U.	176	18,778	17,904	19,963	19,411	19,666	21,563	21,120	19,772	18,999	27,035	31,572	34,413
Louisiana State U., Health Sciences Center, New Orleans	177	46,142	45,581	40,637	36,886	34,637	36,027	31,526	28,018	26,988	31,290	31,381	34,272
Boston C.	178	33,290	31,953	30,855	27,975	25,115	23,352	27,033	30,448	30,541	32,475	31,038	34,257
CUNY, City C.	179	32,900	40,595	39,572	40,094	40,095	38,434	37,525	35,429	36,866	33,065	30,106	34,218
Syracuse U.	180	33,796	33,850	33,156	27,729	29,404	32,378	36,106	39,781	39,538	37,803	31,861	34,200
Stevens Institute of Technology	181	29,370	32,570	27,420	24,812	23,656	25,980	28,999	26,855	26,281	28,342	33,461	33,998
Texas Tech U.	182	35,970	35,191	29,969	28,827	33,137	32,987	32,405	31,347	31,357	35,136	31,475	33,938
U. Puerto Rico, Medical Sciences Campus	183	29,813	54,381	35,173	31,037	30,197	31,889	33,348	29,869	30,597	34,570	27,033	33,262
U. Toledo	184	38,389	44,881	41,072	40,497	34,684	27,085	27,802	24,167	25,323	28,273	27,770	32,601
U. North Texas, Health Science Center	185	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.S. Air Force Academy	186	49,711	62,118	43,431	45,169	34,669	30,637	46,958	40,062	27,973	35,294	33,554	31,818
Boise State U.	187	14,614	18,811	20,070	16,117	15,746	18,296	16,953	19,806	24,918	24,493	26,914	31,357
Rochester Institute of Technology	188	23,254	20,396	19,394	18,379	19,465	20,147	26,149	27,311	25,990	26,359	28,092	31,187
Texas State U.	189	8,904	10,319	11,950	14,908	14,243	18,289	21,049	25,132	30,314	29,614	26,950	31,116
San Jose State U.	190	24,292	26,389	24,153	27,780	32,901	33,782	31,318	31,396	33,886	35,143	34,102	30,877
Brigham Young U., Provo	191	22,115	24,273	22,069	23,639	24,490	24,250	28,453	26,441	23,892	23,901	24,632	30,439
Indiana U.-Purdue U., Indianapolis	192	148,672	156,607	166,825	152,578	143,386	18,479	19,954	20,035	22,834	27,349	31,862	30,290
Worcester Polytechnic Institute	193	13,582	15,714	12,968	17,003	19,643	26,327	25,976	19,566	18,635	22,964	26,074	30,166
William & Mary	194	27,685	30,361	32,526	31,628	33,320	33,129	34,133	32,760	33,503	31,983	30,436	29,928
Portland State U.	195	36,996	41,580	42,662	40,377	33,523	29,987	32,021	32,727	31,234	33,055	31,315	29,842
Lehigh U.	196	23,721	22,390	23,312	24,831	24,271	22,910	21,429	25,228	25,834	26,554	26,816	29,051
Florida Atlantic U.	197	17,268	15,579	17,226	13,555	13,234	11,574	15,356	17,172	18,771	21,667	23,695	28,510
SUNY, Downstate Health Sciences U.	198	25,023	33,964	34,884	31,972	25,802	20,779	25,941	22,496	26,302	26,914	26,454	27,620
U. Nevada, Las Vegas	199	32,441	30,457	25,068	24,502	26,950	27,493	25,613	29,172	33,727	28,381	29,252	27,178
U. North Carolina, Charlotte	200	17,284	15,930	19,230	20,994	19,069	19,132	20,269	20,462	22,386	26,199	27,618	27,145
Air Force Institute of Technology	201	15,474	20,196	19,579	18,739	16,782	16,727	19,796	25,588	23,393	21,856	22,854	27,025
Loyola U., Chicago	202	28,995	28,633	28,530	33,074	31,189	28,200	25,363	23,324	21,994	23,562	24,018	26,793
Missouri U. of Science and Technology	203	28,239	27,961	23,731	25,571	21,811	17,632	18,833	19,567	21,835	22,426	22,860	26,164
North Carolina Agricultural and Technical State U.	204	23,883	22,652	22,477	21,663	23,373	22,413	21,112	24,496	24,874	23,863	22,338	25,755
Old Dominion U.	205	34,687	39,534	38,555	39,963	41,270	40,002	39,743	42,412	32,584	31,355	30,330	25,514
SUNY, Polytechnic Institute	206	na	na	na	na	21,208	14,641	21,380	41,252	41,795	38,245	27,998	25,427
Morehouse School of Medicine	207	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.	208	27,959	28,663	27,013	23,730	21,334	19,213	18,942	19,991	20,391	22,028	23,940	24,974
New Mexico Institute of Mining and Technology	209	42,243	37,316	29,894	23,581	33,245	20,018	17,017	18,358	19,560	22,864	22,922	24,900
Illinois Institute of Technology	210	28,349	34,858	27,767	28,319	25,679	25,826	23,821	26,330	28,265	28,827	24,244	24,762
U. North Carolina, Greensboro	211	19,477	20,868	16,530	13,658	13,489	14,978	17,902	17,354	17,016	18,923	20,447	24,423

TABLE 24

## Federally financed higher education R&amp;D expenditures, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. Wisconsin-Milwaukee	212	29,042	30,479	28,862	26,450	25,377	25,587	25,651	23,916	24,612	23,342	25,354	24,397
U. South Alabama	213	14,730	16,758	13,816	13,743	14,353	15,106	17,628	16,627	15,098	19,947	21,825	23,758
U. Massachusetts, Boston	214	24,527	26,958	33,275	24,924	27,715	28,653	30,608	29,934	30,412	25,083	27,575	23,673
U. Denver	215	13,364	14,042	11,779	15,089	14,202	12,048	11,029	11,648	15,713	22,012	24,753	23,415
SUNY, Binghamton U.	216	20,979	21,244	21,162	17,715	14,843	16,171	18,562	20,639	23,392	24,213	24,564	23,225
CUNY, Hunter C.	217	18,498	22,901	24,265	22,512	19,268	19,193	20,037	18,705	21,766	23,485	26,025	23,166
Catholic U. of America	218	15,878	19,890	17,608	17,310	17,205	19,900	19,928	19,857	20,749	21,642	22,503	23,128
East Carolina U.	219	16,113	19,675	17,838	18,227	17,409	15,079	13,073	11,526	12,611	17,428	20,168	22,813
Van Andel Research Institute	220	ne	ne	ne	ne	ne	8,138	11,970	13,108	14,285	18,259	18,538	22,231
U. Memphis	221	20,654	20,348	22,142	18,619	21,898	18,825	18,098	18,185	25,166	18,370	18,063	21,578
U. Missouri, Kansas City	222	16,391	18,988	17,522	15,774	15,178	13,327	13,081	11,296	10,596	18,624	22,320	21,203
U. Nebraska, central administration	223	ne	ne	ne	ne	ne	ne	ne	ne	13,200	18,523	23,104	20,675
Tennessee State U.	224	7,414	8,369	10,240	9,872	12,016	11,145	12,291	10,557	10,291	8,962	19,272	20,378
Wright State U.	225	24,785	27,422	25,552	26,888	27,838	26,931	30,162	35,533	43,644	41,428	35,321	19,617
Ohio U.	226	18,466	23,051	20,780	20,203	16,597	17,303	14,678	16,393	13,961	14,802	15,543	19,164
U. North Texas, Denton	227	14,444	14,754	18,043	16,515	16,318	15,470	12,621	15,668	19,026	17,345	13,653	18,702
U. California, Merced	228	9,392	10,140	11,052	10,983	10,509	12,648	12,206	14,923	14,385	16,850	20,000	18,621
South Dakota State U.	229	38,368	41,904	41,975	33,231	29,524	28,670	29,633	28,003	27,129	29,683	22,531	18,607
Ponce Health Sciences U.	230	7,569	9,318	10,486	6,249	4,960	6,729	6,951	7,108	6,386	8,339	11,228	18,284
Southern Methodist U.	231	13,312	18,502	16,640	14,274	20,611	14,324	15,587	14,464	13,439	17,869	17,752	17,886
Rowan U.	232	2,062	2,108	2,349	1,926	4,591	4,674	5,252	7,110	9,602	12,064	15,551	17,400
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
Delaware State U.	234	10,154	12,822	11,305	11,837	12,464	12,091	15,260	14,693	13,007	12,179	14,319	16,460
Morgan State U.	235	10,039	9,884	15,408	13,357	14,144	12,805	14,343	13,328	11,603	11,952	14,101	16,319
Rutgers, State U. New Jersey, Newark	236	12,631	18,226	20,588	16,295	12,520	12,611	13,737	16,617	17,516	15,397	16,196	16,281
San Francisco State U.	237	15,601	17,337	17,075	19,024	17,129	14,336	12,804	14,817	14,388	15,675	15,834	15,993
Tuskegee U.	238	12,309	12,397	12,633	16,789	14,145	12,267	10,388	10,388	10,388	14,825	15,122	15,424
Kent State U.	239	14,586	15,085	14,882	11,506	11,181	11,158	10,013	10,524	11,118	13,350	15,004	15,179
U. Puerto Rico, Rio Piedras	240	21,717	24,887	25,407	17,946	18,262	18,922	15,892	11,512	10,028	13,943	14,071	15,108
U. Alaska, Anchorage	241	9,368	9,858	10,760	9,686	7,824	8,575	11,867	12,681	13,597	14,219	15,290	15,079
Embry-Riddle Aeronautical U.	242	8,241	11,444	14,048	11,456	13,030	10,049	14,135	10,525	12,661	8,970	11,542	14,859
Eastern Virginia Medical School	243	29,291	25,319	24,694	28,728	28,532	28,637	21,459	21,209	21,356	19,408	15,748	14,774
U. Guam	244	4,962	5,391	5,448	5,554	6,599	5,586	6,621	8,067	8,597	9,339	9,722	14,316
U. Maryland Center for Environmental Science	245	12,123	18,007	16,081	16,852	13,202	14,096	13,957	15,069	15,008	17,476	15,498	14,072
Jackson State U.	246	39,457	43,001	39,511	29,700	21,677	19,656	20,854	20,136	17,385	16,259	13,662	14,038
California State U., Northridge	247	17,213	19,769	24,837	7,906	11,309	12,060	13,442	14,756	15,892	16,939	17,261	13,989

TABLE 24

## Federally financed higher education R&amp;D expenditures, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Western Michigan U. and Homer Stryker M.D. School of Medicine	248	19,738	18,736	14,378	12,322	11,334	11,869	12,287	10,565	10,828	14,399	13,187	13,944
Marquette U.	249	9,381	11,291	9,968	8,756	8,191	9,320	10,298	10,111	10,672	12,792	13,187	13,918
Meharry Medical C.	250	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	251	22,146	13,799	12,227	11,630	14,819	15,312	13,500	13,430	13,393	10,528	8,406	13,708
U. Nebraska, Omaha	252	6,014	6,333	5,980	5,693	5,687	6,066	7,180	7,486	7,939	8,807	9,996	13,503
U. West Florida	253	11,038	13,156	12,858	12,927	11,593	10,935	9,841	10,127	8,634	11,506	12,369	13,313
Albany Medical C.	254	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	255	28,369	16,338	22,605	15,627	14,992	19,456	20,951	10,968	10,852	10,445	11,787	13,099
U. Puerto Rico, Mayaguez	256	12,735	18,568	19,949	14,414	14,162	15,700	14,446	13,604	14,111	15,653	15,842	13,073
Florida Institute of Technology	257	9,175	7,637	7,500	7,543	8,581	8,315	9,500	8,465	8,511	10,352	10,999	13,049
U. Texas Rio Grande Valley	258	na	na	na	na	na	na	16,892	14,808	13,330	13,629	13,093	13,018
Marshall U.	259	18,218	21,852	13,154	13,472	12,712	11,154	9,158	9,064	8,584	9,617	11,078	12,854
U. Hawaii, system office	260	ne	ne	ne	ne	ne	ne	ne	ne	12,328	12,052	13,367	12,688
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
CUNY, Queens C.	262	13,642	15,573	14,897	15,443	16,460	14,080	14,275	11,884	12,390	13,457	12,726	12,386
Louisiana State U., Health Sciences Center, Shreveport	263	13,890	15,316	13,504	11,753	8,490	6,321	6,478	7,055	9,235	12,185	11,452	12,359
CUNY, Graduate School of Public Health and Health Policy	264	na	na	na	na	na	na	na	na	5,080	5,572	8,722	12,254
Texas Tech U., Health Sciences Center	265	12,950	14,790	13,944	14,820	9,853	10,251	10,384	9,143	7,546	11,345	13,043	12,148
American U.	266	8,841	9,208	7,515	10,421	9,427	9,449	9,554	8,800	13,013	15,229	16,123	12,076
U. Texas Health Science Center, Tyler	267	ne	ne	ne	ne	ne	3,713	3,757	5,792	6,438	7,084	7,732	12,007
U. Colorado Denver <sup>c</sup>	268	na	na	na	na	na	na	na	na	na	na	na	11,866
CUNY, Advanced Science Research Center	269	na	na	na	na	na	257	ne	2,355	4,027	6,859	9,208	11,840
U. Baltimore	270	1,812	3,288	3,386	2,906	2,947	2,998	3,769	4,289	7,431	9,103	11,748	11,692
U. South Dakota	271	16,467	14,490	14,088	15,274	12,162	9,214	8,832	11,134	12,523	13,367	13,034	11,664
South Dakota School of Mines and Technology	272	25,172	28,105	14,480	7,853	7,078	9,286	10,370	10,639	10,240	9,283	10,659	11,587
Hampton U.	273	14,455	12,292	15,356	12,620	11,153	14,735	14,201	16,249	14,170	13,390	11,278	11,517
Xavier U. Louisiana	274	5,669	6,673	7,177	5,856	7,078	7,735	10,503	10,939	10,165	8,679	9,680	11,213
California State U., Long Beach	275	12,731	12,055	11,379	10,701	7,879	6,198	11,176	13,085	14,021	13,579	12,014	11,178
California Polytechnic State U., San Luis Obispo	276	11,637	8,658	10,125	10,280	9,087	9,796	11,276	10,535	9,613	9,720	10,178	11,163
Baylor U.	277	2,947	3,704	3,513	3,510	4,062	3,878	4,244	5,265	5,782	6,955	8,851	11,025
Texas A&M U.-Corpus Christi	278	7,869	7,506	5,446	6,129	7,176	9,491	8,669	10,259	12,815	14,451	13,349	10,967
New York Medical C.	279	21,095	21,013	16,471	13,806	11,421	11,326	10,772	9,000	8,141	11,061	12,106	10,739
North Carolina Central U.	280	6,870	9,496	11,076	8,253	9,757	10,874	10,455	11,977	12,947	13,503	12,787	10,676
Nova Southeastern U.	281	5,718	6,904	6,653	5,379	5,992	5,896	7,381	7,979	7,853	8,965	10,452	10,386



TABLE 24

## Federally financed higher education R&amp;D expenditures, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U.S. Naval Academy	282	10,750	10,243	9,322	10,482	10,416	8,978	11,016	12,963	13,331	12,991	12,577	10,247
Loma Linda U.	283	29,284	32,187	24,884	26,253	19,088	21,082	16,118	15,192	13,923	12,654	11,385	10,116
Northeast Ohio Medical U.	284	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	285	20,430	20,679	19,733	17,144	19,412	12,992	12,089	14,461	10,198	10,427	9,863	9,945
Illinois State U.	286	5,442	4,586	3,833	3,902	5,213	4,424	5,630	5,355	6,312	9,827	8,719	9,787
Prairie View A&M U.	287	8,623	11,058	10,569	9,077	8,278	7,994	7,952	8,722	8,421	9,346	9,249	9,566
Miami U.	288	13,591	13,210	13,418	12,676	12,048	10,008	9,189	9,093	9,627	9,755	10,473	9,412
Rosalind Franklin U. of Medicine and Science	289	8,350	9,317	10,084	11,202	9,754	9,368	8,478	8,828	9,249	8,865	8,504	9,357
California State U., East Bay	290	643	921	536	310	ne	ne	479	ne	ne	ne	2,348	9,275
Texas A&M U.-Kingsville	291	7,088	6,280	6,480	7,002	8,678	7,080	7,475	7,869	7,459	8,419	9,610	9,265
Northern Illinois U.	292	17,334	11,807	12,861	12,415	9,174	9,158	9,957	7,947	8,903	8,610	8,030	9,080
U. Akron	293	12,107	12,962	16,768	19,658	20,263	14,676	25,433	16,395	12,470	11,796	10,574	9,024
Missouri State U.	294	6,071	4,764	3,697	3,132	3,132	3,165	2,675	2,770	3,995	5,076	12,310	8,931
California State U., San Marcos	295	4,106	4,827	5,548	6,271	6,091	4,573	5,273	5,594	7,497	9,134	11,547	8,831
Creighton U.	296	11,850	14,140	14,270	13,569	11,690	9,359	10,619	7,946	5,721	8,265	7,583	8,585
Chapman U.	297	1,871	1,576	1,733	2,379	2,373	2,790	3,357	3,598	4,057	5,738	7,850	8,574
Teachers C., Columbia U.	298	6,533	8,526	10,173	8,494	8,909	12,775	11,635	10,194	8,925	8,054	7,614	8,521
East Tennessee State U.	299	6,272	7,705	8,052	6,909	5,484	5,135	5,658	5,933	7,168	7,688	7,329	8,358
U. Maryland, Eastern Shore	300	8,583	8,587	6,965	8,511	8,902	9,284	7,853	7,265	4,890	6,983	8,084	8,346
U. Massachusetts, Dartmouth	301	12,236	13,657	10,979	8,860	8,549	7,321	6,548	7,370	7,156	7,353	6,506	8,223
Tennessee Technological U.	302	7,490	6,397	4,674	3,999	3,725	3,578	4,076	4,969	5,390	6,153	6,471	7,625
St. Edward's U.	303	ne	6,899	5,500	5,500	2,250	8,000	7,500	7,989	7,289	6,500	7,700	7,600
Alcorn State U.	304	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.	305	7,130	9,178	9,185	7,605	6,885	6,161	6,198	6,418	5,777	6,690	5,068	7,426
California State U., Los Angeles	306	7,234	8,426	6,847	7,065	4,923	4,291	3,804	6,612	8,586	9,288	8,380	7,342
U. North Florida	307	4,636	5,082	3,760	1,424	1,177	1,198	1,356	1,435	3,818	4,017	4,568	7,267
Bowling Green State U.	308	4,963	6,164	7,005	9,323	6,576	5,544	6,229	6,395	6,056	5,852	6,397	7,263
Clarkson U.	309	9,573	9,531	7,061	5,283	5,476	5,440	6,183	6,819	8,203	8,551	7,095	7,246
Idaho State U.	310	14,645	17,149	16,095	13,206	11,091	11,738	11,926	11,184	10,081	7,547	7,849	7,216
SUNY, C. of Environmental Science and Forestry	311	8,907	8,732	8,557	8,382	5,564	7,784	8,313	7,730	6,873	7,743	7,809	6,979
U. Arkansas, Little Rock	312	7,571	8,615	8,104	6,848	5,188	4,259	4,934	4,756	5,764	6,688	7,289	6,939
Central Michigan U.	313	2,536	4,841	5,055	5,464	6,187	5,464	5,387	5,557	7,130	8,100	7,450	6,919
U. North Carolina, Wilmington	314	14,364	14,218	11,571	9,133	6,063	5,819	5,966	5,990	5,732	7,174	6,783	6,852
U. of the District of Columbia	315	1,946	2,313	2,430	2,168	1,627	1,434	2,451	2,659	2,021	3,283	2,664	6,851
Louisiana Tech U.	316	10,806	11,952	9,835	8,881	7,742	5,776	5,455	5,608	5,801	6,564	7,167	6,428
Montana Technological U.	317	5,321	4,999	3,293	3,507	3,202	3,420	3,916	5,019	4,691	4,926	4,322	6,133

TABLE 24

## Federally financed higher education R&amp;D expenditures, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Alabama A&M U.	318	22,154	22,120	22,086	22,052	22,018	21,982	18,556	15,130	11,704	8,277	5,643	5,967
U. Tulsa	319	7,126	7,970	6,782	6,279	5,773	6,384	6,426	5,905	4,615	4,142	4,697	5,876
California State U., San Bernardino	320	3,394	9,953	7,251	6,190	6,414	5,959	6,348	6,565	7,920	8,651	5,886	5,867
Villanova U.	321	6,367	6,817	5,518	4,218	5,008	4,572	4,334	4,048	3,968	4,085	4,921	5,826
U. Missouri, Saint Louis	322	7,151	10,157	9,650	7,868	5,844	4,369	4,959	5,240	6,364	7,059	6,146	5,812
Sam Houston State U.	323	5,066	3,855	2,717	2,360	2,209	1,491	1,830	1,872	2,200	3,723	4,764	5,632
Lincoln U., Jefferson City	324	5,984	7,084	6,306	4,989	5,460	5,492	4,953	4,148	2,498	2,700	3,636	5,621
Western U. of Health Sciences	325	885	914	1,300	1,163	1,545	1,206	2,391	2,725	2,755	3,035	4,486	5,620
California State U., Sacramento	326	5,829	6,965	5,663	7,546	5,241	5,697	5,619	6,894	6,392	5,801	5,693	5,582
Texas Southern U.	327	5,240	4,899	4,924	4,741	3,512	3,458	3,269	3,674	2,839	3,238	6,249	5,562
Naval War C.	328	ne	ne	2,938	2,700	2,736	2,653	3,210	3,797	4,384	5,060	5,944	5,542
U. Hawaii, Hilo	329	12,265	7,150	20,726	15,391	8,603	12,772	9,402	5,461	5,264	4,924	5,274	5,510
Clark Atlanta U.	330	7,229	7,040	8,447	7,576	7,241	7,455	6,048	5,811	5,634	5,689	5,324	5,355
U. Minnesota, Duluth	331	6,441	8,564	7,597	7,264	5,940	10,025	8,055	6,033	5,520	7,143	6,454	5,325
Duquesne U.	332	5,904	5,991	5,723	4,343	4,670	5,004	5,809	5,759	5,762	4,552	4,981	5,020
Rhode Island C.	333	ne	2,404	9,060	8,976	6,960	7,258	3,928	3,831	3,337	3,332	4,128	4,894
Virginia State U.	334	5,552	6,035	6,999	6,212	5,424	4,951	5,204	4,779	5,655	6,636	5,642	4,846
Winston-Salem State U.	335	ne	1,179	1,977	841	ne	ne	1,356	1,575	1,629	2,011	4,498	4,841
U.S. Army War C.	336	ne	ne	ne	ne	ne	ne	ne	ne	ne	4,418	ne	4,662
Tarleton State U.	337	6,379	6,036	5,086	3,525	3,683	3,927	4,495	4,602	4,288	4,632	4,139	4,620
California State U., Fullerton	338	13,651	16,159	12,440	11,716	6,932	4,784	3,815	4,237	4,981	4,340	4,121	4,551
Morehouse C.	339	7,857	8,460	9,063	9,226	6,919	5,944	4,301	3,667	4,531	4,494	4,825	4,533
DePaul U.	340	3,896	4,629	4,827	4,260	5,023	4,622	4,623	5,424	4,532	4,464	5,156	4,518
U. Tennessee, Chattanooga	341	4,866	2,932	3,202	2,056	1,501	1,949	1,092	1,144	1,490	2,393	3,915	4,507
CUNY, Brooklyn C.	342	5,358	7,098	6,578	5,999	6,548	5,771	5,995	5,244	4,280	4,465	4,651	4,505
Florida Gulf Coast U.	343	9,542	10,328	5,146	4,800	4,609	4,501	4,442	3,746	3,164	3,773	5,304	4,467
Texas Christian U.	344	3,373	3,924	4,998	5,870	5,779	4,732	3,617	4,035	3,198	2,866	3,168	4,448
Fort Valley State U.	345	4,586	3,452	3,334	3,329	4,249	4,079	4,844	5,068	3,700	4,434	4,806	4,429
California State Polytechnic U., Pomona	346	2,563	2,978	2,635	2,996	2,165	1,881	2,199	3,231	4,297	3,555	5,514	4,396
Western Washington U.	347	4,594	4,661	3,891	3,789	4,039	4,546	4,701	5,271	4,393	3,978	3,966	4,290
Arkansas State U., Jonesboro	348	6,194	8,644	9,645	6,360	3,958	4,347	4,826	4,396	4,371	4,876	4,712	4,249
Central State U.	349	2,544	3,528	3,390	2,688	2,000	1,508	1,546	1,491	2,299	2,517	3,097	4,165
Middle Tennessee State U.	350	2,651	2,669	4,553	2,585	1,564	2,302	3,535	2,513	2,391	2,473	3,062	4,150
Montclair State U.	351	1,876	2,629	3,593	3,410	2,533	2,716	2,649	2,163	3,505	4,164	3,782	4,146
C. Charleston	352	11,610	5,056	6,277	6,385	5,051	6,200	6,269	5,870	4,376	4,395	3,087	4,126
West Virginia State U.	353	2,759	3,193	3,945	3,316	6,006	5,562	4,126	5,072	5,361	4,592	3,993	4,119

TABLE 24

## Federally financed higher education R&amp;D expenditures, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
California State U., Fresno	354	3,424	3,795	3,532	2,682	2,921	3,573	3,539	3,511	3,969	2,900	3,117	4,101
Fordham U.	355	4,132	3,925	4,187	4,874	4,258	3,969	5,979	5,761	4,973	4,218	3,831	4,076
U. of Health Sciences and Pharmacy in St. Louis	356	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	3,767	4,063
Wesleyan U.	357	4,496	5,525	4,726	3,930	3,363	3,612	3,493	3,902	4,353	4,793	4,305	4,032
Norfolk State U.	358	5,413	6,462	7,739	5,523	6,492	5,104	7,230	7,101	6,912	8,046	7,148	3,976
U. Arkansas, Pine Bluff	359	3,947	4,696	4,540	4,550	3,875	3,912	4,233	3,747	3,683	4,299	4,393	3,960
U. Colorado Colorado Springs	360	6,699	5,805	3,540	3,407	4,018	4,244	3,976	4,525	4,094	3,072	3,508	3,942
Fisk U.	361	7,686	4,631	4,058	6,307	i 8,557	i 9,050	i 9,544	4,327	2,781	4,615	3,811	3,940
South Carolina State U.	362	6,334	8,630	i 10,926	i 8,770	i 6,614	i 4,456	i 4,556	i 14,300	i 14,938	i 3,659	i 3,796	i 3,933
U. Detroit Mercy	363	633	856	508	ne	317	890	2,565	2,296	4,385	4,936	4,226	3,917
U. New England	364	2,829	3,242	3,359	4,271	4,789	4,862	5,298	5,918	4,976	5,269	5,064	3,864
Southern Illinois U., Edwardsville	365	4,192	4,056	3,172	3,209	2,249	2,175	3,422	3,805	3,209	3,561	3,467	3,844
California State U., Bakersfield	366	637	727	641	1,721	1,140	1,875	1,689	2,466	3,243	4,376	4,486	3,827
California State U., Monterey Bay	367	3,167	4,713	4,341	4,961	3,862	3,459	3,654	3,574	3,607	3,746	3,889	3,813
National Defense U.	368	ne	ne	ne	5,865	7,682	5,542	6,447	6,293	4,276	4,231	4,583	3,786
Southern U. and A&M C., Baton Rouge	369	5,920	6,057	i 6,194	4,191	3,850	3,258	2,778	2,866	3,431	3,243	2,996	3,770
Colorado C.	370	473	458	389	376	570	602	358	745	429	324	196	3,725
Kentucky State U.	371	3,501	3,146	4,924	3,906	4,335	4,590	5,146	5,382	i 5,618	4,692	4,456	3,716
U. New Orleans	372	19,244	19,000	14,521	11,051	9,490	7,492	6,826	5,568	5,258	4,353	3,868	3,674
Southern U. and A&M C., Agricultural Research and Extension Center	373	ne	4,049	5,926	3,481	3,363	2,514	2,415	2,736	i 3,057	3,057	2,085	3,588
Barnard C.	374	2,754	3,325	3,194	2,568	2,373	2,384	3,082	2,777	2,491	2,871	2,800	3,527
CUNY, John Jay C. of Criminal Justice	375	3,418	4,086	3,921	3,546	3,214	3,392	4,625	4,826	5,896	4,971	5,297	3,519
Wellesley C.	376	3,677	2,496	2,902	3,135	3,579	2,980	5,197	3,815	3,947	3,602	4,441	3,469
U. Washington, Tacoma	377	573	406	1,098	1,104	1,577	2,515	2,682	2,042	2,230	2,808	3,075	3,459
CUNY, Lehman C.	378	2,560	i 2,700	2,215	1,874	2,249	2,394	3,625	3,734	4,478	3,342	3,197	3,382
Georgia Southern U.	379	2,077	1,530	1,359	2,092	3,247	3,004	2,695	2,978	1,805	1,780	1,790	3,373
Salisbury U.	380	1,823	586	1,256	2,342	3,131	2,727	2,414	2,203	1,805	2,290	2,413	3,271
Western Illinois U.	381	658	746	3,855	1,183	735	373	ne	1,198	1,551	1,495	1,801	3,163
Kennesaw State U.	382	1,246	1,054	2,214	i 3,374	1,413	2,329	1,925	2,085	2,343	2,499	1,983	3,104
Toyota Technological Institute, Chicago	383	ne	496	ne	ne	ne	1,392	1,410	1,581	1,759	1,934	3,038	3,090
Langston U.	384	3,313	3,778	3,957	4,153	5,816	5,621	9,178	8,326	i 7,474	i 6,622	9,004	3,089
U. Washington, Bothell	385	446	911	701	825	2,005	2,236	2,863	3,169	2,920	3,353	2,815	2,956
Rutgers, State U. New Jersey, Camden	386	2,001	1,555	1,545	1,750	1,766	2,215	2,653	2,412	1,567	1,096	1,952	2,905
Clark U.	387	3,243	3,801	3,141	2,848	2,751	2,515	2,002	2,513	2,962	3,495	3,350	2,754
Murray State U.	388	2,074	2,471	1,904	816	612	798	564	1,200	1,587	2,639	1,929	2,721

TABLE 24

## Federally financed higher education R&amp;D expenditures, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Long Island U.	389	630	681	666	655	ne	ne	852	1,615	1,929	1,839	1,349	2,686
Middlebury C.	390	2,245	2,289	2,513	1,856	1,351	1,535	1,736	2,002	1,774	1,558	1,546	2,639
Northwest Indian C.	391	1,943	1,993	2,044	2,216	1,705	1,154	ne	ne	2,037	2,520	2,497	2,621
Dakota State U.	392	ne	402	3,555	831	908	765	1,593	1,989	3,273	3,008	3,957	2,603
U. San Diego	393	1,352	1,184	1,903	2,066	2,451	1,836	2,152	2,299	2,397	2,511	2,398	2,554
Pace U.	394	627	952	1,476	1,054	1,212	1,681	2,845	2,423	2,117	2,579	2,997	2,536
MGH Institute of Health Professions	395	ne	408	ne	ne	ne	3,766	2,228	1,839	2,957	3,494	3,014	2,500
CUNY, Graduate Center	396	4,901	3,462	3,191	2,827	2,310	2,106	1,796	1,485	2,592	3,009	2,561	2,496
U. Central del Caribe	397	6,504	6,613	6,304	5,946	6,407	6,147	6,290	4,866	2,937	2,705	2,743	2,492
Ball State U.	398	3,988	3,064	3,320	2,440	1,971	2,291	3,253	2,531	3,028	2,929	2,397	2,469
Haverford C.	399	2,715	1,851	1,478	1,547	1,309	1,476	972	1,031	1,665	2,343	2,680	2,455
Smith C.	400	2,843	3,159	2,690	2,853	3,042	3,575	2,634	3,449	3,305	2,892	2,650	2,433
James Madison U.	401	5,563	5,218	6,476	4,617	3,017	2,418	2,203	2,273	1,879	2,717	2,609	2,379
U. Michigan, Dearborn	402	2,932	4,305	2,992	3,300	2,901	1,844	2,172	1,930	1,448	1,850	2,264	2,366
Johnson C. Smith U.	403	ne	ne	ne	ne	ne	ne	1,279	1,469	2,003	1,909	2,230	2,365
Occidental C.	404	665	904	1,079	1,105	1,365	853	1,260	701	901	1,614	1,567	2,348
Western Kentucky U.	404	6,866	6,210	5,712	4,279	3,383	3,450	4,018	3,808	3,162	3,391	3,265	2,348
Alabama State U.	406	13,340	12,340	13,607	1,927	2,236	2,303	2,372	2,253	2,434	2,577	2,582	2,338
U. North Carolina, Asheville	407	1,367	1,770	1,789	1,608	1,176	1,531	2,312	1,851	1,442	1,846	2,405	2,322
Oklahoma State U., Center for Health Sciences	408	817	377	83	61	31	321	748	1,055	1,021	985	2,618	2,304
Pennsylvania State U., Behrend	409	887	1,029	1,232	1,353	1,610	1,510	2,445	1,670	1,025	1,427	543	2,286
Purdue U., Northwest	410	na	na	na	na	na	na	na	4,024	3,205	2,493	1,996	2,280
California State U., Chico	411	1,502	1,317	1,345	1,682	1,169	854	933	581	1,060	1,864	2,520	2,258
Eastern Michigan U.	412	9,088	7,916	7,374	2,428	1,031	1,482	1,627	1,474	1,522	2,135	2,598	2,237
CUNY, C. Staten Island	413	952	1,583	1,470	1,311	1,400	1,222	1,700	1,543	1,982	2,421	2,295	2,234
Sonoma State U.	414	690	559	ne	1,800	1,581	964	630	ne	ne	ne	936	2,212
Youngstown State U.	415	2,067	3,304	2,159	1,834	1,876	2,346	1,083	3,257	3,634	2,878	3,308	2,198
West Texas A&M U.	416	2,100	1,347	1,802	1,315	1,551	1,860	1,735	1,338	1,329	1,565	1,542	2,195
Loyola Marymount U.	417	1,731	2,815	1,222	1,357	1,142	819	707	883	1,040	1,185	1,105	2,170
Northern Kentucky U.	418	1,476	1,595	1,483	1,240	1,418	1,342	1,133	1,109	890	1,316	1,462	2,156
Gallaudet U.	419	5,522	4,633	4,335	4,500	3,012	2,340	2,135	2,380	2,259	2,190	1,841	2,140
Seton Hall U.	420	2,206	2,681	1,667	1,694	1,801	1,919	1,975	1,982	3,551	3,982	2,725	2,137
SUNY, C. of Optometry	421	2,829	3,336	3,162	2,757	2,567	2,490	2,487	2,073	1,944	1,823	1,688	2,105
Tougaloo C.	422	2,978	2,753	2,613	2,639	2,285	2,689	2,473	3,030	3,173	3,380	2,102	2,092
Bates C.	423	971	1,485	1,555	1,390	1,114	2,004	1,156	1,053	1,121	1,607	1,885	2,079
Pacific U.	424	845	242	1,767	1,674	1,137	962	1,419	4,058	2,637	3,917	2,596	2,072

TABLE 24

## Federally financed higher education R&amp;D expenditures, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. New Haven	425	ne	1,592	2,471	1,400	954	i 507	2,157	548	3,853	2,786	1,440	2,069
U. Southern Maine	426	9,137	7,752	5,490	4,582	3,821	i 3,060	i 2,299	2,252	2,362	2,551	2,231	2,020
California State U., Dominguez Hills	427	2,658	2,671	2,689	4,235	3,381	i 2,527	2,215	1,238	1,354	1,261	1,433	2,001
U. Northern Iowa	428	1,460	2,294	2,182	2,347	2,094	1,961	2,297	2,154	1,697	2,343	1,881	1,995
Hope C.	429	2,523	2,414	1,912	1,993	2,000	1,436	1,251	1,169	1,100	1,361	1,155	1,992
Fayetteville State U.	430	10,844	10,029	11,187	11,906	10,186	9,243	11,207	2,322	2,445	2,168	1,008	1,988
New York Institute of Technology	430	250	494	1,339	2,527	3,504	2,375	1,607	984	1,501	3,135	1,542	1,988
Humboldt State U.	432	3,024	3,292	3,588	2,829	2,504	3,280	4,455	3,796	3,024	2,103	2,399	1,975
St. John's U., New York	433	1,274	1,263	1,185	872	883	992	940	1,020	1,612	1,666	1,805	1,950
U. Northern Colorado	434	2,082	1,681	1,373	1,024	1,965	1,359	1,962	2,349	2,271	1,966	1,853	1,942
Santa Clara U.	435	3,494	2,019	2,074	1,668	2,039	1,226	1,634	1,468	1,592	1,333	1,522	1,930
Reed C.	436	796	772	678	897	1,125	1,638	1,690	415	1,065	1,423	1,806	1,916
Northeastern Illinois U.	437	448	311	ne	ne	588	ne	ne	1,403	2,442	2,478	2,018	1,913
Albany C. of Pharmacy and Health Sciences	438	1,380	1,634	1,182	1,333	1,643	1,065	380	566	1,094	1,692	1,938	1,900
Saginaw Valley State U.	439	77	525	334	203	ne	223	237	621	1,227	2,339	1,809	1,899
William Paterson U.	440	105	140	ne	ne	ne	ne	564	476	642	1,592	1,896	1,893
Spelman C.	441	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	442	122	592	ne	937	759	689	1,155	2,697	2,437	2,379	2,328	1,884
Lamar U.	443	4,377	4,036	3,072	1,616	1,118	352	611	949	1,380	2,641	2,146	1,873
U. Wisconsin-Superior	444	5,197	5,638	i 5,302	i ne	1,949	i ne	ne	ne	1,924	1,527	1,382	1,843
Bowdoin C.	445	1,815	1,942	3,317	3,244	2,330	2,156	2,457	1,812	2,065	1,790	1,862	1,836
Texas Tech U., Health Sciences Center, El Paso	446	ne	ne	ne	ne	5,352	2,893	3,064	2,410	2,532	2,279	1,703	1,831
Savannah State U.	447	1,774	2,518	1,874	2,514	2,127	1,796	2,251	1,390	1,778	1,709	1,804	1,804
Central Washington U.	448	4,038	2,242	1,840	1,263	1,113	1,575	1,580	2,297	1,840	2,159	1,701	1,778
U. Wisconsin-Stevens Point	449	4,456	3,754	i 3,052	2,131	1,740	i 1,349	i 957	1,266	i 1,575	i 1,884	i 2,193	1,776
U. Texas of the Permian Basin	450	677	761	1,179	974	489	595	510	328	50	ne	757	1,762
Towson U.	451	1,806	2,630	1,771	2,015	2,268	2,020	1,616	1,599	2,133	2,144	2,010	1,758
Fort Lewis C.	452	340	511	ne	ne	ne	ne	ne	ne	ne	1,284	1,228	1,746
Hawaii Pacific U.	453	ne	1,261	1,145	850	1,116	789	2,071	1,921	1,905	1,809	1,699	1,741
Skidmore C.	454	1,872	1,562	1,334	1,448	1,193	969	747	1,194	1,893	2,261	1,827	1,739
Palmer C. of Chiropractic, Davenport	455	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
Morehead State U.	456	1,528	1,656	1,597	1,816	1,069	1,217	1,797	2,162	1,839	1,651	1,674	1,727
Citadel Military C. South Carolina	457	ne	157	ne	ne	ne	ne	ne	ne	ne	ne	736	1,714
Western Carolina U.	458	1,296	721	974	664	669	740	873	971	1,038	1,736	1,707	1,697
Bucknell U.	459	2,745	2,747	1,540	1,590	1,725	1,489	1,436	i 1,383	i 1,329	1,764	1,730	i 1,696
Appalachian State U.	460	1,813	2,586	2,287	1,731	2,198	1,796	1,896	2,630	1,922	1,332	1,469	1,694

TABLE 24

## Federally financed higher education R&amp;D expenditures, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
CUNY, Baruch C.	461	1,010	1,150	1,209	735	695	845	1,325	1,027	1,412	1,359	1,470	1,691
U. Central Arkansas	462	1,658	1,732	1,989	1,898	1,297	1,300	1,138	1,236	1,262	1,462	1,421	1,640
New England C. of Optometry	463	726	1,236	1,685	1,588	533	419	618	ne	837	928	785	1,623
Pennsylvania State U., Harrisburg	464	963	1,302	1,290	701	269	565	270	215	292	80	451	1,616
Elizabeth City State U.	465	5,552	10,402	4,284	4,439	2,461	2,058	1,827	1,306	960	ne	1,455	1,603
Mount Holyoke C.	466	1,362	2,010	1,827	1,863	2,435	2,327	2,848	3,168	2,210	2,074	1,442	1,539
U. Richmond	467	2,138	1,831	2,376	1,979	2,134	2,013	1,924	1,870	1,628	1,575	1,628	1,534
U. Central Oklahoma	468	1,059	1,146	750	765	1,042	3,193	1,409	1,168	1,127	1,457	1,444	1,516
Texas Woman's U.	469	822	1,173	1,908	1,136	961	722	573	945	1,422	1,864	1,700	1,514
Yeshiva U.	470	163,399	197,032	201,397	193,831	186,885	180,791	30,266	816	683	380	772	1,509
Colorado State U., Pueblo	471	364	354	ne	ne	ne	ne	ne	ne	ne	1,282	1,161	1,508
Midwestern U.	472	315	438	427	369	517	654	1,060	1,184	1,278	1,045	936	1,506
Indiana U. Pennsylvania	473	660	833	672	101	169	ne	373	1,309	891	1,810	1,309	1,503
Carleton C.	474	1,803	2,332	2,212	3,347	3,157	3,813	3,508	3,366	2,542	1,891	1,236	1,499
Christopher Newport U.	475	1,049	1,587	1,230	1,083	1,302	1,041	858	957	1,069	1,285	1,365	1,497
Winthrop U.	476	ne	3,440	5,243	7,451	7,955	5,802	1,178	1,189	1,419	1,438	1,563	1,495
Troy U.	477	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,591	1,488
U. Louisiana, Monroe	478	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.	479	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.	480	1,519	1,058	1,497	1,320	1,153	1,109	1,217	1,096	1,389	1,202	918	1,440
Bryn Mawr C.	481	1,301	1,901	1,848	2,514	1,353	1,713	2,556	2,507	2,242	1,801	1,531	1,429
Grand Valley State U.	482	1,134	1,648	2,162	2,675	2,151	2,033	1,479	1,543	1,719	1,663	1,831	1,415
Swarthmore C.	483	913	1,029	1,135	1,239	1,292	1,379	1,458	1,451	1,586	1,539	1,041	1,414
Bowie State U.	484	ne	1,910	1,739	1,422	1,761	1,497	1,927	1,813	1,839	1,911	1,967	1,398
Touro U.	485	999	1,558	1,390	1,351	1,374	1,332	1,199	1,196	1,410	1,540	1,558	1,377
Amherst C.	486	1,102	1,992	1,988	1,985	1,543	1,835	1,207	1,228	1,630	2,118	1,775	1,375
Franklin and Marshall C.	487	1,857	1,397	1,116	879	889	1,017	955	1,732	1,760	1,582	1,202	1,363
California State U., Stanislaus	488	ne	1,037	1,070	650	341	174	221	478	734	964	1,284	1,354
Trinity C., Hartford	489	1,026	1,217	1,432	1,040	1,313	889	893	2,084	794	1,077	1,019	1,348
U. Nebraska, Kearney	490	289	1,018	716	840	656	515	891	1,047	1,075	1,240	1,259	1,327
New School	491	1,670	2,042	2,385	2,669	1,972	2,300	2,428	2,345	1,857	1,819	1,050	1,324
U. of St. Thomas (MN)	492	842	933	767	702	352	ne	195	212	320	313	450	1,321
U. of the Sciences Philadelphia	493	984	1,338	1,287	1,357	987	1,096	1,153	1,102	1,095	1,318	1,126	1,320
U. Virginia's C. Wise	494	76	38	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,307
Texas A&M U.-Commerce	495	1,362	1,557	1,600	1,349	1,234	1,121	876	823	1,159	836	1,226	1,283
SUNY, Geneseo	496	755	1,306	1,532	640	474	663	930	992	998	1,206	950	1,273

TABLE 24

## Federally financed higher education R&amp;D expenditures, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. Oklahoma, Tulsa	497	ne	ne	ne	ne	ne	895	1,104	976	1,605	1,803	1,953	1,267
Hofstra U.	498	2,206	2,182	2,660	1,967	2,577	2,119	2,149	1,471	1,275	1,296	997	1,266
Dillard U.	499	7,096	7,211	7,325	7,692	6,889	8,853	7,605	5,592	5,503	1,390	1,200	1,257
Texas A&M International U.	500	1,623	1,195	989	868	977	658	924	1,730	2,008	1,847	986	1,243
Roger Williams U.	501	1,574	2,132	2,166	1,877	2,038	1,696	1,736	2,024	1,052	1,135	1,045	1,202
U. Puerto Rico, Cayey	501	710	1,278	1,515	1,168	1,143	959	1,105	704	632	963	1,210	1,202
Keck Graduate Institute	503	ne	1,744	1,671	1,227	1,302	937	949	969	1,007	1,078	1,113	1,201
CUNY, New York City C. of Technology	504	81	145	ne	ne	ne	ne	ne	ne	1,978	1,891	1,585	1,197
U. Houston-Downtown	505	908	1,186	1,828	1,183	1,800	1,571	1,165	1,710	1,836	1,437	1,392	1,169
Saint Joseph's U.	506	1,368	1,087	835	700	468	526	476	239	252	373	1,047	1,158
Claremont Graduate U.	507	5,888	5,215	8,875	8,452	7,358	6,264	5,170	4,076	2,982	1,886	809	1,152
Williams C.	507	2,330	2,117	2,029	1,498	1,029	1,700	1,614	1,703	1,458	1,131	1,086	1,152
Davidson C.	509	1,153	1,053	651	1,619	1,170	1,703	813	1,105	813	973	1,411	1,151
U. Puerto Rico, Humacao	510	1,950	1,976	1,949	1,452	1,102	669	ne	ne	882	828	1,279	1,137
Black Hills State U.	511	2,434	1,172	1,675	2,163	1,720	1,674	2,056	1,448	1,437	1,535	1,287	1,124
U. of the Pacific	512	3,135	2,678	2,090	1,676	2,675	1,751	1,991	1,474	2,141	2,158	1,375	1,106
Seattle U.	513	468	622	530	ne	1,348	927	820	862	1,644	1,307	1,303	1,102
New Mexico Highlands U.	514	970	989	735	741	969	ne	1,086	1,015	741	ne	1,034	1,085
U. Wisconsin-Oshkosh	515	832	1,154	1,238	1,012	1,048	1,084	ne	1,113	1,106	1,099	1,092	1,083
C. New Jersey	516	461	254	ne	ne	ne	ne	ne	929	829	ne	951	1,079
Trinity U.	517	1,023	1,046	1,222	2,034	1,544	1,183	973	986	1,187	924	1,207	1,078
U. of the Incarnate Word	518	ne	217	ne	ne	ne	403	ne	ne	868	1,075	869	1,076
U. Illinois, Springfield	519	436	455	602	534	415	307	725	1,533	1,109	980	976	1,071
U. Alaska, Southeast	520	1,222	941	1,003	1,113	1,183	1,341	1,502	1,480	1,636	1,235	1,098	1,046
Doane U.	521	ne	1,008	546	ne	846	390	ne	ne	865	928	958	1,034
Stephen F. Austin State U.	522	5,530	1,690	1,800	1,836	1,850	2,340	1,808	1,276	1,242	1,332	1,257	1,029
Furman U.	523	1,332	1,111	1,164	1,217	891	1,136	1,068	1,292	1,110	1,106	847	1,028
Drake U.	524	456	382	ne	573	ne	ne	1,116	772	699	463	ne	1,016
Augustana U.	525	889	1,169	1,007	809	737	671	ne	1,140	1,023	784	ne	1,013
Clafin U.	526	3,226	5,103	5,090	2,643	1,711	1,158	1,743	1,344	1,491	1,735	1,907	1,005
California State U., Channel Islands	527	ne	451	ne	425	528	825	249	142	284	500	553	993
SUNY, Buffalo State	528	1,293	1,965	2,348	1,336	1,076	846	859	877	1,057	1,225	1,241	977
Union C., Schenectady	529	1,427	959	867	1,863	1,385	1,080	1,680	554	885	972	462	976
U. Hawaii, Maui C.	530	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	951
Coastal Carolina U.	531	1,533	1,487	1,598	1,714	1,281	1,041	1,052	1,028	1,031	1,294	1,211	948
Calvin U.	532	2,084	560	664	774	1,273	1,034	795	880	1,363	925	888	942

TABLE 24

## Federally financed higher education R&amp;D expenditures, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Alfred U.	533	1,687	2,004	1,648	1,468	1,351	1,434	1,558	917	1,416	1,580	947	939
Pomona C.	534	1,048	1,779	1,599	2,227	1,789	1,074	1,579	1,038	868	863	1,123	930
U. Texas, Tyler	535	3,378	1,277	6,535	4,123	4,601	2,570	1,936	708	719	813	774	929
U. Ana G. Mendez, Gurabo	536	691	1,054	1,034	747	1,111	447	437	428	471	951	946	926
CUNY, York C.	537	ne	1,507	861	693	ne	534	ne	ne	ne	1,511	1,513	922
Vassar C.	538	1,280	1,838	1,258	1,694	1,220	1,133	1,495	1,600	4,185	909	1,055	918
U. Wisconsin-Eau Claire	539	1,320	829	817	655	395	ne	661	955	705	748	647	909
Willamette U.	540	666	650	1,327	822	860	745	1,090	1,028	872	549	401	896
U. Wisconsin-La Crosse	541	2,150	2,013	i 1,876	1,240	1,095	1,006	1,250	1,158	1,171	777	817	895
Keene State C.	542	ne	1,884	1,956	i 2,029	2,130	820	ne	837	ne	1,022	1,043	894
U. Wisconsin-Green Bay	543	778	732	i 686	i 640	i 594	i 545	919	666	546	821	890	876
U. Houston-Clear Lake	544	301	818	730	875	739	541	756	753	894	718	632	865
Pepperdine U.	545	933	299	808	914	1,162	1,058	1,233	1,087	713	914	693	835
Abilene Christian U.	546	537	427	ne	ne	ne	ne	ne	ne	ne	ne	ne	827
SUNY, C. Plattsburgh	547	1,187	726	454	ne	459	717	545	455	1,254	1,197	950	824
American Samoa Community C.	548	ne	ne	ne	ne	ne	1,337	793	ne	ne	860	ne	815
La Sierra U.	549	ne	17	ne	ne	0	45	127	575	623	640	618	812
Southeastern Louisiana U.	550	1,161	911	985	1,039	692	1,429	975	1,215	1,046	803	884	795
Fielding Graduate U.	551	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	791
Eastern Washington U.	552	46	559	725	1,226	885	955	1,287	1,193	1,081	864	1,153	775
Erikson Institute	553	ne	355	1,648	1,187	1,212	1,610	1,719	2,529	1,822	753	1,006	772
CUNY, system office	554	ne	ne	1,398	1,001	362	828	832	527	1,977	2,241	884	768
U. Hartford	555	820	1,576	1,505	1,175	1,080	1,089	1,172	1,178	591	1,019	854	766
Pittsburg State U.	556	999	1,280	989	791	1,023	453	270	316	195	339	477	759
Hobart and William Smith Colleges	557	1,118	1,379	1,103	1,896	730	442	ne	528	ne	1,047	1,072	758
Milwaukee School of Engineering	558	1,177	1,181	1,207	1,245	1,500	1,335	1,164	775	680	764	613	751
Colby C.	559	1,105	1,028	1,197	1,046	943	1,038	1,137	1,048	1,213	1,093	809	750
Mercyhurst U.	560	854	389	729	674	445	616	612	618	i ne	668	i 690	i 745
Northwestern State U. Louisiana	561	635	683	609	600	494	ne	490	458	490	579	598	738
Grambling State U.	562	993	1,515	1,428	1,116	1,065	1,177	974	4,283	1,806	1,066	787	731
Biola U.	563	ne	ne	ne	ne	ne	ne	564	i 576	i 599	i 641	i 662	i 714
Southern Connecticut State U.	564	1,459	1,199	1,595	1,176	1,620	1,626	1,324	1,274	823	803	1,026	713
Lewis and Clark C.	565	843	684	718	1,490	1,378	872	636	723	848	931	1,268	702
Northland C.	566	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	697
Ithaca C.	567	617	627	774	825	816	635	ne	ne	ne	ne	981	685
Mills C.	568	1,095	753	1,058	1,738	1,672	938	873	1,286	928	840	1,341	683



TABLE 24

## Federally financed higher education R&amp;D expenditures, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Sacred Heart U.	569	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	675
Central Connecticut State U.	570	366	684	677	617	506	243	143	231	ne	540	901	663
U. California, Office of the President	571	121	483	1,048	599	248	181	295	288	343	319	217	653
Claremont McKenna C.	572	1,130	1,083	1,082	1,081	1,080	ne	644	754	555	730	771	637
Franklin W. Olin C. of Engineering	573	ne	666	1,090	946	1,050	1,103	782	588	472	162	293	636
Suffolk U.	574	ne	299	249	360	317	250	413	576	ne	ne	844	634
Macalester C.	575	1,075	1,517	1,106	876	879	708	771	970	553	805	647	617
West Chester U. Pennsylvania	576	3,614	5,845	1,457	561	404	511	454	624	671	715	724	608
Austin Peay State U.	577	ne	729	484	364	189	334	325	347	599	295	475	597
Canisius C.	577	154	181	ne	ne	ne	ne	ne	1,459	1,054	943	ne	597
Dordt U.	579	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	594
Indiana State U.	580	990	1,352	1,268	858	1,005	992	1,189	816	927	1,190	949	582
St. Cloud State U.	581	1,260	622	215	420	797	1,299	643	555	529	733	459	577
Minnesota State U., Mankato	582	2,051	852	701	313	317	546	1,260	605	639	708	525	575
Providence C.	583	857	726	ne	827	ne	1,162	981	783	960	857	913	574
Albany State U.	584	396	893	2,000	1,532	1,271	1,128	1,137	1,026	839	1,065	836	552
California State U., Maritime Academy	585	ne	1,200	1,748	1,257	122	31	71	225	550	617	621	548
Edward Via C. of Osteopathic Medicine	586	ne	707	502	517	250	89	88	94	195	749	566	537
Eastern Kentucky U.	587	2,638	2,852	2,329	2,078	1,518	1,111	1,029	758	655	598	554	530
National U. of Natural Medicine	588	ne	247	ne	ne	ne	ne	ne	427	ne	760	912	523
Lafayette C.	589	1,223	1,564	1,205	1,166	1,070	1,066	997	1,493	1,133	910	755	508
Oberlin C.	590	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.	590	1,595	1,672	1,073	735	546	333	272	440	553	339	481	505
SUNY, C. Brockport	592	521	677	989	755	564	535	639	747	672	638	781	500
U. North Georgia	593	ne	ne	ne	ne	ne	ne	ne	671	1,013	637	542	497
Stockton U.	594	ne	405	160	ne	380	198	221	ne	246	553	872	486
Des Moines U.	595	62	91	ne	ne	224	ne	386	878	933	845	449	485
U. of Mary Washington	595	ne	660	445	ne	ne	425	ne	ne	418	577	660	485
Fort Hays State U.	597	ne	ne	ne	ne	ne	ne	ne	ne	ne	694	764	482
Florida Polytechnic U.	598	na	na	na	na	na	203	ne	ne	ne	338	252	459
Connecticut C.	599	954	1,005	1,130	833	514	756	817	777	505	752	483	439
West Virginia School of Osteopathic Medicine	600	22	17	ne	ne	ne	ne	ne	ne	ne	ne	419	423
SUNY, Oswego	601	644	871	ne	673	ne	ne	ne	669	661	628	492	415
U. North Carolina, general administration	602	ne	ne	ne	ne	ne	337	174	161	98	213	572	408
Purdue U., Fort Wayne	603	1,797	2,443	1,946	1,901	1,479	1,650	874	812	773	544	589	401
Manhattan C.	604	166	245	ne	ne	ne	ne	ne	ne	ne	245	398	397

TABLE 24

## Federally financed higher education R&amp;D expenditures, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	605	ne	106	179	340	523	264	643	206	201	191	342	376
Arcadia U.	606	1,206	1,621	620	ne	ne	ne	ne	ne	ne	ne	ne	371
Northern Michigan U.	607	287	237	ne	ne	ne	ne	288	304	354	311	446	366
Kean U.	608	ne	550	1,191	347	ne	244	323	ne	ne	ne	775	362
Kettering U.	609	4,477	3,452	2,165	1,306	1,173	1,032	1,279	2,105	1,144	402	568	353
U. Wisconsin-Platteville	609	46	50	i ne	ne	328	i 309	i ne	349	i ne	339	i 336	i 353
Grinnell C.	611	1,161	287	648	372	414	546	340	652	635	364	644	344
Marshall B. Ketchum U.	612	ne	ne	ne	ne	48	224	375	368	i 354	i 336	i 323	i 343
U. Massachusetts, central office	613	ne	ne	1,655	2,126	3,468	1,445	1,124	721	643	488	488	342
Indiana U., South Bend	614	282	494	375	638	575	408	344	249	111	ne	ne	337
Marymount U.	614	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	337
Philadelphia C. of Osteopathic Medicine	616	812	850	694	277	104	192	150	260	260	346	422	318
Heidelberg U.	617	ne	266	i ne	349	199	272	294	428	163	164	188	308
C. Wooster	618	249	512	183	ne	404	386	i ne	736	744	456	283	300
Pratt Institute	619	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	294
Albion C.	620	ne	113	ne	ne	ne	ne	ne	210	114	180	272	289
Hamilton C.	621	1,077	1,406	1,400	1,153	918	559	442	135	129	190	144	286
Lawrence Technological U.	622	3,144	2,615	1,108	988	739	976	658	767	479	304	405	284
St. Olaf C.	623	1,247	843	1,220	955	760	668	849	797	333	255	230	271
Andrews U.	624	280	77	ne	ne	ne	ne	ne	ne	ne	278	263	256
U. San Francisco	625	428	371	1,867	858	738	503	280	405	310	198	148	255
Oregon Institute of Technology	626	ne	193	ne	ne	ne	270	1,268	752	i 235	437	326	252
Rhode Island School of Design	627	ne	322	ne	ne	ne	252	274	i 269	i 259	i 246	i 236	i 250
Jacksonville State U.	628	133	265	ne	ne	ne	3,020	3,081	2,938	i 2,794	2,312	1,216	245
Lipscomb U.	629	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	206	i 222
Azusa Pacific U.	630	ne	970	609	i ne	ne	323	606	334	199	137	128	212
U. Wisconsin-River Falls	630	134	174	i ne	ne	ne	ne	ne	529	445	ne	488	212
Alaska Pacific U.	632	283	349	ne	ne	ne	802	671	665	436	451	148	189
Framingham State U.	633	ne	ne	ne	ne	ne	ne	ne	4	17	ne	179	188
Monmouth U.	634	2,190	1,873	714	ne	635	ne	173	ne	ne	120	110	174
U. Minnesota, Morris	635	245	414	ne	811	262	306	428	294	ne	195	213	162
Wheaton C., Wheaton	636	ne	585	114	ne	178	193	ne	70	50	301	324	148
Fairfield U.	637	2,681	2,780	2,507	i 2,232	2,051	339	435	1,101	1,222	594	365	147
Elon U.	638	ne	40	112	161	398	376	423	358	309	284	106	138
Liberty U.	639	ne	ne	ne	ne	ne	ne	ne	ne	ne	535	886	120

TABLE 24

**Federally financed higher education R&D expenditures, 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. Michigan, Flint	640	227	322	ne	ne	ne	ne	ne	219	159	122	276	113
Eastern Connecticut State U.	641	ne	20	ne	ne	6	17	27	19	36	181	177	108
Roseman U. of Health Sciences	642	ne	0	ne	ne	131	0	0	0	18	37	56	53
C. of Saint Benedict	643	ne	0	ne	72	71	53	38	44	47	45	43	46
Niagara U.	644	162	166	275	32	119	117	172	181	334	355	24	34
All other surveyed institutions	-	1,131,663	1,279,276	1,237,892	1,146,061	925,875	892,510	931,451	960,565	1,019,839	403,758	363,975	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 \$1,881,568 thousand in federally financed R&D expenditures in FY 2021.

<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 federal expenditures 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.