

TABLE 46

Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2019 total: FYs 2016–19

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2016	2017	2018	2019	2016	2017	2018	2019
All institutions	-	679,395	700,329	750,544	769,722	444,294	437,036	456,808	466,937
Johns Hopkins U. ^a	1	55,510 i	59,511 i	78,432 i	85,874 i	53,795	57,633	73,899	83,057
Pennsylvania State U., University Park and Hershey Medical Center	2	34,141	16,451	19,251	25,057	29,484	12,108	15,494	16,418
Harvard U.	3	11,866	20,679	22,908	22,127	8,433	17,272	19,223	18,465
U. Texas M. D. Anderson Cancer Center	4	18,514	23,331	22,075	20,358	5,261	7,405	6,720	7,403
North Carolina State U.	5	23,522	21,909	21,722	20,296	13,032	12,110	13,083	12,331
U. Michigan, Ann Arbor	6	18,405	20,517	18,306	18,478	7,138	7,262	5,839	5,874
U. Texas, Austin	7	9,373	11,704	14,581	17,222	4,822	4,402	6,550	7,122
Iowa State U.	8	12,770	16,481	17,694	16,551	5,995	8,461	9,141	7,940
Brown U.	9	18,807	14,427	12,107	13,225	11,818	11,580	9,140	9,615
U. California, Los Angeles	10	11,456	10,573	13,200	13,118	9,893	9,283	10,906	10,515
Carnegie Mellon U.	11	7,447	11,321	9,308	12,385	4,866	5,466	3,523	3,402
New York U.	12	10,101	9,950	10,475	12,002	7,918	6,833	6,697	7,105
Massachusetts Institute of Technology	13	9,399	7,671	9,888	11,774	6,889	5,309	5,840	6,786
Princeton U.	14	10,166	9,915	11,313	11,703	5,539	5,032	4,687	5,639
Michigan State U.	15	9,830	10,342	12,008	11,394	5,122	5,083	5,577	5,481
Duke U.	16	10,238	9,306	9,766	10,319	8,478	7,491	7,684	7,549
U. Minnesota, Twin Cities	17	9,804	7,464	7,847	9,822	6,769	5,412	5,659	6,349
Rice U.	18	6,687	8,903	9,435	9,477	3,410	4,113	4,338	4,099
Rutgers, State U. New Jersey, New Brunswick	19	16,687	14,386	14,362	9,036	10,895	11,017	10,979	7,363
Texas A&M U., College Station and Health Science Center	20	10,737	8,882	9,201	8,700	6,269	5,827	5,839	5,726
U. California, Berkeley	21	7,496	6,402	8,376	8,177	5,760	4,826	5,815	5,689
Georgia Institute of Technology	22	7,185	7,108	7,543	8,058	2,996	3,167	3,375	4,042
U. Georgia	23	6,500	8,027	6,745	7,666	2,067	3,207	1,817	2,301
Old Dominion U.	24	4,616	4,323	3,994	7,507	3,674	3,123	3,205	4,318
U. Pennsylvania	25	6,173	7,373	5,975	7,432	3,171	2,772	2,308	3,193
U. Chicago	26	6,098	7,564	7,414	6,987	5,295	6,326	6,083	5,781
SUNY, Stony Brook U.	27	8,150	7,463	7,467	6,652	4,842	4,547	4,957	4,756
Ohio State U.	28	6,342	6,583	7,130	6,415	5,417	5,470	5,601	5,053
U. Wisconsin-Madison	29	6,950	5,983	5,825	6,405	4,547	4,086	3,249	3,592
Arizona State U.	30	5,394	5,915	6,571	6,367	3,143	3,797	3,611	2,914
Florida State U.	31	4,745	4,685	5,542	6,202	1,574	1,883	1,920	1,515
U. Washington, Seattle	32	6,088	6,415	5,678	6,102	5,698	6,007	5,102	5,346
Columbia U. in the City of New York	33	3,523	4,600	5,841	5,725	2,882	3,543	3,903	4,347
U. Notre Dame	34	4,419	4,343	4,930	5,663	2,816	2,418	2,980	3,129
U. California, San Diego	35	5,008	5,328	4,478	5,466	3,655	3,662	2,585	2,624

TABLE 46

Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2019 total: FYs 2016–19

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2016	2017	2018	2019	2016	2017	2018	2019
U. California, Irvine	36	4,345	4,273	5,289	5,442	2,775	2,885	3,138	2,698
U. Nebraska, Lincoln	37	6,143	5,770	5,536	5,390	2,036	1,943	1,693	1,321
Boston U.	38	4,003	3,709	4,842	5,236	2,726	2,601	3,113	3,158
Dartmouth C. and Dartmouth Hitchcock Medical Center	39	1,603	5,839	5,892	5,149	926	1,446	501	706
U. Illinois, Urbana-Champaign	40	4,474	5,388	5,669	5,071	3,145	3,777	3,699	3,446
Virginia Polytechnic Institute and State U.	41	2,901	10,281	5,765	5,031	1,060	5,232	2,380	2,355
Stanford U.	42	7,500	6,109	5,505	4,836	6,576	5,212	4,555	4,200
U. Maryland ^b	43	na	na	na	4,685	na	na	na	3,868
Oklahoma State U., Stillwater	44	2,307	3,496	4,886	4,585	292	443	1,483	675
U. Pittsburgh, Pittsburgh	45	3,241	3,320	3,821	4,442	2,065	2,033	2,507	2,775
New Jersey Institute of Technology	46	3,947	3,771	4,200	4,400	1,489	1,523	1,615	1,808
Colorado State U., Fort Collins	47	3,297	3,195	4,240	4,392	2,984	3,067	3,838	4,041
U. Illinois, Chicago	48	5,276	4,526	4,197	4,386	2,700	2,241	2,171	2,357
U. California, Davis	49	4,240	3,901	4,436	4,162	3,581	3,254	3,269	3,249
San Diego State U.	50	3,385	3,450	3,790	4,061	1,222	1,081	1,482	1,274
Yale U.	51	2,393	2,384	2,528	3,831	1,650	1,509	1,774	2,260
U. Utah	52	3,453	3,176	4,496 ⁱ	3,722 ⁱ	3,164	2,894	2,893	2,176
Auburn U., Auburn	53	381	3,094	662	3,706	304	337	413	335
U. Massachusetts, Amherst	54	2,495	2,392	2,429	3,636	1,383	1,599	1,548	2,244
Texas Tech U.	55	4,283	4,176	4,332	3,590	1,003	906	760	324
Kansas State U.	56	1,043	1,143	3,020	3,416	561	503	368	386
U. Tennessee, Knoxville	57	928	1,369	3,372	3,390	777	1,074	1,044	974
Cornell U.	58	2,988	2,797	3,494	3,341	2,251	2,135	2,552	2,268
U. Louisiana, Lafayette	59	1,582	1,537	1,603	3,226	626	583	131	48
Purdue U., West Lafayette	60	6,210	5,922	6,314	3,185	4,455	4,062	4,439	2,081
U. Central Florida	61	2,433	2,678	3,075	3,144	494	548	423	518
U. Houston	62	2,535	2,316	3,387	3,083	1,571	1,720	1,877	2,485
Clemson U.	63	2,217	3,174	4,655	3,052	557	1,344	1,738	1,808
U. North Carolina, Chapel Hill	64	3,552	4,369	3,186	3,049	2,724	3,414	2,836	2,652
Syracuse U.	65	690	2,581	2,815	3,001	352	347	443	542
California State U., Bakersfield	66	66	1,482	1,691	2,952	0	1,297	1,327	2,190
Emory U.	67	2,133	1,961	3,049	2,715	1,249	1,331	2,017	1,975
U. Colorado Boulder	68	2,237	2,434	2,409	2,711	2,206	2,338	2,271	2,626
U. South Florida, Tampa	69	2,441	2,488	2,463	2,685	668	848	638	622
U. Nevada, Reno	70	442	650	1,451	2,609	316	113	267	894
SUNY, Binghamton U.	71	2,307	2,623	2,328	2,468	210	165	109	99

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		2016	2017	2018	2019	2016	2017	2018	2019
Northwestern U.	72	2,293	2,461	2,869	2,461	1,401	1,657	1,891	1,675
U. Arizona	73	2,656	2,749	2,233	2,449	1,870	1,702	1,647	1,942
Kennesaw State U.	74	93	89	1,338	2,427	0	0	0	5
Louisiana State U., Baton Rouge	75	2,063	2,084	2,146	2,419	1,459	1,639	1,714	1,808
Naval Postgraduate School	76	3,081	3,181	2,735	2,394	3,019	2,457	2,344	1,718
U. Connecticut	77	1,586	1,805	2,296	2,362	986	1,014	1,435	1,370
U. Florida	78	1,485	1,203	1,471	2,346	916	711	886	1,497
U. California, Merced	79	1,121	1,021	1,323	2,299	414	629	923	1,587
U. Texas, Arlington	80	2,053	1,835	1,992	2,276	402	603	695	798
Rensselaer Polytechnic Institute	81	1,795	1,878	1,641	2,258	1,169	1,281	1,114	1,469
U. California, Riverside	82	967	1,406	1,689	2,251	681	983	1,048	1,588
U. Delaware	83	1,833	2,030	1,908	2,227	1,629	1,748	1,565	1,743
U. South Carolina, Columbia	84	2,353	1,939	2,131	2,100	1,839	1,393	1,227	1,217
Michigan Technological U.	85	2,114	2,234	2,122	2,085	453	397	272	216
Oregon State U.	86	1,317	1,186	2,003	2,074	705	650	1,418	1,515
Georgia State U.	87	1,336	1,781	1,973	2,045	452	731	969	1,020
George Mason U.	88	1,405	1,892	1,578	1,981	1,039	1,246	938	737
U. Cincinnati	89	2,100	2,278	2,322	1,949	899	1,024	1,156	1,060
U. Texas Rio Grande Valley	90	455	390	268	1,881	429	287	109	151
Marquette U.	91	1,362	1,252	1,686	1,863	934	770	942	1,300
Tufts U.	92	1,975	1,489	1,839	1,811	1,842	1,317	1,483	1,253
U. Wisconsin-Milwaukee	93	1,178	1,442	1,303	1,794	872	1,054	947	1,500
Indiana U., Bloomington	94	2,545	3,031	2,269	1,773	1,389	1,804	1,512	987
Rochester Institute of Technology	95	1,059	1,461	2,115	1,750	894	1,073	1,519	1,257
California Polytechnic State U., San Luis Obispo	96	1,227	1,353	1,361	1,711	680	872	1,188	1,387
U. California, Santa Barbara	96	1,241	1,801	1,234	1,711	1,063	1,457	883	1,035
George Washington U.	98	1,407	1,279	1,154	1,709	761	564	713	1,129
U. Virginia, Charlottesville	99	1,021	1,183	1,582	1,698	792	1,030	884	1,138
U. Kentucky	100	828	903	809	1,685	595	654	529	1,430
U. New Mexico	101	929	807	1,119	1,638	731	674	971	1,542
Kent State U.	102	534	1,387	1,156	1,637	399	335	238	268
Rockefeller U.	103	1,534	1,887	1,474	1,602	228	437	152	331
Montana State U., Bozeman	104	828	562	758	1,565	714	559	750	1,371
California Institute of Technology	105	9,809	1,641	1,475	1,534	7,840	1,141	902	816
U. Southern California	106	1,464	1,218	1,220	1,500	901	898	977	1,077
U. Wyoming	107	5,445	9,542	10,004	1,499	2,528	2,540	2,684	1,426

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Southern Methodist U.	108	918	946	982	1,486	644	822	719	1,037
U. Nevada, Las Vegas	109	607	154	1,550	1,471	102	98	108	14
U. Texas, El Paso	110	1,141	727	668	1,466	768	215	196	1,104
SUNY, U. Albany	111	133	1,376	1,053	1,443	124	183	87	197
U. North Texas, Denton	112	733	316	491	1,409	165	94	113	201
Florida International U.	113	972	1,147	1,162	1,394	115	72	56	111
Wayne State U.	114	1,276	1,177	3,801	1,393	630	966	1,527	1,269
Virginia State U.	115	94	101	650	1,333	17	20	473	1,010
American U.	116	1,890	1,741	1,618	1,319	530	322	328	340
Air Force Institute of Technology	117	635	538	1,092	1,313	505	366	551	691
Mississippi State U.	118	1,026	1,122	1,304	1,310	40	51	120	172
Temple U.	119	1,501	1,466	1,760	1,262	846	807	915	884
U. Montana, Missoula	120	359	307	470	1,256	274	244	391	704
Worcester Polytechnic Institute	121	1,365	1,374	1,684	1,253	727	624	1,009	946
U. Mississippi	122	1,063	910	1,023	1,236	19	19	132	71
U. Missouri, Columbia	123	1,906	2,030	1,660	1,225	1,671	1,662	1,436	1,021
Tuskegee U.	124	21	21	17	1,216	17	17	17	1,216
Vanderbilt U. and Vanderbilt U. Medical Center	125	1,361	1,762	1,739	1,211	1,010	915	953	685
U. Maine	126	154	124	101	1,115	42	58	21	59
Baylor U.	127	605	526	693	1,104	294	221	208	253
SUNY, U. Buffalo	128	857	949	901	1,083	455	623	538	583
U. Texas, Dallas	129	1,117	1,393	866	1,063	570	590	412	683
Clarkson U.	130	630	987	848	1,046	451	562	596	724
U. Massachusetts, Dartmouth	131	875	846	801	1,026	263	282	236	831
San Francisco State U.	132	573	1,104	1,063	1,023	282	259	170	309
Boston C.	133	1,084	1,230	1,113	1,015	814	964	1,008	960
U. Kansas	134	1,593	1,425	1,166	999	1,283	1,322	1,084	924
U. Hawaii, Hilo	135	82	328	646	944	61	230	455	759
U.S. Naval Academy	136	564	701	1,131	936	427	492	786	636
Portland State U.	137	782	1,267	832	933	698	1,159	704	745
Texas State U.	138	582	521	444	908	358	235	110	680
U. Oregon	138	724	954	1,064	908	671	866	898	792
U. North Carolina, Charlotte	140	796	613	976	902	795	599	803	568
U. Memphis	141	1,039	1,015	845	892	770	696	290	298
Virginia Commonwealth U.	142	1,208	1,048	1,085	890	680	693	595	625
Florida Atlantic U.	143	216	357	631	883	115	156	289	363

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		2016	2017	2018	2019	2016	2017	2018	2019
U. Alabama, Birmingham	144	1,157	324	320	876	1,124	316	289	844
North Carolina Agricultural and Technical State U.	145	30	64	493	872	14	29	416	800
Delaware State U.	146	1,407	1,428	561	834	1,255	1,295	418	455
Cleveland State U.	147	1,288	1,786	1,058	823	211	373	430	283
Tulane U.	148	2,077	1,768	1,718	814	1,296	1,006	665	374
Grinnell C.	149	307	181	398	798	44	51	129	89
California State U., Northridge	150	1,210	1,042	1,348	786	1,154	1,042	1,243	777
Northeastern U.	151	1,077	451	927	780	912	317	787	649
U. of the Virgin Islands	152	0	1,054	670	740	0	994	670	740
Utah State U.	153	577	538	791	736	345	312	366	301
Louisiana Tech U.	154	526	684	636	726	170	158	93	168
North Dakota State U.	155	979	901	38	714	23	21	0	0
California State U., San Marcos	156	578	688	572	711	578	688	572	711
U. Iowa	157	835	773	749	710	647	537	456	398
CUNY, New York City C. of Technology	158	ne	ne	239	694	ne	ne	87	138
California State U., San Bernardino	159	1,864	1,576	948	681	1,594	1,193	847	666
Brandeis U.	160	375	650	790	677	307	379	341	424
U. Northern Colorado	161	315	438	535	672	237	331	449	570
Stephen F. Austin State U.	162	2	0	112	642	0	0	82	640
Washington U., Saint Louis	163	519	671	616	639	494	622	578	613
U. Massachusetts, Lowell	164	410	629	972	636	1	147	0	0
U. of the District of Columbia	165	187	282	166	629	187	282	166	629
U. Alabama, Huntsville	166	596	512	500	627	48	59	45	44
West Virginia U.	167	1,129	933	5,106	625	730	571	2,477	493
Washington State U.	168	1,340	777	1,762	622	582	399	1,045	249
California State U., Long Beach	169	617	581	574	621	606	576	562	601
Montclair State U.	169	348	232	593	621	329	185	522	425
Saginaw Valley State U.	171	6	12	199	617	1	2	181	607
Brigham Young U., Provo	172	1,417	1,335	799	614	1,364	1,186	759	562
U. Vermont	173	510	605	327	612	261	398	123	395
Indiana U.-Purdue U., Indianapolis	174	1,083	742	543	610	846	595	444	519
William & Mary	175	339	232	324	601	307	180	278	510
U. Maryland, Baltimore County	176	1,013	1,017	1,467	592	866	879	1,127	371
U. Texas, San Antonio	177	331	371	272	586	169	150	184	135
U. Colorado Denver and Anschutz Medical Campus	178	761	559	313	584	630	539	282	550
Boise State U.	179	432	1,528	1,534	582	326	415	263	393

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U. Miami	180	344	913	992	581	227	509	424	239
CUNY, City C.	181	977	876	733	579	702	682	588	509
Case Western Reserve U.	182	560	671	671	558	497	595	600	485
Wesleyan U.	183	268	297	391	553	120	122	288	472
U. Alaska, Fairbanks	184	260	514	454	507	230	498	428	507
Western Washington U.	185	730	645	669	499	523	292	261	222
Drexel U.	186	553	809	704	497	532	578	636	429
South Dakota State U.	187	435	421	391	488	351	350	267	259
U. Oklahoma, Norman and Health Science Center	188	224	309	377	477	170	258	256	390
CUNY, C. Staten Island	189	567	122	521	i 470	525	75	182	i 222
St. Edward's U.	189	0	450	220	470	0	320	130	450
U. Hawaii, Manoa	191	162	352	363	466	52	241	316	399
Bryn Mawr C.	192	814	606	608	460	282	212	202	73
Vassar C.	193	864	820	1,953	i 428	864	820	1,953	i 424
Missouri U. of Science and Technology	194	166	144	222	421	113	120	174	373
Williams C.	195	239	422	428	419	174	260	262	236
Bucknell U.	196	73	i 78	i 83	418	32	i 31	i 30	222
Wake Forest U.	197	157	168	97	408	155	166	92	158
Loyola U., Chicago	198	495	297	131	405	269	176	63	345
Colorado School of Mines	199	355	569	302	404	274	516	280	397
U. North Dakota	200	0	381	384	383	0	0	0	0
Miami U.	201	414	350	241	376	204	211	114	192
Mount Holyoke C.	202	399	172	162	370	388	172	145	347
Reed C.	202	375	289	275	370	102	56	116	121
Sam Houston State U.	204	418	95	274	368	308	55	230	345
Florida Institute of Technology	205	231	630	365	345	220	608	111	92
Bowling Green State U.	206	1,318	426	408	341	131	188	149	123
California State U., Channel Islands	206	209	58	141	341	147	49	130	283
West Chester U. Pennsylvania	208	173	297	297	340	3	14	64	80
U. Tennessee, Chattanooga	209	129	52	135	335	64	43	24	49
U. Nebraska, Omaha	210	29	183	304	333	15	38	206	219
Morgan State U.	211	646	623	448	328	545	538	420	284
James Madison U.	212	0	24	76	312	0	24	69	154
U. California, Santa Cruz	213	458	481	387	303	291	331	274	267
CUNY, Queens C.	214	222	212	346	302	150	165	299	255
Grand Valley State U.	215	95	203	226	299	68	164	179	234

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		2016	2017	2018	2019	2016	2017	2018	2019
U. Massachusetts, Boston	216	112	188	83	298	56	127	38	40
Illinois State U.	217	903	565	355	296	780	439	264	185
Smith C.	217	350	515	348	296	315	469	276	211
U. New Hampshire	219	173	209	229	291	99	144	164	251
U. Arkansas, Fayetteville	220	201	400	407	286	137	298	277	148
U. San Diego	221	41	77	77	274	39	38	71	241
Pomona C.	222	434	223	274	270	332	131	219	202
Amherst C.	223	222	224	372	267	154	137	255	163
Southern Illinois U., Edwardsville	224	254	402	569	263	79	137	177	199
William Paterson U.	225	20	4	242	257	0	0	0	0
Morehouse C.	226	110	211	222	256	110	211	222	256
Duquesne U.	227	96	17	0	255	21	1	0	131
Franklin and Marshall C.	227	18	176	252	255	18	68	115	126
Fordham U.	229	63	210	228	242	0	37	60	58
Creighton U.	230	239	222	192	237	157	117	82	118
Stevens Institute of Technology	230	164	287	258	237	154	93	39	0
U. Minnesota, Duluth	232	366	401	242	236	199	224	165	142
Lincoln U., Jefferson City	233	197	226	280	234	197	226	280	234
U. Michigan, Dearborn	234	13	84	136	228	0	47	77	139
Howard U.	235	487	295	225	222	425	185	116	0
Harvey Mudd C.	236	222	154	212	219	152	81	173	151
Hampton U.	237	178	422	413	217	178	422	413	217
Carleton C.	238	354	181	398	216	289	129	62	0
California State U., Fresno	239	549	175	149	214	503	131	115	182
U. Idaho	240	1,029	755	599	213	939	669	487	108
U. Rochester	240	517	302	348	213	353	288	333	194
Illinois Institute of Technology	242	385	785	296	211	361	764	271	210
U. Missouri, Saint Louis	242	82	162	242	211	0	62	176	135
U. North Carolina, Greensboro	244	145	257	271	210	139	241	239	170
Seattle U.	245	174	231	218	206	167	210	202	177
U. New Orleans	246	0	0	40	204	0	0	0	18
Spelman C.	247	59	1	45	202	59	1	45	202
U. Minnesota, Morris	248	14	22	ne	197	0	12	ne	36
Mercer U.	249	0	0	183	194	0	0	0	0
Tarleton State U.	250	0	3	0	192	0	0	0	26
Lehigh U.	251	200	179	167	187	170	160	150	143

TABLE 46

Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2019 total: FYs 2016–19

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2016	2017	2018	2019	2016	2017	2018	2019
Villanova U.	252	157	137	185	186	115	113	160	144
Central Michigan U.	253	90	93	92	183	40	38	45	125
U. Hartford	253	31	27	0	183	31	27	0	183
U. South Dakota	255	157	191	139	181	0	0	0	0
U. Alabama, Tuscaloosa	256	127	99	43	179	114	6	19	154
U. Akron	257	249	533	210	178	160	359	117	119
CUNY, Brooklyn C.	258	206	188	169	176	196	169	152	158
U. Puerto Rico, Mayaguez	258	980	792	752	176	436	409	427	137
CUNY, Baruch C.	260	123	77	134	175	56	42	101	155
U. Puerto Rico, Rio Piedras	261	235	117	145	172	222	110	144	166
Swarthmore C.	262	124	201	123	171	87	171	84	109
Middle Tennessee State U.	263	578	100	353	169	280	63	293	0
Texas Christian U.	263	75	157	123	169	67	135	69	52
Fayetteville State U.	265	167	167	167	167	167	167	167	167
Elon U.	266	80	72	75	161	0	0	0	78
California State U., Stanislaus	267	0	16	16	160	0	15	15	160
New Mexico Institute of Mining and Technology	268	69	82	150	155	63	82	150	155
Central Washington U.	269	68	48	106	154	20	48	79	112
Wright State U.	270	340	369	456	153	213	272	332	116
C. Charleston	271	228	178	63	146	144	95	13	36
Texas Southern U.	272	0	0	32	144	0	0	32	144
Eastern Michigan U.	273	0	258	102	143	0	36	86	105
Southern Connecticut State U.	274	16	0	2	142	0	0	0	0
South Dakota School of Mines and Technology	275	108	93	133	141	73	77	117	126
Ball State U.	276	80	107	139	140	21	13	48	38
Lamar U.	277	10	9	226	132	0	0	44	82
Northern Illinois U.	278	208	164	136	129	190	74	65	52
Clark Atlanta U.	279	0	1	0	128	0	0	0	128
U. of the Incarnate Word	280	ne	ne	140	127	ne	ne	140	127
U. Central Oklahoma	281	184	117	104	126	175	91	86	94
Loyola Marymount U.	282	62	10	29	124	22	0	0	74
Alabama A&M U.	283	244	204	164	123	188	154	119	84
U. Denver	283	210	193	206	123	138	150	124	92
Lafayette C.	285	47	117	292	119	47	115	274	102
U.S. Military Academy	286	1,203	631	400	116	1,203	631	400	116
St. Olaf C.	287	378	312	90	109	355	303	55	87

TABLE 46

Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2019 total: FYs 2016–19

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2016	2017	2018	2019	2016	2017	2018	2019
Wellesley C.	287	32	4	79	109	25	1	55	0
U. Wisconsin-La Crosse	289	109	129	164	107	74	100	143	87
SUNY, Geneseo	290	14	40	100	106	0	30	56	60
U. Wisconsin-Eau Claire	291	50	77	77	105	50	77	52	41
Wichita State U.	291	114	278	265	105	64	230	256	95
Ohio U.	293	118 i	124 i	76 i	101	76	77	15	67
Lewis and Clark C.	294	123	94	108	100	20	6	13	19
Oregon Institute of Technology	295	0	0 i	0 i	99 i	0	0 i	0	14 i
Tennessee State U.	296	339	163	86	98	323	160	79	89
U. Southern Mississippi	297	0	235	315	96	0	22	18	96
CUNY, Hunter C.	298	12	22	24	95	10	7	22	43
U. Texas, Tyler	298	0	83	100	95	0	82	93	76
Pennsylvania State U., Behrend	300	48	56	48	94	20	27	15	18
U. Richmond	301	96	118	103	90	85	114	97	43
Towson U.	302	11	58	48	84	0	0	0	0
U. North Carolina, Wilmington	303	0	46	98	83	0	34	91	80
Grambling State U.	304	311	304	280	82	311	304	260	82
Hobart and William Smith Colleges	305	ne	28	ne	80	ne	0	ne	78
California State U., Dominguez Hills	306	248	50	56	76	196	16	15	21
U. Houston-Downtown	307	134	402	119	75	129	400	111	72
Barnard C.	308	197	90	84	74	190	88	82	66
Claremont McKenna C.	308	143	218	36	74	118	203	18	64
Davidson C.	308	124	31	60	74	0	0	0	12
Oakland U.	311	51	69	22	73	43	61	22	28
Western Michigan U. and Homer Stryker M.D. School of Medicine	311	382	210	159	73	301	124	69	1
Bowdoin C.	313	75	96	65	71	72	86	50	58
Jackson State U.	314	302	251	89	68	230	224	66	47
Texas Woman's U.	314	10	56	19	68	0	0	0	0
U. Colorado Colorado Springs	316	113	108	77	67	110	106	77	66
U. Louisville	316	136	141	104	67	124	131	99	51
C. Wooster	318	ne	215	69	63	ne	205	54	62
Haverford C.	318	19 i	102 i	94 i	63 i	0	80	68	29
Murray State U.	320	38	82	84	62	38	81	83	61
California State U., Chico	321	68	64	124	61	60	64	118	61
CUNY, Medgar Evers C.	321	ne	72	30	61	ne	54	9	51
Northeastern Illinois U.	323	ne	3	37	60	ne	3	37	60

TABLE 46

Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2019 total: FYs 2016–19

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2016	2017	2018	2019	2016	2017	2018	2019
Bethune-Cookman U.	324	ne	ne	48	59	ne	ne	48	59
St. John's U., New York	324	12	8	67	59	9	0	52	53
Norfolk State U.	326	32	122	49	58	0	62	49	58
Georgia Southern U.	327	130	128	105	57	32	24	13	11
Pacific U.	327	20	74	55	57	10	28	0	0
California Lutheran U.	329	ne	ne	ne	56	ne	ne	ne	0
Saint Louis U.	329	135	104	74	56	57	82	20	38
Western Kentucky U.	331	4	129	73	55	0	13	18	48
Lawrence Technological U.	332	0	0	1	53	0	0	0	53
Trinity U.	332	89	100	59	53	70	79	47	39
Benedict C.	334	112	75	95	52	112	75	95	44
West Texas A&M U.	334	93	110	105	52	92	102	93	50
Colgate U.	336	32	27	47	50	0	0	0	0
Eastern Kentucky U.	336	1	14	54	50	0	14	54	50
Purdue U., Fort Wayne	336	76	164	93	50	29	51	26	22
U. Toledo	339	117	80	175	49	37	2	69	29
Texas A&M U.-Corpus Christi	340	49	18	35	47	11	0	0	0
U. Central Arkansas	341	178	56	198	45	8	5	65	10
U. West Florida	341	993	40	35	45	0	9	0	0
Winston-Salem State U.	341	0	0	0	45	0	0	0	45
Central State U.	344	0	121	61	44	0	121	61	44
Drake U.	344	228	104	50	44	228	102	48	37
Oberlin C.	344	44	21	35	44	30	0	0	1
Fairfield U.	347	333	316	40	43	138	98	40	43
U. North Florida	347	14	22	52	43	0	0	0	0
Azusa Pacific U.	349	79	75	99	42	0	0	16	18
California State Polytechnic U., Pomona	349	0	0	291	42	0	0	213	33
U. Maryland Center for Environmental Science	349	0	0	0	42	0	0	0	27
Appalachian State U.	352	0	85	146	41	0	29	0	0
California State U., Sacramento	352	48	34	45	41	0	0	0	5
New Mexico State U.	352	185	223	74	41	124	169	39	8
Southern U. and A&M C., Baton Rouge	355	0	0	16	39	0	0	0	9
Colorado C.	356	83	110	128	38	58	89	104	15
Occidental C.	356	0	0	0	38	0	0	0	38
Rowan U.	358	0	56	23	37	0	0	0	37
U. of St. Thomas (MN)	358	68	73	55	37	68	65	30	17

TABLE 46

Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2019 total: FYs 2016–19

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2016	2017	2018	2019	2016	2017	2018	2019
Fort Valley State U.	360	153	187	0	36	146	169	0	0
U. Tulsa	360	34	95	20	36	29	67	0	0
California State U., Los Angeles	362	0	28	46	35 i	0	28	46	28
CUNY, Graduate Center	363	0 i	0	0	34	0 i	0	0	34
Embry-Riddle Aeronautical U.	364	186	172	21	33	144	0	5	0
Calvin U.	365	66	63	152	32	47	63	139	32
Colby C.	365	16	15	42	32	0	0	0	0
Pennsylvania State U., Harrisburg	365	240	48	30	32	0	1	16	2
Kenyon C.	368	ne	ne	27	31	ne	ne	0	0
Southern Illinois U., Carbondale	368	148	177	74	31	94	106	16	14
U. South Alabama	368	68	81	55	31	43	50	8	17
Bates C.	371	89	13	12	30	61	0	0	11
U. Wisconsin-Stevens Point	371	27 i	28 i	29 i	30 i	11 i	11 i	10 i	10 i
West Virginia State U.	371	0	0	0	30	0	0	0	30
California State U., Fullerton	374	0	7	4	29	0	0	0	0
Trinity C., Hartford	375	38	55	38	28	20	28	24	0
U. Guam	375	0	0	28	28	0	0	28	28
Claflin U.	377	54	16	11	27	34	16	11	27
Indiana State U.	377	0	0	10	27	0	0	10	27
CUNY, Lehman C.	379	132	19	13	26	132	0	0	0
Rider U.	379	28	39	65	26	24	28	29	5
Saint Michael's C.	381	69	73	80	25	63	66	80	25
Central Connecticut State U.	382	321	32	ne	24	0	0	ne	0
Georgetown U.	382	253	245	263	24	153	67	142	24
Augusta U.	384	0	29	0	23	0	0	0	23
Keck Graduate Institute	384	0 i	0 i	21 i	23 i	0 i	0 i	14 i	15 i
Macalester C.	384	1	113	70	23	1	59	0	15
Liberty U.	387	ne	ne	ne	22	ne	ne	ne	0
Pepperdine U.	387	71	64	28	22	0	29	1	0
Indiana U. Pennsylvania	389	6	3	12	20	0	0	0	0
Skidmore C.	389	0	8	10	20	0	0	0	7
U. Portland	389	ne	ne	ne	20	ne	ne	ne	20
U. Washington, Bothell	389	45	0	85	20	0	0	0	20
U. Wisconsin-Platteville	389	ne	23 i	ne	20 i	ne	10 i	ne	8 i
East Tennessee State U.	394	117	75	0 i	19 i	117	75	0	16
Mercyhurst U.	394	0	0 i	ne	19 i	0	0 i	ne	10 i

TABLE 46

Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2019 total: FYs 2016–19

(Dollars in thousands)

Institution	Rank	Total				Federally financed											
		2016	2017	2018	2019	2016	2017	2018	2019								
Northwestern State U. Louisiana	394	13	12	12	19	0	0	0	0								
C. of Saint Benedict	397	23	43	19	18	i	0	0	0	i							
U. Wisconsin-Green Bay	397	28	i	23	i	14	i	18	i	24	i	17	i	6	i	8	i
Union C., Schenectady	397	35	51	22	18	15	33	0	0								
CUNY, York C.	400	ne	ne	ne	17	ne	ne	ne	0								
Florida Gulf Coast U.	400	0	53	22	17	0	53	22	0								
Saint John's U., Collegeville	400	20	38	17	17	i	0	0	0	0	i						
Saint Joseph's U.	400	20	18	14	17	0	0	0	0								
Albion C.	404	ne	20	30	16	ne	0	0	0								
U. Wisconsin-Oshkosh	404	ne	15	i	16	i	16	i	ne	12	i	13	i	12	i		
New Jersey City U.	406	ne	13	15	15	ne	13	15	0								
U. Missouri, Kansas City	407	79	69	230	14	20	18	149	6								
U. San Francisco	407	59	11	8	14	43	7	0	1								
Western Illinois U.	407	ne	1	9	14	ne	0	0	0								
Roger Williams U.	410	40	37	10	13	25	27	10	10								
Texas A&M U.-Commerce	410	3	12	32	13	0	0	0	0								
Biola U.	412	9	i	9	i	9	i	12	i	7	i	7	i	6	i	8	i
Hamilton C.	412	21	35	8	12	7	0	0	0								
Hofstra U.	412	1	8	8	12	0	0	0	0								
U. of Mary Washington	412	ne	ne	17	12	ne	ne	0	0								
Youngstown State U.	412	0	18	18	12	0	18	15	0								
Colorado State U., Pueblo	417	ne	ne	ne	11	ne	ne	ne	11								
East Carolina U.	417	23	15	51	11	19	10	0	0								
Hawaii Pacific U.	417	16	8	24	11	16	8	24	11								
Willamette U.	417	93	95	88	11	92	84	80	0								
Hope C.	421	45	29	28	10	27	22	21	2								
SUNY, Oswego	421	ne	12	14	10	ne	0	0	0								
Florida Polytechnic U.	423	ne	ne	ne	8	ne	ne	ne	0								
Texas A&M International U.	423	148	32	1	8	98	8	0	0								
Kettering U.	425	1	0	17	7	0	0	0	0								
Prairie View A&M U.	425	47	36	26	7	0	0	0	0								
SUNY, C. Brockport	425	9	23	10	7	0	15	0	0								
U. Arkansas, Little Rock	425	10	12	0	7	0	10	0	0								
Western Carolina U.	425	8	7	7	7	0	0	0	0								
Wheaton C., Wheaton	425	ne	15	29	7	ne	0	0	0								
Dickinson C.	431	0	0	ne	6	0	0	ne	0								

TABLE 46

Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2019 total: FYs 2016–19

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2016	2017	2018	2019	2016	2017	2018	2019
Santa Clara U.	431	2	23	0	6	0	19	0	0
U. North Carolina, Asheville	431	0	0	0	6	0	0	0	0
U. North Georgia	431	ne	18	127	6	ne	16	0	0
Bradley U.	435	4	11	19	5	0	0	0	0
CUNY, John Jay C. of Criminal Justice	435	73	6	7	5	36	0	0	0
Eastern Connecticut State U.	435	4	73	80	5	0	0	0	0
Niagara U.	438	17	10	5	4	0	0	0	0
U. Nebraska, Kearney	438	109	2	1	4	34	0	0	0
U. Northern Iowa	438	6	7	10	4	0	0	0	0
Andrews U.	441	ne	ne	ne	3	ne	ne	ne	0
Arkansas State U., Jonesboro	441	29	2	4	3	0	0	0	0
Claremont Graduate U.	441	2 i	2 i	3 i	3	0 i	0 i	0 i	0
Gallaudet U.	441	230	2	0	3	121	2	0	0
Gettysburg C.	441	ne	1	17	3	ne	0	0	0
Kentucky State U.	441	0	0 i	0	3	0	0 i	0	3
Eastern Washington U.	447	0	0	0	2	0	0	0	2
Langston U.	447	0	3 i	2 i	2	0	3 i	2 i	2
U. Detroit Mercy	447	0	169	2	2	0	35	0	0
Northern Michigan U.	450	0	0	17	1	0	0	0	0
Winthrop U.	450	88	47	19	1	83	30	0	0
All other surveyed institutions	-	10,548	11,227	9,620	0	7,316	6,739	5,965	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 \$83,254 thousand imputed for total and \$80,893 thousand reported for federally financed R&D expenditures in mathematics and statistics in FY 2019. 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 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.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2019 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.