

TABLE 21

## 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	-	61,286,610	65,274,393	65,729,007	67,013,138	67,199,090	68,549,882	71,767,849	75,147,113	79,023,156	83,487,471	86,300,399	89,723,447
Johns Hopkins U. <sup>a</sup>	1	2,004,482	2,145,308	2,106,185	2,168,568	2,242,478	2,305,679	2,431,180	2,562,307	2,661,033	2,917,436	3,110,494	3,181,385
U. California, San Francisco	2	935,509	995,226	1,032,673	1,042,841	1,084,031	1,126,620	1,294,261	1,409,398	1,595,732	1,595,098	1,651,073	1,710,036
U. Michigan, Ann Arbor	3	1,184,445	1,279,123	1,322,711	1,375,117	1,349,262	1,369,278	1,436,448	1,530,139	1,600,869	1,675,805	1,673,862	1,639,645
U. Pennsylvania	4	836,322	886,036	847,077	828,422	828,350	864,068	1,296,429	1,374,293	1,441,931	1,506,285	1,579,364	1,631,950
U. Washington, Seattle	5	1,022,740	1,148,533	1,109,008	1,192,513	1,176,340	1,180,563	1,277,679	1,348,220	1,413,902	1,425,601	1,456,902	1,488,645
U. California, Los Angeles	6	936,995	982,357	1,003,375	966,659	948,197	1,021,227	1,037,528	1,076,917	1,318,110	1,306,376	1,392,941	1,454,880
U. California, San Diego	7	943,219	1,009,378	1,073,864	1,075,554	1,067,388	1,101,466	1,087,117	1,133,454	1,265,196	1,353,763	1,403,735	1,425,499
U. Wisconsin-Madison	8	1,029,295	1,111,642	1,169,779	1,123,501	1,108,564	1,069,077	1,157,680	1,193,413	1,205,518	1,297,331	1,363,931	1,380,075
Stanford U.	9	839,839	907,971	903,238	945,450	959,247	1,022,551	1,066,269	1,109,708	1,157,597	1,204,116	1,203,950	1,274,483
Harvard U.	10	583,361	649,774	799,432	1,012,766	933,975	1,013,753	1,077,253	1,123,160	1,173,371	1,239,736	1,239,983	1,254,008
Duke U.	11	983,289	1,022,207	1,009,911	992,821	1,036,813	1,036,698	1,055,778	1,126,924	1,167,611	1,226,517	1,196,638	1,237,686
Ohio State U.	12	755,194	832,126	766,513	793,373	815,075	817,881	818,464	864,327	875,014	929,250	968,260	1,236,111
U. North Carolina, Chapel Hill	13	755,284	869,174	884,791	973,007	989,766	966,781	1,045,338	1,102,063	1,136,158	1,153,773	1,159,725	1,205,883
Cornell U.	14	749,721	781,651	802,387	845,184	883,292	954,412	974,199	984,478	1,071,621	1,144,534	1,190,063	1,183,524
Yale U.	15	623,510	656,967	656,555	788,784	772,840	803,004	881,765	951,084	990,399	1,072,309	1,094,135	1,165,148
Texas A&M U., College Station and Health Science Center	16	689,624	705,720	693,421	820,015	854,214	866,678	892,718	905,474	922,178	952,156	1,130,803	1,147,720
U. Maryland <sup>b</sup>	17	na	na	na	na	na	na	na	na	na	1,096,600	1,103,062	1,142,264
U. Pittsburgh, Pittsburgh	18	822,491	899,386	866,638	872,736	856,806	861,205	889,793	939,706	1,006,513	1,080,951	1,105,532	1,135,416
U. Texas M. D. Anderson Cancer Center	19	599,529	663,279	685,814	718,096	794,980	833,406	852,095	888,029	929,710	969,496	1,051,297	1,124,971
Georgia Institute of Technology	20	615,833	655,375	688,905	730,488	725,550	765,370	790,706	804,301	891,728	960,167	1,048,988	1,114,481
Columbia U. in the City of New York	21	807,235	878,900	889,487	889,188	890,642	868,159	837,312	893,062	947,504	1,003,615	1,032,909	1,098,570
U. Minnesota, Twin Cities	22	786,074	847,419	826,173	858,378	876,870	880,618	910,181	921,681	954,683	1,013,112	1,042,382	1,072,961
New York U.	23	365,944	430,752	458,645	471,909	523,623	602,041	809,739	917,744	887,558	934,720	947,293	1,063,704
Vanderbilt U. and Vanderbilt U. Medical Center	24	504,959	566,031	560,466	571,603	683,890	647,816	640,842	712,036	738,620	776,937	824,803	1,019,273
Washington U., Saint Louis	25	695,974	725,039	706,410	684,847	664,752	694,069	741,115	754,462	816,139	887,088	920,215	989,214
Pennsylvania State U., University Park and Hershey Medical Center	26	770,449	794,846	797,679	837,880	800,773	791,031	825,561	854,815	908,708	949,679	991,923	970,544
U. Florida	27	681,548	739,931	696,985	695,063	708,526	739,522	791,294	801,418	865,093	928,639	942,223	959,965
U. Southern California	28	592,791	603,294	623,544	645,636	687,222	691,031	702,866	764,322	891,625	909,683	941,198	955,565
Massachusetts Institute of Technology	29	677,138	723,610	824,130	900,524	908,017	930,719	946,159	952,017	964,336	1,009,466	987,968	949,076
Northwestern U.	30	575,078	618,980	631,078	639,781	645,333	656,167	713,491	751,809	805,672	857,069	874,671	913,178
Emory U.	31	529,453	547,316	565,766	575,943	558,600	585,210	614,527	664,888	712,417	794,928	808,792	852,922
U. California, Berkeley	32	694,049	707,945	730,348	727,002	744,343	788,505	774,255	770,822	796,505	802,931	840,000	846,872
Icahn School of Medicine at Mount Sinai	33	370,666	405,527	400,680	428,654	463,429	508,353	540,296	575,448	640,141	722,241	747,014	820,260

TABLE 21

## 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. California, Davis	34	679,915	707,896	713,292	725,734	711,721	721,077	741,892	738,347	788,832	804,282	816,693	817,409
U. Texas, Austin	35	589,502	632,171	621,538	634,132	585,251	604,376	621,692	652,187	679,781	696,111	797,199	779,348
U. Arizona	36	586,647	610,565	625,365	629,466	588,088	606,219	604,464	622,200	687,066	734,270	760,975	770,031
U. Illinois, Urbana-Champaign	37	515,133	545,669	583,754	743,487	621,733	639,817	625,180	642,084	652,709	677,523	689,176	731,268
Baylor C. of Medicine	38	447,874	466,061	474,700	508,799	496,314	520,220	572,527	604,952	623,396	651,920	685,641	716,976
Michigan State U.	39	431,373	454,248	507,061	515,707	526,906	558,248	613,369	694,917	715,290	725,708	713,197	710,178
Indiana U., Bloomington	40	177,520	184,096	184,486	197,897	206,039	485,076	508,766	540,421	566,907	668,157	710,850	695,258
Purdue U., West Lafayette	41	548,980	578,231	602,501	595,739	564,923	558,611	606,302	622,813	631,574	663,927	687,144	679,482
Arizona State U.	42	329,345	355,215	385,959	405,154	426,651	458,412	518,239	545,016	617,717	639,637	673,357	677,303
Boston U.	43	352,817	355,916	334,496	368,281	367,328	388,336	395,921	421,360	484,205	534,205	583,267	652,096
U. Alabama, Birmingham	44	489,845	503,698	453,779	440,796	428,563	516,229	537,825	561,851	588,207	607,863	618,226	644,330
Rutgers, State U. New Jersey, New Brunswick	45	428,432	432,306	434,901	493,320	644,116	628,613	630,212	681,719	706,282	657,249	688,077	643,955
U. Texas Southwestern Medical Center	46	419,220	431,883	435,085	440,620	434,627	438,824	442,666	461,797	474,260	496,697	595,939	632,134
U. Utah	47	379,200	414,316	430,056	494,058	486,140	518,928	350,212	380,295	552,306	601,133	607,061	624,737
U. Virginia, Charlottesville	48	276,308	398,096	383,359	385,828	358,576	373,218	397,458	469,682	551,761	613,938	652,002	611,313
U. Colorado Anschutz Medical Campus <sup>c</sup>	49	na	na	na	na	na	na	na	na	na	na	na	562,855
U. Iowa	50	444,034	443,893	446,429	435,377	449,147	443,218	473,362	494,280	511,973	508,353	538,583	553,876
U. Cincinnati	51	411,269	448,936	433,668	438,642	422,873	436,028	430,579	455,250	480,095	529,796	530,138	551,826
U. Colorado Boulder	52	349,449	390,677	392,004	385,849	379,475	420,775	453,123	499,389	514,573	513,822	525,674	547,724
North Carolina State U.	53	360,795	378,154	404,225	417,468	446,112	468,293	489,918	500,445	509,841	541,100	546,290	547,118
Virginia Polytechnic Institute and State U.	54	398,169	450,058	454,417	496,169	513,149	504,282	521,773	522,425	531,636	541,969	556,341	542,045
U. California, Irvine	55	327,594	344,678	350,030	347,773	340,056	329,798	345,319	361,414	426,610	448,967	490,597	523,752
U. Chicago	56	437,721	453,562	419,631	402,621	390,082	412,536	420,997	433,328	423,993	459,171	458,891	497,651
U. Georgia	57	295,339	335,901	351,395	350,225	355,471	374,264	410,345	455,432	453,249	477,536	482,786	493,944
Scripps Research Institute	58	387,298	400,768	398,673	399,899	386,231	384,161	364,670	354,582	396,839	427,734	444,964	485,435
SUNY, Polytechnic Institute	59	na	na	na	na	412,851	295,313	316,680	308,861	257,358	352,889	355,651	465,273
Oregon Health and Science U.	60	314,990	334,324	305,530	308,767	314,802	326,915	331,524	348,449	372,180	415,629	446,890	452,812
Colorado State U., Fort Collins	61	302,896	330,784	375,919	313,238	307,978	317,219	331,862	338,404	374,955	398,477	407,302	447,197
California Institute of Technology	62	362,172	377,514	379,713	347,105	367,182	374,424	371,060	400,312	391,003	399,931	449,651	438,624
U. Illinois, Chicago	63	362,939	380,828	388,625	367,848	347,888	354,560	337,296	372,619	361,690	382,949	412,147	429,585
U. Kentucky	64	359,944	372,932	360,776	339,764	328,239	331,705	349,661	378,374	393,034	410,581	417,674	429,241
SUNY, U. Buffalo	65	349,670	353,172	360,226	387,863	386,562	382,935	389,569	401,591	410,220	413,817	422,038	425,349
Case Western Reserve U.	66	418,164	429,206	431,090	425,788	419,011	401,527	405,655	408,609	434,441	438,994	439,778	421,868
U. Rochester	67	414,655	429,034	389,612	389,355	353,419	346,932	346,165	353,003	370,645	393,960	397,211	409,255
U. South Florida <sup>d</sup>	68	385,029	394,963	443,206	459,409	488,641	485,354	505,965	557,889	385,686	391,325	333,344	405,088

TABLE 21

**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
Princeton U.	69	242,570	263,335	275,666	269,908	293,274	279,851	307,653	334,125	365,007	385,739	396,502	404,448
Carnegie Mellon U.	70	222,790	242,882	255,933	271,277	251,222	242,004	319,168	328,100	331,383	359,720	386,996	402,376
U. Missouri, Columbia	71	238,500	230,957	239,810	236,423	237,266	246,684	280,051	293,006	294,686	310,421	332,180	388,779
U. Kansas	72	267,961	274,727	286,262	298,498	301,534	311,383	297,933	300,319	339,046	352,643	368,811	385,637
Uniformed Services U. of the Health Sciences	73	134,126	175,365	143,250	164,232	262,489	361,173	256,203	298,370	308,326	417,300	324,510	384,490
U. Oklahoma, Norman and Health Science Center	74	218,089	249,297	240,974	255,674	253,344	242,367	259,998	272,239	283,638	302,679	362,209	380,048
U. Miami	75	280,671	323,486	365,301	344,757	345,805	331,036	358,441	367,877	357,104	360,716	381,410	375,841
Virginia Commonwealth U.	76	197,709	207,756	201,366	196,015	201,858	218,925	225,999	235,464	246,190	255,648	283,874	364,096
Iowa State U.	77	250,120	267,641	260,995	266,596	313,263	306,125	328,385	323,584	361,206	358,474	363,107	360,275
Washington State U.	78	304,352	320,510	335,930	341,082	326,414	333,134	334,082	331,051	331,424	344,997	335,201	357,648
Rockefeller U.	79	265,750	272,491	292,896	298,474	316,368	323,932	335,136	348,845	353,142	351,089	356,217	357,543
U. Massachusetts, Medical School	80	232,039	262,714	256,090	245,923	241,869	250,338	253,099	279,884	274,211	281,507	279,096	347,337
U. New Mexico	81	211,771	220,565	220,360	227,703	228,849	232,271	239,550	246,597	251,322	239,696	243,375	332,566
Dartmouth C. and Dartmouth Hitchcock Medical Center	82	194,141	210,631	195,930	201,591	212,606	209,646	233,636	308,445	323,927	323,020	326,349	330,226
Florida State U.	83	227,329	230,411	225,378	250,877	252,548	256,449	268,288	282,901	297,661	329,205	350,430	328,604
Utah State U.	84	149,169	174,167	157,355	158,352	169,605	175,353	180,590	187,314	219,397	283,917	304,256	325,223
U. Tennessee, Knoxville <sup>e</sup>	85	150,671	167,456	179,252	193,054	179,041	173,533	183,268	203,800	259,607	247,693	320,407	316,273
U. Texas Health Science Center, Houston	86	240,772	261,172	236,250	233,256	233,737	234,299	237,016	246,060	258,411	271,525	273,862	308,823
U. Nebraska, Lincoln	87	224,135	235,296	253,321	266,507	278,299	284,438	294,856	302,204	308,053	316,820	320,463	307,083
U. Connecticut	88	237,908	253,792	256,854	242,251	258,056	259,397	265,522	267,647	269,685	285,764	280,131	302,329
Albert Einstein C. of Medicine	89	na	na	na	na	na	na	289,660	289,685	297,328	298,824	288,654	301,715
Temple U.	90	124,528	134,533	138,318	224,087	224,101	227,468	246,392	268,385	276,011	284,301	299,707	299,778
Louisiana State U., Baton Rouge	91	289,872	287,841	285,395	283,400	290,076	281,154	291,972	265,168	286,726	296,497	286,733	296,673
Georgetown U.	92	159,355	169,916	180,308	178,995	172,726	176,131	183,788	212,319	221,449	240,960	258,659	279,932
Medical U. South Carolina	93	224,632	213,346	236,586	245,451	242,594	243,534	260,098	262,267	282,253	295,600	272,590	277,761
Oregon State U.	94	216,595	228,814	240,507	232,677	230,963	245,317	254,275	267,068	272,433	263,830	268,385	276,955
Medical C. Wisconsin	95	191,816	215,358	209,040	201,237	199,713	199,283	199,925	209,618	229,436	251,300	264,325	276,850
Brown U.	96	335,838	344,090	365,120	361,010	341,531	342,040	347,016	212,290	244,838	256,954	266,127	276,331
Mississippi State U.	97	231,675	226,070	233,197	206,424	209,729	226,359	239,446	240,972	244,102	264,526	280,485	275,143
SUNY, Stony Brook U.	98	204,728	211,356	219,744	225,712	211,631	220,580	230,621	238,612	245,016	260,813	263,470	274,516
U. Hawaii, Manoa	99	303,085	318,316	312,311	326,750	324,342	316,497	304,476	292,021	276,388	280,416	275,929	271,768
Auburn U., Auburn	100	145,115	163,335	133,013	147,229	142,487	135,899	152,381	190,340	212,925	231,619	255,281	266,374
George Washington U.	101	196,917	197,621	196,448	202,428	227,995	241,117	231,829	245,519	260,656	269,799	270,369	266,108
Wake Forest U.	102	192,034	209,134	204,328	182,721	176,380	171,926	170,006	182,227	191,371	238,933	244,643	264,216
Woods Hole Oceanographic Institution	103	181,746	198,775	204,352	198,232	220,016	216,592	212,374	194,088	204,400	229,143	227,573	262,048

TABLE 21

**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. California, Santa Barbara	104	225,730	230,435	233,883	236,497	231,322	222,870	230,139	238,246	235,164	243,778	254,434	248,961
Florida International U.	105	110,271	110,006	118,058	128,070	132,531	163,033	170,846	177,292	196,180	225,864	236,842	246,075
U. Notre Dame	106	110,369	134,410	157,691	175,220	182,228	190,954	202,216	212,823	219,993	240,078	227,535	240,324
Clemson U.	107	174,693	166,350	142,096	152,444	161,070	171,215	183,965	193,268	213,458	218,760	228,597	237,485
Wayne State U.	108	254,492	259,895	227,070	224,331	218,435	213,878	221,537	227,728	238,859	244,217	243,259	235,519
U. Delaware	109	153,311	169,746	170,174	179,967	175,563	175,724	176,295	183,428	186,192	206,270	220,445	231,532
Tufts U.	110	156,106	156,395	160,922	156,525	160,825	168,314	189,085	223,409	213,457	213,285	216,241	224,956
U. Texas Health Science Center, San Antonio	111	207,115	198,655	184,298	175,983	172,716	170,277	194,885	169,200	179,219	188,483	202,572	219,734
U. Central Florida	112	117,985	109,190	116,891	126,681	185,555	215,519	198,211	200,387	215,332	225,085	213,757	218,596
U. South Carolina, Columbia	113	229,145	201,592	214,901	203,365	206,173	208,736	209,271	208,670	206,355	205,940	219,464	215,374
George Mason U.	114	84,120	88,089	90,198	95,913	98,680	106,410	108,899	112,404	149,138	186,267	218,445	214,207
U. Massachusetts, Amherst	115	169,141	181,297	194,775	190,739	200,199	213,902	214,576	210,416	211,140	223,177	219,389	213,824
Northeastern U.	116	79,949	86,783	107,862	116,088	116,245	122,915	129,040	142,349	166,711	183,998	200,068	211,342
Rice U.	117	97,903	110,235	117,223	131,003	138,536	144,679	154,543	167,277	161,831	182,564	198,681	207,404
Georgia State U.	118	81,015	92,725	91,148	111,999	123,915	139,596	161,314	200,171	201,235	195,572	202,451	206,472
Tulane U.	119	165,513	171,703	164,373	160,414	157,825	152,658	165,438	180,993	193,294	196,933	204,430	205,206
Kansas State U.	120	160,679	169,167	176,141	183,096	184,945	188,721	193,254	196,478	218,299	218,622	213,900	203,846
U. Houston	121	119,811	113,709	116,288	130,844	140,597	150,628	162,049	169,431	177,484	195,398	200,428	202,536
U. Nebraska, Medical Center	122	138,219	133,036	141,619	137,485	139,126	145,009	150,694	171,491	177,245	194,455	202,406	200,974
Thomas Jefferson U.	123	103,064	104,923	100,506	89,273	118,378	119,631	122,396	142,569	148,573	170,458	171,377	200,393
U. Louisville	124	189,090	197,438	196,842	186,772	183,376	163,262	172,907	177,588	176,655	177,862	198,818	200,362
West Virginia U.	125	154,926	166,420	169,303	167,144	164,454	170,145	172,477	185,606	185,110	187,512	188,452	199,907
Oklahoma State U., Stillwater	126	147,094	162,786	166,523	134,500	126,543	129,968	181,617	189,024	188,756	184,276	187,060	198,799
Texas Tech U.	127	133,360	149,399	138,026	142,676	159,308	163,897	172,521	191,482	185,742	193,923	199,643	197,739
U. Vermont	128	129,856	132,356	115,697	115,486	109,701	114,547	115,611	117,667	128,293	135,859	191,147	195,320
U. Arkansas for Medical Sciences	129	119,518	122,066	129,056	133,677	131,438	132,451	125,378	128,508	139,187	153,135	174,549	194,709
Montana State U., Bozeman	130	135,084	125,966	124,228	113,136	113,348	108,414	112,073	129,622	125,129	154,811	166,285	193,577
Wichita State U.	131	51,524	63,538	61,279	61,388	58,859	59,940	65,930	78,514	81,137	128,795	153,816	192,042
U. Dayton	132	93,309	90,557	81,030	84,252	86,881	98,182	116,589	135,214	147,001	165,343	163,718	191,228
U. California, Riverside	133	130,288	132,238	135,494	132,617	133,558	144,511	152,233	163,632	167,847	177,655	184,894	189,600
U. Texas Medical Branch	134	188,399	193,555	180,888	180,198	178,014	173,506	179,541	185,106	181,831	175,372	180,595	185,759
U. Louisiana, Lafayette	135	69,412	69,978	65,275	61,887	67,580	77,300	80,099	100,956	124,713	144,187	164,070	181,400
U. Nevada, Reno	136	95,423	89,740	85,726	89,797	87,324	90,138	95,475	105,869	144,426	152,128	159,790	175,386
U. Alaska, Fairbanks	137	161,986	165,530	160,407	162,658	155,769	142,742	144,259	152,694	140,917	144,457	152,299	172,957
U. New Hampshire	138	115,562	143,002	165,156	147,446	147,544	144,735	145,015	145,375	146,430	148,980	156,901	167,373
New Jersey Institute of Technology	139	92,318	100,491	102,851	107,310	106,081	110,512	130,812	142,164	162,349	161,232	163,447	166,587

TABLE 21

**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. Arkansas, Fayetteville	140	113,909	120,007	123,199	125,501	125,824	133,660	145,020	157,791	175,498	180,225	165,887	164,443
North Dakota State U.	141	126,419	134,064	135,493	150,173	154,437	153,542	156,297	153,119	145,669	152,381	155,645	164,050
U. California, Santa Cruz	142	143,919	155,617	155,516	150,777	151,734	151,713	151,192	124,344	127,538	142,958	150,400	160,615
Drexel U.	143	118,349	115,020	116,768	123,813	131,170	128,027	127,909	138,577	155,908	149,481	143,123	152,752
Syracuse U.	144	107,024	83,686	85,649	70,967	66,321	69,896	84,651	145,705	147,751	154,366	149,652	151,717
U. Alabama, Huntsville	145	75,683	75,724	87,388	101,016	89,325	88,439	96,865	94,376	99,405	109,744	131,648	149,792
U. Maine	146	111,282	111,600	92,135	77,583	101,247	79,500	79,222	99,502	106,694	129,913	134,183	146,801
U. Texas, San Antonio	147	56,279	58,667	57,233	53,626	47,061	54,949	59,831	70,163	72,682	84,326	138,586	145,362
U. North Dakota	148	76,560	74,882	80,149	68,942	67,595	64,384	70,275	102,823	109,865	110,836	111,663	143,506
U. Oregon	149	94,107	103,019	105,030	94,522	91,203	79,698	100,754	95,974	111,896	110,664	114,259	139,193
U. Alabama, Tuscaloosa	150	40,762	53,633	55,885	55,443	53,140	58,234	62,549	63,282	71,992	83,317	95,200	129,509
U. Rhode Island	151	90,016	102,630	114,323	101,898	91,706	93,828	97,900	101,871	104,490	115,160	109,967	129,296
U. Texas, Arlington	152	71,414	72,483	78,556	86,735	89,175	77,798	87,386	97,197	105,688	123,858	133,793	126,477
SUNY, Binghamton U.	153	72,057	72,539	81,000	76,005	71,382	79,895	85,192	98,089	113,851	104,297	117,870	124,565
U. Texas, Dallas	154	82,044	93,230	90,700	98,842	99,727	98,551	106,205	113,205	113,315	126,661	132,192	122,825
U. Montana, Missoula	155	63,540	60,159	59,313	60,189	55,032	60,485	70,059	85,044	90,563	104,665	110,218	121,571
Rensselaer Polytechnic Institute	156	83,952	84,834	92,720	92,495	105,608	102,841	101,127	104,797	100,856	103,739	122,753	119,056
Augusta U.	157	na	na	na	64,033	64,118	67,737	71,338	99,661	99,081	96,502	103,961	116,480
U. Mississippi	158	110,020	122,765	121,731	108,168	109,922	94,040	121,665	134,542	137,521	158,809	122,960	116,175
Cold Spring Harbor Laboratory	159	ne	89,913	84,072	78,236	76,733	84,653	88,943	97,288	115,870	126,773	115,198	114,903
SUNY, U. Albany	160	359,364	148,625	137,758	137,759	130,955	111,705	120,232	156,386	173,031	181,531	138,088	114,501
New Mexico State U.	161	157,872	139,062	141,151	142,365	134,262	132,377	106,282	102,218	96,270	101,457	107,275	110,580
U. Tennessee, Health Science Center	162	81,904	81,220	77,754	71,902	67,841	65,771	71,547	73,393	79,460	96,979	99,716	109,562
U. Texas, El Paso	163	68,870	74,069	79,649	83,249	79,537	89,418	91,330	94,565	91,032	106,809	108,628	109,410
San Diego State U.	164	99,137	106,591	92,867	86,733	95,674	93,572	90,722	89,187	88,177	92,964	97,710	107,681
Brandeis U.	165	71,006	74,889	74,660	76,060	74,992	74,700	73,435	68,437	61,639	60,825	91,355	107,549
Rush U.	166	73,398	79,212	80,300	81,770	80,551	79,048	73,351	74,062	89,101	96,267	94,438	107,398
U. Idaho	167	87,207	96,229	97,227	95,891	95,594	97,493	102,457	109,537	111,590	113,107	112,810	105,895
U. Nevada, Las Vegas	168	44,457	39,526	34,543	35,935	39,448	42,000	62,825	66,285	83,800	99,445	105,872	101,009
U. Massachusetts, Lowell	169	59,345	60,013	60,624	63,136	64,591	70,384	68,494	69,677	72,266	83,996	92,216	94,708
U. Wyoming	170	55,319	57,549	65,611	65,490	51,422	56,996	112,056	125,032	113,063	80,353	93,061	93,202
U. Maryland, Baltimore County	171	87,156	91,657	74,993	71,819	67,833	68,688	70,166	70,406	71,481	80,632	83,867	84,418
Michigan Technological U.	172	63,471	70,089	71,989	70,689	68,526	69,607	72,536	71,629	78,678	80,443	77,927	81,715
Colorado School of Mines	173	44,879	48,704	58,836	59,091	59,695	58,349	60,931	59,477	60,372	70,397	78,517	81,443
U. North Texas, Denton	174	31,496	42,475	46,943	49,518	44,180	43,628	37,106	43,789	44,025	78,691	84,239	81,252
Saint Louis U.	175	46,839	53,179	49,086	48,231	44,481	44,457	42,151	56,402	60,380	66,103	69,528	79,005

TABLE 21

## 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
Texas State U.	176	30,560	33,487	36,664	37,053	39,265	47,694	54,298	60,741	64,322	64,554	70,714	72,510
Cleveland State U.	177	34,235	55,502	61,111	67,378	61,783	57,662	77,720	83,762	83,641	80,077	78,189	71,451
Northern Arizona U.	178	28,803	30,785	28,100	30,516	31,590	35,206	39,580	46,253	52,899	58,914	64,456	69,129
William & Mary	179	57,461	58,919	55,805	57,940	59,015	61,554	63,027	64,127	65,269	64,835	66,763	68,801
U. Southern Mississippi	180	42,059	46,591	60,079	51,962	51,938	51,840	59,363	61,659	61,336	76,464	72,322	67,417
U. Memphis	181	49,517	48,321	51,194	48,141	55,566	46,675	48,321	49,695	64,297	58,700	69,463	67,092
American U.	182	39,747	46,611	43,526	61,087	63,628	58,325	57,064	56,034	61,741	71,053	71,839	65,912
Van Andel Research Institute	183	ne	ne	ne	ne	ne	40,502	40,040	44,578	55,171	61,738	58,982	65,789
Indiana U.-Purdue U., Indianapolis	184	296,194	322,617	316,914	332,760	324,261	55,973	57,853	58,056	60,501	67,635	70,778	65,330
Boston C.	185	50,537	52,253	51,442	50,702	49,724	47,761	54,469	58,088	57,030	61,956	63,063	65,156
Naval Postgraduate School	186	103,510	101,363	132,450	94,880	99,032	89,170	65,529	60,386	59,213	67,323	62,903	65,101
U. Massachusetts, Boston	187	56,416	57,040	60,086	60,380	61,186	62,374	64,223	70,019	61,473	62,018	64,219	63,723
Old Dominion U.	188	97,176	102,192	104,579	99,138	67,037	65,092	70,054	67,990	60,321	67,425	65,704	62,332
San Jose State U.	189	38,241	40,149	34,727	38,326	43,509	45,037	41,662	39,192	41,366	44,309	47,301	60,100
Florida Atlantic U.	190	56,472	62,024	65,377	23,967	22,997	21,214	26,750	46,025	48,024	51,085	53,845	58,471
U. Texas Rio Grande Valley	191	na	na	na	na	na	na	31,007	29,500	27,125	52,016	56,702	58,187
CUNY, City C.	192	46,699	60,648	57,982	55,138	52,654	53,223	62,484	54,627	53,979	52,738	45,632	57,361
Rochester Institute of Technology	193	38,663	34,889	36,935	36,613	35,945	40,442	45,518	51,263	49,413	58,175	57,777	56,043
U. Wisconsin-Milwaukee	194	71,181	65,648	61,771	56,587	60,752	63,414	59,813	54,181	55,771	53,773	61,069	55,664
Missouri U. of Science and Technology	195	42,263	41,581	38,588	40,397	39,065	35,842	35,756	38,243	42,986	47,807	47,001	54,437
U. Toledo	196	70,399	74,149	68,228	69,072	61,900	52,354	50,019	50,030	50,320	55,006	54,100	53,169
Howard U.	197	40,080	42,341	45,486	42,789	40,771	47,322	41,038	45,768	45,965	44,163	44,933	52,412
Mercer U.	198	27,298	29,039	31,376	28,892	30,209	32,838	31,735	29,447	34,197	44,128	49,116	51,989
U. North Carolina, Charlotte	199	31,814	27,533	25,141	24,764	23,342	24,870	27,815	26,097	39,888	47,187	50,050	51,877
East Carolina U.	200	23,995	28,114	31,990	38,271	29,925	26,549	25,273	26,117	39,074	55,611	57,820	51,662
South Dakota State U.	201	67,552	69,680	68,743	63,843	58,334	58,373	60,677	63,412	63,465	66,794	60,939	51,542
U. Maryland Center for Environmental Science	202	42,670	50,007	48,224	53,683	50,814	52,235	54,974	55,078	54,136	56,033	54,560	51,201
U. California, Office of the President	203	72,542	63,420	65,627	67,447	50,103	48,341	39,051	46,399	55,676	67,702	60,686	50,848
U. North Texas, Health Science Center	204	38,862	45,943	46,865	44,904	47,002	46,335	50,567	48,476	49,503	50,124	42,766	50,698
Kent State U.	205	26,331	27,455	26,507	23,149	25,666	38,069	34,661	42,003	42,792	47,188	50,307	50,408
Ohio U.	206	50,440	57,643	57,203	59,734	60,800	61,078	59,117	61,092	53,303	53,735	51,914	49,764
Baylor U.	207	10,925	12,343	10,161	13,616	20,729	24,642	26,767	29,400	31,936	33,304	39,765	48,809
Worcester Polytechnic Institute	208	18,613	22,137	20,232	25,298	29,929	36,130	37,822	33,368	33,067	39,878	43,092	48,702
U. South Alabama	209	35,500	42,233	40,172	40,590	41,681	43,722	46,670	41,431	41,056	52,540	51,102	47,610
Southern Illinois U., Carbondale	210	69,924	71,130	71,097	70,854	65,256	57,509	53,172	48,416	49,636	41,729	41,617	47,210
Florida A&M U.	211	53,474	53,326	52,263	51,149	46,367	46,522	45,390	37,578	39,682	42,470	41,319	47,124

TABLE 21

**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
Boise State U.	212	18,731	24,204	27,920	25,690	26,568	31,341	32,085	34,992	41,382	39,824	43,307	46,065
U. California, Merced	213	21,591	21,328	22,656	22,909	23,916	29,688	29,370	35,093	38,226	44,890	45,966	45,964
Air Force Institute of Technology	214	31,259	31,879	32,746	27,592	23,902	26,866	29,998	35,733	33,360	34,016	35,584	45,703
SUNY, Upstate Medical U.	215	43,824	39,988	35,897	34,286	33,460	32,453	31,892	35,551	36,674	38,091	41,557	44,870
Louisiana State U., Health Sciences Center, New Orleans	216	59,776	57,007	53,712	49,443	45,486	46,840	43,067	40,785	38,989	40,914	43,419	44,370
U. Puerto Rico, Medical Sciences Campus	217	39,134	64,017	45,649	43,374	40,444	43,316	46,232	42,423	41,216	45,014	37,217	44,111
Loyola U., Chicago	218	43,903	42,708	45,903	51,676	50,774	48,664	42,672	39,738	39,332	39,223	39,365	44,036
Brigham Young U., Provo	219	32,997	37,142	33,843	36,562	38,051	39,126	42,304	43,406	40,755	39,582	38,569	43,916
Stevens Institute of Technology	220	35,544	41,622	31,929	28,908	30,826	34,082	35,765	35,144	33,060	36,695	44,747	43,386
Southern Methodist U.	221	18,742	24,453	24,397	22,544	32,401	29,282	31,819	29,879	31,140	42,562	43,081	41,960
Texas Tech U., Health Sciences Center	222	51,282	58,774	61,219	61,412	38,015	40,438	40,235	39,767	37,819	44,072	44,135	41,583
Portland State U.	223	56,533	58,975	58,489	55,435	54,787	53,872	56,572	48,964	46,911	50,045	43,667	41,311
Lehigh U.	224	37,332	32,086	31,992	35,220	37,066	36,788	32,941	36,969	38,674	38,185	38,064	41,279
North Carolina Agricultural and Technical State U.	225	35,297	34,930	35,103	33,994	35,047	35,172	33,759	37,379	38,140	37,339	36,151	40,751
U. Denver	226	15,748	17,004	15,237	19,262	18,183	16,116	21,326	22,289	27,270	36,551	41,349	38,751
Georgia Southern U.	227	3,704	3,912	5,719	18,069	20,245	17,152	17,395	16,084	12,978	11,166	12,166	37,201
Marquette U.	228	14,310	19,876	18,606	20,856	23,633	24,816	28,422	30,034	32,471	37,777	37,136	37,087
U. North Carolina, Greensboro	229	22,436	26,121	19,080	16,590	20,723	23,026	23,965	23,231	22,743	26,325	28,966	37,033
U. West Florida	230	17,757	21,710	16,221	19,332	19,579	31,232	40,815	35,054	41,035	38,555	37,397	36,837
San Francisco State U.	231	25,615	26,198	30,291	33,885	29,457	26,345	28,273	29,940	30,903	31,888	33,828	35,768
Catholic U. of America	232	21,454	25,397	24,971	23,235	22,331	24,265	25,139	24,282	25,497	24,484	25,221	35,548
SUNY, Downstate Health Sciences U.	233	32,512	41,993	43,257	39,354	33,331	28,652	33,735	31,873	34,661	36,015	33,204	34,459
U. Missouri, Kansas City	234	30,163	32,769	29,227	28,829	29,164	26,595	26,292	25,123	25,136	31,956	36,356	33,855
CUNY, Hunter C.	235	38,900	39,772	41,022	40,059	38,879	36,368	37,094	31,273	33,702	37,478	38,345	33,816
Morehouse School of Medicine	236	30,669	33,946	37,586	36,638	41,858	33,367	38,774	36,925	33,215	31,289	29,813	32,637
U.S. Air Force Academy	237	62,097	73,607	56,044	57,164	44,663	38,326	55,358	48,287	35,925	43,941	42,197	32,086
Texas A&M U.-Corpus Christi	238	17,266	17,509	15,776	17,418	21,321	24,507	24,786	27,993	30,253	32,944	32,284	30,500
Illinois Institute of Technology	239	36,554	44,463	32,576	36,722	31,356	34,336	29,826	32,659	33,280	34,334	29,122	29,698
U. Puerto Rico, Rio Piedras	240	30,515	32,582	33,099	29,234	28,793	28,579	23,491	21,204	17,085	24,088	22,895	28,896
New Mexico Institute of Mining and Technology	241	51,696	43,857	37,875	32,499	48,338	26,265	19,598	20,491	21,383	24,616	24,591	28,745
U. Massachusetts, Dartmouth	242	25,725	25,644	22,732	27,326	28,219	26,776	26,824	26,102	26,626	28,036	26,836	28,729
SUNY, C. of Environmental Science and Forestry	243	26,916	25,024	23,132	21,239	19,027	22,051	24,504	27,923	26,610	29,137	29,296	28,440
U. Texas Health Science Center, Tyler	244	ne	ne	ne	ne	ne	12,191	11,799	16,292	17,949	19,606	21,265	27,928
U. South Dakota	245	30,616	28,959	31,982	33,187	30,700	25,661	25,864	28,358	30,943	32,028	29,279	27,537
Louisiana Tech U.	246	26,020	27,583	26,546	24,949	22,942	23,827	23,104	22,741	24,655	26,143	26,585	27,417
Tennessee State U.	247	12,432	13,468	15,439	16,177	20,068	19,955	19,520	18,108	17,681	15,236	25,942	26,880

TABLE 21

**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
Rowan U.	248	2,987	3,247	3,783	3,407	8,202	8,044	10,212	12,856	16,247	22,892	26,018	26,458
Desert Research Institute	249	34,367	35,331	33,056	27,695	23,778	22,103	29,422	29,440	27,875	26,991	26,428	26,365
Wright State U.	250	48,575	48,501	46,213	50,489	54,985	54,289	55,484	59,379	68,035	64,208	49,825	26,259
California Polytechnic State U., San Luis Obispo	251	19,732	16,532	17,412	16,067	15,096	16,312	18,081	17,979	16,352	25,249	26,605	25,953
Chapman U.	252	3,830	3,547	3,314	4,463	4,794	5,353	6,554	10,626	14,141	19,592	26,660	25,820
Western Michigan U. and Homer Stryker M.D. School of Medicine	253	26,391	25,051	21,073	18,979	18,942	19,679	18,927	22,372	21,184	25,071	24,541	25,314
Northern Illinois U.	254	27,036	21,748	21,823	23,027	16,427	17,722	21,225	19,150	23,280	26,570	25,420	25,261
Miami U.	255	26,521	26,093	26,311	23,924	21,216	16,108	16,057	17,239	19,658	22,380	24,489	25,138
Villanova U.	256	10,066	10,044	8,547	7,049	13,700	14,512	14,903	19,037	20,730	22,837	25,505	24,723
Louisiana State U., Health Sciences Center, Shreveport	257	30,817	31,021	29,365	28,266	25,004	24,069	23,353	22,560	24,463	26,262	25,321	24,600
Nova Southeastern U.	258	10,116	12,322	12,908	12,712	13,716	14,775	19,559	22,508	23,296	24,567	26,035	24,513
Teachers C., Columbia U.	259	17,167	18,406	20,805	19,649	20,538	23,269	24,124	24,194	24,477	24,865	22,630	24,335
Illinois State U.	260	18,417	17,833	17,760	17,589	19,159	18,742	20,408	20,080	21,055	27,082	31,539	24,152
Rutgers, State U. New Jersey, Newark	261	27,745	35,774	34,797	37,134	28,083	24,387	21,492	25,898	27,206	26,661	28,006	23,854
U. Minnesota, Duluth	262	21,150	23,400	21,530	21,383	21,904	27,550	27,528	24,956	25,189	27,530	26,137	23,767
California State U., Sacramento	263	15,207	16,344	14,053	15,564	13,136	17,930	20,676	21,106	21,429	23,544	24,939	23,699
Marshall U.	264	24,501	26,723	18,998	19,617	20,382	19,936	20,687	18,348	20,050	19,622	22,250	23,620
Texas A&M U.-Kingsville	265	17,378	17,114	17,419	18,653	21,819	20,894	21,309	22,633	21,150	22,268	22,745	23,578
Ponce Health Sciences U.	266	8,934	10,502	11,586	7,241	5,710	7,520	7,992	8,664	7,857	11,390	13,566	23,297
Creighton U.	267	27,700	31,443	32,594	29,983	25,560	23,825	23,510	24,315	20,587	24,039	20,339	23,251
Florida Institute of Technology	268	12,054	14,523	17,100	13,298	14,255	14,282	18,860	18,180	17,378	17,876	18,271	23,195
Delaware State U.	269	15,200	19,019	15,668	17,295	17,679	15,980	21,320	20,793	21,377	23,017	23,105	23,193
Middle Tennessee State U.	270	4,793	4,969	7,108	5,718	4,334	4,350	6,164	4,714	7,132	7,673	8,697	22,531
Albany Medical C.	271	22,953	20,876	17,735	15,093	16,093	18,043	20,166	20,443	21,187	23,028	23,510	22,443
Central Michigan U.	272	7,483	8,671	10,907	12,879	15,015	12,880	14,166	14,652	15,616	17,102	17,448	21,726
Tuskegee U.	273	15,581	15,685	15,991	21,150	24,945	20,740	16,535	16,535	16,535	20,562	20,973	21,355
U. Alaska, Anchorage	274	16,709	18,620	20,194	20,255	17,150	17,436	19,883	20,861	21,096	21,724	22,713	21,332
U. Nebraska, central administration	275	ne	ne	ne	ne	ne	ne	ne	ne	13,352	18,860	23,672	21,295
Morgan State U.	276	12,804	12,803	17,751	15,475	15,720	13,577	15,727	14,978	12,993	13,253	17,193	20,628
Oakland U.	277	12,856	15,868	18,194	16,767	15,196	17,108	16,001	14,561	13,817	18,002	12,949	20,261
California State U., East Bay	278	1,312	1,644	1,039	934	ne	ne	837	ne	ne	ne	9,072	20,108
Embry-Riddle Aeronautical U.	279	12,189	16,289	19,376	16,484	15,393	11,942	16,761	13,335	16,767	12,478	17,786	19,830
U.S. Military Academy	280	22,171	13,799	12,227	11,630	14,819	15,312	13,500	13,617	13,582	10,765	12,473	19,696
Eastern Virginia Medical School	281	44,420	36,569	37,745	44,183	43,917	42,296	32,550	28,671	30,010	27,064	20,870	19,415
U. Nebraska, Omaha	282	8,951	9,509	8,376	9,181	9,222	9,422	10,459	12,061	12,943	14,302	16,134	19,006

TABLE 21

## 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
Kennesaw State U.	283	1,854	1,961	3,511	5,062	2,192	4,762	8,279	9,510	11,214	12,850	17,954	18,880
New York Medical C.	284	28,400	27,316	23,277	20,243	17,908	17,653	17,311	15,637	16,226	19,398	20,137	18,872
Bowling Green State U.	285	8,124	8,999	8,566	13,157	8,861	7,995	14,460	14,333	17,991	17,026	18,729	18,619
East Tennessee State U.	286	9,869	10,249	11,213	8,919	7,836	6,930	7,982	9,493	14,043	14,197	13,925	18,449
U. Puerto Rico, Mayaguez	287	26,475	34,424	32,115	29,225	27,152	28,100	25,491	26,130	24,769	26,877	26,553	18,368
Southern Illinois U., Edwardsville	288	31,781	33,736	26,992	25,807	18,915	19,051	18,780	17,393	18,420	18,088	18,273	18,044
U. Colorado Denver <sup>c</sup>	289	na	na	na	na	na	na	na	na	na	na	na	18,039
Tarleton State U.	290	10,763	10,426	9,393	9,722	10,996	9,825	9,404	10,893	12,503	13,171	14,890	17,729
U. Guam	291	5,555	5,626	6,131	6,043	7,075	6,062	7,402	8,842	11,225	12,249	13,043	17,666
Prairie View A&M U.	292	12,565	15,243	14,552	13,198	12,292	13,123	12,616	13,982	17,278	18,018	18,723	17,582
Montclair State U.	293	2,255	3,621	5,123	4,568	4,266	4,274	5,207	5,796	7,980	15,588	17,636	17,390
U. Akron	294	52,884	60,352	66,413	69,640	69,528	58,512	58,817	41,326	32,582	30,020	23,496	17,340
U. New Orleans	295	35,021	35,359	28,450	24,607	20,614	18,960	15,719	15,939	14,437	15,328	16,594	16,979
Clarkson U.	296	18,584	17,951	14,809	12,061	13,750	13,406	12,983	15,148	16,927	17,147	15,104	16,765
Fordham U.	297	19,289	18,350	19,311	18,822	17,961	20,939	25,374	20,807	20,644	20,287	20,456	16,731
U. North Carolina, Wilmington	298	23,143	22,593	19,722	18,145	14,648	15,564	15,715	16,015	16,955	17,515	16,544	16,656
California State U., Northridge	299	29,469	25,654	29,491	9,640	12,991	13,333	16,330	17,979	19,618	21,095	21,228	16,573
U. Tulsa	300	23,387	19,489	20,270	21,757	27,077	25,066	22,347	20,879	20,072	18,648	18,787	16,449
Jackson State U.	301	44,862	49,998	46,943	36,264	26,609	23,908	23,832	22,790	19,465	18,160	15,081	16,157
CUNY, Queens C.	302	16,845	23,219	22,399	19,762	23,434	19,092	19,168	15,936	16,676	18,391	16,470	16,063
Meharry Medical C.	303	27,001	29,055	25,559	22,532	18,997	13,998	14,768	16,782	16,980	18,286	13,870	15,840
U. North Florida	304	8,041	9,379	7,031	4,480	3,674	3,689	5,141	6,476	9,994	12,341	13,573	15,782
South Dakota School of Mines and Technology	305	28,572	32,070	19,140	12,156	10,524	14,970	15,396	15,541	15,092	12,973	14,490	15,746
CUNY, Advanced Science Research Center	306	na	na	na	na	na	569	ne	3,541	5,666	8,310	11,373	15,403
Tennessee Technological U.	307	16,754	13,247	10,233	9,715	10,097	11,082	11,528	12,079	12,765	13,801	14,085	15,387
Texas Christian U.	308	5,306	5,595	7,775	8,574	7,872	8,007	6,589	7,255	5,808	6,552	15,326	15,336
U. of the Virgin Islands	309	32,350	21,994	25,719	20,041	20,371	20,630	21,215	12,298	11,957	12,236	13,631	15,231
California State U., Long Beach	310	15,494	14,595	13,696	12,796	10,097	8,830	16,390	18,805	22,880	18,664	16,684	15,134
Long Island U.	311	832	877	890	915	ne	ne	1,420	2,290	2,405	5,113	13,997	15,059
CUNY, Graduate School of Public Health and Health Policy	312	na	na	na	na	na	na	na	na	9,751	9,521	12,177	15,035
Montana Technological U.	313	7,424	6,705	11,765	11,059	11,348	11,595	11,851	13,059	12,666	12,731	12,987	14,933
James Madison U.	314	7,038	7,303	8,891	5,835	4,628	3,712	3,303	3,248	4,191	8,726	10,247	14,687
U. Baltimore	315	4,229	5,944	5,556	5,448	4,990	5,022	5,798	6,851	10,556	12,451	15,054	14,672
U. Missouri, Saint Louis	316	14,628	18,461	19,356	20,869	18,618	12,061	13,460	12,042	12,266	14,432	15,352	14,632
New School	317	5,178	6,420	7,568	9,219	7,160	8,978	17,425	12,740	13,606	13,421	13,186	14,281

TABLE 21

## 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
Alcorn State U.	318	10,280	11,397	11,515	11,315	10,060	9,396	8,204	16,129	13,834	14,435	13,710	14,188
North Carolina Central U.	319	6,870	9,496	11,076	8,979	11,537	12,448	12,463	14,119	14,942	16,227	15,833	14,105
Humboldt State U.	320	9,845	9,570	9,510	8,025	8,306	11,218	16,143	15,969	15,044	15,076	14,236	14,103
Loma Linda U.	321	35,990	39,409	31,772	31,715	23,375	25,519	22,977	21,846	19,892	17,938	15,984	14,029
Idaho State U.	322	20,495	21,450	21,179	22,147	20,610	17,866	20,447	18,564	18,081	14,972	14,478	13,953
Northeast Ohio Medical U.	323	10,819	13,581	13,358	12,722	15,916	17,103	18,823	19,216	18,231	18,016	15,758	13,853
Rosalind Franklin U. of Medicine and Science	324	12,426	14,261	15,587	17,401	17,794	16,604	16,760	17,006	16,765	16,126	14,601	13,805
Western Washington U.	325	10,571	9,498	7,597	8,157	8,567	9,921	10,743	13,014	13,075	11,983	12,823	13,450
Sam Houston State U.	326	7,555	5,816	4,349	4,608	3,996	3,086	3,266	3,658	7,152	9,445	12,437	13,315
Charles R. Drew U. of Medicine and Science	327	22,152	22,150	20,580	18,547	20,686	14,128	13,360	15,652	11,490	13,739	13,682	13,228
U. Hawaii, system office	328	ne	ne	ne	ne	ne	ne	ne	ne	12,340	12,159	13,568	12,918
Loyola Marymount U.	329	4,557	6,455	5,746	6,766	7,635	6,389	7,504	7,071	7,911	7,272	7,193	12,819
Xavier U. Louisiana	330	8,029	9,849	10,606	8,789	9,346	9,588	12,084	12,424	11,784	10,152	11,387	12,799
CUNY, John Jay C. of Criminal Justice	331	5,916	6,205	9,319	7,355	8,633	8,689	9,688	11,934	14,310	12,295	13,939	11,791
Hampton U.	332	14,455	12,414	15,356	12,641	11,169	14,895	14,225	16,482	14,424	13,605	11,402	11,669
California State U., San Bernardino	333	4,188	11,591	9,303	11,942	13,582	15,317	10,771	12,924	16,702	16,062	10,819	11,607
Texas Tech U., Health Sciences Center, El Paso	334	ne	ne	ne	ne	23,282	18,889	17,391	16,479	12,556	11,883	10,421	11,360
U. Tennessee, Chattanooga	335	10,749	9,251	10,896	7,844	6,239	6,817	5,600	6,352	7,585	9,280	10,834	11,192
Rhode Island C.	336	ne	8,027	10,389	10,385	8,938	10,080	9,943	9,030	9,287	9,480	10,094	10,990
Midwestern U.	337	3,626	4,022	5,200	6,292	7,310	8,560	7,732	9,207	10,173	10,343	10,479	10,961
U.S. Naval Academy	338	11,093	10,543	9,610	10,816	10,861	9,609	11,374	13,541	14,057	13,621	13,123	10,818
Salisbury U.	339	3,503	1,852	6,891	6,959	7,923	7,960	8,473	7,731	9,119	9,368	9,496	10,552
Duquesne U.	340	15,804	16,814	15,547	15,661	15,025	16,159	17,089	17,197	17,420	16,947	17,485	10,521
California State U., San Marcos	341	5,788	6,795	7,802	8,809	8,302	6,432	6,634	6,549	8,348	10,595	13,250	10,213
Virginia State U.	342	7,466	8,562	10,296	9,535	8,374	7,808	8,147	10,725	10,673	11,457	10,014	10,123
Missouri State U.	343	7,770	5,584	4,340	3,882	3,782	3,540	3,069	3,215	4,409	5,910	13,131	10,014
West Texas A&M U.	344	7,346	5,847	6,937	5,510	5,407	4,513	4,048	4,943	4,797	5,437	6,220	9,920
St. Edward's U.	345	ne	7,160	5,906	8,040	3,975	9,515	9,325	10,149	10,431	9,650	9,619	9,527
California State U., Los Angeles	346	7,714	8,823	7,192	7,659	5,172	5,010	5,371	8,274	9,594	12,476	10,590	9,382
California State U., Fresno	347	8,698	8,597	8,359	7,682	8,109	8,624	8,586	8,102	8,988	8,599	8,856	9,213
Texas Southern U.	348	7,003	6,318	6,380	6,548	6,038	5,005	4,495	4,722	3,740	4,893	10,138	9,128
Alabama A&M U.	349	30,497	30,238	29,979	29,720	29,461	29,202	25,112	21,022	16,932	12,840	8,749	9,065
California State U., Fullerton	350	21,776	28,186	22,222	18,478	7,919	5,611	5,755	5,510	6,348	7,173	5,929	9,006
Bryn Mawr C.	351	7,476	8,388	9,837	9,452	9,143	11,692	10,867	11,146	10,282	9,846	11,575	8,987
Clark Atlanta U.	352	8,515	8,245	10,406	9,159	9,192	9,945	8,513	8,007	7,833	9,048	8,452	8,892
Ball State U.	353	20,477	18,765	11,740	10,357	9,209	10,548	11,763	8,797	11,163	12,145	9,429	8,826

TABLE 21

## 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						
Kentucky State U.	354	4,912	4,562	6,859	5,605	5,694	6,017	7,178	8,151	i	9,125	8,433	7,963	8,756					
Central State U.	355	3,233	3,821	3,591	2,771	2,025	1,508	1,643	2,008		3,615	3,766	6,107	8,751					
U. Arkansas, Pine Bluff	356	8,343	9,415	9,082	8,911	8,198	8,425	8,873	8,136		8,349	9,024	8,540	8,713					
U. Maryland, Eastern Shore	357	8,692	8,664	7,309	8,826	8,982	9,700	8,250	7,403		4,941	7,133	8,092	8,636					
Arkansas State U., Jonesboro	358	11,115	13,435	14,250	10,463	8,099	8,453	8,169	7,952		8,245	8,945	8,640	8,422					
U. Washington, Bothell	359	630	2,857	4,285	4,704	7,550	7,657	8,406	10,219		8,097	7,950	7,107	8,311					
Florida Gulf Coast U.	360	13,906	17,051	14,393	14,204	9,626	8,992	7,335	6,025		5,115	5,907	6,671	8,197					
Winston-Salem State U.	361	ne	1,179	1,977	841	ne	ne	1,356	1,575		1,629	2,011	5,781	8,123					
U. of the District of Columbia	362	5,012	4,422	4,030	3,073	2,361	2,043	3,469	3,733		2,960	4,800	4,590	8,104					
Wesleyan U.	363	8,397	10,367	8,945	8,120	7,262	7,223	7,740	8,945		10,662	9,958	8,300	8,009					
Clark U.	364	7,111	6,861	7,260	5,693	6,168	7,050	6,970	8,453		8,318	10,193	10,277	7,931					
William Paterson U.	365	1,051	1,452	ne	ne	ne	ne	1,919	3,012		9,456	10,122	9,603	7,867					
Oklahoma State U., Center for Health Sciences	366	4,398	2,815	2,122	2,137	1,805	1,625	2,182	2,454		2,608	5,408	8,378	7,758					
Lincoln U., Jefferson City	367	8,475	8,518	7,899	6,585	6,742	6,296	5,826	5,164		4,215	4,581	5,777	7,621					
U. San Diego	368	2,934	3,483	4,275	4,554	5,146	4,476	4,734	5,089		5,642	6,036	8,607	7,580					
U. Michigan, Dearborn	369	6,779	7,554	6,015	6,846	8,176	7,802	7,904	8,315		8,094	8,813	8,777	7,472					
U. Hawaii, Hilo	370	14,857	9,934	22,003	16,009	9,323	14,495	11,287	7,008		7,133	6,864	6,992	7,411					
U. Arkansas, Little Rock	371	11,007	12,039	10,500	13,107	8,068	7,003	7,604	6,833		8,167	9,975	9,711	7,397					
Claremont Graduate U.	372	7,116	6,589	10,350	9,705	9,540	i	9,375	i	9,210	i	9,045	i	8,880	i	8,715	i	9,403	7,235
Eastern Michigan U.	373	14,133	11,643	12,437	3,128	1,428	1,761	3,815	6,281		6,600	7,175	9,088	7,233					
U. Oklahoma, Tulsa	374	ne	ne	ne	ne	ne	4,104	4,962	4,487		6,233	6,373	7,483	7,185					
California State Polytechnic U., Pomona	375	6,493	7,198	6,597	6,988	5,455	4,611	5,254	5,863		8,043	6,099	7,396	7,011					
Western Kentucky U.	376	9,943	8,344	10,639	9,322	8,280	7,854	8,926	10,814		9,617	9,281	8,241	6,944					
California State U., Monterey Bay	377	5,305	6,959	6,567	6,129	4,787	5,492	5,680	5,397		5,799	6,444	5,874	6,882					
Grand Valley State U.	378	5,044	6,429	i	7,814	i	9,202	8,198	7,453		6,764	6,917	6,968	6,592	6,792	6,809			
Western U. of Health Sciences	379	1,786	1,768	3,005	3,721	5,474	4,904	6,895	6,187		5,140	4,951	5,899	6,688					
DePaul U.	380	4,889	5,798	5,706	5,524	6,415	9,479	9,558	8,561		7,079	6,144	6,557	6,675					
Edward Via C. of Osteopathic Medicine	381	ne	2,453	2,576	4,992	2,633	2,237	5,692	8,119		7,601	7,225	7,475	6,629					
West Virginia State U.	382	3,770	4,176	5,087	4,491	7,221	7,365	5,224	6,305		6,535	5,829	5,775	6,565					
C. Charleston	383	14,218	8,320	9,579	10,224	10,034	10,607	10,189	8,927		7,375	7,610	5,728	6,361					
Langston U.	384	4,492	5,206	5,326	4,932	8,512	8,126	11,178	11,025	i	10,872	i	10,719	14,409	6,345				
CUNY, Brooklyn C.	385	6,846	9,306	9,216	8,064	9,407	9,091	9,602	7,393		6,600	6,837	i	7,074	6,318				
California State U., Bakersfield	386	2,083	3,162	1,241	2,602	2,432	3,192	3,161	4,652		5,577	7,591	7,053	6,253					
Wellesley C.	387	8,422	7,242	8,439	9,113	10,127	9,595	11,664	10,326		11,530	8,810	8,088	6,252					
U. New England	388	3,560	4,016	5,224	6,637	7,650	7,498	7,566	8,064		6,700	7,346	6,886	6,234					
Philadelphia C. of Osteopathic Medicine	389	1,278	2,401	1,898	2,614	2,209	2,561	2,458	2,969		3,059	3,162	3,360	6,186					



TABLE 21

## 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. Detroit Mercy	425	1,148	1,462	970	ne	1,320	1,882	3,654	2,748	4,605	5,210	4,786	4,578
Morehouse C.	426	7,857	8,485	i 9,113	9,581	7,349	6,180	4,315	3,667	4,531	4,564	4,825	4,533
Claremont McKenna C.	427	5,725	5,316	5,365	i 5,414	i 5,463	ne	6,094	5,818	5,693	6,214	5,846	4,515
Appalachian State U.	428	2,898	3,835	4,438	3,051	4,289	3,878	3,146	4,475	3,631	3,268	4,894	4,509
Bucknell U.	429	5,456	5,043	4,009	4,297	4,464	4,140	4,516	i 4,892	i 5,269	5,625	5,051	i 4,476
New York Institute of Technology	430	1,785	2,059	3,013	4,007	5,761	4,169	4,114	3,236	3,832	5,820	3,580	4,465
West Chester U. Pennsylvania	431	5,584	i 8,103	4,591	1,635	2,793	5,009	5,895	7,293	6,340	6,777	6,414	4,433
U. Wisconsin-Stevens Point	432	6,766	6,171	i 5,576	4,392	3,919	i 3,446	i 2,973	3,420	i 3,867	i 4,314	i 4,764	4,401
Fisk U.	433	7,700	4,849	4,058	6,565	i 9,073	9,854	i 10,635	5,017	2,790	4,748	3,904	4,320
Norfolk State U.	434	5,944	7,140	8,336	6,431	6,936	5,348	7,593	7,296	6,914	8,050	7,153	4,316
Oregon Institute of Technology	435	ne	258	ne	ne	ne	2,056	4,027	3,595	i 3,163	4,793	4,267	4,314
U. Washington, Tacoma	436	872	1,359	1,845	2,203	2,938	3,618	3,957	3,246	3,006	3,471	3,504	4,291
CUNY, Graduate Center	437	11,562	11,974	9,173	11,982	7,797	6,175	7,093	i 8,011	4,781	5,399	4,787	4,265
California State U., Chico	438	2,881	2,684	2,492	2,868	2,384	1,837	2,363	1,600	2,452	3,232	4,305	4,209
CUNY, Lehman C.	439	3,593	i 3,762	3,228	2,904	3,265	3,130	5,347	4,979	5,556	4,690	4,154	4,181
Grinnell C.	440	2,069	1,340	2,735	4,023	3,974	3,723	4,183	4,953	5,573	5,500	5,826	4,122
Smith C.	441	4,613	4,529	4,246	4,234	4,283	5,268	4,466	6,055	5,954	6,041	4,685	4,085
U. New Haven	442	ne	2,009	2,723	1,400	1,616	i 1,832	3,822	5,005	5,585	5,062	3,843	4,069
U. North Carolina, general administration	443	ne	ne	ne	ne	ne	4,197	4,137	3,721	4,843	4,154	3,942	4,024
U. of the Sciences Philadelphia	444	1,964	3,504	3,610	3,765	2,922	4,076	3,308	3,980	3,671	3,740	3,761	4,005
U. Central Arkansas	445	2,670	2,821	3,277	2,913	4,064	3,502	3,453	3,313	3,620	3,477	3,455	3,990
Fayetteville State U.	446	11,865	14,618	15,719	16,698	14,732	13,746	15,725	5,105	4,980	4,695	2,797	3,933
South Carolina State U.	446	7,167	10,037	i 12,909	12,809	i 12,709	i 12,607	13,076	i 14,300	15,130	i 3,659	3,796	i 3,933
Murray State U.	448	3,396	3,718	3,345	2,192	2,080	2,371	2,124	2,459	2,872	3,710	3,019	3,844
Haverford C.	449	3,620	2,765	2,588	2,769	2,546	2,633	2,173	2,442	3,041	3,752	4,473	3,835
U. Central del Caribe	450	7,122	7,515	7,313	7,095	7,181	6,964	7,090	5,634	4,111	3,953	3,931	3,831
Texas A&M U.-Commerce	451	2,679	2,242	2,279	2,541	2,833	3,755	2,943	4,227	3,431	3,403	4,166	3,827
Carleton C.	452	4,575	5,382	4,957	5,848	5,657	6,746	6,385	6,888	5,515	4,388	3,732	3,800
Towson U.	453	3,052	3,574	2,599	2,800	2,997	3,153	2,303	2,834	3,194	3,423	3,612	3,794
National Defense U.	454	ne	ne	ne	5,865	7,682	5,542	6,447	6,293	4,276	4,231	4,583	3,786
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	455	ne	2,342	2,562	2,979	3,356	3,089	3,177	3,285	3,502	3,769	3,737	3,776
Texas A&M International U.	456	2,428	3,121	3,344	3,674	3,441	2,917	3,742	4,745	5,735	6,068	3,067	3,740
Franklin and Marshall C.	457	3,770	3,439	2,997	3,475	3,105	3,888	3,772	4,385	4,769	5,041	3,623	3,722
Albany C. of Pharmacy and Health Sciences	458	3,074	3,496	2,639	2,637	3,200	2,533	1,789	2,567	2,732	3,383	3,765	3,687
Pace U.	459	3,085	3,732	4,214	3,611	4,373	4,647	5,359	5,028	4,282	3,855	4,272	3,649

TABLE 21

## 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
Occidental C.	460	2,289	1,809	1,592	1,634	2,177	1,544	2,008	1,764	1,445	2,458	2,657	3,587
U. Massachusetts, central office	461	ne	ne	3,173	3,617	5,875	5,056	5,219	4,394	5,298	4,916	5,225	3,541
Kean U.	462	ne	1,497	2,029	761	ne	1,064	908	ne	ne	ne	2,201	3,538
Western Illinois U.	463	1,221	1,528	4,514	1,983	1,349	860	ne	2,006	2,466	2,373	2,461	3,532
U. Texas of the Permian Basin	464	1,417	1,232	1,707	1,146	1,532	1,725	1,561	1,152	668	ne	2,105	3,504
Touro U.	465	1,221	1,779	2,237	2,155	3,067	3,106	3,466	3,122	3,233	3,543	3,551	3,489
SUNY, C. of Optometry	466	3,529	3,738	3,466	3,637	3,481	3,906	4,169	3,304	3,120	2,968	3,477	3,460
Dakota State U.	467	ne	1,015	5,709	1,574	1,446	1,152	2,171	2,284	3,619	3,710	4,412	3,416
Northern Kentucky U.	468	2,316	2,397	2,201	1,810	2,052	2,026	1,846	1,649	1,653	2,363	2,693	3,403
U. Virginia's C. Wise	469	481	336	ne	ne	ne	ne	ne	ne	ne	ne	ne	3,310
Colgate U.	470	2,851	2,291	3,268	2,704	2,444	2,721	3,219	3,414	3,823	3,756	2,913	3,306
Swarthmore C.	471	2,984	2,994	3,281	3,415	3,528	2,943	3,211	3,569	3,921	4,203	3,544	3,296
U. Northern Iowa	472	3,064	4,248	3,615	3,678	3,711	4,032	3,632	3,303	2,983	3,628	2,970	3,259
Stephen F. Austin State U.	473	9,127	6,046	5,495	4,612	4,298	5,170	4,749	3,677	3,336	3,679	3,672	3,204
U. Nebraska, Kearney	474	1,655	2,199	1,715	1,761	1,504	1,496	1,864	3,510	2,639	2,919	2,640	3,201
Milwaukee School of Engineering	475	3,944	4,472	4,635	4,376	4,410	4,524	3,930	3,374	3,232	4,026	3,190	3,193
U. Northern Colorado	476	2,607	2,078	2,896	3,034	4,176	3,652	4,028	4,538	5,089	4,571	3,738	3,159
Santa Clara U.	477	3,816	2,407	3,329	2,376	2,883	1,659	2,056	2,145	2,299	2,319	2,682	3,142
MGH Institute of Health Professions	478	ne	607	ne	ne	ne	3,931	2,548	2,282	3,328	4,130	3,549	3,037
U. Wisconsin-La Crosse	479	4,141	3,862	i	3,583	3,796	3,424	3,615	3,211	3,187	3,569	2,692	2,795
Colorado State U., Pueblo	480	413	364	ne	ne	ne	ne	ne	ne	ne	3,107	3,104	2,990
Sonoma State U.	481	858	825	ne	1,938	1,714	1,163	693	ne	ne	ne	1,545	2,957
St. John's U., New York	482	1,643	1,786	2,161	2,401	2,507	2,558	2,307	2,542	2,903	2,352	3,282	2,940
Pennsylvania State U., Harrisburg	483	2,734	3,460	2,903	2,230	2,557	3,379	2,558	1,654	2,119	2,805	1,866	2,938
Middlebury C.	484	2,292	2,408	3,031	2,179	1,450	1,599	1,822	2,043	1,895	1,657	1,720	2,927
Saint Joseph's U.	485	2,918	3,073	2,955	2,921	1,988	2,093	2,171	2,409	2,151	2,851	3,150	2,922
Trinity U.	486	1,446	1,355	1,611	3,094	2,992	2,633	2,383	3,274	3,244	3,736	3,472	2,905
CUNY, C. Staten Island	487	3,290	4,188	4,955	3,691	3,731	3,060	3,511	4,250	4,118	i	3,986	2,860
Western Carolina U.	488	2,376	1,451	1,811	1,028	1,048	1,145	1,305	1,474	1,507	2,633	2,696	2,847
Northwest Indian C.	489	2,426	2,744	i	2,847	3,247	2,609	i	1,631	ne	ne	2,154	2,659
California State U., Maritime Academy	490	ne	3,005	2,793	2,480	1,011	1,542	2,205	1,921	3,039	2,959	3,202	2,799
Youngstown State U.	491	4,523	4,732	3,598	3,785	3,464	3,348	2,342	4,439	4,463	4,447	4,120	2,775
Austin Peay State U.	492	ne	2,180	2,124	2,067	2,002	2,113	1,823	2,134	2,644	2,285	2,833	2,740
Pittsburg State U.	493	1,759	1,687	1,479	1,536	2,475	2,210	2,162	2,255	2,253	2,513	2,173	2,730
California State U., Dominguez Hills	494	2,743	2,780	2,894	4,671	3,614	i	2,557	2,790	1,858	2,043	1,957	2,690
Alfred U.	495	4,524	6,084	5,451	6,731	4,655	5,193	3,975	3,231	3,641	5,153	2,780	2,660

TABLE 21

**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
Christopher Newport U.	496	1,110	1,669	1,327	1,187	1,508	1,208	1,172	1,264	1,732	1,961	2,608	2,656
Pepperdine U.	497	2,672	1,924	2,571	2,400	2,401	2,714	3,178	2,396	1,954	2,170	2,006	2,655
Alabama State U.	498	13,340	12,340	13,607	1,927	2,236	2,303	2,372	2,253	2,434	2,577	2,582	2,631
Bates C.	499	1,590	1,897	2,070	2,514	1,584	2,791	1,781	1,853	1,635	2,135	2,303	2,620
U. Illinois, Springfield	500	2,096	2,002	2,370	2,276	1,916	2,070	1,683	2,900	2,164	1,876	3,406	2,612
U. Wisconsin-Superior	501	5,890	6,187	6,041	ne	3,030	ne	ne	ne	3,068	2,250	2,301	2,602
Winthrop U.	502	ne	5,089	7,993	12,495	13,981	10,156	1,993	1,826	2,007	2,189	2,217	2,586
Pratt Institute	503	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	2,547
Dillard U.	504	8,425	7,936	7,448	7,741	6,939	9,387	9,566	7,095	6,573	2,772	2,523	2,528
CUNY, Baruch C.	505	2,616	2,645	3,605	2,264	2,183	2,451	2,998	2,543	2,817	2,387	2,396	2,521
Purdue U., Fort Wayne	506	8,523	8,864	8,570	8,128	7,882	7,052	5,952	5,254	4,945	2,416	2,264	2,495
Davidson C.	507	1,493	1,977	1,400	2,337	1,804	2,377	1,521	1,736	1,638	1,777	2,263	2,466
Johnson C. Smith U.	508	ne	ne	ne	ne	ne	ne	2,094	2,255	2,468	2,148	2,472	2,461
Furman U.	509	2,311	2,184	2,049	2,199	1,600	1,928	1,869	2,051	2,064	1,628	2,101	2,431
Saginaw Valley State U.	510	873	1,249	1,094	939	ne	1,220	1,190	1,406	1,640	2,818	2,343	2,428
Bowdoin C.	511	2,627	2,877	4,732	4,292	3,126	2,991	3,204	2,340	2,724	2,991	2,719	2,417
Central Washington U.	512	5,159	2,858	2,753	2,122	2,124	2,581	2,751	3,798	3,066	3,223	2,674	2,410
Framingham State U.	513	ne	ne	ne	ne	ne	ne	ne	1,901	164	ne	2,317	2,401
St. Cloud State U.	514	4,184	3,404	2,932	2,912	3,380	4,192	3,497	3,588	3,725	3,275	3,056	2,379
Harvey Mudd C.	515	3,214	3,861	3,512	3,595	3,127	3,272	4,332	3,748	3,790	3,353	2,916	2,359
California State U., Channel Islands	516	ne	524	ne	1,236	3,862	1,949	1,383	1,096	1,248	1,572	1,497	2,341
Skidmore C.	517	2,850	2,113	1,885	1,903	1,811	1,772	1,327	1,859	2,584	3,012	2,412	2,335
Marymount U.	518	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	2,307
U. Richmond	519	4,052	4,064	4,282	3,351	3,598	3,069	3,047	3,106	2,784	2,783	2,469	2,294
Spelman C.	520	3,181	2,273	2,148	1,602	1,595	1,524	1,929	2,079	2,350	2,751	2,750	2,282
Lewis and Clark C.	521	2,753	2,778	2,246	3,628	4,713	3,873	3,267	3,438	2,811	2,750	3,350	2,281
U. Texas, Tyler	522	5,679	2,766	8,520	5,317	6,894	4,610	2,844	1,837	1,828	2,063	2,007	2,279
Keck Graduate Institute	523	ne	2,313	1,920	2,357	2,132	1,722	1,814	1,875	1,967	2,095	2,152	2,254
Coastal Carolina U.	524	2,404	2,162	2,412	2,516	2,166	1,862	1,779	1,893	1,631	2,042	1,903	2,245
Palmer C. of Chiropractic, Davenport	525	4,693	4,861	4,507	3,774	2,736	1,698	1,510	1,836	1,600	1,650	1,900	2,233
U. Louisiana, Monroe	526	2,884	2,812	2,469	2,781	2,267	1,672	2,441	2,297	2,123	2,364	2,362	2,198
Minnesota State U., Mankato	527	3,837	2,654	2,082	2,640	3,310	2,294	4,034	2,471	2,943	3,392	2,754	2,170
Pomona C.	528	2,924	3,640	3,259	3,679	3,818	3,538	3,691	3,205	2,983	2,985	2,855	2,146
Sul Ross State U.	529	3,039	3,183	2,375	2,159	2,528	2,204	2,015	2,500	2,934	2,352	2,068	2,143
Grambling State U.	530	993	2,135	2,179	1,695	1,469	1,863	1,570	5,911	2,981	2,836	2,427	2,124
Tougaloo C.	531	2,978	2,753	2,613	2,639	2,285	2,689	2,473	3,030	3,173	3,380	2,102	2,092

TABLE 21

## 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., Stanislaus	532	ne	1,487	1,881	1,342	1,136	1,080	1,248	1,365	1,394	1,477	1,843	2,085
SUNY, Geneseo	533	1,373	2,677	2,132	1,201	1,084	1,314	1,750	1,758	1,939	2,139	1,642	2,070
Citadel Military C. South Carolina	534	ne	415	ne	ne	ne	ne	ne	ne	ne	ne	1,012	2,054
Suffolk U.	535	ne	1,624	1,303	1,551	1,534	1,305	1,492	i	1,679	i	ne	2,043
U. South Carolina, Aiken	536	337	750	ne	1,309	1,133	1,154	1,445	2,961	2,602	2,481	2,590	2,042
Elon U.	537	ne	1,523	1,658	2,043	2,184	2,608	2,606	2,407	2,486	2,545	1,968	2,032
Mount Holyoke C.	538	2,788	3,317	3,323	3,118	3,871	3,826	3,403	3,635	3,027	2,979	2,016	2,026
U. of the Incarnate Word	539	ne	667	ne	ne	ne	848	ne	ne	1,338	1,800	1,469	1,982
New England C. of Optometry	540	1,457	1,751	2,237	2,172	1,234	1,077	980	ne	1,026	1,223	1,150	1,978
SUNY, Buffalo State	541	1,935	2,539	2,970	2,106	1,996	2,366	2,221	1,887	1,928	2,124	2,253	1,962
Hobart and William Smith Colleges	542	1,434	1,566	1,516	2,238	1,221	946	ne	952	ne	1,919	2,114	1,941
Mercyhurst U.	543	2,040	1,206	1,539	1,414	1,914	1,987	1,647	1,669	i	ne	1,801	i
Fort Lewis C.	544	392	606	ne	ne	ne	ne	ne	ne	ne	1,460	1,370	1,926
Eastern Washington U.	545	3,266	3,910	2,700	2,115	1,867	2,973	3,368	2,000	2,590	2,024	2,282	1,921
Northeastern Illinois U.	546	711	533	ne	ne	703	ne	ne	1,403	2,442	2,478	2,018	1,913
C. New Jersey	547	850	486	ne	ne	ne	ne	ne	1,078	949	ne	1,464	1,912
U. Puerto Rico, Cayey	548	927	1,474	1,916	1,726	1,795	1,521	1,415	1,109	1,359	1,870	1,974	1,881
U. Wisconsin-Green Bay	549	1,219	1,239	i	1,259	i	1,279	i	1,299	i	1,320	1,599	1,510
Manhattan C.	550	498	638	ne	ne	ne	ne	ne	ne	ne	1,190	1,307	1,864
Roger Williams U.	551	1,967	2,627	2,596	2,186	2,558	2,348	2,441	2,952	1,937	1,852	1,531	1,854
U. Wisconsin-Eau Claire	552	1,950	1,406	1,362	1,235	915	ne	1,238	1,641	1,227	1,530	1,318	1,852
Hawaii Pacific U.	553	ne	1,436	1,390	1,043	1,524	1,241	2,371	2,175	2,114	1,980	1,796	1,849
U. Houston-Downtown	554	1,013	1,351	2,267	1,444	2,414	2,459	1,784	2,397	2,508	2,216	2,299	1,828
Willamette U.	555	2,059	1,940	2,652	1,960	1,698	2,007	2,459	3,147	2,723	1,953	1,546	1,817
Savannah State U.	556	1,874	2,700	1,996	2,613	2,210	1,801	2,267	1,407	1,793	1,720	1,804	1,804
Trinity C., Hartford	557	1,875	1,934	2,102	1,786	2,131	1,717	1,598	2,856	1,672	1,858	1,428	1,775
Lawrence Technological U.	558	3,952	3,348	1,483	2,022	1,876	2,528	1,907	1,942	1,668	1,352	1,521	1,764
Morehead State U.	559	2,145	2,018	2,174	2,631	1,892	1,838	2,399	2,860	2,434	2,028	1,883	1,754
Hamilton C.	560	3,192	3,109	3,069	2,942	2,846	2,291	2,662	2,354	1,796	2,050	1,869	1,747
Heidelberg U.	561	ne	1,219	i	ne	1,129	1,539	1,109	1,286	1,621	1,280	1,237	1,125
Erikson Institute	562	ne	1,212	2,511	2,001	1,321	2,397	3,117	3,965	3,583	2,279	1,992	1,723
Southeastern Louisiana U.	562	2,561	1,952	2,121	2,067	1,503	2,670	2,128	2,206	2,039	1,971	2,258	1,723
Elizabeth City State U.	564	5,576	10,455	4,455	4,515	2,988	2,277	1,889	1,340	978	ne	1,473	1,717
U. Houston-Clear Lake	565	1,279	1,746	1,769	1,542	1,716	1,535	1,578	1,779	1,251	1,370	1,363	1,716
Colby C.	566	1,782	1,772	1,996	1,822	1,673	1,748	1,903	2,071	2,240	1,852	1,536	1,672
Monmouth U.	567	2,195	1,956	904	ne	865	ne	900	ne	ne	1,294	1,729	1,667

TABLE 21

## 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, system office	568	ne	ne	1,817	1,210	1,088	1,782	1,655	1,114	3,253	2,619	1,704	1,664
Northwestern State U. Louisiana	569	1,464	1,189	1,102	1,022	792	ne	1,628	1,373	1,623	2,058	1,940	1,663
U. Wisconsin-Oshkosh	570	1,556	2,384	2,331	2,167	1,935	i 1,703	ne	1,507	i 1,544	i 1,581	i 1,618	1,656
Eastern Connecticut State U.	571	ne	216	ne	ne	1,459	1,149	1,209	1,228	1,100	1,659	1,799	1,646
Franklin W. Olin C. of Engineering	572	ne	1,016	1,777	1,157	1,561	2,136	1,762	1,553	1,254	1,655	1,404	1,627
Vassar C.	573	1,280	1,838	1,258	1,694	1,220	2,854	1,495	1,600	4,185	1,009	1,568	1,606
U. Ana G. Mendez, Gurabo	574	6,620	7,098	6,953	6,916	2,694	2,473	2,518	1,777	1,579	3,945	2,049	1,574
Seattle U.	575	1,337	i 1,274	642	ne	2,692	2,847	2,050	1,623	2,535	2,223	2,060	1,562
Troy U.	576	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,692	1,548
La Sierra U.	577	ne	732	ne	ne	1,057	1,165	1,255	2,202	2,227	1,581	1,647	1,517
Calvin U.	578	5,010	3,113	3,252	3,466	3,051	2,430	i 1,809	1,456	1,937	1,577	1,497	i 1,490
Drake U.	579	1,033	966	ne	918	ne	ne	1,558	1,215	1,103	865	ne	1,488
U. North Georgia	580	ne	ne	ne	ne	ne	ne	ne	2,064	2,465	2,068	1,905	1,415
Bowie State U.	581	ne	1,910	1,739	1,422	1,761	1,497	1,927	1,813	1,839	1,911	1,967	1,398
Union C., Schenectady	582	1,984	1,615	1,516	2,402	1,924	1,560	2,150	1,189	1,540	1,740	1,062	1,396
U. San Francisco	583	2,124	2,668	4,301	2,663	2,764	2,599	2,365	2,602	2,741	2,712	2,161	1,375
U. of the Pacific	584	6,120	4,704	5,291	4,563	4,088	2,734	3,013	2,155	3,014	3,078	1,713	1,371
CUNY, New York City C. of Technology	585	231	343	ne	ne	ne	ne	ne	ne	2,418	2,711	2,130	1,367
Northern Michigan U.	586	910	841	ne	ne	ne	ne	1,118	1,339	1,728	1,520	1,523	1,364
Marshall B. Ketchum U.	587	ne	ne	ne	ne	1,030	1,468	1,491	1,512	i 1,451	i 1,430	i 1,357	i 1,351
U. Puerto Rico, Humacao	588	1,971	i 1,976	1,949	1,455	1,145	784	ne	ne	1,168	1,195	1,456	1,321
Kettering U.	589	6,880	5,087	4,059	3,449	3,517	3,673	3,463	4,233	2,531	1,765	2,081	1,315
Central Connecticut State U.	590	776	1,451	1,506	1,574	1,185	1,259	1,322	995	ne	1,381	1,572	1,314
Babson C.	591	ne	696	ne	ne	ne	ne	2,108	1,849	1,917	1,845	2,352	1,286
Black Hills State U.	592	2,883	1,643	2,466	3,061	2,380	2,430	2,833	2,109	1,571	2,031	1,499	1,280
Macalester C.	592	4,389	4,653	1,721	1,457	1,455	1,286	1,562	1,916	1,404	1,808	1,755	1,280
SUNY, C. Plattsburgh	592	1,664	1,098	913	ne	1,008	1,135	1,020	1,003	1,604	1,729	1,452	1,280
Florida Polytechnic U.	595	na	na	na	na	na	212	ne	ne	ne	2,006	1,091	1,269
West Virginia School of Osteopathic Medicine	596	594	528	ne	ne	ne	ne	ne	ne	ne	ne	1,311	1,255
U. Hartford	597	1,137	2,419	2,007	1,807	1,606	1,701	1,803	1,801	1,073	1,528	1,436	1,252
Stockton U.	598	ne	1,455	927	ne	1,374	1,452	807	ne	2,560	2,634	4,236	1,246
Connecticut C.	599	1,532	1,801	1,740	1,842	1,966	1,900	1,972	1,875	1,349	1,894	1,598	1,244
Biola U.	600	ne	ne	ne	ne	ne	ne	1,000	i 1,034	i 1,085	i 1,155	i 1,187	i 1,243
Doane U.	601	ne	1,022	678	ne	1,033	474	ne	ne	1,092	1,093	1,123	i 1,176
U. Alaska, Southeast	601	1,759	1,274	1,382	1,559	1,512	1,588	1,808	1,621	1,641	1,341	1,264	1,176
U. Wisconsin-Platteville	603	681	715	i ne	ne	1,000	i 970	ne	1,068	i ne	1,084	i 1,104	i 1,144

TABLE 21

## 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, York C.	604	ne	2,180	1,544	999	ne	716	ne	ne	ne	1,621	1,691	1,133
New Mexico Highlands U.	605	1,529	1,498	1,566	1,209	979	ne	1,111	1,023	952	ne	1,090	1,129 i
Albion C.	606	ne	799	ne	ne	ne	ne	ne	1,074	1,055	1,040	1,132	1,127 i
Saint John's U.	607	640	891	ne	1,444	1,623	1,372	1,459	1,267	1,208	1,191 i	1,130 i	1,125 i
U. of Mary Washington	608	ne	1,374	907	ne	ne	690	ne	ne	1,242	1,315	1,393	1,123
SUNY, C. Brockport	609	831	1,248	1,487	1,321	1,192	1,367	1,335	1,289	1,293	1,390	1,719	1,114
Northland C.	610	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,096 i
C. Wooster	611	988	1,225	966	ne	1,321	1,245 i	ne	1,644	1,494	1,758	1,076	1,071 i
C. of Saint Benedict	612	ne	867	ne	1,347	1,451	1,179	1,305	1,122	1,142	1,126 i	1,069 i	1,064 i
Indiana State U.	613	1,541	1,980	1,857	1,238	1,436	1,541	1,763	1,284	1,323	1,682	1,471	1,042
Alaska Pacific U.	614	434	518	ne	ne	ne	1,246	1,358	1,248	1,544	1,774	1,261	1,036
Canisius C.	614	221	205	ne	ne	ne	ne	ne	1,546	1,069	950	ne	1,036
Ithaca C.	616	1,077	1,025	1,132	1,245	1,248	972	ne	ne	ne	ne	1,199	1,030
Clafin U.	617	3,252	5,439	5,255	2,661	1,818	1,255	1,772	1,360	1,509	1,746	1,910	1,015
Lafayette C.	617	2,089	2,426	1,864	1,947	1,915	1,693	1,553	1,831	1,815	1,554	1,390	1,015
Augustana U.	619	912	1,578	1,160	1,045	1,106	782	ne	1,212	1,170	841	ne	1,013
SUNY, Oswego	620	783	977	ne	725	ne	ne	ne	1,658	1,982	1,781	1,534	1,003
U. Wisconsin-River Falls	621	441	551 i	ne	ne	ne	ne	ne	1,072	923	ne	1,107	999
Eastern Kentucky U.	622	3,531	3,782	3,404	2,845	2,221	1,681	1,486	1,248	1,142	1,125	1,010	986
Sacred Heart U.	623	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	972
Rhode Island School of Design	624	ne	551	ne	ne	ne	1,013	1,071 i	1,086 i	1,042 i	1,027 i	975 i	971 i
U. Hawaii, Maui C.	625	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	967
Liberty U.	626	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,780	1,894	937
Keene State C.	627	ne	2,290	2,338 i	2,387	2,601	966	ne	908	ne	1,061	1,063	919
Indiana U., South Bend	628	1,070	1,099	1,219	1,410	1,565	1,619	1,474	1,039	958	ne	ne	898
Arcadia U.	629	1,649	1,888	956	ne	ne	ne	ne	ne	ne	ne	ne	889
Albany State U.	630	740	1,416	2,225	1,658	1,549	1,356	1,496	1,393	1,301	1,491	1,060	880
U. Minnesota, Morris	631	672	899	ne	1,534	1,338	1,223	1,029	974	ne	1,234	1,004	855
Mills C.	632	1,679	2,237	2,747	3,869	3,619	3,159	3,540	3,353	1,850	1,643	1,541	850
National U. of Natural Medicine	632	ne	791	ne	ne	ne	ne	ne	921	ne	1,245	1,428	850
Fairfield U.	634	9,294	9,892	9,331 i	8,769	9,155	5,750	6,174	8,749	1,742	1,279	1,210	849
Fielding Graduate U.	635	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	843
St. Olaf C.	636	1,574	1,130	1,518	1,242	1,353	1,346	1,605	1,539	1,155	1,010	1,032	816
American Samoa Community C.	637	ne	ne	ne	ne	ne	1,337	793	ne	ne	860	ne	815
Andrews U.	638	1,195	854	ne	ne	ne	ne	ne	ne	ne	1,126	1,033	802
Fort Hays State U.	639	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,143	1,172	800

TABLE 21

**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
Oberlin C.	640	1,985	1,710	1,856	1,670	1,819	1,932	1,305	1,887	1,803	2,076	1,182	776
Providence C.	641	917	758	ne	983	ne	1,329	1,196	1,014	1,215	1,042	1,092	766
U. Michigan, Flint	642	693	767	ne	ne	ne	ne	ne	1,466	1,237	1,448	1,247	752
Wheaton C., Wheaton	643	ne	1,187	844	ne	1,302	783	ne	1,270	1,751	2,173	1,322	729
Dordt U.	644	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	696
Niagara U.	645	1,090	1,656	2,475	2,193	1,946	1,828	1,505	1,823	2,523	2,057	1,124	509
Albizu U.	646	165	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	428
Lipscomb U.	647	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	307	321
Jacksonville State U.	648	398	624	ne	ne	ne	3,242	3,231	3,120	3,008	2,429	1,244	275
All other surveyed institutions	-	1,848,911	2,287,715	2,246,077	2,154,059	1,493,189	1,484,648	1,522,233	1,589,841	1,670,719	658,094	591,877	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 \$1,949,752 thousand in total 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):**

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.