

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
All institutions	-	79,173,538	83,642,841	86,444,902	89,872,007	41,934,743	44,539,670	46,196,287	49,228,127
Johns Hopkins U. <sup>a</sup>	1	2,661,033	2,917,436	3,110,494	3,181,385	2,251,097	2,482,130	2,682,410	2,774,643
U. California, San Francisco	2	1,595,732	1,595,098	1,651,073	1,710,036	669,470	671,047	676,331	683,179
U. Michigan, Ann Arbor	3	1,600,869	1,675,805	1,673,862	1,639,645	849,123	886,851	884,880	891,125
U. Pennsylvania	4	1,441,931	1,506,285	1,579,364	1,631,950	688,313	717,359	721,308	792,089
U. Washington, Seattle	5	1,413,902	1,425,601	1,456,902	1,488,645	989,221	992,643	1,024,195	1,046,377
U. California, Los Angeles	6	1,318,110	1,306,376	1,392,941	1,454,880	576,076	600,714	655,030	721,043
U. California, San Diego	7	1,265,196	1,353,763	1,403,735	1,425,499	635,888	698,925	727,289	801,117
U. Wisconsin-Madison	8	1,205,518	1,297,331	1,363,931	1,380,075	574,048	608,925	632,558	646,764
Stanford U.	9	1,157,597	1,204,116	1,203,950	1,274,483	711,443	738,957	751,414	811,183
Harvard U.	10	1,173,371	1,239,736	1,239,983	1,254,008	587,584	618,405	605,603	616,589
Duke U.	11	1,167,611	1,226,517	1,196,638	1,237,686	645,259	709,705	707,746	776,632
Ohio State U.	12	875,014	929,250	968,260	1,236,111	474,994	497,651	539,359	559,797
U. North Carolina, Chapel Hill	13	1,136,158	1,153,773	1,159,725	1,205,883	701,169	720,613	706,145	747,895
Cornell U.	14	1,071,621	1,144,534	1,190,063	1,183,524	470,020	525,182	562,021	592,359
Yale U.	15	990,399	1,072,309	1,094,135	1,165,148	552,242	576,776	585,170	647,656
Texas A&M U., College Station and Health Science Center	16	922,178	952,156	1,130,803	1,147,720	333,768	359,609	517,489	528,057
U. Maryland <sup>b</sup>	17	na	1,096,600	1,103,062	1,142,264	na	696,880	689,125	713,283
U. Pittsburgh, Pittsburgh	18	1,006,513	1,080,951	1,105,532	1,135,416	649,166	677,559	689,273	724,993
U. Texas M. D. Anderson Cancer Center	19	929,710	969,496	1,051,297	1,124,971	173,206	176,156	186,488	217,073
Georgia Institute of Technology	20	891,728	960,167	1,048,988	1,114,481	654,877	716,207	790,518	852,319
Columbia U. in the City of New York	21	947,504	1,003,615	1,032,909	1,098,570	686,338	736,536	762,289	831,648
U. Minnesota, Twin Cities	22	954,683	1,013,112	1,042,382	1,072,961	464,300	494,549	514,092	570,946
New York U.	23	887,558	934,720	947,293	1,063,704	416,143	436,850	448,850	547,027
Vanderbilt U. and Vanderbilt U. Medical Center	24	738,620	776,937	824,803	1,019,273	471,625	492,808	514,299	586,880
Washington U., Saint Louis	25	816,139	887,088	920,215	989,214	506,006	543,508	559,882	606,127
Pennsylvania State U., University Park and Hershey Medical Center	26	908,708	949,679	991,923	970,544	565,348	600,489	638,930	622,532
U. Florida	27	865,093	928,639	942,223	959,965	355,517	387,906	397,202	423,154
U. Southern California	28	891,625	909,683	941,198	955,565	501,893	543,607	562,120	574,185
Massachusetts Institute of Technology	29	964,336	1,009,466	987,968	949,076	479,654	489,345	488,741	483,526
Northwestern U.	30	805,672	857,069	874,671	913,178	469,525	502,300	531,654	572,975
Emory U.	31	712,417	794,928	808,792	852,922	393,647	424,461	452,636	515,940
U. California, Berkeley	32	796,505	802,931	840,000	846,872	329,464	347,601	349,989	354,478

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Icahn School of Medicine at Mount Sinai	33	640,141	722,241	747,014	820,260	398,656	443,745	480,452	554,582
U. California, Davis	34	788,832	804,282	816,693	817,409	360,018	374,707	380,965	373,719
U. Texas, Austin	35	679,781	696,111	797,199	779,348	405,131	407,981	500,409	489,827
U. Arizona	36	687,066	734,270	760,975	770,031	291,767	327,025	328,807	353,117
U. Illinois, Urbana-Champaign	37	652,709	677,523	689,176	731,268	353,710	382,206	387,853	406,612
Baylor C. of Medicine	38	623,396	651,920	685,641	716,976	300,098	309,354	315,101	365,472
Michigan State U.	39	715,290	725,708	713,197	710,178	328,618	331,148	329,748	349,889
Indiana U., Bloomington	40	566,907	668,157	710,850	695,258	249,243	308,586	319,039	326,326
Purdue U., West Lafayette	41	631,574	663,927	687,144	679,482	251,517	249,831	270,605	295,278
Arizona State U.	42	617,717	639,637	673,357	677,303	254,384	267,087	278,150	274,541
Boston U.	43	484,205	534,205	583,267	652,096	284,888	318,511	339,172	402,443
U. Alabama, Birmingham	44	588,207	607,863	618,226	644,330	373,360	398,403	400,110	423,290
Rutgers, State U. New Jersey, New Brunswick	45	706,282	657,249	688,077	643,955	350,912	297,609	311,743	339,015
U. Texas Southwestern Medical Center	46	474,260	496,697	595,939	632,134	197,910	203,544	242,679	257,611
U. Utah	47	552,306	601,133	607,061	624,737	307,844	302,585	314,023	340,434
U. Virginia, Charlottesville	48	551,761	613,938	652,002	611,313	250,168	276,335	300,348	297,273
U. Colorado Anschutz Medical Campus <sup>c</sup>	49	na	na	na	562,855	na	na	na	363,999
U. Iowa	50	511,973	508,353	538,583	553,876	246,117	252,563	259,639	283,763
U. Cincinnati	51	480,095	529,796	530,138	551,826	250,202	252,892	285,899	309,097
U. Colorado Boulder	52	514,573	513,822	525,674	547,724	391,817	412,691	427,869	459,816
North Carolina State U.	53	509,841	541,100	546,290	547,118	219,258	228,945	232,110	239,115
Virginia Polytechnic Institute and State U.	54	531,636	541,969	556,341	542,045	199,897	209,607	210,792	216,733
U. California, Irvine	55	426,610	448,967	490,597	523,752	201,173	217,094	241,734	255,010
U. Chicago	56	423,993	459,171	458,891	497,651	303,175	332,776	352,447	394,275
U. Georgia	57	453,249	477,536	482,786	493,944	148,543	159,948	171,351	188,451
Scripps Research Institute	58	396,839	427,734	444,964	485,435	267,088	267,122	243,502	272,181
SUNY, Polytechnic Institute	59	257,358	352,889	355,651	465,273	41,795	38,245	27,998	25,427
Oregon Health and Science U.	60	372,180	415,629	446,890	452,812	264,492	298,227	321,572	329,016
Colorado State U., Fort Collins	61	374,955	398,477	407,302	447,197	268,747	284,482	287,100	303,901
California Institute of Technology	62	391,003	399,931	449,651	438,624	280,451	287,198	316,519	293,197
U. Illinois, Chicago	63	361,690	382,949	412,147	429,585	196,840	208,603	223,030	237,949
U. Kentucky	64	393,034	410,581	417,674	429,241	171,672	192,945	200,664	220,703
SUNY, U. Buffalo	65	410,220	413,817	422,038	425,349	186,494	182,983	200,155	210,257
Case Western Reserve U.	66	434,441	438,994	439,778	421,868	349,177	357,549	357,589	340,438

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Rochester	67	370,645	393,960	397,211	409,255	285,330	306,551	296,241	309,647
U. South Florida <sup>d</sup>	68	385,686	391,325	333,344	405,088	179,024	181,882	158,958	185,364
Princeton U.	69	365,007	385,739	396,502	404,448	180,305	193,453	203,259	205,000
Carnegie Mellon U.	70	331,383	359,720	386,996	402,376	181,958	197,978	217,625	234,993
U. Missouri, Columbia	71	294,686	310,421	332,180	388,779	138,029	139,781	156,190	163,576
U. Kansas	72	339,046	352,643	368,811	385,637	155,147	169,694	185,007	187,249
Uniformed Services U. of the Health Sciences	73	308,326	417,300	324,510	384,490	218,702	297,808	235,202	275,573
U. Oklahoma, Norman and Health Science Center	74	283,638	302,679	362,209	380,048	149,317	164,855	183,728	193,639
U. Miami	75	357,104	360,716	381,410	375,841	192,598	212,023	224,184	231,001
Virginia Commonwealth U.	76	246,190	255,648	283,874	364,096	140,363	142,293	152,751	160,995
Iowa State U.	77	361,206	358,474	363,107	360,275	147,679	147,866	165,912	169,177
Washington State U.	78	331,424	344,997	335,201	357,648	151,133	158,982	154,623	179,536
Rockefeller U.	79	353,142	351,089	356,217	357,543	87,231	84,566	86,280	96,318
U. Massachusetts, Medical School	80	274,211	281,507	279,096	347,337	194,953	197,388	192,938	248,873
U. New Mexico	81	251,322	239,696	243,375	332,566	169,952	159,940	161,627	242,212
Dartmouth C. and Dartmouth Hitchcock Medical Center	82	323,927	323,020	326,349	330,226	140,399	137,965	142,219	152,335
Florida State U.	83	297,661	329,205	350,430	328,604	147,184	149,784	162,296	150,108
Utah State U.	84	219,397	283,917	304,256	325,223	159,447	220,504	242,156	264,575
U. Tennessee, Knoxville <sup>e</sup>	85	259,607	247,693	320,407	316,273	117,776	123,434	138,402	135,202
U. Texas Health Science Center, Houston	86	258,411	271,525	273,862	308,823	128,232	132,647	133,624	165,139
U. Nebraska, Lincoln	87	308,053	316,820	320,463	307,083	103,565	109,954	107,299	106,564
U. Connecticut	88	269,685	285,764	280,131	302,329	144,048	159,220	164,848	183,362
Albert Einstein C. of Medicine	89	297,328	298,824	288,654	301,715	196,457	202,513	204,635	214,619
Temple U.	90	276,011	284,301	299,707	299,778	155,312	161,673	154,600	153,316
Louisiana State U., Baton Rouge	91	286,726	296,497	286,733	296,673	84,309	88,721	87,895	103,178
Georgetown U.	92	221,449	240,960	258,659	279,932	89,977	94,050	98,682	130,419
Medical U. South Carolina	93	282,253	295,600	272,590	277,761	142,639	153,226	153,802	162,394
Oregon State U.	94	272,433	263,830	268,385	276,955	171,805	168,571	167,494	179,180
Medical C. Wisconsin	95	229,436	251,300	264,325	276,850	111,273	119,036	128,783	136,385
Brown U.	96	244,838	256,954	266,127	276,331	164,452	178,460	185,676	198,574
Mississippi State U.	97	244,102	264,526	280,485	275,143	89,012	104,738	120,616	116,713
SUNY, Stony Brook U.	98	245,016	260,813	263,470	274,516	136,241	144,618	146,478	162,972
U. Hawaii, Manoa	99	276,388	280,416	275,929	271,768	167,030	167,816	163,694	157,772
Auburn U., Auburn	100	212,925	231,619	255,281	266,374	58,488	64,333	73,468	91,157

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
George Washington U.	101	260,656	269,799	270,369	266,108	156,768	155,697	157,533	161,349
Wake Forest U.	102	191,371	238,933	244,643	264,216	154,363	165,702	166,596	188,887
Woods Hole Oceanographic Institution	103	204,400	229,143	227,573	262,048	163,003	184,995	191,186	222,351
U. California, Santa Barbara	104	235,164	243,778	254,434	248,961	113,388	118,517	123,198	122,168
Florida International U.	105	196,180	225,864	236,842	246,075	85,541	96,912	103,366	105,309
U. Notre Dame	106	219,993	240,078	227,535	240,324	96,182	106,411	104,030	109,891
Clemson U.	107	213,458	218,760	228,597	237,485	73,735	81,080	82,203	89,883
Wayne State U.	108	238,859	244,217	243,259	235,519	111,018	118,043	113,137	117,976
U. Delaware	109	186,192	206,270	220,445	231,532	118,573	133,020	144,142	157,725
Tufts U.	110	213,457	213,285	216,241	224,956	139,334	146,630	148,320	166,809
U. Texas Health Science Center, San Antonio	111	179,219	188,483	202,572	219,734	86,956	96,502	102,959	106,824
U. Central Florida	112	215,332	225,085	213,757	218,596	97,539	99,310	101,332	109,310
U. South Carolina, Columbia	113	206,355	205,940	219,464	215,374	88,602	102,992	97,143	97,193
George Mason U.	114	149,138	186,267	218,445	214,207	69,481	96,307	104,070	103,712
U. Massachusetts, Amherst	115	211,140	223,177	219,389	213,824	110,654	117,359	116,170	116,349
Northeastern U.	116	166,711	183,998	200,068	211,342	114,711	126,762	136,273	143,421
Rice U.	117	161,831	182,564	198,681	207,404	78,175	83,584	88,768	95,648
Georgia State U.	118	201,235	195,572	202,451	206,472	71,650	70,185	78,199	79,834
Tulane U.	119	193,294	196,933	204,430	205,206	102,201	104,219	107,290	113,819
Kansas State U.	120	218,299	218,622	213,900	203,846	80,436	81,269	79,100	77,779
U. Houston	121	177,484	195,398	200,428	202,536	63,801	68,523	71,779	77,489
U. Nebraska, Medical Center	122	177,245	194,455	202,406	200,974	93,463	102,604	105,158	111,042
Thomas Jefferson U.	123	148,573	170,458	171,377	200,393	64,869	74,816	74,676	109,448
U. Louisville	124	176,655	177,862	198,818	200,362	80,511	87,563	88,251	97,179
West Virginia U.	125	185,110	187,512	188,452	199,907	76,527	82,353	79,657	89,802
Oklahoma State U., Stillwater	126	188,756	184,276	187,060	198,799	43,421	39,880	39,873	47,428
Texas Tech U.	127	185,742	193,923	199,643	197,739	31,357	35,136	31,475	33,938
U. Vermont	128	128,293	135,859	191,147	195,320	86,940	90,405	97,981	103,554
U. Arkansas for Medical Sciences	129	139,187	153,135	174,549	194,709	57,523	63,498	70,508	83,387
Montana State U., Bozeman	130	125,129	154,811	166,285	193,577	75,524	88,955	93,759	113,257
Wichita State U.	131	81,137	128,795	153,816	192,042	18,706	29,634	53,540	77,427
U. Dayton	132	147,001	165,343	163,718	191,228	132,358	153,328	154,101	181,445
U. California, Riverside	133	167,847	177,655	184,894	189,600	77,314	81,151	92,503	97,182
U. Texas Medical Branch	134	181,831	175,372	180,595	185,759	104,356	107,806	114,103	117,915

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Louisiana, Lafayette	135	124,713	144,187	164,070	181,400	28,874	34,400	40,044	65,436
U. Nevada, Reno	136	144,426	152,128	159,790	175,386	62,635	62,903	64,793	77,246
U. Alaska, Fairbanks	137	140,917	144,457	152,299	172,957	94,998	92,964	101,414	128,229
U. New Hampshire	138	146,430	148,980	156,901	167,373	95,807	90,241	100,373	99,323
New Jersey Institute of Technology	139	162,349	161,232	163,447	166,587	91,999	89,846	85,746	77,057
U. Arkansas, Fayetteville	140	175,498	180,225	165,887	164,443	52,937	50,875	47,454	48,534
North Dakota State U.	141	145,669	152,381	155,645	164,050	35,122	35,322	31,614	42,824
U. California, Santa Cruz	142	127,538	142,958	150,400	160,615	63,197	74,669	76,468	86,263
Drexel U.	143	155,908	149,481	143,123	152,752	82,777	85,278	82,576	93,517
Syracuse U.	144	147,751	154,366	149,652	151,717	39,538	37,803	31,861	34,200
U. Alabama, Huntsville	145	99,405	109,744	131,648	149,792	74,650	85,211	104,288	116,971
U. Maine	146	106,694	129,913	134,183	146,801	45,348	51,049	54,376	65,249
U. Texas, San Antonio	147	72,682	84,326	138,586	145,362	29,824	34,588	34,334	42,952
U. North Dakota	148	109,865	110,836	111,663	143,506	51,050	49,700	44,153	58,463
U. Oregon	149	111,896	110,664	114,259	139,193	71,568	80,083	81,278	82,242
U. Alabama, Tuscaloosa	150	71,992	83,317	95,200	129,509	30,447	37,916	43,017	53,880
U. Rhode Island	151	104,490	115,160	109,967	129,296	64,026	73,080	67,242	78,923
U. Texas, Arlington	152	105,688	123,858	133,793	126,477	36,027	41,764	44,950	46,946
SUNY, Binghamton U.	153	113,851	104,297	117,870	124,565	23,392	24,213	24,564	23,225
U. Texas, Dallas	154	113,315	126,661	132,192	122,825	40,046	48,466	55,983	58,249
U. Montana, Missoula	155	90,563	104,665	110,218	121,571	54,708	55,566	62,067	70,686
Rensselaer Polytechnic Institute	156	100,856	103,739	122,753	119,056	50,120	50,448	52,150	52,465
Augusta U.	157	99,081	96,502	103,961	116,480	48,800	47,031	55,797	61,943
U. Mississippi	158	137,521	158,809	122,960	116,175	63,736	73,865	82,361	76,886
Cold Spring Harbor Laboratory	159	115,870	126,773	115,198	114,903	67,139	73,854	62,215	56,907
SUNY, U. Albany	160	173,031	181,531	138,088	114,501	87,451	92,709	67,039	56,425
New Mexico State U.	161	96,270	101,457	107,275	110,580	54,009	58,022	60,971	64,699
U. Tennessee, Health Science Center	162	79,460	96,979	99,716	109,562	39,421	42,396	48,264	56,021
U. Texas, El Paso	163	91,032	106,809	108,628	109,410	44,352	41,261	39,126	43,930
San Diego State U.	164	88,177	92,964	97,710	107,681	39,453	39,515	41,117	43,473
Brandeis U.	165	61,639	60,825	91,355	107,549	38,632	41,475	41,440	52,147
Rush U.	166	89,101	96,267	94,438	107,398	64,178	68,941	65,343	73,279
U. Idaho	167	111,590	113,107	112,810	105,895	51,172	51,529	51,450	51,021
U. Nevada, Las Vegas	168	83,800	99,445	105,872	101,009	33,727	28,381	29,252	27,178

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Massachusetts, Lowell	169	72,266	83,996	92,216	94,708	30,086	35,309	41,304	48,179
U. Wyoming	170	113,063	80,353	93,061	93,202	42,595	52,082	57,353	54,444
U. Maryland, Baltimore County	171	71,481	80,632	83,867	84,418	53,522	56,993	59,391	59,882
Michigan Technological U.	172	78,678	80,443	77,927	81,715	32,606	34,709	36,172	41,505
Colorado School of Mines	173	60,372	70,397	78,517	81,443	40,161	49,603	55,560	61,421
U. North Texas, Denton	174	44,025	78,691	84,239	81,252	19,026	17,345	13,653	18,702
Saint Louis U.	175	60,380	66,103	69,528	79,005	28,121	34,275	34,419	41,411
Texas State U.	176	64,322	64,554	70,714	72,510	30,314	29,614	26,950	31,116
Cleveland State U.	177	83,641	80,077	78,189	71,451	55,468	51,475	53,756	47,402
Northern Arizona U.	178	52,899	58,914	64,456	69,129	29,648	35,980	39,387	41,744
William & Mary	179	65,269	64,835	66,763	68,801	33,503	31,983	30,436	29,928
U. Southern Mississippi	180	61,336	76,464	72,322	67,417	31,815	46,924	42,870	44,401
U. Memphis	181	64,297	58,700	69,463	67,092	25,166	18,370	18,063	21,578
American U.	182	61,741	71,053	71,839	65,912	13,013	15,229	16,123	12,076
Van Andel Research Institute	183	55,171	61,738	58,982	65,789	14,285	18,259	18,538	22,231
Indiana U.-Purdue U., Indianapolis	184	60,501	67,635	70,778	65,330	22,834	27,349	31,862	30,290
Boston C.	185	57,030	61,956	63,063	65,156	30,541	32,475	31,038	34,257
Naval Postgraduate School	186	59,213	67,323	62,903	65,101	44,140	54,358	51,870	54,855
U. Massachusetts, Boston	187	61,473	62,018	64,219	63,723	30,412	25,083	27,575	23,673
Old Dominion U.	188	60,321	67,425	65,704	62,332	32,584	31,355	30,330	25,514
San Jose State U.	189	41,366	44,309	47,301	60,100	33,886	35,143	34,102	30,877
Florida Atlantic U.	190	48,024	51,085	53,845	58,471	18,771	21,667	23,695	28,510
U. Texas Rio Grande Valley	191	27,125	52,016	56,702	58,187	13,330	13,629	13,093	13,018
CUNY, City C.	192	53,979	52,738	45,632	57,361	36,866	33,065	30,106	34,218
Rochester Institute of Technology	193	49,413	58,175	57,777	56,043	25,990	26,359	28,092	31,187
U. Wisconsin-Milwaukee	194	55,771	53,773	61,069	55,664	24,612	23,342	25,354	24,397
Missouri U. of Science and Technology	195	42,986	47,807	47,001	54,437	21,835	22,426	22,860	26,164
U. Toledo	196	50,320	55,006	54,100	53,169	25,323	28,273	27,770	32,601
Howard U.	197	45,965	44,163	44,933	52,412	33,602	29,978	29,256	35,443
Mercer U.	198	34,197	44,128	49,116	51,989	18,999	27,035	31,572	34,413
U. North Carolina, Charlotte	199	39,888	47,187	50,050	51,877	22,386	26,199	27,618	27,145
East Carolina U.	200	39,074	55,611	57,820	51,662	12,611	17,428	20,168	22,813
South Dakota State U.	201	63,465	66,794	60,939	51,542	27,129	29,683	22,531	18,607
U. Maryland Center for Environmental Science	202	54,136	56,033	54,560	51,201	15,008	17,476	15,498	14,072

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. California, Office of the President	203	55,676	67,702	60,686	50,848	343	319	217	653
U. North Texas, Health Science Center	204	49,503	50,124	42,766	50,698	27,579	27,260	25,917	32,464
Kent State U.	205	42,792	47,188	50,307	50,408	11,118	13,350	15,004	15,179
Ohio U.	206	53,303	53,735	51,914	49,764	13,961	14,802	15,543	19,164
Baylor U.	207	31,936	33,304	39,765	48,809	5,782	6,955	8,851	11,025
Worcester Polytechnic Institute	208	33,067	39,878	43,092	48,702	18,635	22,964	26,074	30,166
U. South Alabama	209	41,056	52,540	51,102	47,610	15,098	19,947	21,825	23,758
Southern Illinois U., Carbondale	210	49,636	41,729	41,617	47,210	12,733	12,625	12,735	12,655
Florida A&M U.	211	39,682	42,470	41,319	47,124	32,422	35,362	33,136	36,761
Boise State U.	212	41,382	39,824	43,307	46,065	24,918	24,493	26,914	31,357
U. California, Merced	213	38,226	44,890	45,966	45,964	14,385	16,850	20,000	18,621
Air Force Institute of Technology	214	33,360	34,016	35,584	45,703	23,393	21,856	22,854	27,025
SUNY, Upstate Medical U.	215	36,674	38,091	41,557	44,870	20,391	22,028	23,940	24,974
Louisiana State U., Health Sciences Center, New Orleans	216	38,989	40,914	43,419	44,370	26,988	31,290	31,381	34,272
U. Puerto Rico, Medical Sciences Campus	217	41,216	45,014	37,217	44,111	30,597	34,570	27,033	33,262
Loyola U., Chicago	218	39,332	39,223	39,365	44,036	21,994	23,562	24,018	26,793
Brigham Young U., Provo	219	40,755	39,582	38,569	43,916	23,892	23,901	24,632	30,439
Stevens Institute of Technology	220	33,060	36,695	44,747	43,386	26,281	28,342	33,461	33,998
Southern Methodist U.	221	31,140	42,562	43,081	41,960	13,439	17,869	17,752	17,886
Texas Tech U., Health Sciences Center	222	37,819	44,072	44,135	41,583	7,546	11,345	13,043	12,148
Portland State U.	223	46,911	50,045	43,667	41,311	31,234	33,055	31,315	29,842
Lehigh U.	224	38,674	38,185	38,064	41,279	25,834	26,554	26,816	29,051
North Carolina Agricultural and Technical State U.	225	38,140	37,339	36,151	40,751	24,874	23,863	22,338	25,755
U. Denver	226	27,270	36,551	41,349	38,751	15,713	22,012	24,753	23,415
Georgia Southern U.	227	12,978	11,166	12,166	37,201	1,805	1,780	1,790	3,373
Marquette U.	228	32,471	37,777	37,136	37,087	10,672	12,792	13,187	13,918
U. North Carolina, Greensboro	229	22,743	26,325	28,966	37,033	17,016	18,923	20,447	24,423
U. West Florida	230	41,035	38,555	37,397	36,837	8,634	11,506	12,369	13,313
San Francisco State U.	231	30,903	31,888	33,828	35,768	14,388	15,675	15,834	15,993
Catholic U. of America	232	25,497	24,484	25,221	35,548	20,749	21,642	22,503	23,128
SUNY, Downstate Health Sciences U.	233	34,661	36,015	33,204	34,459	26,302	26,914	26,454	27,620
U. Missouri, Kansas City	234	25,136	31,956	36,356	33,855	10,596	18,624	22,320	21,203
CUNY, Hunter C.	235	33,702	37,478	38,345	33,816	21,766	23,485	26,025	23,166
Morehouse School of Medicine	236	33,215	31,289	29,813	32,637	24,326	22,461	22,500	25,181

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U.S. Air Force Academy	237	35,925	43,941	42,197	32,086	27,973	35,294	33,554	31,818
Texas A&M U.-Corpus Christi	238	30,253	32,944	32,284	30,500	12,815	14,451	13,349	10,967
Illinois Institute of Technology	239	33,280	34,334	29,122	29,698	28,265	28,827	24,244	24,762
U. Puerto Rico, Rio Piedras	240	17,085	24,088	22,895	28,896	10,028	13,943	14,071	15,108
New Mexico Institute of Mining and Technology	241	21,383	24,616	24,591	28,745	19,560	22,864	22,922	24,900
U. Massachusetts, Dartmouth	242	26,626	28,036	26,836	28,729	7,156	7,353	6,506	8,223
SUNY, C. of Environmental Science and Forestry	243	26,610	29,137	29,296	28,440	6,873	7,743	7,809	6,979
U. Texas Health Science Center, Tyler	244	17,949 i	19,606 i	21,265	27,928	6,438 i	7,084 i	7,732	12,007
U. South Dakota	245	30,943	32,028	29,279	27,537	12,523	13,367	13,034	11,664
Louisiana Tech U.	246	24,655	26,143	26,585	27,417	5,801	6,564	7,167	6,428
Tennessee State U.	247	17,681	15,236	25,942	26,880 i	10,291	8,962	19,272	20,378 i
Rowan U.	248	16,247	22,892	26,018	26,458	9,602	12,064	15,551	17,400
Desert Research Institute	249	27,875	26,991	26,428	26,365	17,911	16,745	15,791	16,641
Wright State U.	250	68,035	64,208	49,825	26,259	43,644	41,428	35,321	19,617
California Polytechnic State U., San Luis Obispo	251	16,352	25,249	26,605	25,953	9,613	9,720	10,178	11,163
Chapman U.	252	14,141	19,592	26,660	25,820	4,057	5,738	7,850	8,574
Western Michigan U. and Homer Stryker M.D. School of Medicine	253	21,184	25,071	24,541	25,314	10,828	14,399	13,187	13,944
Northern Illinois U.	254	23,280	26,570	25,420	25,261	8,903	8,610	8,030	9,080
Miami U.	255	19,658	22,380	24,489	25,138	9,627	9,755	10,473	9,412
Villanova U.	256	20,730	22,837	25,505	24,723	3,968	4,085	4,921	5,826
Louisiana State U., Health Sciences Center, Shreveport	257	24,463	26,262	25,321	24,600	9,235	12,185	11,452	12,359
Nova Southeastern U.	258	23,296	24,567	26,035	24,513	7,853	8,965	10,452	10,386
Teachers C., Columbia U.	259	24,477	24,865	22,630	24,335	8,925	8,054	7,614	8,521
Illinois State U.	260	21,055	27,082	31,539	24,152	6,312	9,827	8,719	9,787
Rutgers, State U. New Jersey, Newark	261	27,206	26,661	28,006	23,854	17,516	15,397	16,196	16,281
U. Minnesota, Duluth	262	25,189	27,530	26,137	23,767	5,520	7,143	6,454	5,325
California State U., Sacramento	263	21,429	23,544	24,939	23,699	6,392	5,801	5,693	5,582
Marshall U.	264	20,050	19,622	22,250	23,620	8,584	9,617	11,078	12,854
Texas A&M U.-Kingsville	265	21,150	22,268	22,745	23,578	7,459	8,419	9,610	9,265
Ponce Health Sciences U.	266	7,857	11,390	13,566	23,297	6,386	8,339	11,228	18,284
Creighton U.	267	20,587	24,039	20,339	23,251	5,721	8,265	7,583	8,585
Florida Institute of Technology	268	17,378	17,876	18,271	23,195	8,511	10,352	10,999	13,049
Delaware State U.	269	21,377	23,017	23,105 i	23,193	13,007	12,179	14,319 i	16,460
Middle Tennessee State U.	270	7,132	7,673	8,697	22,531	2,391	2,473	3,062	4,150



TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Albany Medical C.	271	21,187	23,028	23,510	22,443	10,243	11,827	12,940	13,166
Central Michigan U.	272	15,616	17,102	17,448	21,726	7,130	8,100	7,450	6,919
Tuskegee U.	273	16,535	20,562	20,973	21,355	10,388	14,825	15,122	15,424
U. Alaska, Anchorage	274	21,096	21,724	22,713	21,332	13,597	14,219	15,290	15,079
U. Nebraska, central administration	275	13,352	18,860	23,672	21,295	13,200	18,523	23,104	20,675
Morgan State U.	276	12,993	13,253	17,193	20,628	11,603	11,952	14,101	16,319
Oakland U.	277	13,817	18,002	12,949	20,261	5,777	6,690	5,068	7,426
California State U., East Bay	278	491	8,640	9,072	20,108	385	2,651	2,348	9,275
Embry-Riddle Aeronautical U.	279	16,767	12,478	17,786	19,830	12,661	8,970	11,542	14,859
U.S. Military Academy	280	13,582	10,765	12,473	19,696	13,393	10,528	8,406	13,708
Eastern Virginia Medical School	281	30,010	27,064	20,870	19,415	21,356	19,408	15,748	14,774
U. Nebraska, Omaha	282	12,943	14,302	16,134	19,006	7,939	8,807	9,996	13,503
Kennesaw State U.	283	11,214	12,850	17,954	18,880	2,343	2,499	1,983	3,104
New York Medical C.	284	16,226	19,398	20,137	18,872	8,141	11,061	12,106	10,739
Bowling Green State U.	285	17,991	17,026	18,729	18,619	6,056	5,852	6,397	7,263
East Tennessee State U.	286	14,043	14,197	13,925	18,449	7,168	7,688	7,329	8,358
U. Puerto Rico, Mayaguez	287	24,769	26,877	26,553	18,368	14,111	15,653	15,842	13,073
Southern Illinois U., Edwardsville	288	18,420	18,088	18,273	18,044	3,209	3,561	3,467	3,844
U. Colorado Denver <sup>C</sup>	289	na	na	na	18,039	na	na	na	11,866
Tarleton State U.	290	12,503	13,171	14,890	17,729	4,288	4,632	4,139	4,620
U. Guam	291	11,225	12,249	13,043	17,666	8,597	9,339	9,722	14,316
Prairie View A&M U.	292	17,278	18,018	18,723	17,582	8,421	9,346	9,249	9,566
Montclair State U.	293	7,980	15,588	17,636	17,390	3,505	4,164	3,782	4,146
U. Akron	294	32,582	30,020	23,496	17,340	12,470	11,796	10,574	9,024
U. New Orleans	295	14,437	15,328	16,594	16,979	5,258	4,353	3,868	3,674
Clarkson U.	296	16,927	17,147	15,104	16,765	8,203	8,551	7,095	7,246
Fordham U.	297	20,644	20,287	20,456	16,731	4,973	4,218	3,831	4,076
U. North Carolina, Wilmington	298	16,955	17,515	16,544	16,656	5,732	7,174	6,783	6,852
California State U., Northridge	299	19,618	21,095	21,228	16,573	15,892	16,939	17,261	13,989
U. Tulsa	300	20,072	18,648	18,787	16,449	4,615	4,142	4,697	5,876
Jackson State U.	301	19,465	18,160	15,081	16,157	17,385	16,259	13,662	14,038
CUNY, Queens C.	302	16,676	18,391	16,470	16,063	12,390	13,457	12,726	12,386
Meharry Medical C.	303	16,980	18,286	13,870	15,840	14,515	16,443	12,573	13,784
U. North Florida	304	9,994	12,341	13,573	15,782	3,818	4,017	4,568	7,267

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
South Dakota School of Mines and Technology	305	15,092	12,973	14,490	15,746	10,240	9,283	10,659	11,587
CUNY, Advanced Science Research Center	306	5,666	8,310	11,373	15,403	4,027	6,859	9,208	11,840
Tennessee Technological U.	307	12,765	13,801	14,085	15,387	5,390	6,153	6,471	7,625
Texas Christian U.	308	5,808	6,552	15,326	15,336	3,198	2,866	3,168	4,448
U. of the Virgin Islands	309	11,957	12,236	13,631	15,231	10,852	10,445	11,787	13,099
California State U., Long Beach	310	22,880	18,664	16,684	15,134	14,021	13,579	12,014	11,178
Long Island U.	311	2,405	5,113	13,997	15,059	1,929	1,839	1,349	2,686
CUNY, Graduate School of Public Health and Health Policy	312	9,751	9,521	12,177	15,035	5,080	5,572	8,722	12,254
Montana Technological U.	313	12,666	12,731	12,987	14,933	4,691	4,926	4,322	6,133
James Madison U.	314	4,191	8,726	10,247	14,687	1,879	2,717	2,609	2,379
U. Baltimore	315	10,556	12,451	15,054	14,672	7,431	9,103	11,748	11,692
U. Missouri, Saint Louis	316	12,266	14,432	15,352	14,632	6,364	7,059	6,146	5,812
New School	317	13,606	13,421	13,186	14,281	1,857	1,819	1,050	1,324
Alcorn State U.	318	13,834	14,435	13,710	14,188	7,372	7,540	7,023	7,593
North Carolina Central U.	319	14,942	16,227	15,833	14,105	12,947	13,503	12,787	10,676
Humboldt State U.	320	15,044	15,076	14,236	14,103	3,024	2,103	2,399	1,975
Loma Linda U.	321	19,892 i	17,938 i	15,984 i	14,029	13,923 i	12,654 i	11,385 i	10,116
Idaho State U.	322	18,081	14,972	14,478	13,953	10,081	7,547	7,849	7,216
Northeast Ohio Medical U.	323	18,231	18,016	15,758	13,853	9,743	10,107	10,684	9,999
Rosalind Franklin U. of Medicine and Science	324	16,765	16,126	14,601	13,805	9,249	8,865	8,504	9,357
Western Washington U.	325	13,075	11,983	12,823	13,450	4,393	3,978	3,966	4,290
Sam Houston State U.	326	7,152	9,445	12,437	13,315	2,200	3,723	4,764	5,632
Charles R. Drew U. of Medicine and Science	327	11,490	13,739	13,682	13,228	10,198	10,427	9,863	9,945
U. Hawaii, system office	328	12,340	12,159	13,568	12,918	12,328	12,052	13,367	12,688
Loyola Marymount U.	329	7,911	7,272	7,193	12,819	1,040	1,185	1,105	2,170
Xavier U. Louisiana	330	11,784	10,152	11,387	12,799	10,165	8,679	9,680	11,213
CUNY, John Jay C. of Criminal Justice	331	14,310	12,295	13,939	11,791	5,896	4,971	5,297	3,519
Hampton U.	332	14,424	13,605	11,402	11,669	14,170	13,390	11,278	11,517
California State U., San Bernardino	333	16,702	16,062	10,819	11,607	7,920	8,651	5,886	5,867
Texas Tech U., Health Sciences Center, El Paso	334	12,556	11,883	10,421	11,360	2,532	2,279	1,703	1,831
U. Tennessee, Chattanooga	335	7,585	9,280	10,834	11,192	1,490	2,393	3,915	4,507
Rhode Island C.	336	9,287	9,480	10,094	10,990	3,337	3,332	4,128	4,894
Midwestern U.	337	10,173	10,343	10,479	10,961	1,278	1,045	936	1,506
U.S. Naval Academy	338	14,057	13,621	13,123	10,818	13,331	12,991	12,577	10,247

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Salisbury U.	339	9,119	9,368	9,496	10,552	1,805	2,290	2,413	3,271
Duquesne U.	340	17,420	16,947	17,485	10,521	5,762	4,552	4,981	5,020
California State U., San Marcos	341	8,348	10,595	13,250	10,213	7,497	9,134	11,547	8,831
Virginia State U.	342	10,673	11,457	10,014	10,123	5,655	6,636	5,642	4,846
Missouri State U.	343	4,409	5,910	13,131	10,014	3,995	5,076	12,310	8,931
West Texas A&M U.	344	4,797	5,437	6,220	9,920	1,329	1,565	1,542	2,195
St. Edward's U.	345	10,431	9,650	9,619	9,527	7,289	6,500	7,700	7,600
California State U., Los Angeles	346	9,594	12,476	10,590	9,382	8,586	9,288	8,380	7,342
California State U., Fresno	347	8,988	8,599	8,856	9,213	3,969	2,900	3,117	4,101
Texas Southern U.	348	3,740	4,893	10,138	9,128	2,839	3,238	6,249	5,562
Alabama A&M U.	349	16,932	12,840	8,749	9,065	11,704	8,277	5,643	5,967
California State U., Fullerton	350	6,348	7,173	5,929	9,006	4,981	4,340	4,121	4,551
Bryn Mawr C.	351	10,282	9,846	11,575	8,987	2,242	1,801	1,531	1,429
Clark Atlanta U.	352	7,833	9,048	8,452	8,892	5,634	5,689	5,324	5,355
Ball State U.	353	11,163	12,145	9,429	8,826	3,028	2,929	2,397	2,469
Kentucky State U.	354	9,125	8,433	7,963	8,756	5,618	4,692	4,456	3,716
Central State U.	355	3,615	3,766	6,107	8,751	2,299	2,517	3,097	4,165
U. Arkansas, Pine Bluff	356	8,349	9,024	8,540	8,713	3,683	4,299	4,393	3,960
U. Maryland, Eastern Shore	357	4,941	7,133	8,092	8,636	4,890	6,983	8,084	8,346
Arkansas State U., Jonesboro	358	8,245	8,945	8,640	8,422	4,371	4,876	4,712	4,249
U. Washington, Bothell	359	8,097	7,950	7,107	8,311	2,920	3,353	2,815	2,956
Florida Gulf Coast U.	360	5,115	5,907	6,671	8,197	3,164	3,773	5,304	4,467
Winston-Salem State U.	361	1,629	2,011	5,781	8,123	1,629	2,011	4,498	4,841
U. of the District of Columbia	362	2,960	4,800	4,590	8,104	2,021	3,283	2,664	6,851
Wesleyan U.	363	10,662	9,958	8,300	8,009	4,353	4,793	4,305	4,032
Clark U.	364	8,318	10,193	10,277	7,931	2,962	3,495	3,350	2,754
William Paterson U.	365	9,456	10,122	9,603	7,867	642	1,592	1,896	1,893
Oklahoma State U., Center for Health Sciences	366	2,608	5,408	8,378	7,758	1,021	985	2,618	2,304
Lincoln U., Jefferson City	367	4,215	4,581	5,777	7,621	2,498	2,700	3,636	5,621
U. San Diego	368	5,642	6,036	8,607	7,580	2,397	2,511	2,398	2,554
U. Michigan, Dearborn	369	8,094	8,813	8,777	7,472	1,448	1,850	2,264	2,366
U. Hawaii, Hilo	370	7,133	6,864	6,992	7,411	5,264	4,924	5,274	5,510
U. Arkansas, Little Rock	371	8,167	9,975	9,711	7,397	5,764	6,688	7,289	6,939
Claremont Graduate U.	372	8,880	8,715	9,403	7,235	2,982	1,886	809	1,152

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Eastern Michigan U.	373	6,600	7,175	9,088	7,233	1,522	2,135	2,598	2,237
U. Oklahoma, Tulsa	374	6,233	6,373	7,483	7,185	1,605	1,803	1,953	1,267
California State Polytechnic U., Pomona	375	8,043	6,099	7,396	7,011	4,297	3,555	5,514	4,396
Western Kentucky U.	376	9,617	9,281	8,241	6,944	3,162	3,391	3,265	2,348
California State U., Monterey Bay	377	5,799	6,444	5,874	6,882	3,607	3,746	3,889	3,813
Grand Valley State U.	378	6,968	6,592	6,792	6,809	1,719	1,663	1,831	1,415
Western U. of Health Sciences	379	5,140	4,951	5,899	6,688	2,755	3,035	4,486	5,620
DePaul U.	380	7,079	6,144	6,557	6,675	4,532	4,464	5,156	4,518
Edward Via C. of Osteopathic Medicine	381	7,601	7,225	7,475	6,629	195	749	566	537
West Virginia State U.	382	6,535	5,829	5,775	6,565	5,361	4,592	3,993	4,119
C. Charleston	383	7,375	7,610	5,728	6,361	4,376	4,395	3,087	4,126
Langston U.	384	10,872 i	10,719	14,409	6,345	7,474 i	6,622	9,004	3,089
CUNY, Brooklyn C.	385	6,600	6,837 i	7,074	6,318	4,280	4,465 i	4,651	4,505
California State U., Bakersfield	386	5,577	7,591	7,053	6,253	3,243	4,376	4,486	3,827
Wellesley C.	387	11,530	8,810	8,088	6,252	3,947	3,602	4,441	3,469
U. New England	388	6,700	7,346	6,886	6,234	4,976	5,269	5,064	3,864
U. Charleston	389	ne	ne	5,935 i	6,215	ne	ne	5,760 i	6,215
Philadelphia C. of Osteopathic Medicine	390	3,059	3,162	3,360	6,186	260	346	422	318
Indiana U. Pennsylvania	391	6,450	8,119	6,531	6,180	891	1,810	1,309	1,503
Southern U. and A&M C., Agricultural Research and Extension Center	392	5,296	5,448	4,475	6,164	3,057	3,057	2,085	3,588
Gallaudet U.	393	7,617	5,382	4,599	6,126	2,259	2,190	1,841	2,140
U. Central Oklahoma	394	5,104	5,682	5,788 i	5,997 i	1,127	1,457	1,444 i	1,516 i
Roseman U. of Health Sciences	395	3,973	4,176 i	4,380	5,985	18	37 i	56	53
Southern Connecticut State U.	396	2,763	4,627	5,413	5,750	823	803	1,026	713
Purdue U., Northwest	397	8,062	5,272	5,839	5,647	3,205	2,493	1,996	2,280
Hofstra U.	398	1,662	1,744	1,445	5,545	1,275	1,296	997	1,266
Naval War C.	399	5,270	5,060	5,944	5,542	4,384	5,060	5,944	5,542
Pennsylvania State U., Behrend	400	2,760	3,414	1,743	5,509	1,025	1,427	543	2,286
U. Southern Maine	401	7,414	6,654	5,635	5,480	2,362	2,551	2,231	2,020
Colorado C.	402	2,560	2,233	2,291	5,467	429	324	196	3,725
Yeshiva U.	403	3,302	2,420	2,763	5,452	683	380	772	1,509
U. Colorado Colorado Springs	404	5,976	4,720	5,557	5,338	4,094	3,072	3,508	3,942
Seton Hall U.	405	6,536	7,056	5,718	5,320	3,551	3,982	2,725	2,137
Azusa Pacific U.	406	8,380	5,598	7,068	5,318	199	137	128	212

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed							
		2018	2019	2020	2021	2018	2019	2020	2021				
U. of Health Sciences and Pharmacy in St. Louis	407	ne	ne	4,835	5,313	ne	ne	3,767	4,063				
Des Moines U.	408	1,423	1,954	5,021	5,258	i	933	845	449	485	i		
Hope C.	409	3,179	2,745	3,822	5,211		1,100	1,361	1,155	1,992			
U. of St. Thomas (MN)	410	1,645	1,870	2,679	5,146		320	313	450	1,321			
Rutgers, State U. New Jersey, Camden	411	3,264	3,211	3,950	5,142		1,567	1,096	1,952	2,905			
Reed C.	412	2,607	3,240	5,155	5,132	i	1,065	1,423	1,806	1,916	i		
High Tech High Graduate School of Ed.	413	861	2,223	3,304	5,032		0	0	0	0			
Toyota Technological Institute, Chicago	414	3,251	3,681	5,887	4,967		1,759	1,934	3,038	3,090			
Southern U. and A&M C., Baton Rouge	415	4,171	4,492	3,849	4,943		3,431	3,243	2,996	3,770			
Texas Woman's U.	415	4,822	4,477	4,135	4,943		1,422	1,864	1,700	1,514			
Williams C.	417	5,506	5,188	4,924	4,902	i	1,458	1,131	1,086	1,152	i		
U. North Carolina, Asheville	418	3,414	4,602	4,789	4,844		1,442	1,846	2,405	2,322			
Fort Valley State U.	419	3,916	4,563	4,921	4,842		3,700	4,434	4,806	4,429			
Lamar U.	420	3,595	4,848	4,327	4,734		1,380	2,641	2,146	1,873			
Pacific U.	421	6,264	8,753	5,842	4,690		2,637	3,917	2,596	2,072			
U.S. Army War C.	422	ne	4,418	i	4,500	i	ne	4,418	i	4,500	i		
Amherst C.	423	4,849	6,325	4,906	4,636		1,630	2,118	1,775	1,375			
Barnard C.	424	3,458	4,010	3,748	4,632		2,491	2,871	2,800	3,527			
Abilene Christian U.	425	581	979	2,631	4,597		306	382	999	827			
U. Detroit Mercy	426	4,605	5,210	4,786	4,578		4,385	4,936	4,226	3,917			
Morehouse C.	427	4,531	4,564	4,825	4,533		4,531	4,494	4,825	4,533			
Claremont McKenna C.	428	5,693	6,214	5,846	4,515		555	730	771	637			
Appalachian State U.	429	3,631	3,268	4,894	4,509		1,922	1,332	1,469	1,694			
Bucknell U.	430	5,269	5,625	5,051	i	4,476	1,329	1,764	1,730	i	1,696		
New York Institute of Technology	431	3,832	5,820	3,580	4,465		1,501	3,135	1,542	1,988			
West Chester U. Pennsylvania	432	6,340	6,777	6,414	4,433		671	715	724	608			
U. Wisconsin-Stevens Point	433	3,867	i	4,314	i	4,764	4,401	1,575	i	1,884	i	2,193	1,776
Fisk U.	434	2,790	4,748	3,904	4,320		2,781	4,615	3,811	3,940			
Norfolk State U.	435	6,914	8,050	7,153	4,316		6,912	8,046	7,148	3,976			
Oregon Institute of Technology	436	3,163	4,793	4,267	4,314		235	437	326	252			
U. Washington, Tacoma	437	3,006	3,471	3,504	4,291		2,230	2,808	3,075	3,459			
CUNY, Graduate Center	438	4,781	5,399	4,787	4,265		2,592	3,009	2,561	2,496			
California State U., Chico	439	2,452	3,232	4,305	4,209		1,060	1,864	2,520	2,258			
CUNY, Lehman C.	440	5,556	4,690	4,154	4,181		4,478	3,342	3,197	3,382			

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Grinnell C.	441	5,573	5,500	5,826	4,122	635	364	644	344
Smith C.	442	5,954	6,041	4,685	4,085	3,305	2,892	2,650	2,433
U. New Haven	443	5,585	5,062	3,843	4,069	3,853	2,786	1,440	2,069
U. North Carolina, general administration	444	4,843	4,154	3,942	4,024	98	213	572	408
U. of the Sciences Philadelphia	445	3,671	3,740	3,761	4,005	1,095	1,318	1,126	1,320
U. Central Arkansas	446	3,620	3,477	3,455	3,990	1,262	1,462	1,421	1,640
Fayetteville State U.	447	4,980	4,695	2,797	3,933	2,445	2,168	1,008	1,988
South Carolina State U.	447	15,130 i	3,659	3,796 i	3,933 i	14,938 i	3,659	3,796 i	3,933 i
Murray State U.	449	2,872	3,710	3,019	3,844	1,587	2,639	1,929	2,721
Haverford C.	450	3,041	3,752	4,473	3,835	1,665	2,343	2,680	2,455
U. Central del Caribe	451	4,111	3,953	3,931	3,831	2,937	2,705	2,743	2,492
Texas A&M U.-Commerce	452	3,431	3,403	4,166	3,827	1,159	836	1,226	1,283
Carleton C.	453	5,515	4,388	3,732	3,800	2,542	1,891	1,236	1,499
Towson U.	454	3,194	3,423	3,612	3,794	2,133	2,144	2,010	1,758
National Defense U.	455	4,276	4,231	4,583	3,786	4,276	4,231	4,583	3,786
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	456	3,502	3,769	3,737	3,776	201	191	342	376
Texas A&M International U.	457	5,735	6,068	3,067	3,740	2,008	1,847	986	1,243
Franklin and Marshall C.	458	4,769	5,041	3,623	3,722	1,760	1,582	1,202	1,363
Albany C. of Pharmacy and Health Sciences	459	2,732	3,383	3,765	3,687	1,094	1,692	1,938	1,900
Pace U.	460	4,282	3,855	4,272	3,649	2,117	2,579	2,997	2,536
Occidental C.	461	1,445	2,458	2,657	3,587	901	1,614	1,567	2,348
U. Massachusetts, central office	462	5,298	4,916	5,225	3,541	643	488	488	342
Kean U.	463	645	2,174	2,201	3,538	196	1,289	775	362
Western Illinois U.	464	2,466	2,373	2,461	3,532	1,551	1,495	1,801	3,163
U. Texas of the Permian Basin	465	668	1,642	2,105	3,504	50	596	757	1,762
Touro U.	466	3,233	3,543	3,551	3,489	1,410	1,540	1,558	1,377
SUNY, C. of Optometry	467	3,120	2,968	3,477	3,460	1,944	1,823	1,688	2,105
Dakota State U.	468	3,619	3,710	4,412	3,416	3,273	3,008	3,957	2,603
Northern Kentucky U.	469	1,653	2,363	2,693	3,403	890	1,316	1,462	2,156
U. Virginia's C. Wise	470	ne	ne	2,434	3,310	ne	ne	952	1,307
Colgate U.	471	3,823	3,756	2,913	3,306	1,389	1,202	918	1,440
Swarthmore C.	472	3,921	4,203	3,544	3,296	1,586	1,539	1,041	1,414
U. Northern Iowa	473	2,983	3,628	2,970	3,259	1,697	2,343	1,881	1,995
Stephen F. Austin State U.	474	3,336	3,679	3,672	3,204	1,242	1,332	1,257	1,029

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Nebraska, Kearney	475	2,639	2,919	2,640	3,201	1,075	1,240	1,259	1,327
Milwaukee School of Engineering	476	3,232	4,026	3,190	3,193	680	764	613	751
U. Northern Colorado	477	5,089	4,571	3,738	3,159	2,271	1,966	1,853	1,942
Santa Clara U.	478	2,299	2,319	2,682	3,142	1,592	1,333	1,522	1,930
MGH Institute of Health Professions	479	3,328	4,130	3,549	3,037	2,957	3,494	3,014	2,500
U. Wisconsin-La Crosse	480	3,569	2,692	2,795	3,001	1,171	777	817	895
Colorado State U., Pueblo	481	3,501	3,107	3,104	2,990	1,525	1,282	1,161	1,508
Sonoma State U.	482	949	1,656	1,545	2,957	735	1,166	936	2,212
St. John's U., New York	483	2,903	2,352	3,282	2,940	1,612	1,666	1,805	1,950
Pennsylvania State U., Harrisburg	484	2,119	2,805	1,866	2,938	292	80	451	1,616
Middlebury C.	485	1,895	1,657	1,720	2,927	1,774	1,558	1,546	2,639
Saint Joseph's U.	486	2,151	2,851	3,150	2,922	252	373	1,047	1,158
Trinity U.	487	3,244	3,736	3,472	2,905	1,187	924	1,207	1,078
CUNY, C. Staten Island	488	4,118 i	3,986	3,682	2,860	1,982 i	2,421	2,295	2,234
Western Carolina U.	489	1,507	2,633	2,696	2,847	1,038	1,736	1,707	1,697
Northwest Indian C.	490	2,154	2,659	2,708 i	2,806 i	2,037	2,520	2,497 i	2,621 i
California State U., Maritime Academy	491	3,039	2,959	3,202	2,799	550	617	621	548
Youngstown State U.	492	4,463	4,447	4,120	2,775	3,634	2,878	3,308	2,198
Austin Peay State U.	493	2,644	2,285	2,833	2,740	599	295	475	597
Pittsburg State U.	494	2,253	2,513	2,173	2,730	195	339	477	759
California State U., Dominguez Hills	495	2,043	1,957	2,065	2,690	1,354	1,261	1,433	2,001
Alfred U.	496	3,641	5,153	2,780	2,660	1,416	1,580	947	939
Christopher Newport U.	497	1,732	1,961	2,608	2,656	1,069	1,285	1,365	1,497
Pepperdine U.	498	1,954	2,170	2,006	2,655	713	914	693	835
Alabama State U.	499	2,434	2,577	2,582	2,631	2,434	2,577	2,582	2,338
Bates C.	500	1,635	2,135	2,303	2,620	1,121	1,607	1,885	2,079
U. Illinois, Springfield	501	2,164	1,876	3,406	2,612	1,109	980	976	1,071
U. Wisconsin-Superior	502	3,068	2,250	2,301	2,602	1,924	1,527	1,382	1,843
Winthrop U.	503	2,007	2,189	2,217	2,586	1,419	1,438	1,563	1,495
Pratt Institute	504	ne	ne	ne	2,547	ne	ne	ne	294
Dillard U.	505	6,573	2,772	2,523	2,528	5,503	1,390	1,200	1,257
CUNY, Baruch C.	506	2,817	2,387	2,396	2,521	1,412	1,359	1,470	1,691
Purdue U., Fort Wayne	507	4,945	2,416	2,264	2,495	773	544	589	401
Davidson C.	508	1,638	1,777	2,263	2,466	813	973	1,411	1,151

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Johnson C. Smith U.	509	2,468	2,148	2,472	2,461	2,003	1,909	2,230	2,365
Furman U.	510	2,064	1,628	2,101	2,431	1,110	1,106	847	1,028
Saginaw Valley State U.	511	1,640	2,818	2,343	2,428	1,227	2,339	1,809	1,899
Bowdoin C.	512	2,724	2,991	2,719	2,417	2,065	1,790	1,862	1,836
Chicago State U.	513	1,154	898	980	2,414	1,154	898	978	2,414
Central Washington U.	514	3,066	3,223	2,674	2,410	1,840	2,159	1,701	1,778
Framingham State U.	515	164	1,540	2,317	2,401	17	1,452	179	188
St. Cloud State U.	516	3,725	3,275	3,056	2,379	529	733	459	577
Harvey Mudd C.	517	3,790	3,353	2,916	2,359	1,762	1,619	1,748	1,443
California State U., Channel Islands	518	1,248	1,572	1,497	2,341	284	500	553	993
Skidmore C.	519	2,584	3,012	2,412	2,335	1,893	2,261	1,827	1,739
Plymouth State U.	520	990	880	664	2,318	794	744	558	421
Marymount U.	521	ne	ne	ne	2,307	ne	ne	ne	337
U. Richmond	522	2,784	2,783	2,469	2,294	1,628	1,575	1,628	1,534
Spelman C.	523	2,350	2,751	2,750	2,282	1,673	2,004	2,136	1,886
Lewis and Clark C.	524	2,811	2,750	3,350	2,281	848	931	1,268	702
U. Texas, Tyler	525	1,828	2,063	2,007	2,279	719	813	774	929
Keck Graduate Institute	526	1,967	2,095	2,152	2,254	1,007	1,078	1,113	1,201
Coastal Carolina U.	527	1,631	2,042	1,903	2,245	1,031	1,294	1,211	948
Palmer C. of Chiropractic, Davenport	528	1,600	1,650	1,900	2,233	1,100	1,100	1,400	1,733
U. Louisiana, Monroe	529	2,123	2,364	2,362	2,198	1,789	1,949	2,025	1,465
Minnesota State U., Mankato	530	2,943	3,392	2,754	2,170	639	708	525	575
Adelphi U.	531	330	359	1,258	2,157	265	292	1,190	2,089
Pomona C.	532	2,983	2,985	2,855	2,146	868	863	1,123	930
Sul Ross State U.	533	2,934	2,352	2,068	2,143	553	339	481	505
Grambling State U.	534	2,981	2,836	2,427	2,124	1,806	1,066	787	731
Tougaloo C.	535	3,173	3,380	2,102	2,092	3,173	3,380	2,102	2,092
California State U., Stanislaus	536	1,394	1,477	1,843	2,085	734	964	1,284	1,354
SUNY, Geneseo	537	1,939	2,139	1,642	2,070	998	1,206	950	1,273
Citadel Military C. South Carolina	538	739	1,120	1,012	2,054	484	835	736	1,714
Suffolk U.	539	1,866	2,056	2,106	2,043	739	905	844	634
U. South Carolina, Aiken	540	2,602	2,481	2,590	2,042	2,437	2,379	2,328	1,884
Elon U.	541	2,486	2,545	1,968	2,032	309	284	106	138
Mount Holyoke C.	542	3,027	2,979	2,016	2,026	2,210	2,074	1,442	1,539



TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. of the Incarnate Word	543	1,338	1,800	1,469	1,982	868	1,075	869	1,076
New England C. of Optometry	544	1,026	1,223	1,150	1,978	837	928	785	1,623
Western New England U.	545	479	283	505	1,973	350	161	201	781
SUNY, Buffalo State	546	1,928	2,124	2,253	1,962	1,057	1,225	1,241	977
Hobart and William Smith Colleges	547	1,881	1,919	2,114	1,941	997	1,047	1,072	758
Mercyhurst U.	548	1,691	1,801	1,850	1,937	624	668	690	745
Fort Lewis C.	549	1,211	1,460	1,370	1,926	802	1,284	1,228	1,746
Eastern Washington U.	550	2,590	2,024	2,282	1,921	1,081	864	1,153	775
Northeastern Illinois U.	551	2,442	2,478	2,018	1,913	2,442	2,478	2,018	1,913
C. New Jersey	552	949	1,199	1,464	1,912	829	985	951	1,079
U. Puerto Rico, Cayey	553	1,359	1,870	1,974	1,881	632	963	1,210	1,202
U. Wisconsin-Green Bay	554	1,454	2,083	1,982	1,879	546	821	890	876
Manhattan C.	555	1,381	1,190	1,307	1,864	376	245	398	397
Roger Williams U.	556	1,937	1,852	1,531	1,854	1,052	1,135	1,045	1,202
U. Wisconsin-Eau Claire	557	1,227	1,530	1,318	1,852	705	748	647	909
Hawaii Pacific U.	558	2,114	1,980	1,796	1,849	1,905	1,809	1,699	1,741
U. Houston-Downtown	559	2,508	2,216	2,299	1,828	1,836	1,437	1,392	1,169
Willamette U.	560	2,723	1,953	1,546	1,817	872	549	401	896
Savannah State U.	561	1,793	1,720	1,804	1,804	1,778	1,709	1,804	1,804
SUNY, C. of Technology, Canton	562	ne	ne	ne	1,794	ne	ne	ne	1,794
Trinity C., Hartford	563	1,672	1,858	1,428	1,775	794	1,077	1,019	1,348
Lawrence Technological U.	564	1,668	1,352	1,521	1,764	479	304	405	284
Morehead State U.	565	2,434	2,028	1,883	1,754	1,839	1,651	1,674	1,727
Hamilton C.	566	1,796	2,050	1,869	1,747	129	190	144	286
Heidelberg U.	567	1,280	1,237	1,125	1,725	163	164	188	308
Erikson Institute	568	3,583	2,279	1,992	1,723	1,822	753	1,006	772
Southeastern Louisiana U.	568	2,039	1,971	2,258	1,723	1,046	803	884	795
Elizabeth City State U.	570	978	1,189	1,473	1,717	960	1,183	1,455	1,603
U. Houston-Clear Lake	571	1,251	1,370	1,363	1,716	894	718	632	865
Colby C.	572	2,240	1,852	1,536	1,672	1,213	1,093	809	750
Monmouth U.	573	1,401	1,294	1,729	1,667	100	120	110	174
CUNY, system office	574	3,253	2,619	1,704	1,664	1,977	2,241	884	768
Northwestern State U. Louisiana	575	1,623	2,058	1,940	1,663	490	579	598	738
U. Wisconsin-Oshkosh	576	1,544	1,581	1,618	1,656	1,106	1,099	1,092	1,083

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Eastern Connecticut State U.	577	1,100	1,659	1,799	1,646	36	181	177	108
Franklin W. Olin C. of Engineering	578	1,254	1,655	1,404	1,627	472	162	293	636
Vassar C.	579	4,185	1,009	1,568	1,606	4,185	909	1,055	918
U. Ana G. Mendez, Gurabo	580	1,579	3,945	2,049	1,574	471	951	946	926
Dine C.	581	1,238	1,126	347	1,570	1,238	1,126	347	1,570
Seattle U.	582	2,535	2,223	2,060	1,562	1,644	1,307	1,303	1,102
Troy U.	583	495	1,507	1,692	1,548	335	1,355	1,591	1,488
La Sierra U.	584	2,227	1,581	1,647	1,517	623	640	618	812
Kenyon C.	585	1,227	1,092	908	1,500	764	776	714	1,022
Calvin U.	586	1,937	1,577	1,497	1,490	1,363	925	888	942
Drake U.	587	1,103	865	1,201	1,488	699	463	730	1,016
East Stroudsburg U. Pennsylvania	588	813	677	797	1,440	540	460	534	538
Bentley U.	589	620	465	777	1,430	181	78	246	762
U. North Georgia	590	2,465	2,068	1,905	1,415	1,013	637	542	497
Bowie State U.	591	1,839	1,911	1,967	1,398	1,839	1,911	1,967	1,398
Union C., Schenectady	592	1,540	1,740	1,062	1,396	885	972	462	976
U. San Francisco	593	2,741	2,712	2,161	1,375	310	198	148	255
U. of the Pacific	594	3,014	3,078	1,713	1,371	2,141	2,158	1,375	1,106
CUNY, New York City C. of Technology	595	2,418	2,711	2,130	1,367	1,978	1,891	1,585	1,197
Northern Michigan U.	596	1,728	1,520	1,523	1,364	354	311	446	366
Marshall B. Ketchum U.	597	1,451	1,430	1,357	1,351	354	336	323	343
Virginia Military Institute	597	499	727	712	1,351	62	234	347	1,075
U. Puerto Rico, Humacao	599	1,168	1,195	1,456	1,321	882	828	1,279	1,137
Kettering U.	600	2,531	1,765	2,081	1,315	1,144	402	568	353
Central Connecticut State U.	601	1,190	1,381	1,572	1,314	411	540	901	663
Texas A&M U.-San Antonio	602	333	308	567	1,311	56	31	89	277
Babson C.	603	1,917	1,845	2,352	1,286	12	14	14	0
Black Hills State U.	604	1,571	2,031	1,499	1,280	1,437	1,535	1,287	1,124
Macalester C.	604	1,404	1,808	1,755	1,280	553	805	647	617
SUNY, C. Plattsburgh	604	1,604	1,729	1,452	1,280	1,254	1,197	950	824
Florida Polytechnic U.	607	1,202	2,006	1,091	1,269	181	338	252	459
West Virginia School of Osteopathic Medicine	608	428	1,951	1,311	1,255	81	414	419	423
U. Hartford	609	1,073	1,528	1,436	1,252	591	1,019	854	766
Stockton U.	610	2,560	2,634	4,236	1,246	246	553	872	486

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Connecticut C.	611	1,349	1,894	1,598	1,244	505	752	483	439
Biola U.	612	1,085 i	1,155 i	1,187 i	1,243 i	599 i	641 i	662 i	714 i
U. Puget Sound	613	900	1,039	895	1,233	525	547	401	591
Lake Superior State U.	614	633	830	935	1,226	237	190	263	605
Doane U.	615	1,092	1,093	1,123 i	1,176 i	865	928	958 i	1,034 i
U. Alaska, Southeast	615	1,641	1,341	1,264	1,176	1,636	1,235	1,098	1,046
St. Catherine U.	617	814	267	963	1,157	242	132	204	270
Utah Valley U.	618	281	151	336	1,154	181	122	289	1,028
U. Wisconsin-Platteville	619	1,013 i	1,084 i	1,104 i	1,144 i	325 i	339 i	336 i	353 i
CUNY, York C.	620	1,137	1,621	1,691	1,133	920	1,511	1,513	922
California Lutheran U.	621	1,106	1,143	630	1,129	131	256	271	518
New Mexico Highlands U.	621	952	1,333	1,090	1,129 i	741	1,128	1,034	1,085 i
Albion C.	623	1,055	1,040	1,132	1,127 i	114	180	272	289 i
Saint John's U.	624	1,208	1,191 i	1,130 i	1,125 i	0	0 i	0 i	0 i
U. of Mary Washington	625	1,242	1,315	1,393	1,123	418	577	660	485
SUNY, C. Brockport	626	1,293	1,390	1,719	1,114	672	638	781	500
SUNY, Cobleskill	627	ne	ne	625	1,106	ne	ne	559	243
Northland C.	628	ne	ne	1,101	1,096 i	ne	ne	657	697 i
Butler U.	629	938	680	679	1,071	307	211	362	741
C. Wooster	629	1,494	1,758	1,076	1,071 i	744	456	283	300 i
C. of Saint Benedict	631	1,142	1,126 i	1,069 i	1,064 i	47	45 i	43 i	46 i
Indiana State U.	632	1,323	1,682	1,471	1,042	927	1,190	949	582
Alaska Pacific U.	633	1,544	1,774	1,261	1,036	436	451	148	189
Canisius C.	633	1,069	950	1,094	1,036	1,054	943	869	597
Whitman C.	635	1,041	1,083	865	1,034	582	704	558	481
Ithaca C.	636	945	1,678	1,199	1,030	682	1,330	981	685
Clafin U.	637	1,509	1,746	1,910	1,015	1,491	1,735	1,907	1,005
Lafayette C.	637	1,815	1,554	1,390	1,015	1,133	910	755	508
Nevada State C.	639	796	701	561	1,014	789	700	532	1,012
Augustana U.	640	1,170	841	1,038	1,013	1,023	784	976	1,013
SUNY, Oswego	641	1,982	1,781	1,534	1,003	661	628	492	415
U. Wisconsin-River Falls	642	923	1,130	1,107	999	445	559	488	212
U. Maine Farmington	643	ne	526 i	961 i	996 i	ne	298 i	666	699 i
Eastern Kentucky U.	644	1,142	1,125	1,010	986	655	598	554	530

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. South Carolina, Beaufort	645	497	532	599	976	88	98	156	464
Gannon U.	646	409	555	351	972	88	18	32	61
Sacred Heart U.	646	ne	563	1,298	972	ne	134	691	675
Rhode Island School of Design	648	1,042 i	1,027 i	975 i	971 i	259 i	246 i	236 i	250 i
U. Hawaii, Maui C.	649	284	833	1,033	967	284	821	995	951
New C. Florida	650	875	962	999	960	151	199	114	92
Gustavus Adolphus C.	651	597	808	843	953	237	370	365	445
Hult International Business School	651	973 i	959 i	910 i	953 i	475 i	450 i	432 i	466 i
Angelo State U.	653	774	815	798	943	141	32	0	20
Liberty U.	654	1,507	1,780	1,894	937	55	535	886	120
Millersville U. Pennsylvania	655	862	782	402	931	684	574	246	785
Bethune-Cookman U.	656	1,137	735	636	928	1,137	735	529	715
Pennsylvania State U., Great Valley School of Graduate Professional Studies	657	370	419	ne	927	370	90	ne	457
Quinnipiac U.	658	994 i	980 i	930 i	926 i	493 i	467 i	448 i	475 i
Valparaiso U.	659	870	763	718	925	863	712	672	805
Siena C.	660	941	944	884	923	498	550	382	265
Keene State C.	661	1,028	1,061	1,063	919	932	1,022	1,043	894
Indiana U., South Bend	662	958	968	1,249	898	111	234	400	337
Norwich U.	663	867	992	749	890	486	768	531	588
Arcadia U.	664	430	522	1,072	889	274	341	750	371
Midwestern State U.	665	868	1,100	891	882	260	619	599	515
Albany State U.	666	1,301	1,491	1,060	880	839	1,065	836	552
Indiana Wesleyan U.	667	418	706	316	878	12	329	54	216
Saint Michael's C.	668	1,482	1,200	957	876	1,255	964	775	744
Saint Francis U.	669	650	829	878	872	8	25	173	199
U. Minnesota, Morris	670	1,080	1,234	1,004	855	285	195	213	162
Ferris State U.	671	597	366	394	853	43	93	87	565
Mills C.	672	1,850	1,643	1,541	850	928	840	1,341	683
National U. of Natural Medicine	672	1,007	1,245	1,428	850	760	760	912	523
Fairfield U.	674	1,742	1,279	1,210	849	1,222	594	365	147
Fielding Graduate U.	675	817	852	1,073	843	501	593	906	791
Ursinus C.	676	925	768	497	835	794	565	430	682
Radford U.	677	604	879	774	832	251	372	161	253
La Salle U.	678	886	1,135	818	829	69	45	14	21

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Colorado Mesa U.	679	329	372	452	823	239	189	228	664
Dominican U. California	679	840	828	786	823	744	705	677	731
Weber State U.	681	721	1,081	676	822	267	380	424	423
Polytechnic U. Puerto Rico	682	1,929	2,118	813	821	1,896	1,884	813	821
St. Olaf C.	683	1,155	1,010	1,032	816	333	255	230	271
American Samoa Community C.	684	1,158	860	1,536	815	1,150	860	1,536	815
Augsburg U.	684	1,051	991	883	815	505	496	377	408
Texas A&M U.-Central Texas	686	1,122	428	623	814	192	45	398	653
Andrews U.	687	1,149	1,126	1,033	802	378	278	263	256
Fort Hays State U.	688	1,157	1,143	1,172	800	762	694	764	482
Evergreen State C.	689	486	563	390	783	281	405	279	256
Oberlin C.	690	1,803	2,076	1,182	776	1,096	1,576	743	505
Southern Utah U.	691	763	812	955	773	610	673	741	650
Dickinson C.	692	1,068	1,037	929	767	352	324	222	305
Providence C.	693	1,215	1,042	1,092	766	960	857	913	574
U. Wisconsin-Whitewater	694	685	757	736	760	489	602	525	623
U. Michigan, Flint	695	1,237	1,448	1,247	752	159	122	276	113
Arkansas Tech U.	696	1,022	961	856	751	417	472	382	632
Benedict C.	697	1,934	1,269	649	745	1,889	1,226	635	725
U. Ana G. Mendez, Cupey	698	3,926	624	818	739	3,579	608	662	598
Roanoke C.	699	954	826	606	738	21	14	18	10
West Liberty U.	699	688	908	738	738	363	514	365	406
U. Minnesota, Rochester	701	636	639	733	730	10	34	122	103
Wheaton C., Wheaton	702	1,751	2,173	1,322	729	50	301	324	148
Denison U.	703	585	577	727	724	253	240	573	608
U. Portland	704	1,061	942	737	718	182	218	94	90
Dordt U.	705	848	920	1,106	696	715	768	1,049	594
Stonehill C.	706	977	1,019	833	695	624	671	674	526
CUNY, Medgar Evers C.	707	2,062	1,397	882	694	1,466	954	588	470
Seattle Pacific U.	708	870	724	643	683	753	647	569	630
Pennsylvania State U., Altoona	709	708	680	714	678	264	134	9	225
Salus U.	710	1,286	854	650	677	1,190	696	450	414
Arkansas C. of Health Education	711	ne	ne	900	672	ne	ne	350	69
Sewanee: U. of the South	712	676	867	864	668	9	34	35	45

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
McNeese State U.	713	416	370	585	664	84	72	54	17
Hendrix C.	714	840	902	649	651	726	805	563	584
Gettysburg C.	715	1,539	1,664	913	648	901	841	320	268
Saint Mary's U. Minnesota	716	680	603	610	640	532	491	554	538
U. Puerto Rico, Aguadilla	717	512	465	562	639	250	235	283	425
Millsaps C.	718	552	243	228	636	327	229	216	631
Maryland Institute C. of Art	719	624	494	618	634	145	96	215	309
Mayville State U.	719	267	292	509	634	267	280	384	513
U. Scranton	721	290	450	595	630	34	127	312	394
Loyola U., Maryland	722	614	663	672	628	318	383	326	339
Salve Regina U.	723	419	495	591	624	415	490	578	624
Clayton State U.	724	ne	330	346	616	ne	298	302	532
Southwestern Oklahoma State U.	725	527	504	484	614	282	218	276	419
Southern Arkansas U.	726	359	329	275	611	147	126	44	422
Stetson U.	726	393	476	670	611	295	372	479	304
SUNY, Farmingdale State C.	728	ne	ne	589	606	ne	ne	166	180
U. Ana G. Mendez, Carolina	729	865	1,099	647	602	391	696	520	489
Kalamazoo C.	730	644 i	635 i	603 i	600 i	233 i	221 i	212 i	225 i
San Juan Bautista School of Medicine	731	754	896	612	598	505	604	202	448
Salish Kootenai C.	732	1,741	1,252	807	596	1,739	1,251	802	596
Indiana U., Southeast	733	588	557	582	591	51	27	15	64
Emporia State U.	734	732	777	594	586	604	611	517	312
Emerson C.	735	2,059	1,145	919	581	308	138	84	198
U. Puerto Rico, Ponce	736	698 i	651	616 i	580	584 i	551	489 i	427
Western Colorado U.	737	491	460	571	559	202	318	403	360
Graduate School of the Stowers Institute for Medical Research	738	ne	ne	416	555	ne	ne	0	0
Indiana U., Northwest	739	200	509	488	553	6	148	176	273
Nicholls State U.	740	496	738	650	551	124	129	86	182
U. Tampa	740	313	489	559	551	41	114	197	124
Cooper Union	742	418	710	501	545	240	213	233	233
Longwood U.	743	388	353	368	544	276	236	312	412
SUNY, Potsdam	744	ne	235	ne	540	ne	135	ne	433
U. North Alabama	745	ne	ne	ne	539	ne	ne	ne	331
Coe C.	746	623	699	561	538	325	353	368	330

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed					
		2018	2019	2020	2021	2018	2019	2020	2021		
Lawrence U.	747	439	508	423	536	83	81	165	248		
Southern Oregon U.	748	660	424	493	534	351	235	237	312		
Rollins C.	749	668	626	414	533	137	160	165	165		
Eastern Illinois U.	750	743	700	540	529	398	408	256	289		
Bridgewater State U.	751	190	331	345	522	56	15	198	363		
Montana State U., Billings	751	593	545	399	522	432	435	312	429		
U. Houston system administration	753	971	965	514	513	0	0	0	0		
Hartford International U. for Religion and Peace	754	ne	ne	345	512	ne	ne	0	0		
Minot State U.	754	418	251	253	512	391	238	125	439		
Niagara U.	756	2,523	2,057	1,124	509	334	355	24	34		
Bluefield State C.	757	443	595	485	506	435	593	483	501		
Point Loma Nazarene U.	758	350	265	237	505	39	28	162	126		
Lake Erie C. of Osteopathic Medicine	759	704	565	472	502	0	0	0	0		
U. West Georgia	760	397	508	483	500	i	211	236	220	233	i
U. South Carolina Upstate	761	ne	257	437	496	ne	154	133	216		
U. Central Missouri	762	315	415	401	495	204	219	250	296		
Hamline U.	763	ne	ne	ne	493	ne	ne	ne	320		
Illinois C. of Optometry	764	179	326	478	490	80	98	97	13		
Georgia Gwinnett C.	765	522	610	478	489	308	377	338	372		
Simmons U.	766	386	472	604	487	203	293	566	466		
Loyola U., New Orleans	767	461	443	338	476	83	140	4	93		
Regis U.	767	780	706	311	476	611	543	156	328		
Oakwood U.	769	766	i	666	538	474	493	i	401	375	463
Oglala Lakota C.	770	692	683	516	473	692	683	506	473		
Ohio Northern U.	771	405	316	348	471	213	195	242	431		
Utica C.	772	420	598	549	466	0	0	0	0		
Claremont School of Theology	773	390	431	443	i	464	i	0	0	0	i
Cornell C.	773	423	397	i	370	464	235	232	i	228	264
Elmhurst U.	773	154	224	209	464	48	165	209	459		
Louisiana State U., Shreveport	776	707	572	494	462	547	366	321	273		
Minnesota State U., Moorhead	776	327	209	169	462	56	50	89	222		
Jacksonville U.	778	237	365	459	460	0	0	0	0		
A. T. Still U. of Health Sciences	779	1,492	644	656	448	788	434	462	257		
C. of the Holy Cross	780	612	477	321	445	554	449	308	425		

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Wittenberg U.	780	273	267	297	445	152	122	165	228
Keiser U.	782	480	450	423	443	0	0	0	0
Auburn U., Montgomery	783	227	325	312	442	169	222	192	201
Northwest Nazarene U.	783	686	447	408	442	483	268	178	307
Indiana U., Kokomo	785	405	393	483	441	16	6	20	27
United Tribes Technical C.	785	ne	379	976	441	ne	358	929	405
Concordia U., Wisconsin	787	352	248	293	439	315	222	235	170
Albizu U.	788	ne	ne	3,679	428	ne	ne	3,435	0
Palo Alto U.	788	964	290	417	428	302	157	179	207
Valdosta State U.	790	444	424	496	423	98	102	60	123
Touro C.	791	546	470	439	419	108	137	73	77
Southern California U. of Health Sciences	792	ne	443	420	418	ne	353	339	360
Widener U., Chester	793	534	764	586	417	84	342	277	351
Bradley U.	794	1,274	1,357	851	416	317	515	235	101
Metropolitan State U. of Denver	794	939	574	496	416	528	444	304	263
St. Norbert C.	796	411	354	304	412	31	0	7	177
Iona C.	797	ne	ne	239	411	ne	ne	239	411
Ramapo C. New Jersey	798	401	351	441	408	336	304	379	373
Southwestern U.	798	386	334	261	408	1	4	3	11
Merrimack C.	800	796	1,097	503	407	353	581	306	337
U. Wisconsin-Stout	801	902	668	555	406	521	341	175	27
Ohio Wesleyan U.	802	509	325	323	404	344	239	120	275
Whitworth U.	803	806	421	660	403	367	103	140	91
Lewis-Clark State C.	804	627	599	660	401	366	599	660	349
Governors State U.	805	698	735	508	391	698	735	508	391
Mississippi Valley State U.	805	944	986	653	391	924	977	646	379
Pennsylvania State U., Berks	807	562	273	372	382	489	261	273	293
SUNY, C. Cortland	808	463	527	255	381	258	397	215	340
Juniata C.	809	605	560	937	380	384	365	323	229
St. Bonaventure U.	810	519	1,049	585	378	44	243	265	215
John Carroll U.	811	370	658	522	374	259	480	437	324
Montana State U., Northern	812	258	236	322	372	0	28	125	148
Wilkes U.	812	653	549	968	372	186	104	518	109
Berry C.	814	301	553	646	371	15	217	207	332



TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Pacific Lutheran U.	815	257	342	449	370	54	57	100	147
Pennsylvania State U., Abington	816	ne	ne	ne	369	ne	ne	ne	279
Eckerd C.	817	495	435	406	367	164	162	139	139
Life U.	818	176	207	429	364	0	0	0	0
Luther C.	819	685	451	365	363	107	186	145	154
Susquehanna U.	820	511	368	496	360	138	70	61	20
Eastern New Mexico U., Portales	821	341	292	358	355	335	237	298	323
Western Connecticut State U.	822	646	713	539	353	480	539	347	201
Agnes Scott C.	823	287	229	152	351	125	126	99	152
Northern New Mexico C.	824	844	581	404	350	844	581	404	350
Pontifical Catholic U. Puerto Rico, Ponce	824	150	287	239	350	27	85	125	186
St. Mary's C. Maryland	826	295	369	556	349	114	255	303	124
Bloomsburg U. Pennsylvania	827	727	734	735	348	286	218	389	137
Bryant U.	828	347	353	302	347	220	234	227	280
LeTourneau U.	829	737	239	271	346	95	58	125	217
MCPHS U.	829	600	606	473	346	88	122	192	85
Barry U.	831	436	295	237	343	165	60	9	40
C. Southern Nevada	832	211	232	194	335	211	198	183	327
SUNY, New Paltz	833	668	494	330	329	220	208	149	114
Rider U.	834	1,363	228	170	322	138	68	58	126
Lipscomb U.	835	ne	ne	307	321	ne	ne	206	222
Fairleigh Dickinson U.	836	917	791	656	318	896	767	560	248
Bryn Athyn C.	837	420	305	432	316	0	0	0	0
Concordia C., Moorhead	838	ne	ne	275	308	ne	ne	94	35
D'Youville C.	839	ne	383	382	306	ne	174	174	175
DePauw U.	840	308	308	253	304	43	45	39	89
Austin C.	841	384	376	342	302	68	100	116	85
Whittier C.	842	344	388	248	300	85	75	13	0
Coppin State U.	843	233	243	202	299	153	197	168	212
Saint Martin's U.	843	ne	ne	201	299	ne	ne	147	222
Southern U., New Orleans	845	597	596	310	297	405	401	256	222
McMurry U.	846	ne	ne	ne	296	ne	ne	ne	262
Slippery Rock U. Pennsylvania	847	218	213	390	295	97	57	79	50
Westmont C.	847	240	376	211	295	85	118	174	180

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Converse C.	849	235	317	185	294	169	258	148	241
Kutztown U. Pennsylvania	850	415	464	472	292	311	337	276	159
Muhlenberg C.	851	472	539	398	288	180	194	115	28
Earlham C.	852	451	456	165	287	36	19	11	8
U. Evansville	853	268	350	245	284	136	180	65	144
Northeastern State U.	854	245	432	406	279	173	360	330	179
Jacksonville State U.	855	3,008	2,429	1,244	275	2,794	2,312	1,216	245
Augustana C.	856	284	237	205	271	62	71	56	116
Future Generations U.	857	ne	286	271	270	ne	0	0	0
Lake Forest C.	858	459	416	372	267	145	73	0	0
Manchester U.	859	551	541	286	266	339	333	117	134
Centre C.	860	495	506	376	265	88	88	58	136
Washington and Lee U.	861	ne	241	214	256	ne	201	176	163
Goucher C.	862	328	450	245	255	203	207	207	165
Moravian C.	862	271	273	309	255	7	73	91	90
Pennsylvania State U., Wilkes-Barre	864	ne	ne	ne	250	ne	ne	ne	249
U. Dallas	865	ne	ne	ne	249	ne	ne	ne	5
Bard C.	866	234	235	242	248	63	63	65	67
SUNY, Empire State C.	866	ne	ne	ne	248	ne	ne	ne	0
Georgia C. and State U.	868	154	548	270	247	80	440	160	127
U. North Carolina, Pembroke	869	814	620	344	243	751	599	344	243
East Central U.	870	368	310	251	242	358	264	169	216
Linfield U.	871	326	464	319	239	136	167	149	67
U. West Alabama	871	467	462	465	239	416	390	401	219
Delta State U.	873	489	204	592	238	489	199	592	219
Truman State U.	874	332	285	296	237	71	61	60	46
Eastern Mennonite U.	875	299	209	236	233	282	181	236	151
Southeast Missouri State U.	876	511	372	232	228	248	233	148	212
Pitzer C.	877	808	468	313	225	392	140	0	0
Ouachita Baptist U.	878	368	318	268	217	266	250	234	217
Pennsylvania State U., Greater Allegheny	879	ne	ne	ne	216	ne	ne	ne	77
Alverno C.	880	219	216	237	215	0	0	0	0
Missouri Western State U.	881	500	176	306	214	350	141	276	168
SUNY, Oneonta	881	834	623	214	214	397	428	115	24

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Taylor U.	881	205	225	232	214	14	0	3	9
Gonzaga U.	884	396	187	506	212	112	45	305	107
Baldwin Wallace U.	885	392	221	ne	210	46	10	ne	20
Francis Marion U.	886	258	362	216	207	196	236	75	174
Philander Smith C.	886	426	219	208	207	426	219	208	207
Columbus State U.	888	ne	ne	261	206	ne	ne	93	77
SUNY, Delhi	889	280	634	726	201	147	166	146	132
Texas Chiropractic C.	890	215	212	201	200	0	0	0	0
U. Tennessee, Martin	891	338	363	305	199	105	88	74	22
Northern State U.	892	248	225	240	190	141	128	100	173
Northwest Missouri State U.	892	234	192	239	190	109	76	107	100
Parker U.	892	ne	ne	ne	190	ne	ne	ne	0
Wheaton C., Norton	895	185	240	281	186	185	240	281	186
Alabama C., Osteopathic Medicine	896	ne	370	303	184	ne	75	41	17
Northeast C. of Health Sciences	896	395	334	234	184	2	3	0	0
Delaware Valley U.	898	ne	ne	ne	182	ne	ne	ne	41
St. Thomas U.	899	184	268	160	176	150	138	117	123
New Jersey City U.	900	8,211	5,961	262	169	3,905	3,142	223	169
Eastern Oregon U.	901	562	472	172	162	347	381	150	143
Metropolitan State U.	901	ne	150	156	162	ne	77	80	85
Pennsylvania State U., Lehigh Valley	901	ne	ne	150	162	ne	ne	150	159
U. Southern Indiana	904	298	362	300	161	92	67	55	36
SUNY, C. Old Westbury	905	ne	ne	150	155	ne	ne	83	87
SUNY, Morrisville	905	170	ne	ne	155	0	ne	ne	0
U.S. Coast Guard Academy	905	829	708	398	155	725	565	302	154
Pennsylvania State U., New Kensington	908	ne	ne	ne	152	ne	ne	ne	129
Scripps C.	909	ne	ne	ne	150	ne	ne	ne	73
U. Lynchburg	909	ne	ne	ne	150	ne	ne	ne	86
All other surveyed institutions	-	1,640,041	639,209	582,534	ne	999,069	390,371	357,567	ne

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 (APL), with \$261,789 thousand imputed for total and \$251,135 thousand reported for federally financed R&D expenditures in computer and information sciences in FY 2021. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in

2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

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

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

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

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 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.