

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2021 total: FYs 2018–21

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
All institutions	-	25,774,623	27,267,137	28,001,450	29,884,728	13,393,534	14,173,989	14,707,735	16,138,445
U. California, San Francisco	1	1,531,475	1,526,889	1,579,053	1,637,342	633,646	631,806	634,237	645,077
U. California, Los Angeles	2	879,537	887,293	955,580	1,019,775	367,948	393,177	437,643	502,185
Yale U.	3	632,347	691,959	726,089	779,001	333,155	350,340	367,588	415,334
U. California, San Diego	4	724,886	754,309	765,869	762,778	362,520	372,590	377,281	419,886
U. North Carolina, Chapel Hill	5	668,660	680,788	700,352	733,607	374,638	387,808	398,199	426,102
Duke U.	6	718,370	749,965	717,323	721,730	323,754	355,135	353,311	383,958
Johns Hopkins U. ^a	7	703,372	727,074	736,373	719,743	473,490	478,556	492,957	495,734
U. Texas M. D. Anderson Cancer Center	8	584,317	612,732	654,098	714,145	81,643	80,140	90,726	114,464
Ohio State U.	9	372,386	406,318	422,365	700,303	200,597	211,721	225,112	245,788
U. Washington, Seattle	10	620,609	655,372	660,692	685,723	465,210	486,924	489,241	488,597
U. Pittsburgh, Pittsburgh	11	583,096	641,144	659,733	678,383	373,157	396,027	400,747	421,306
Stanford U.	12	553,597	614,159	572,268	622,630	318,415	349,539	323,047	359,980
U. Michigan, Ann Arbor	13	578,171	632,969	622,140	604,587	315,198	339,982	333,024	333,812
Vanderbilt U. and Vanderbilt U. Medical Center	14	388,100	408,035	441,313	599,247	282,113	287,597	303,327	361,743
Emory U.	15	451,672	524,939	535,117	571,627	216,736	236,157	264,862	307,719
Columbia U. in the City of New York	16	485,235	524,495	531,123	563,787	340,645	379,363	391,314	422,968
U. Colorado Anschutz Medical Campus ^b	17	na	na	na	550,101	na	na	na	357,186
U. Minnesota, Twin Cities	18	410,600	461,261	474,705	514,691	206,667	225,592	231,480	274,027
Washington U., Saint Louis	19	403,124	442,275	465,122	498,196	245,508	264,808	272,506	290,293
Northwestern U.	20	406,467	446,421	451,059	474,272	246,040	270,784	287,948	302,805
New York U.	21	361,753	377,195	389,211	469,714	184,518	196,303	203,772	267,032
U. Southern California	22	428,328	408,849	427,949	468,905	183,001	198,583	215,128	235,884
U. Wisconsin-Madison	23	440,649	472,274	451,868	467,332	171,827	185,312	177,594	185,553
U. Alabama, Birmingham	24	388,367	396,340	409,345	439,145	232,933	246,156	242,728	265,640
Icahn School of Medicine at Mount Sinai	25	339,870	363,092	387,114	428,618	229,460	244,978	272,264	318,922
U. Texas Southwestern Medical Center	26	294,403	310,308	377,001	408,377	125,321	128,317	154,128	156,620
U. Maryland ^c	27	na	378,537	366,476	390,634	na	237,875	215,647	215,882
Cornell U.	28	309,881	336,554	370,944	384,742	117,383	137,876	161,371	185,010
U. Cincinnati	29	317,083	362,786	363,772	380,364	189,481	191,320	223,432	239,842
Baylor C. of Medicine	30	313,453	353,039	374,095	371,964	110,484	137,666	148,425	168,837
U. Utah	31	345,008	321,728	361,988	369,765	182,554	151,742	177,544	186,207
Indiana U., Bloomington	32	282,830	341,217	367,228	369,296	116,415	154,864	162,496	168,420
Uniformed Services U. of the Health Sciences	33	296,793	405,214	315,313	359,418	210,618	288,742	228,596	257,125

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2021 total: FYs 2018–21

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Florida	34	324,898	342,498	327,963	344,705	135,856	143,967	142,251	156,907
U. Pennsylvania	35	270,535	301,611	326,566	329,713	147,038	153,088	153,364	171,402
Rutgers, State U. New Jersey, New Brunswick	36	347,582	294,976	319,113	319,883	152,341	122,619	131,115	165,473
Albert Einstein C. of Medicine	37	297,328	298,824	288,654	301,715	196,457	202,513	204,635	214,619
Oregon Health and Science U.	38	175,814	177,687	265,157	278,801	123,389	134,016	184,045	195,006
U. Iowa	39	255,499	260,702	284,636	278,735	114,237	118,355	123,855	130,852
Boston U.	40	158,951	187,252	208,709	276,870	103,685	118,893	118,255	181,093
U. Chicago	41	192,128	212,930	219,525	254,022	127,596	146,121	163,943	194,258
Case Western Reserve U.	42	277,399	284,229	283,260	252,185	227,254	237,106	231,431	206,937
Wake Forest U.	43	186,333	227,411	232,490	250,518	149,776	161,380	162,023	184,166
U. California, Davis	44	211,803	215,845	229,577	247,406	108,091	113,073	122,802	126,788
U. Illinois, Chicago	45	193,010	207,754	222,385	237,347	107,797	116,209	128,953	139,546
U. Miami	46	214,208	210,762	218,739	215,596	94,426	97,927	98,788	98,956
U. Rochester	47	190,887	194,845	205,158	214,686	130,266	129,064	128,290	137,802
U. New Mexico	48	123,881	113,308	115,028	213,149	77,576	68,059	68,385	156,667
U. California, Irvine	49	151,640	162,497	174,686	190,252	64,948	66,776	78,599	79,591
Texas A&M U., College Station and Health Science Center	50	78,732	77,896	220,948	188,730	26,916	29,277	171,384	139,429
Medical C. Wisconsin	51	148,465	162,969	171,901	185,395	62,164	67,941	75,097	81,557
U. Virginia, Charlottesville	52	152,594	172,559	189,679	172,524	50,344	48,783	57,711	59,905
U. Kansas	53	135,493	142,295	154,245	168,897	54,878	59,800	69,398	83,587
Georgetown U.	54	127,918	136,787	138,679	167,962	64,369	64,256	66,199	99,766
U. Arizona	55	167,652	161,471	160,542	162,748	68,196	61,132	58,241	71,073
SUNY, U. Buffalo	56	165,515	164,551	150,541	154,302	60,158	58,617	59,728	62,571
Wayne State U.	57	148,674	153,084	154,653	146,425	71,133	74,502	74,025	72,186
Virginia Commonwealth U.	58	124,616	121,490	137,007	140,319	56,725	51,872	57,194	60,154
U. Texas Health Science Center, Houston	59	103,889	114,095	118,123	138,943	45,982	51,093	53,123	72,125
Harvard U.	60	136,254	137,745	122,619	133,571	64,248	62,263	54,439	74,024
U. Texas Health Science Center, San Antonio	61	97,257	104,703	112,594	126,181	47,567	54,241	53,745	58,379
U. Arkansas for Medical Sciences	62	92,515	99,586	105,955	122,965	25,404	30,247	31,804	47,652
George Washington U.	63	117,455	121,699	126,901	122,447	81,460	78,924	84,188	83,219
Thomas Jefferson U.	64	84,064	96,914	96,265	117,226	28,675	31,857	32,350	59,891
U. Oklahoma, Norman and Health Science Center	65	98,313	107,128	119,319	116,506	37,111	41,090	43,535	46,790
U. South Florida ^d	66	84,743	83,200	72,093	109,397	19,593	20,003	24,754	33,784
U. Nebraska, Medical Center	67	89,480	90,837	96,786	101,144	32,925	31,791	34,622	39,568

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2021 total: FYs 2018–21

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Massachusetts, Medical School	68	106,512	92,702	94,555	100,911	74,526	62,020	61,778	62,856
Temple U.	69	85,549	95,903	93,790	94,116	56,284	63,267	58,687	62,141
Medical U. South Carolina	70	92,240	99,495	86,364	93,409	38,607	43,635	44,041	48,670
Rush U.	71	72,261	75,399	78,672	92,716	47,961	49,170	51,186	60,853
Pennsylvania State U., University Park and Hershey Medical Center	72	88,833	84,968	90,967	91,303	45,299	46,064	49,889	51,789
Purdue U., West Lafayette	73	64,066	73,660	85,839	88,853	24,261	24,555	29,679	33,916
U. Louisville	74	87,100	82,529	91,134	87,611	30,092	29,886	28,362	29,156
U. Missouri, Columbia	75	51,464	62,918	78,021	79,594	25,048	28,328	35,673	44,407
Dartmouth C. and Dartmouth Hitchcock Medical Center	76	83,026	80,692	83,046	78,745	48,440	43,999	43,926	44,449
U. Kentucky	77	64,652	73,619	77,295	77,779	32,406	40,585	47,572	52,260
U. Connecticut	78	72,241	76,662	64,335	74,770	40,200	43,145	38,304	47,916
U. Tennessee, Health Science Center	79	61,918	74,555	72,349	74,246	26,501	27,654	28,260	33,007
Augusta U.	80	60,286	56,610	60,177	69,850	23,586	22,378	25,747	30,933
U. South Carolina, Columbia	81	57,608	52,099	80,412	69,832	36,380	39,967	43,207	43,436
West Virginia U.	82	62,055	60,670	58,047	69,644	16,777	20,341	18,908	24,940
U. Texas, Austin	83	42,958	56,232	62,010	69,548	21,815	29,182	28,826	36,365
U. Vermont	84	47,413	48,324	64,224	63,210	30,298	31,802	33,364	37,336
SUNY, Stony Brook U.	85	54,660	57,903	59,949	63,040	24,994	25,783	26,694	32,165
Washington State U.	86	40,812	47,568	49,070	59,282	24,820	34,114	32,030	36,732
U. California, Berkeley	87	65,785	61,002	55,230	58,481	34,645	33,036	25,243	26,345
Michigan State U.	88	59,646	65,910	60,154	57,339	26,398	32,480	27,534	28,328
U. Mississippi	89	55,582	60,209	67,047	56,848	29,177	29,781	46,807	39,086
Drexel U.	90	45,559	49,628	47,466	53,152	21,707	26,328	25,113	30,650
Virginia Polytechnic Institute and State U.	91	48,797	49,883	47,236	51,942	16,132	19,397	19,730	21,979
Tufts U.	92	22,399	19,295	31,949	48,230	12,812	14,964	25,561	38,262
Tulane U.	93	37,352	36,399	41,445	46,935	15,257	14,594	16,346	21,498
Brown U.	94	49,630	45,463	41,744	46,024	37,965	34,347	31,743	37,100
U. Hawaii, Manoa	95	54,265	52,177	47,531	45,709	37,714	36,629	32,477	28,587
U. Texas Medical Branch	96	49,895	43,303	42,087	44,920	30,434	27,545	27,779	31,585
U. Puerto Rico, Medical Sciences Campus	97	41,216	44,985	37,081	43,846	30,597	34,541	26,897	32,997
U. California, Office of the President	98	36,393	50,092	40,585	40,336	184	202	123	191
Saint Louis U.	99	27,466	29,373	31,213	37,487	12,719	16,774	15,722	23,081
Arizona State U.	100	26,836	31,611	39,268	37,201	10,933	15,503	15,960	15,101
U. North Texas, Health Science Center	101	29,675	28,110	28,703	36,100	19,949	18,111	18,800	23,830

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2021 total: FYs 2018–21

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Georgia	102	35,091	50,860	32,872	35,774	10,661	10,985	12,548	13,291
Florida State U.	103	25,392	32,890	37,353	35,745	11,696	17,293	19,862	17,927
Morehouse School of Medicine	104	33,215	31,289	29,813	32,637	24,326	22,461	22,500	25,181
U. Montana, Missoula	105	20,846	24,465	25,707	30,176	18,053	19,683	21,652	26,382
Colorado State U., Fort Collins	106	46,652	37,787	24,849	28,615	30,361	24,560	19,151	17,382
SUNY, Upstate Medical U.	107	21,703	22,363	26,810	27,911	11,924	9,786	13,081	12,654
U. Delaware	108	24,182	26,922	28,705	25,483	17,192	19,058	21,603	19,296
U. South Alabama	109	10,269	13,406	18,893	23,884	5,861	8,150	11,871	12,509
Louisiana State U., Health Sciences Center, New Orleans	110	19,849	20,974	23,192	23,148	11,845	14,317	14,392	15,847
SUNY, U. Albany	111	60,653	68,363	32,478	22,998	46,069	51,657	27,935	20,138
U. Texas, Dallas	112	25,181	31,036	29,609	22,215	8,370	11,546	13,568	10,719
Ponce Health Sciences U.	113	7,857	11,390	13,566	22,009	6,386	8,339	11,228	16,996
Howard U.	114	19,482	17,872	18,156	21,927	15,474	13,134	12,922	16,300
Loyola U., Chicago	115	20,136	17,674	18,529	21,272	10,130	9,742	9,898	10,324
Massachusetts Institute of Technology	116	22,812	19,499	20,529	21,012	11,679	14,181	14,516	16,015
U. Nevada, Reno	117	17,682	18,515	19,029	20,341	10,176	9,170	8,277	11,439
Texas Tech U., Health Sciences Center	118	21,383	22,752	21,574	20,173	3,369	3,596	3,500	3,996
U. Texas Rio Grande Valley	119	11,955	17,789	19,143	19,785	4,328	4,808	3,852	3,884
Iowa State U.	120	23,102	26,137	15,103	19,767	5,923	7,414	5,715	6,315
U. Houston	121	22,924	20,004	21,435	19,265	9,597	10,244	10,906	10,820
U. New Hampshire	122	14,602	14,712	15,276	18,883	9,030	9,133	9,845	11,612
U. Louisiana, Lafayette	123	0	51,140	18,497	18,818	0	12,290	8,299	10,130
New Jersey Institute of Technology	124	25,059	24,859	17,662	18,355	22,070	18,422	13,727	6,854
U. Nevada, Las Vegas	125	12,751	20,056	21,019	18,321	6,542	6,120	5,767	4,992
East Carolina U.	126	20,478	32,861	30,285	18,142	5,831	10,963	11,137	7,931
Southern Illinois U., Carbondale	127	20,361	16,778	16,628	17,958	4,314	4,437	3,925	3,907
U. Toledo	128	17,191	20,923	20,743	17,417	8,210	9,880	9,989	10,253
San Diego State U.	129	12,874	15,226	12,357	15,949	8,935	10,733	8,423	11,113
U. Nebraska, Lincoln	130	19,422	18,492	16,883	15,853	8,627	7,719	5,797	6,214
Florida International U.	131	12,635	16,019	13,961	15,751	3,010	3,190	2,603	2,063
U. California, Riverside	132	8,756	10,797	12,788	15,576	5,317	6,568	9,783	12,326
Auburn U., Auburn	133	26,623	28,160	10,995	15,343	2,159	1,615	1,657	1,261
U. Central Florida	134	10,783	17,034	13,876	15,294	2,857	2,848	2,422	4,402
Indiana U.-Purdue U., Indianapolis	135	13,353	14,273	14,127	14,909	4,585	5,579	5,576	5,645

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2021 total: FYs 2018–21

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Rockefeller U.	136	14,412	14,318	14,643	14,694	6,150	5,819	4,473	5,072
U. North Dakota	137	11,708	12,059	14,048	13,774	5,025	5,940	7,807	7,943
CUNY, Graduate School of Public Health and Health Policy	138	7,290	7,388	10,057	13,481	3,757	3,439	6,602	10,700
Marshall U.	139	11,238	10,844	12,186	13,300	5,808	6,218	8,118	7,715
Charles R. Drew U. of Medicine and Science	140	11,490	13,739	13,682	13,228	10,198	10,427	9,863	9,945
Louisiana State U., Health Sciences Center, Shreveport	141	13,849	14,390	13,911	12,906	1,529	2,267	1,658	2,167
Nova Southeastern U.	142	13,414	14,236	13,298	12,827	3,540	4,725	4,572	5,098
U. Missouri, Kansas City	143	7,796	11,919	14,403	12,701	3,513	7,586	9,111	7,427
Montana State U., Bozeman	144	10,054	11,971	10,030	12,186	6,476	8,195	7,076	9,302
Wichita State U.	145	6	57	21	11,491	3	0	9	3,937
Georgia State U.	146	22,235	11,424	13,803	10,926	11,124	9,780	10,882	7,260
Central Michigan U.	147	3,219	2,910	4,390	10,781	1,421	1,046	844	904
Florida A&M U.	148	8,599	7,880	8,427	10,567	7,300	6,874	7,301	9,150
Creighton U.	149	8,887 i	10,406 i	8,797 i	10,453 i	2,429 i	3,497 i	3,209 i	3,874 i
Northeastern U.	150	9,442	10,429	10,384	10,371	4,328	4,454	4,591	4,148
Eastern Virginia Medical School	151	23,540	18,318	10,902	10,181	17,085	13,393	8,927	8,154
U. Tennessee, Knoxville ^e	152	6,020	6,503	9,977	10,025	2,387	3,123	4,173	4,309
U. Texas, Arlington	153	5,317	9,698	9,511	9,984	1,306	3,508	5,042	4,860
U. Massachusetts, Amherst	154	19,867	19,940	10,047	9,953	10,708	12,576	6,464	6,288
U. Alabama, Tuscaloosa	155	3,507	4,869	5,383	8,980	877	1,589	2,364	3,177
CUNY, Queens C.	156	0	0	9,978	8,822	0	0	8,321	7,374
Oregon State U.	157	6,803	8,154	7,447	8,767	4,836	5,839	5,837	7,005
George Mason U.	158	7,286	6,467	7,187	8,558	4,024	2,767	3,326	4,519
Florida Atlantic U.	159	7,705	7,432	7,865	8,431	2,597	3,572	3,380	4,374
New York Medical C.	160	4,188 i	11,126 i	7,585	7,563	4,188 i	6,143 i	3,010	3,308
Clemson U.	161	2,625	5,822	7,465	7,534	1,198	1,387	1,847	2,070
North Dakota State U.	162	15,894	17,936	8,713	7,484	5,834	6,703	5,142	4,987
Ohio U.	163	8,579 i	7,681	7,158	7,371	1,955	2,215	2,501	3,302
SUNY, Binghamton U.	164	8,957	7,085	8,035	7,345	1,222	1,490	1,319	897
Texas Tech U., Health Sciences Center, El Paso	165	8,616	8,856	8,014	7,267	1,411	1,397	1,189	1,017
Brandeis U.	166	0	0	2,047	7,156	0	0	1,318	6,466
Rowan U.	167	4,559	6,652	7,836	6,962	2,919	2,909	3,446	2,798
Loma Linda U.	168	9,898 i	8,895 i	7,892 i	6,889	5,636 i	5,123 i	4,608 i	4,095
Edward Via C. of Osteopathic Medicine	169	7,601	7,225	7,474	6,629	195	749	565	537

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2021 total: FYs 2018–21

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Long Island U.	170	1,541	4,536	5,905	6,428	1,333	1,381	1,103	2,177
Oklahoma State U., Center for Health Sciences	171	2,497	4,390	7,164	6,397	959	848	2,469	1,864
Albany Medical C.	172	6,819	6,792	6,360	6,322	331	607	677	466
U. Massachusetts, Lowell	173	3,551	2,942	5,198	6,255	1,783	945	1,417	2,921
Georgia Institute of Technology	174	4,671	4,846	20,316	6,213	0	0	13,779	141
U. Nebraska, Omaha	175	3,549	2,599	3,445	6,071	2,921	1,989	2,658	5,331
Old Dominion U.	176	4,683	4,708	4,585	5,972	3,397	2,081	2,186	1,537
Roseman U. of Health Sciences	177	3,973	4,176	i 4,380	5,893	18	37	i 56	53
Oklahoma State U., Stillwater	178	10,329	9,576	8,614	5,881	2,222	1,248	1,106	603
Miami U.	179	2,802	4,422	5,586	5,813	214	365	1,085	1,133
U. Texas, El Paso	180	6,979	7,504	6,503	5,638	1,412	1,958	2,007	1,958
Mercer U.	181	5,112	5,294	5,307	5,592	1,181	1,233	1,457	1,892
Marquette U.	182	3,223	4,461	4,570	5,545	840	1,477	1,771	2,391
Northern Arizona U.	183	2,036	2,807	5,180	5,522	497	1,178	3,702	3,033
Texas Tech U.	184	5,879	6,365	5,204	5,392	445	597	570	760
U. Wisconsin-Milwaukee	185	5,547	5,839	6,129	5,344	1,964	2,671	3,092	3,354
U. of Health Sciences and Pharmacy in St. Louis	186	ne	ne	4,835	5,313	ne	ne	3,767	4,063
U. Memphis	187	5,681	5,463	5,192	5,201	1,279	1,053	1,139	1,812
East Tennessee State U.	188	4,282	i 3,405	i 4,145	i 4,923	i 2,092	1,456	2,564	1,907
Southern Illinois U., Edwardsville	189	3,088	1,066	3,799	4,878	741	1,048	961	1,115
Duquesne U.	190	6,461	5,950	6,266	4,846	2,534	2,089	2,181	2,857
U. Colorado Boulder	191	6,593	5,714	5,377	4,708	4,728	3,747	3,939	3,515
Wright State U.	192	7,204	8,004	5,732	4,651	4,265	4,070	3,109	2,968
U. Illinois, Urbana-Champaign	193	19,229	25,462	2,845	4,630	5,617	8,907	722	1,159
Northeast Ohio Medical U.	194	10,236	9,108	6,717	4,451	3,959	3,673	3,274	2,274
Chapman U.	195	2,384	2,578	2,761	4,337	1,240	1,587	1,810	2,377
Midwestern U.	196	3,778	3,950	3,907	4,302	262	491	455	705
U. Missouri, Saint Louis	197	2,069	4,746	5,458	4,141	1,528	2,357	2,591	2,097
Georgia Southern U.	198	1,670	1,507	1,173	4,105	966	774	570	493
U. California, Merced	199	1,845	2,323	1,770	3,956	512	634	539	1,109
U. Wyoming	200	17,664	4,206	i 2,320	3,903	7,804	2,900	2,026	3,205
U. Rhode Island	201	2,714	2,944	2,397	3,849	1,648	1,847	2,339	2,771
U. Central del Caribe	202	4,111	3,953	3,931	3,831	2,937	2,705	2,743	2,492
Yeshiva U.	203	3,302	2,420	2,477	3,830	683	380	486	1,256

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2021 total: FYs 2018–21

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Arkansas, Fayetteville	204	13,844	11,026	3,213	3,825	8,588	5,617	821	1,351
SUNY, C. of Optometry	205	3,120	2,968	3,477	3,460	1,944	1,823	1,688	2,105
U. North Texas, Denton	206	875	1,866	1,354	3,360	0	0	48	209
Winston-Salem State U.	207	305	201	1,716	3,341	305	201	1,366	2,326
Cleveland State U.	208	8,610	6,578	2,797	3,312	6,628	3,819	433	1,215
Morgan State U.	209	93	6	1,931	3,273	0	0	1,764	3,085
U. North Carolina, Greensboro	210	3,249	3,993	3,230	3,206	2,174	2,424	2,032	1,672
Alabama A&M U.	211	5,785 i	4,390 i	2,991 i	3,156 i	3,974 i	2,810 i	1,916 i	2,068 i
U. Colorado Denver ^b	212	na	na	na	3,149	na	na	na	422
Xavier U. Louisiana	213	3,533	2,490	2,859	3,133	2,266	1,180	1,384	1,686
Syracuse U.	214	3,174	3,253	2,785	3,098	851	841	647	752
U. Massachusetts, Boston	215	4,395	3,766	3,320	3,061	1,679	1,403	1,591	2,104
New York Institute of Technology	216	2,381	4,185	2,474	3,050	624	1,900	698	891
Kent State U.	217	1,559	2,281	1,965	2,924	51	110	424	1,459
Philadelphia C. of Osteopathic Medicine	218	2,443	2,368	2,415	2,837	0	0	0	0
Texas Woman's U.	219	1,807	1,435	1,669	2,802	0	229	347	868
Baylor U.	220	2,761	2,127	2,267	2,782	681	1,098	1,255	1,446
Pacific U.	221	2,641	4,463	3,202	2,745	1,252	2,338	1,572	1,212
U. Guam	222	1,928	2,145	2,408	2,741	1,581	1,837	2,034	2,363
Rutgers, State U. New Jersey, Newark	223	80	0	338	2,648	0	0	0	1,484
California Polytechnic State U., San Luis Obispo	224	2,741	2,891	2,899	2,546	2,035	2,207	1,836	2,014
California State U., Long Beach	225	2,524	2,873	2,704	2,499	1,941	2,262	1,784	1,704
Jackson State U.	226	870	881	1,084	2,492	866	855	1,044	2,095
South Dakota State U.	227	4,642	4,896	2,684	2,361	2,252	1,947	1,596	1,482
U. of the Sciences Philadelphia	228	2,133	2,332	2,304	2,355	434	318	254	401
U. Nebraska, central administration	229	2,145	3,259	1,333	2,309	2,145	3,068	1,333	2,309
Delaware State U.	230	197	265	2,777 i	2,245	7	170	305 i	351
U. Southern Mississippi	231	2,101	2,771	2,300	2,235	112	627	608	503
Framingham State U.	232	48	ne	2,060	2,132 i	0	ne	0	0 i
Salisbury U.	233	1,634	1,607	1,995	2,120	77	0	0	0
CUNY, City C.	234	4,277	4,355	4,387	2,112	2,506	2,429	2,024	1,236
U. Oklahoma, Tulsa	235	2,383	2,325	2,633	2,096	864	496	493	260
New England C. of Optometry	236	1,026	1,223	1,150	1,978	837	928	785	1,623
Utah State U.	237	1,173	1,737	2,526	1,966	864	1,398	1,877	1,390

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2021 total: FYs 2018–21

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Texas, San Antonio	238	1,658	1,483	2,014	1,961	734	826	808	928
Rosalind Franklin U. of Medicine and Science	239	2,419	1,386	1,691	1,893	577	630	770	948
Mississippi State U.	240	1,376	1,535	1,738	1,887	126	135	206	734
Montclair State U.	241	1,249	852	1,206	1,735	174	133	300	216
Boise State U.	242	881	955	1,343	1,723	688	670	867	1,345
Northern Illinois U.	243	2,786	3,604	1,854	1,660	406	211	200	336
U. North Carolina, Charlotte	244	2,018	2,424	1,904	1,635	430	728	563	554
Boston C.	245	1,175	1,202	1,576	1,608	858	879	1,062	1,195
U. South Dakota	246	1,997	1,631	1,743	1,576	368	328	504	546
U. Louisiana, Monroe	247	1,483	1,435	1,665	1,559	1,209	1,088	1,379	934
Villanova U.	248	455	601	1,305	1,557	0	0	25	398
Bowling Green State U.	249	236	109	304	1,535	124	67	122	294
Illinois Institute of Technology	250	1,896	1,696	1,023	1,465	947	847	487	662
James Madison U.	251	133	295	631	1,429	0	0	0	19
Eastern Michigan U.	252	292	1,165	1,872	1,406	0	799	1,413	1,073
Oakland U.	253	1,374	1,805	1,603	1,402	567	215	69	232
Northern Kentucky U.	254	0	156	532	1,377	0	138	295	1,044
U. New England	255	2,038	1,870	2,080	1,366	1,402	1,344	1,428	718
Marshall B. Ketchum U.	256	1,451 i	1,430 i	1,357 i	1,351 i	354 i	336 i	323 i	343 i
Brigham Young U., Provo	257	837	1,354	946	1,349	156	482	392	768
U.S. Military Academy	258	200	148	0	1,324	200	148	0	1,324
Pennsylvania State U., Harrisburg	259	12	62	327	1,267	0	0	303	1,239
U. Hawaii, Hilo	260	1,476	746	851	1,263	1,029	591	631	918
Illinois State U.	261	268	646	991	1,249	20	343	684	898
Tougaloo C.	262	2,012	1,170	1,238	1,232 i	2,012	1,170	1,238	1,232 i
San Jose State U.	263	59	3	0	1,224	10	3	0	0
Langston U.	264	211 i	255	1,578	1,219	0 i	0	1,578	434
Grand Valley State U.	265	803	741	1,216	1,205	104	527	673	481
Idaho State U.	266	1,697	1,237	1,477	1,202	899	352	283	188
MGH Institute of Health Professions	267	1,745	1,957	1,587	1,200	1,745	1,957	1,587	1,200
Saginaw Valley State U.	268	883	1,296	1,145	1,199 i	868	1,278	1,083	1,137 i
Portland State U.	269	6,510	9,112	2,224	1,184	5,911	7,816	2,097	1,009
U. Alabama, Huntsville	270	108	887	1,122	1,179	0	6	39	0
St. John's U., New York	271	1,013	926	1,326	1,152	533	539	556	643

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2021 total: FYs 2018–21

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Keck Graduate Institute	272	807	906	930	1,048	404	444	458	548
Ball State U.	273	1,287	1,232	1,171	1,042	500	454	598	608
California State U., East Bay	273	ne	ne	629	1,042	ne	ne	154	482
U. North Carolina, Asheville	275	146	515	718	1,014	0	486	667	939
North Carolina Agricultural and Technical State U.	276	0	0	0	989	0	0	0	989
Purdue U., Northwest	277	722	563	920	945	97	71	131	127
Fayetteville State U.	278	368	368	1,075	930	368	368	0	0
Western Carolina U.	279	168	621	774	927	137	493	621	687
Florida Gulf Coast U.	280	20	66	632	897	20	51	594	892
Carnegie Mellon U.	281	1,082	1,191	824	895	759	885	493	407
Mercyhurst U.	282	ne	783	804	852	ne	283	292	326
National U. of Natural Medicine	283	ne	1,245	1,428	850	ne	760	912	523
Michigan Technological U.	284	1,113	1,460	1,390	849	566	629	399	187
Azusa Pacific U.	285	2,512	736	1,876	848	111	49	116	42
U. Alaska, Anchorage	286	1,757	1,268	129	830	1,523	1,116	0	157
U. Oregon	287	821	115	1,004	817	629	107	4	297
Hampton U.	288	404	983	962	813	404	983	962	813
Oregon Institute of Technology	289	0	859	777	780	0	0	0	42
Southern U. and A&M C., Agricultural Research and Extension Center	290	0	418	662	765	0	0	0	0
California State U., Fresno	291	335	104	572	752	79	9	10	0
U. Wisconsin-Green Bay	292	549	684	649	730	189	262	284	315
Kennesaw State U.	293	748	825	965	725	6	50	315	27
Northeastern Illinois U.	294	944	997	873	724	944	997	873	724
West Virginia School of Osteopathic Medicine	295	ne	ne	669	721	ne	ne	362	359
Skidmore C.	296	1,264	1,071	852	691	1,072	948	730	543
CUNY, C. Staten Island	297	857	628	723	690	0	0	0	502
CUNY, Hunter C.	298	148	242	407	685	142	238	253	308
Middle Tennessee State U.	299	131	34	112	667	79	0	0	12
Western Kentucky U.	300	823	1,134	686	665	77	170	0	180
Tennessee State U.	301	38	167	630	664	36	43	609	644
Western Michigan U. and Homer Stryker M.D. School of Medicine	302	1,368	929	1,136	663	287	100	276	117
Kansas State U.	303	19,289	17,881	752	638	9,103	9,584	752	635
U. Maryland, Eastern Shore	304	7	106	259	635	7	5	259	635

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2021 total: FYs 2018–21

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Gallaudet U.	305	774	409	384	630	699	388	383	368
Des Moines U.	306	81	29	567	592	41	10	0	0
Florida Institute of Technology	307	0	0	0	588	0	0	0	460
U. of the Virgin Islands	308	287	143	1,157	587	287	143	1,157	584
Louisiana State U., Baton Rouge	309	23,984	26,509	928	566	7,566	8,877	527	234
Augustana U.	310	606	483	ne	546	606	483	ne	546
U. of the Incarnate Word	310	160	520	531	546	160	520	531	516
California State U., Fullerton	312	574	553	707	537	451	336	335	192
Dillard U.	313	4,403	506	224	534	4,134	506	2	181
U. North Carolina, Wilmington	314	66	159	481	533	27	108	151	129
Marymount U.	315	ne	ne	ne	531	ne	ne	ne	163
SUNY, Downstate Health Sciences U.	316	185	593	815	524	185	170	283	336
New Mexico State U.	317	626	628	449	492	543	536	397	434
Tarleton State U.	318	3	115	350	482	0	0	0	0
Biola U.	319	411	440	452	480	218	233	240	267
U. Maine	320	44	417	385	466	0	0	0	0
West Chester U. Pennsylvania	321	888	939	613	465	116	126	73	70
Southern Connecticut State U.	322	328	672	907	452	147	144	102	54
Catholic U. of America	323	889	735	667	444	663	541	432	287
Towson U.	324	201	212	295	432	0	13	13	18
William Paterson U.	325	381	598	650	414	0	0	0	9
U. North Florida	326	465	632	481	404	0	0	0	0
U. Nebraska, Kearney	327	130	276	632	394	19	47	327	218
U. Massachusetts, central office	328	381	329	545	392	246	198	403	272
Texas Christian U.	329	1,661	1,527	464	389	1,431	844	124	178
Louisiana Tech U.	330	357	462	449	370	0	67	37	6
Drake U.	331	217	115	ne	362	34	42	ne	45
U. Alaska, Fairbanks	331	6,324	2,751	431	362	5,129	2,517	431	212
Hofstra U.	333	96	26	47	359	8	0	0	0
U. Detroit Mercy	334	36	67	318	353	33	46	18	0
Pace U.	335	510	366	378	342	9	1	19	10
California State U., Sacramento	336	357	356	325	340	14	9	0	0
Haverford C.	337	0	0	0	334	0	0	0	3
U. Texas, Tyler	338	212	693	440	332	149	343	272	222

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2021 total: FYs 2018–21

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Alcorn State U.	339	186	86	108	294	186	81	107	257
U. Central Arkansas	340	539	270	386	293	132	58	115	83
U. San Francisco	341	280	321	195	284	0	0	0	0
SUNY, C. Plattsburgh	342	735	306	465	279	681	281	429	279
Saint John's U.	343	13	13	12	275	0	0	0	0
Naval Postgraduate School	344	0	55	200	270	0	55	200	270
Appalachian State U.	345	19	45	409	269	0	0	64	53
California State U., Los Angeles	346	400	522	257	264	400	490	235	235
Johnson C. Smith U.	347	568	230	246	261	368	230	246	261
C. of Saint Benedict	348	15	15	14	259	0	0	0	10
Colorado School of Mines	349	68	88	132	257	30	88	125	242
U. Akron	350	10	13	183	210	0	0	143	153
U. Dayton	350	346	413	216	210	207	319	172	195
San Francisco State U.	352	63	184	190	205	0	94	42	42
Arcadia U.	353	ne	ne	ne	201	ne	ne	ne	94
South Carolina State U.	354	0	185	192	199	0	185	192	199
Virginia State U.	355	0	9	179	190	0	9	179	190
U. of the Pacific	356	457	381	341	183	393	278	328	172
California State U., Monterey Bay	357	278	262	49	182	205	196	0	138
Elon U.	358	307	268	45	180	0	0	16	0
Savannah State U.	359	38	92	152	178	38	92	152	178
SUNY, Polytechnic Institute	360	0	0	0	175	0	0	0	175
U. Washington, Bothell	360	48	251	297	175	48	203	297	145
Western Washington U.	362	0	0	0	171	0	0	0	0
U. Puerto Rico, Cayey	363	0	353	426	169	0	0	327	169
Franklin and Marshall C.	364	4	58	6	163	0	0	0	92
U. Notre Dame	364	65	139	231	163	0	0	0	0
Texas A&M U.-Corpus Christi	366	38	33	22	162	0	0	0	0
Pepperdine U.	367	11	11	18	161	0	0	0	0
Southeastern Louisiana U.	368	396	138	148	158	359	118	136	139
U. Northern Colorado	369	937	634	311	156	490	179	128	35
California State U., Channel Islands	370	0	6	0	153	0	0	0	141
U. Michigan, Dearborn	371	141	143	261	151	74	103	171	140
Spelman C.	372	130	58	20	149	130	58	20	149

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2021 total: FYs 2018–21

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Smith C.	373	98	17	126	146	0	0	14	79
U. Michigan, Flint	374	126	172	190	144	7	9	118	42
Tennessee Technological U.	375	17	0	96	143	13	0	0	78
U. Tennessee, Chattanooga	376	88	104	193	132	0	0	0	0
Humboldt State U.	377	214	396	246	129	0	0	0	0
California Institute of Technology	378	4,274	2,815	46	128	i	0	46	123
California State U., San Marcos	378	48	372	324	128	47	372	254	100
Loyola Marymount U.	380	0	13	6	127	0	0	0	0
Albany C. of Pharmacy and Health Sciences	381	1,434	348	1,033	125	400	214	827	44
Northern Michigan U.	382	129	320	200	121	0	150	0	0
U. Tulsa	383	17	135	178	118	0	0	28	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	384	123	145	150	116	24	43	45	22
Rhode Island C.	384	58	64	268	116	41	45	0	22
U. Massachusetts, Dartmouth	386	123	106	77	109	0	0	0	0
Lincoln U., Jefferson City	387	0	0	0	107	0	0	0	107
U. Wisconsin-Platteville	388	ne	0	i	0	i	0	i	34
U. Idaho	389	88	169	121	97	58	87	93	29
Ithaca C.	390	ne	ne	303	95	ne	ne	276	78
Clarkson U.	391	507	398	97	93	368	219	54	0
U. Houston-Clear Lake	392	0	0	0	92	0	0	0	0
Occidental C.	393	0	0	0	86	0	0	0	0
Texas A&M U.-Commerce	393	17	87	47	86	0	0	0	0
Northwestern State U. Louisiana	395	186	211	176	82	4	34	1	0
Stephen F. Austin State U.	396	99	97	92	79	4	1	0	0
U. Hartford	397	10	0	101	77	10	0	101	77
C. Charleston	398	177	225	146	76	0	25	0	0
SUNY, C. Brockport	398	47	26	12	76	26	0	0	0
U. San Diego	400	187	219	121	74	46	22	34	9
North Carolina Central U.	401	0	1,087	360	73	0	943	302	1
St. Olaf C.	402	67	75	81	69	0	0	0	0
CUNY, Lehman C.	403	428	0	1	68	274	0	0	68
U. Central Oklahoma	404	0	64	63	i	66	i	59	i
CUNY, Brooklyn C.	405	255	636	i	660	65	245	534	i
California State U., Dominguez Hills	406	24	24	21	64	0	0	0	0

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2021 total: FYs 2018–21

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
DePaul U.	407	29	27	79	60	8	1	0	0
Indiana U. Pennsylvania	408	113	129	144	59	0	0	0	0
U. Southern Maine	408	1	0	74	59	0	0	22	14
U. Wisconsin-Eau Claire	410	37	49	46	58	0	0	0	0
U. Puerto Rico, Rio Piedras	411	4	71	27	49	2	71	27	13
U. West Florida	412	179	88	109	45	7	0	28	11
U. Washington, Tacoma	413	308	10	0	40	218	0	0	0
Furman U.	414	88	52	72	39	79	52	39	26
Arkansas State U., Jonesboro	415	45	28	32	36	0	0	0	0
California State U., Chico	416	6	1	0	35	0	0	0	0
Western U. of Health Sciences	416	1,034	446	323	35	537	41	14	16
Wheaton C., Wheaton	418	72	211	161	33	27	137	142	18
Lamar U.	419	249	563	36	32	15	440	0	0
Central Washington U.	420	33	0	0	31	0	0	0	0
Saint Joseph's U.	421	37	43	35	30	0	0	0	0
Pennsylvania State U., Behrend	422	0	0	0	29	0	0	0	0
Prairie View A&M U.	423	3	0	48	28	0	0	48	28
Providence C.	423	0	0	0	28	0	0	0	28
Youngstown State U.	423	28	31	27	28	0	0	0	20
Fort Lewis C.	426	ne	0	11	25	ne	0	0	0
Stockton U.	426	20	0	44	25	0	0	0	25
Sacred Heart U.	428	ne	ne	ne	24	ne	ne	ne	0
West Virginia State U.	428	85	113	0	24	45	80	0	24
Clafin U.	430	0	0	0	23	0	0	0	23
Fairfield U.	431	0	68	49	22	0	0	0	0
Hope C.	431	10	0	7	22	0	0	0	0
U. Maryland, Baltimore County	431	0	2,446	934	22	0	1,400	142	4
Liberty U.	434	ne	6	26	21	ne	0	0	0
U. Arkansas, Little Rock	434	93	80	35	21	66	53	35	21
Southern U. and A&M C., Baton Rouge	436	5	10	2	19	0	8	0	17
U.S. Air Force Academy	436	0	0	0	19	0	0	0	19
William & Mary	436	12	0	0	19	0	0	0	0
Eastern Kentucky U.	439	79	105	80	18	2	74	44	14
New School	439	0	0	12	18	0	0	12	8

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2021 total: FYs 2018–21

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Sam Houston State U.	441	269	14	18	17	0	0	0	0
Kean U.	442	ne	ne	120	16	ne	ne	0	0
Sonoma State U.	442	ne	ne	45	16	ne	ne	17	12
St. Cloud State U.	442	4	36	78	16	0	0	0	0
C. New Jersey	445	9	ne	8	13	0	ne	0	0
Calvin U.	445	1	16	15	13	0	0	0	0
Indiana U., South Bend	445	9	ne	ne	13	0	ne	ne	0
Winthrop U.	445	2	259	401	13	0	259	401	0
U. Wisconsin-La Crosse	449	8	8	22	12	0	0	0	0
California State U., San Bernardino	450	88	57	9	11	5	5	0	0
U. New Haven	450	0	3	5	11	0	0	0	11
California State U., Stanislaus	452	0	9	6	10	0	0	0	0
Indiana State U.	453	195	133	55	9	61	42	12	8
Oberlin C.	453	44	22	10	9	0	0	0	0
Texas A&M International U.	455	2,578	3,439	220	8	1,339	1,698	123	0
U. Ana G. Mendez, Gurabo	455	101	63	21	8	0	0	0	0
U. Texas of the Permian Basin	455	0	ne	0	8	0	ne	0	0
Pittsburg State U.	458	14	50	69	7	14	50	67	7
Eastern Washington U.	459	27	14	0	6	12	0	0	6
SUNY, Oswego	459	5	5	5	6	0	0	0	0
Trinity U.	459	11	0	6	6	0	0	0	0
Citadel Military C. South Carolina	462	ne	ne	34	5	ne	ne	0	0
CUNY, John Jay C. of Criminal Justice	462	346	81	28	5	54	2	2	5
CUNY, York C.	462	ne	8	9	5	ne	0	0	0
U. Wisconsin-Oshkosh	462	4	4	5	5	0	0	0	0
Santa Clara U.	466	142	6	3	4	142	6	3	4
U. Northern Iowa	466	0	0	1	4	0	0	0	0
Minnesota State U., Mankato	468	6	5	17	3	0	0	0	0
Purdue U., Fort Wayne	468	1,494	15	5	3	284	0	0	0
Coastal Carolina U.	470	0	0	0	2	0	0	0	0
Missouri U. of Science and Technology	470	0	1	1	2	0	0	0	0
Troy U.	470	ne	ne	2	2	ne	ne	0	0
U. North Georgia	470	118	128	67	2	0	74	67	0
U. Wisconsin-Stevens Point	470	18	20	23	2	14	16	19	0

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2021 total: FYs 2018–21

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Willamette U.	470	7	33	12	2	0	0	0	0
Austin Peay State U.	476	0	3	3	1	0	0	0	0
Lafayette C.	476	0	11	1	1	0	0	0	0
U. Illinois, Springfield	476	6	4	0	1	0	0	0	1
All other surveyed institutions	-	863,570	525,065	529,934	0	528,080	340,405	333,448	0

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

^a Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$10,739 thousand imputed for total and \$9,648 thousand reported for federally financed R&D expenditures in health 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.

^b 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.

^c 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.

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

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

Note(s):

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

Source(s):

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