

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	44,455,265	1,794,548	2,067,292	25,443,994	466,937	3,691,334	786,985	936,238	364,331	7,667,373	1,236,233
Johns Hopkins U. ^a	1	2,482,130	189,011	37,235	706,853	83,057	306,572	4,191	7,453	44,412	1,100,587	2,759
U. Washington, Seattle	2	992,643	16,374	100,000	664,192	5,346	49,064	7,693	6,874	0	108,560	34,540
U. Michigan, Ann Arbor	3	886,851	4,804	8,070	548,206	5,874	37,944	6,704	91,183	2,032	175,137	6,897
Stanford U.	4	738,957	12,782	7,690	519,870	4,200	71,817	11,686	5,655	0	79,988	25,269
Columbia U. in the City of New York	5	736,536	22,935	61,544	539,940	4,347	29,085	3,758	2,951	0	59,672	12,304
U. North Carolina, Chapel Hill	6	720,613	19,037	11,158	513,100	2,652	24,236	27,887	84,279	23	19,251	18,990
U. Pennsylvania	7	717,359	16,242	1,255	582,252	3,193	38,518	7,085	14,723	57	39,422	14,612
Georgia Institute of Technology	8	716,207	145,305	7,822	15,691	4,042	25,844	1,505	2,412	0	506,061	7,525
Duke U.	9	709,705	5,497	7,079	568,773	7,549	18,436	8,855	19,689	106	72,560	1,161
U. California, San Diego	10	698,925	13,478	120,294	408,818	2,624	47,019	12,280	3,367	1,412	88,846	787
U. Maryland ^b	11	696,880	32,963	46,763	377,610	3,868	82,395	7,917	38,235	2,207	86,168	18,754
U. Pittsburgh, Pittsburgh	12	677,559	6,889	8,568	585,348	2,775	18,857	11,591	2,594	3,411	31,347	6,179
U. California, San Francisco	13	671,047	0	0	632,556	0	38,491	0	0	0	0	0
Harvard U.	14	618,405	12,576	27,835	423,934	18,465	53,614	3,436	25,188	240	45,835	7,282
U. Wisconsin-Madison	15	608,925	13,735	36,615	366,311	3,592	52,807	7,166	19,987	25,264	68,617	14,831
U. California, Los Angeles	16	600,714	8,724	24,970	417,741	10,515	39,856	11,104	9,826	12,516	52,488	12,974
Pennsylvania State U., University Park and Hershey Medical Center	17	600,489	56,256	28,218	134,964	16,418	56,943	28,216	11,862	0	258,324	9,288
Yale U.	18	576,776	4,245	3,053	497,350	2,260	33,736	6,775	1,398	0	24,674	3,285
U. Southern California	19	543,607	118,059	10,664	304,604	1,077	12,667	5,846	25,317	0	52,737	12,636
Washington U., Saint Louis	20	543,508	4,583	5,192	476,233	613	18,746	5,167	532	1,924	18,895	11,623
Cornell U.	21	525,182	19,491	4,796	321,219	2,268	95,625	5,101	9,839	0	63,696	3,147
Northwestern U.	22	502,300	1,459	1,003	370,062	1,675	49,120	2,469	6,433	17,571	47,948	4,560
Ohio State U.	23	497,651	9,151	6,216	289,023	5,053	35,564	6,154	8,342	20,031	85,547	32,570
U. Minnesota, Twin Cities	24	494,549	9,064	8,058	312,158	6,349	33,493	25,727	17,160	194	71,695	10,651
Vanderbilt U. and Vanderbilt U. Medical Center	25	492,808	0	838	391,543	685	14,537	8,303	2,126	0	52,742	22,034

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Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Massachusetts Institute of Technology	26	489,345	43,216	22,382	80,200	6,786	94,635	325	5,668	2,297	230,312	3,524
Icahn School of Medicine at Mount Sinai	27	443,745	0	0	443,745	0	0	0	0	0	0	0
New York U.	28	436,850	8,151	55	335,764	7,105	19,720	24,420	5,936	0	14,986	20,713
Emory U.	29	424,461	113	801	393,978	1,975	15,695	4,279	418	0	6,256	946
U. Colorado Boulder	30	412,691	14,061	119,659	42,813	2,626	99,527	10,775	13,373	2,776	92,099	14,982
U. Texas, Austin	31	407,981	56,350	19,745	70,469	7,122	53,535	9,942	9,604	278	160,506	20,430
U. Alabama, Birmingham	32	398,403	751	702	345,887	844	4,929	4,353	720	0	37,724	2,493
U. Florida	33	387,906	8,507	9,497	261,847	1,497	15,416	6,412	4,981	0	60,844	18,905
U. Illinois, Urbana-Champaign	34	382,206	71,231	5,967	97,918	3,446	48,539	8,307	2,950	573	130,075	13,200
U. California, Davis	35	374,707	5,544	6,459	287,847	3,249	17,554	1,626	10,773	0	37,549	4,106
Texas A&M U., College Station and Health Science Center	36	359,609	10,724	86,781	127,756	5,726	21,954	1,508	9,649	836	77,456	17,219
Case Western Reserve U.	37	357,549	50	567	314,870	485	8,213	613	1,821	16	29,335	1,579
U. Colorado Denver and Anschutz Medical Campus	38	353,021	267	2,178	338,009	550	1,107	1,598	111	33	4,046	5,122
U. California, Berkeley	39	347,601	690	5,638	115,309	5,689	86,349	8,122	6,390	31,947	81,194	6,273
U. Chicago	40	332,776	25,298	8,639	212,983	5,781	43,322	5,466	9,073	0	17,275	4,939
Michigan State U.	41	331,148	8,474	2,983	155,127	5,481	95,267	9,257	9,867	1,410	29,787	13,495
U. Arizona	42	327,025	7,066	13,372	177,953	1,942	74,823	1,610	6,362	4,052	35,880	3,965
Boston U.	43	318,511	5,295	5,898	217,748	3,158	19,469	14,224	1,333	1,528	45,017	4,841
Baylor C. of Medicine	44	309,354	0	0	309,354	0	0	0	0	0	0	0
Indiana U., Bloomington	45	308,586	21,764	1,630	235,383	987	20,230	7,756	10,425	1,077	4,864	4,470
U. Rochester	46	306,551	3,167	2,112	172,698	194	106,520	4,610	175	4,035	11,814	1,226
U. Utah	47	302,585	25,364	15,150	164,525	2,176	31,461	9,100	1,897	119	32,365	20,428
Oregon Health and Science U.	48	298,227	0	0	287,578	0	0	0	0	0	10,649	0
Uniformed Services U. of the Health Sciences	49	297,808	0	0	289,658	0	0	8,150	0	0	0	0
Rutgers, State U. New Jersey, New Brunswick	50	297,609	4,381	11,993	205,955	7,363	17,535	2,785	727	375	35,917	10,578

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Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
California Institute of Technology	51	287,198	10,511	25,436	60,735	816	156,658	0	0	0	24,690	8,352
Colorado State U., Fort Collins	52	284,482	3,761	70,266	144,035	4,041	10,106	3,357	7,399	2,073	31,135	8,309
U. Virginia, Charlottesville	53	276,335	14,945	3,896	167,585	1,138	17,967	4,411	2,098	1,095	43,878	19,322
Scripps Research Institute	54	267,122	0	0	267,122	0	0	0	0	0	0	0
Arizona State U.	55	267,087	11,734	59,778	47,334	2,914	11,735	10,145	22,385	14,850	72,655	13,557
U. Cincinnati	56	252,892	70	339	228,266	1,060	4,724	1,114	2,068	0	12,015	3,236
U. Iowa	57	252,563	2,958	636	192,564	398	21,267	6,336	2,976	31	21,473	3,924
Purdue U., West Lafayette	58	249,831	14,972	3,042	73,576	2,081	20,328	4,017	1,732	148	111,292	18,643
North Carolina State U.	59	228,945	10,351	12,946	70,069	12,331	13,392	1,754	3,151	9,213	91,264	4,474
Utah State U.	60	220,504	1,262	642	27,195	301	4,133	1,630	955	0	183,794	592
U. California, Irvine	61	217,094	10,548	9,510	128,408	2,698	27,916	2,623	1,510	0	24,021	9,860
U. Miami	62	212,023	552	36,297	159,479	239	4,645	7,514	235	0	2,532	530
Virginia Polytechnic Institute and State U.	63	209,607	9,830	2,251	67,390	2,355	14,250	2,046	3,667	281	104,138	3,399
U. Illinois, Chicago	64	208,603	5,679	381	162,930	2,357	9,941	2,901	1,397	633	14,707	7,677
U. Texas Southwestern Medical Center	65	203,544	0	0	203,544	0	0	0	0	0	0	0
Albert Einstein C. of Medicine	66	202,513	0	0	202,513	0	0	0	0	0	0	0
Carnegie Mellon U.	67	197,978	105,289	791	9,677	3,402	10,233	9,163	5,919	3,599	49,854	51
U. Massachusetts, Medical School	68	197,388	0	0	197,388	0	0	0	0	0	0	0
Princeton U.	69	193,453	10,723	15,933	55,044	5,639	54,879	3,443	5,606	0	41,480	706
U. Kentucky	70	192,945	1,639	862	146,907	1,430	6,607	2,678	418	320	28,999	3,085
Woods Hole Oceanographic Institution	71	184,995	0	112,979	0	0	0	0	0	0	72,016	0
SUNY, U. Buffalo	72	182,983	9,268	2,286	102,425	583	7,714	3,371	2,000	0	50,811	4,525
U. South Florida, Tampa	73	181,882	3,184	10,880	105,807	622	5,648	1,094	14,684	0	22,743	17,220
Brown U.	74	178,460	10,694	2,488	94,797	9,615	14,103	6,658	13,087	7,118	17,289	2,611
U. Texas M. D. Anderson Cancer Center	75	176,156	0	0	154,878	7,403	7,922	3,601	2,352	0	0	0
U. Kansas	76	169,694	2,285	3,873	102,440	924	7,110	6,360	4,167	343	14,177	28,015
Oregon State U.	77	168,571	7,304	34,363	68,066	1,515	4,888	1,179	2,723	6,653	36,090	5,790

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U. Hawaii, Manoa	78	167,816	9,899	58,526	66,036	399	17,498	226	1,684	2,387	10,777	384
Wake Forest U.	79	165,702	81	0	163,236	158	1,741	22	38	15	148	263
U. Oklahoma, Norman and Health Science Center	80	164,855	1,354	54,007	66,880	390	12,491	1,250	9,485	0	13,783	5,215
Temple U.	81	161,673	2,818	536	122,159	884	11,881	6,473	1,476	144	3,830	11,472
U. Georgia	82	159,948	1,453	6,855	114,935	2,301	6,362	13,105	5,083	242	6,292	3,320
U. New Mexico	83	159,940	2,616	6,674	96,789	1,542	6,320	5,079	4,231	3,165	30,449	3,075
U. Connecticut	84	159,220	2,815	6,674	94,232	1,370	6,696	11,570	3,749	0	26,390	5,724
Washington State U.	85	158,982	3,520	4,767	86,617	249	18,436	1,003	3,496	393	18,943	21,558
George Washington U.	86	155,697	4,266	213	114,065	1,129	5,610	1,658	8,306	2,718	14,597	3,135
Dartmouth C. and Dartmouth Hitchcock Medical Center	87	154,597	5,230	1,234	110,949	706	6,303	6,723	622	923	21,279	628
U. Dayton	88	153,328	3,453	400	676	0	1,175	0	0	0	146,841	783
Medical U. South Carolina	89	153,226	0	0	153,226	0	0	0	0	0	0	0
Florida State U.	90	149,784	3,787	8,123	31,905	1,515	35,376	9,145	1,564	931	39,126	18,312
Iowa State U.	91	147,866	4,152	1,776	54,905	7,940	25,466	3,913	708	3,440	43,241	2,325
Tufts U.	92	146,630	3,777	120	83,149	1,253	2,102	1,351	2,609	15,584	26,143	10,542
SUNY, Stony Brook U.	93	144,618	7,788	11,996	63,440	4,756	32,009	3,043	868	3,721	15,637	1,360
Virginia Commonwealth U.	94	142,293	1,286	516	101,127	625	2,425	9,805	127	0	9,482	16,900
U. Delaware	95	133,020	4,540	10,066	30,421	1,743	21,923	4,086	6,373	1,524	47,975	4,369
U. Texas Health Science Center, Houston	96	132,647	0	0	132,647	0	0	0	0	0	0	0
Northeastern U.	97	126,762	15,979	3,174	18,983	649	12,859	6,361	3,542	0	61,116	4,099
U. Tennessee, Knoxville	98	123,434	10,706	3,160	11,210	974	16,674	1,444	2,236	7,980	67,165	1,885
U. Missouri, Columbia	99	123,252	3,885	1,212	85,391	1,021	6,389	4,841	176	0	13,466	6,871
Medical C. Wisconsin	100	119,036	0	0	113,007	0	0	0	0	0	6,029	0
U. California, Santa Barbara	101	118,517	6,351	14,799	16,345	1,035	38,560	3,927	816	147	33,589	2,948
Wayne State U.	102	118,043	1,145	154	92,845	1,269	11,130	761	405	0	6,640	3,694
U. Massachusetts, Amherst	103	117,359	16,035	4,021	36,775	2,244	16,405	5,672	1,563	452	26,896	7,296
U. Nebraska, Lincoln	104	109,954	4,828	2,140	48,939	1,321	18,047	5,671	6,886	0	20,375	1,747
U. Texas Medical Branch	105	107,806	0	0	107,395	0	0	0	0	0	411	0
U. Notre Dame	106	106,411	10,201	0	13,259	3,129	29,077	3,138	1,568	1,705	40,258	4,076

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Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2019

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Mississippi State U.	107	104,738	3,822	7,793	35,061	172	3,630	514	18,611	8	33,935	1,192
Tulane U.	108	104,219	1,438	1,478	90,615	374	3,533	1,248	1,331	0	4,170	32
U. South Carolina, Columbia	109	102,992	1,526	983	53,489	1,217	3,103	5,639	6,019	0	16,076	14,940
U. Nebraska, Medical Center	110	102,604	0	0	102,604	0	0	0	0	0	0	0
U. Central Florida	111	99,310	18,069	1,654	11,466	518	18,300	2,320	5,111	0	33,413	8,459
Florida International U.	112	96,912	10,990	7,987	21,908	111	9,893	14,279	4,506	494	19,899	6,845
U. Texas Health Science Center, San Antonio	113	96,502	0	0	96,502	0	0	0	0	0	0	0
George Mason U.	114	96,307	28,895	9,912	9,658	737	4,738	2,162	3,999	0	31,276	4,930
Georgetown U.	115	94,050	2,137	0	77,391	24	5,133	1,456	6,863	0	0	1,046
U. Alaska, Fairbanks	116	92,964	590	50,566	10,218	507	9,634	0	941	9,859	9,090	1,559
SUNY, U. Albany	117	92,709	2,709	6,728	71,179	197	3,545	927	5,428	0	512	1,484
U. Vermont	118	90,405	1,636	606	74,193	395	1,925	1,310	1,002	4,121	5,190	27
U. New Hampshire	119	90,241	526	36,870	27,400	251	1,859	1,517	3,890	0	12,286	5,642
New Jersey Institute of Technology	120	89,846	3,885	0	19,806	1,808	8,044	0	0	51	53,994	2,258
Montana State U., Bozeman	121	88,955	1,104	4,215	33,739	1,371	9,841	98	310	4,928	25,349	8,000
Louisiana State U., Baton Rouge	122	88,721	4,051	7,883	47,731	1,808	12,967	213	1,157	101	11,587	1,223
U. Louisville	123	87,563	112	106	71,330	51	1,827	619	1,128	0	8,248	4,142
Drexel U.	124	85,278	2,827	0	51,968	429	1,611	2,436	1,905	338	20,443	3,321
U. Alabama, Huntsville	125	85,211	28,023	12,920	681	44	9,213	0	1,851	0	31,957	522
Rockefeller U.	126	84,566	0	272	81,326	331	2,637	0	0	0	0	0
Rice U.	127	83,584	10,013	1,929	8,245	4,099	17,279	2,524	701	534	37,781	479
West Virginia U.	128	82,353	1,103	6,255	39,527	493	9,683	1,380	663	381	19,835	3,033
Kansas State U.	129	81,269	1,637	1,259	46,819	386	9,827	4,576	720	1,151	12,503	2,391
U. California, Riverside	130	81,151	7,221	4,237	31,966	1,588	12,908	2,997	836	1,696	16,217	1,485
Clemson U.	131	81,080	2,663	0	18,084	1,808	6,692	235	3,458	0	39,395	8,745
U. Oregon	132	80,083	3,738	4,038	29,759	792	8,572	13,714	1,807	987	505	16,171
Thomas Jefferson U.	133	74,816	0	0	74,816	0	0	0	0	0	0	0
U. California, Santa Cruz	134	74,669	1,910	12,725	15,946	267	15,755	316	1,069	79	25,568	1,034
U. Mississippi	135	73,865	42	614	57,460	71	9,706	0	86	0	4,752	1,134

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Cold Spring Harbor Laboratory	136	73,854	0	0	73,854	0	0	0	0	0	0	0
U. Rhode Island	137	73,080	687	32,874	18,557	0	2,269	514	1,154	6,529	7,329	3,167
Georgia State U.	138	70,185	1,885	681	33,247	1,020	11,524	2,741	3,784	0	0	15,303
Rush U.	139	68,941	0	0	66,527	0	0	2,414	0	0	0	0
U. Houston	140	68,523	3,033	2,213	18,470	2,485	6,147	9,647	569	446	23,838	1,675
Auburn U., Auburn	141	64,333	1,505	1,026	24,883	335	6,107	396	2,837	877	25,694	673
U. Arkansas for Medical Sciences	142	63,498	0	0	63,498	0	0	0	0	0	0	0
U. Nevada, Reno	143	62,903	2,858	6,263	31,278	894	4,815	3,400	2,342	332	8,785	1,936
New Mexico State U.	144	58,022	2,296	2,797	15,987	8	18,114	196	459	124	17,202	839
U. Maryland, Baltimore County	145	56,993	4,989	10,807	9,297	371	14,774	1,374	7,192	1,074	4,862	2,253
U. Montana, Missoula	146	55,566	945	2,967	40,114	704	5,718	416	2,055	0	0	2,647
Naval Postgraduate School	147	54,358	6,843	5,268	1,939	1,718	7,594	0	3,663	2,019	20,124	5,190
U. Wyoming	148	52,082	336	5,473	29,891	1,426	1,750	229	405	6,072	6,075	425
U. Idaho	149	51,529	872	2,451	30,467	108	1,249	83	1,625	3,082	8,525	3,067
Cleveland State U.	150	51,475	0	0	38,942	283	488	69	164	0	11,036	493
U. Maine	151	51,049	313	9,385	18,122	59	2,654	67	394	5,224	13,614	1,217
U. Arkansas, Fayetteville	152	50,875	2,008	3,009	21,808	148	4,313	222	704	0	14,659	4,004
Rensselaer Polytechnic Institute	153	50,448	5,853	1,111	3,609	1,469	4,304	2,406	186	0	28,307	3,203
U. North Dakota	154	49,700	45	3,056	13,647	0	977	149	151	526	28,684	2,465
Colorado School of Mines	155	49,603	2,593	4,981	1,799	397	7,404	0	353	0	31,066	1,010
U. Texas, Dallas	156	48,466	4,763	167	13,916	683	7,812	4	563	23	19,512	1,023
Augusta U.	157	47,031	23	0	46,970	23	0	0	15	0	0	0
U. Southern Mississippi	158	46,924	440	21,324	6,662	96	9,357	0	4,522	0	3,286	1,237
U. Tennessee, Health Science Center	159	42,396	0	0	42,347	0	0	0	0	49	0	0
U. Texas, Arlington	160	41,764	2,575	547	5,586	798	7,459	105	75	0	22,053	2,566
Brandeis U.	161	41,475	1,130	0	19,823	424	7,777	2,086	9,093	0	0	1,142
Wright State U.	162	41,428	1,684	161	9,735	116	1,362	2,436	0	0	25,868	66
U. Texas, El Paso	163	41,261	4,796	1,550	12,223	1,104	4,384	1,874	2,076	109	11,995	1,150

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Oklahoma State U., Stillwater	164	39,880	547	554	17,380	675	3,135	2,440	505	1,559	11,962	1,123
San Diego State U.	165	39,515	874	1,433	16,844	1,274	3,377	9,047	912	33	3,801	1,920
SUNY, Polytechnic Institute	166	38,245	0	0	1,406	0	0	0	0	0	36,816	23
U. Alabama, Tuscaloosa	167	37,916	4,439	499	3,525	154	4,785	1,406	2,035	0	16,390	4,683
Syracuse U.	168	37,803	2,621	1,616	5,223	542	9,127	1,996	2,989	413	7,616	5,660
Northern Arizona U.	169	35,980	282	6,805	22,912	0	2,688	480	540	343	1,106	824
Florida A&M U.	170	35,362	1,257	4,945	18,275	0	3,358	225	0	0	4,057	3,245
North Dakota State U.	171	35,322	943	277	17,721	0	3,546	1,232	4,226	3,494	3,254	629
U. Massachusetts, Lowell	172	35,309	4,108	1,218	3,898	0	8,207	862	2,212	0	13,443	1,361
U.S. Air Force Academy	173	35,294	640	0	140	0	2,933	274	2,464	0	28,489	354
San Jose State U.	174	35,143	0	8,618	1,005	0	1,765	19,428	36	1,191	1,029	2,071
Texas Tech U.	175	35,136	1,019	2,843	6,199	324	4,426	912	117	0	14,017	5,279
Michigan Technological U.	176	34,709	588	8,715	1,714	216	728	141	519	66	21,801	221
U. Texas, San Antonio	177	34,588	7,721	617	12,135	135	4,195	662	1,572	0	5,949	1,602
U. Puerto Rico, Medical Sciences Campus	178	34,570	0	29	34,541	0	0	0	0	0	0	0
U. Louisiana, Lafayette	179	34,400	2,169	1,089	18,209	48	336	0	270	3,973	4,247	4,059
Saint Louis U.	180	34,275	412	733	30,144	38	944	317	177	0	1,176	334
CUNY, City C.	181	33,065	656	2,103	5,293	509	6,681	735	0	0	16,998	90
Portland State U.	182	33,055	1,073	1,895	12,530	745	2,356	1,297	1,518	0	4,887	6,754
Boston C.	183	32,475	335	3,209	11,274	960	7,406	2,284	2,549	0	0	4,458
William & Mary	184	31,983	1,852	14,272	1,585	510	4,249	123	4,521	0	0	4,871
Old Dominion U.	185	31,355	1,061	3,290	4,018	4,318	5,260	724	783	0	8,179	3,722
Louisiana State U., Health Sciences Center, New Orleans	186	31,290	0	0	31,290	0	0	0	0	0	0	0
Howard U.	187	29,978	655	248	16,333	0	4,548	1,335	257	0	6,046	556
South Dakota State U.	188	29,683	0	1,485	22,888	259	1,266	122	585	0	2,925	153
Wichita State U.	189	29,634	0	9	2,435	95	851	263	26	0	22,954	3,001
Texas State U.	190	29,614	876	3,137	2,579	680	2,235	138	3,217	18	623	16,111
Illinois Institute of Technology	191	28,827	2,760	236	10,066	210	3,253	0	131	36	12,061	74

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Tennessee, Knoxville, Institute of Agriculture	192	28,804	0	0	25,245	0	0	0	0	622	2,937	0
U. Nevada, Las Vegas	193	28,381	643	2,543	12,545	14	4,521	454	238	53	6,161	1,209
Stevens Institute of Technology	194	28,342	3,325	3,202	33	0	1,960	0	0	238	18,945	639
U. Toledo	195	28,273	0	3,474	13,213	29	4,915	0	109	0	6,062	471
Indiana U.-Purdue U., Indianapolis	196	27,349	2,106	518	9,805	519	1,186	3,443	3,599	1,198	3,298	1,677
U. North Texas, Health Science Center	197	27,260	0	0	26,489	0	0	0	771	0	0	0
Mercer U.	198	27,035	0	0	1,677	0	0	0	0	0	25,358	0
SUNY, Downstate Medical Center	199	26,914	0	0	26,914	0	0	0	0	0	0	0
Lehigh U.	200	26,554	1,382	1,004	3,846	143	2,157	376	0	0	15,374	2,272
Rochester Institute of Technology	201	26,359	3,189	0	594	1,257	8,077	11	931	0	8,136	4,164
U. North Carolina, Charlotte	202	26,199	8,286	422	2,720	568	2,977	115	1,984	0	7,845	1,282
U. Massachusetts, Boston	203	25,083	781	2,573	4,620	40	1,745	2,604	3,176	45	533	8,966
Boise State U.	204	24,493	764	2,556	6,384	393	2,420	199	3,032	229	6,377	2,139
SUNY, Binghamton U.	205	24,213	2,607	411	2,526	99	6,111	4,231	1,285	0	6,356	587
Brigham Young U., Provo	206	23,901	1,440	260	4,516	562	4,833	339	839	0	9,188	1,924
North Carolina Agricultural and Technical State U.	207	23,863	1,658	118	7,118	800	1,517	0	0	0	9,713	2,939
Loyola U., Chicago	208	23,562	70	13	20,625	345	913	832	121	0	0	643
CUNY, Hunter C.	209	23,485	1,594	160	3,958	43	3,024	12,178	231	0	0	2,297
U. Wisconsin-Milwaukee	210	23,342	260	1,903	4,503	1,500	7,884	2,893	1,418	11	2,537	433
Worcester Polytechnic Institute	211	22,964	5,023	0	1,087	946	2,006	0	1,347	0	11,735	820
New Mexico Institute of Mining and Technology	212	22,864	1,062	6,235	387	155	1,928	0	0	0	13,004	93
Morehouse School of Medicine	213	22,461	0	0	22,461	0	0	0	0	0	0	0
Missouri U. of Science and Technology	214	22,279	1,197	660	143	373	2,036	7	63	0	17,711	89
SUNY, Upstate Medical U.	215	22,028	0	0	22,028	0	0	0	0	0	0	0

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Denver	216	22,012	111	154	2,505	92	2,869	3,602	1,945	0	1,879	8,855
Air Force Institute of Technology	217	21,856	1,817	876	0	691	4,457	0	0	0	14,015	0
Florida Atlantic U.	218	21,667	1,119	387	9,452	363	1,253	1,358	111	0	7,007	617
Catholic U. of America	219	21,642	0	0	2,174	0	16,992	190	0	91	1,961	234
U. South Alabama	220	19,947	3,256	1,499	12,364	17	355	133	292	0	1,467	564
Eastern Virginia Medical School	221	19,408	0	0	19,408	0	0	0	0	0	0	0
U. North Carolina, Greensboro	222	18,923	0	0	5,771	170	3,019	2,073	494	0	0	7,396
U. Nebraska, central administration	223	18,523	3,634	0	11,875	0	104	0	60	0	1,687	1,163
U. Memphis	224	18,370	6,188	1,605	4,013	298	1,039	1,019	423	0	2,489	1,296
Van Andel Research Institute	225	18,259	0	0	18,259	0	0	0	0	0	0	0
Southern Methodist U.	226	17,869	318	4,100	1,283	1,037	2,499	481	356	0	5,145	2,650
U. Maryland Center for Environmental Science	227	17,476	0	8,301	8,003	27	80	0	73	0	89	903
East Carolina U.	228	17,428	277	851	12,382	0	821	288	450	0	475	1,884
U. North Texas, Denton	229	17,345	1,966	428	2,969	201	2,588	1,592	388	0	5,962	1,251
California State U., Northridge	230	16,939	91	1,393	8,190	777	3,063	419	352	654	604	1,396
Loma Linda U.	231	16,909	0	0	16,909	0	0	0	0	0	0	0
U. California, Merced	232	16,850	157	1,391	3,916	1,587	4,304	44	462	0	4,652	337
Desert Research Institute	233	16,745	0	16,557	188	0	0	0	0	0	0	0
Meharry Medical C.	234	16,443	0	0	16,443	0	0	0	0	0	0	0
Jackson State U.	235	16,259	423	1,794	1,686	47	8,463	69	106	660	2,908	103
San Francisco State U.	236	15,675	143	1,442	8,950	309	1,223	302	1,256	1,153	371	526
U. Puerto Rico, Mayaguez	237	15,653	0	3,975	1,777	137	832	0	40	0	8,892	0
Rutgers, State U. New Jersey, Newark	238	15,397	1,849	2,921	5,847	0	1,444	1,608	394	0	0	1,334
American U.	239	15,229	159	215	605	340	2,922	1,084	7,055	1,382	0	1,467
Tuskegee U.	240	14,825	401	0	6,703	1,216	163	0	2,065	180	4,097	0
Ohio U.	241	14,802	165	351	4,619	67	2,605	1,254	140	0	5,252	349

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Texas A&M U.-Corpus Christi	242	14,451	850	4,273	4,889	0	1,062	0	37	0	2,020	1,320
Western Michigan U. and Homer Stryker M.D. School of Medicine	243	14,399	130	433	2,063	1	723	29	330	0	1,945	8,745
U. Missouri, Kansas City	244	14,327	267	223	6,617	6	1,400	163	82	0	5,349	220
U. Alaska, Anchorage	245	14,219	578	4,476	6,313	0	16	177	896	647	562	554
U. Puerto Rico, Rio Piedras	246	13,943	462	1,932	2,968	166	3,804	13	332	3,956	37	273
U. Texas Rio Grande Valley	247	13,629	205	1,060	8,649	151	1,865	22	196	38	1,134	309
California State U., Long Beach	248	13,579	69	73	4,444	601	4,062	1,425	394	203	2,109	199
North Carolina Central U.	249	13,503	0	233	8,027	0	2,729	0	457	0	789	1,268
CUNY, Queens C.	250	13,457	73	311	9,569	255	1,141	1,207	306	0	0	595
Hampton U.	251	13,390	448	3,779	1,777	217	4,044	25	1,604	0	1,049	447
U. South Dakota	252	13,367	82	17	9,660	0	2,205	66	2	0	1,280	55
Kent State U.	253	13,350	396	412	3,094	268	3,062	2,342	896	246	1,860	774
U.S. Naval Academy	254	12,991	1,176	1,074	0	636	2,654	0	0	0	7,311	140
Marquette U.	255	12,792	0	0	6,572	1,300	1,305	363	40	0	3,033	179
Southern Illinois U., Carbondale	256	12,625	13	557	9,580	14	1,020	13	183	853	392	0
Louisiana State U., Health Sciences Center, Shreveport	257	12,185	0	0	12,185	0	0	0	0	0	0	0
Delaware State U.	258	12,179	0	155	8,139	455	1,615	0	168	186	1,218	243
Rowan U.	259	12,064	131	308	6,069	37	887	194	54	0	4,229	155
U. Hawaii, system office	260	12,052	0	10,531	0	0	0	0	0	1,521	0	0
Morgan State U.	261	11,952	199	3,955	3,939	284	30	61	0	0	3,376	108
Albany Medical C.	262	11,827	0	0	11,827	0	0	0	0	0	0	0
U. Akron	263	11,796	0	171	793	119	3,992	49	56	0	6,447	169
U. West Florida	264	11,506	471	34	296	0	373	0	36	0	0	10,296
Texas Tech U., Health Sciences Center	265	11,345	0	0	11,262	0	0	0	0	0	0	83
New York Medical C.	266	11,061	0	0	11,061	0	0	0	0	0	0	0
U.S. Military Academy	267	10,528	1,687	111	578	116	35	28	78	0	3,799	4,096

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. of the Virgin Islands	268	10,445	309	713	8,079	740	0	0	1	0	61	542
Charles R. Drew U. of Medicine and Science	269	10,427	0	0	10,427	0	0	0	0	0	0	0
Florida Institute of Technology	270	10,352	3,930	612	965	92	1,268	728	0	57	2,391	309
Northeast Ohio Medical U.	271	10,107	0	0	10,029	0	0	0	78	0	0	0
Illinois State U.	272	9,827	17	263	2,873	185	690	0	362	0	0	5,437
Miami U.	273	9,755	411	521	4,944	192	167	819	265	0	361	2,075
California Polytechnic State U., San Luis Obispo	274	9,720	587	1,089	3,672	1,387	1,124	3	146	0	1,566	146
Marshall U.	275	9,617	34	100	8,481	0	462	0	0	0	502	38
Prairie View A&M U.	276	9,346	271	0	5,363	0	407	0	0	22	3,183	100
U. Guam	277	9,339	0	2,620	6,201	28	0	0	255	0	0	235
California State U., Los Angeles	278	9,288	0	0	2,205	28	4,917	0	1,250	0	688	200
South Dakota School of Mines and Technology	279	9,283	4	0	0	126	1,583	0	0	0	7,570	0
California State U., San Marcos	280	9,134	654	0	1,011	711	901	698	898	2,337	797	1,127
U. Baltimore	281	9,103	10	0	0	0	34	0	1,265	0	0	7,794
Embry-Riddle Aeronautical U.	282	8,970	0	307	92	0	1,623	0	313	264	6,291	80
Nova Southeastern U.	283	8,965	216	3,515	4,725	0	0	455	0	0	0	54
Tennessee State U.	284	8,962	317	0	6,743	89	112	361	3	0	824	513
Rosalind Franklin U. of Medicine and Science	285	8,865	0	0	8,765	0	0	100	0	0	0	0
U. Nebraska, Omaha	286	8,807	2,097	0	3,243	219	130	409	874	0	683	1,152
Xavier U. Louisiana	287	8,679	416	0	1,890	0	5,797	47	0	0	376	153
California State U., San Bernardino	288	8,651	1,717	110	1,055	666	1,153	383	128	779	0	2,660
Northern Illinois U.	289	8,610	383	309	601	52	4,280	704	154	0	222	1,905
Clarkson U.	290	8,551	427	0	636	724	652	0	28	0	5,883	201
Texas A&M U.-Kingsville	291	8,419	0	201	5,248	0	129	107	0	2	1,187	1,545
Ponce Health Sciences U.	292	8,339	0	0	8,339	0	0	0	0	0	0	0
Alabama A&M U.	293	8,277	343	0	4,847	84	705	185	223	0	1,581	309

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Creighton U.	294	8,265	432	259	6,159	118	878	126	141	0	0	152
Central Michigan U.	295	8,100	0	86	4,898	125	2,318	250	120	141	162	0
Teachers C., Columbia U.	296	8,054	1,320	0	1,525	0	0	942	4,267	0	0	0
Norfolk State U.	297	8,046	5,010	0	108	58	819	0	0	0	1,940	111
SUNY, C. of Environmental Science and Forestry	298	7,743	2	483	6,664	0	52	0	172	0	259	111
East Tennessee State U.	299	7,688	0	0	7,011	16	249	161	249	0	2	0
Idaho State U.	300	7,547	707	710	1,624	0	2,191	590	197	0	1,203	325
Alcorn State U.	301	7,540	0	0	4,833	0	0	0	2,377	0	330	0
U. Massachusetts, Dartmouth	302	7,353	181	2,297	621	831	216	0	115	0	2,696	396
U. North Carolina, Wilmington	303	7,174	69	1,398	3,558	80	512	297	0	7	484	769
U. Minnesota, Duluth	304	7,143	111	1,993	4,019	142	498	0	0	0	319	61
U. Maryland, Eastern Shore	305	6,983	0	4,369	616	0	1,278	0	720	0	0	0
Baylor U.	306	6,955	0	607	2,096	253	2,033	143	83	230	1,440	70
U. Missouri, Saint Louis	307	6,890	11	0	3,728	135	1,896	81	863	0	0	176
CUNY, Advanced Science Research Center	308	6,859	0	3	3,452	0	2,115	0	0	0	1,289	0
Oakland U.	309	6,690	500	0	3,351	28	1,679	360	52	0	720	0
U. Arkansas, Little Rock	310	6,688	2,517	0	1,693	0	616	0	64	0	1,224	574
Virginia State U.	311	6,636	0	157	4,100	1,010	0	0	54	0	165	1,150
Langston U.	312	6,622	0	0	6,300	2	29	0	0	0	0	291
Louisiana Tech U.	313	6,564	385	0	608	168	403	73	403	0	4,263	261
St. Edward's U.	314	6,500	550	807	2,150	450	400	0	336	200	0	1,607
Tennessee Technological U.	315	6,153	1,417	43	1,092	0	1,042	0	0	0	2,402	157
Bowling Green State U.	316	5,852	110	640	478	123	1,238	303	986	0	0	1,974
California State U., Sacramento	317	5,801	41	802	294	5	199	109	132	213	3,443	563
Chapman U.	318	5,738	72	193	4,091	0	824	0	179	0	0	379
Clark Atlanta U.	319	5,689	383	0	3,859	128	1,135	0	1	0	44	139
U. Texas Health Science Center, Tyler	320	5,626	0	0	5,626	0	0	0	0	0	0	0

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
CUNY, Graduate School of Public Health and Health Policy	321	5,572	0	0	3,933	0	0	1,639	0	0	0	0
U. New England	322	5,269	0	1,080	4,189	0	0	0	0	0	0	0
Missouri State U.	323	5,076	2	33	1,070	0	336	0	290	0	3,176	169
Naval War C.	324	5,060	0	0	0	0	0	0	679	0	0	4,381
CUNY, John Jay C. of Criminal Justice	325	4,971	74	0	156	0	222	688	14	0	0	3,817
U. Detroit Mercy	326	4,936	0	0	4,728	0	0	121	0	0	59	28
Montana Technological U.	327	4,926	0	788	478	0	54	0	0	0	3,606	0
U. Hawaii, Hilo	328	4,924	0	796	2,996	759	128	0	130	115	0	0
Arkansas State U., Jonesboro	329	4,876	259	0	3,346	0	787	18	34	243	180	9
Wesleyan U.	330	4,793	0	314	954	472	1,784	687	0	0	0	582
Kentucky State U.	331	4,692	110	0	4,398	3	0	180	0	0	0	1
Tarleton State U.	332	4,632	0	221	4,293	26	0	0	92	0	0	0
Fisk U.	333	4,615	0	0	4,473	0	0	0	0	0	0	142
West Virginia State U.	334	4,592	0	0	4,282	30	150	0	30	0	34	66
Duquesne U.	335	4,552	0	12	3,265	131	725	4	0	0	179	236
Morehouse C.	336	4,494	914	0	116	256	1,704	61	26	1,350	0	67
DePaul U.	337	4,464	1,515	22	299	0	112	2,373	10	0	0	133
CUNY, Brooklyn C.	338	4,463	248	123	1,509	158	1,123	1,130	34	0	0	138
Fort Valley State U.	339	4,434	101	0	4,228	0	104	0	0	0	0	1
C. Charleston	340	4,395	235	1,064	761	36	787	0	0	806	0	706
California State U., Bakersfield	341	4,376	0	147	92	2,190	313	0	50	0	1,453	131
U. New Orleans	342	4,353	866	969	108	18	1,052	0	708	207	344	81
California State U., Fullerton	343	4,340	0	189	2,270	0	897	60	1	412	288	223
U. Arkansas, Pine Bluff	344	4,299	0	0	3,947	0	352	0	0	0	0	0
National Defense U.	345	4,231	0	0	0	0	0	0	2,155	0	0	2,076
Fordham U.	346	4,218	160	0	995	58	107	1,768	83	0	0	1,047
Montclair State U.	347	4,164	235	825	1,053	425	121	251	140	0	0	1,114
U. Tulsa	348	4,142	1,660	39	357	0	202	38	75	0	1,520	251
Villanova U.	349	4,085	131	405	338	144	1,141	254	0	0	1,543	129

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. North Florida	350	4,017	0	0	307	0	348	0	228	0	360	2,774
Seton Hall U.	351	3,982	0	0	810	0	0	0	0	0	0	3,172
Western Washington U.	352	3,978	93	1,153	249	222	820	124	241	604	336	136
Pacific U.	353	3,917	0	0	2,366	0	283	0	82	0	0	1,186
Florida Gulf Coast U.	354	3,773	27	615	73	0	116	0	57	0	56	2,829
California State U., Monterey Bay	355	3,746	141	785	2,695	0	65	0	60	0	0	0
Sam Houston State U.	356	3,723	0	0	533	345	420	60	958	0	0	1,407
South Carolina State U.	357	3,659	100	0	1,318	0	930	0	0	0	662	649
Wellesley C.	358	3,602	417	154	1,179	0	1,109	0	588	0	0	155
Southern Illinois U., Edwardsville	359	3,561	80	562	1,171	199	390	0	24	50	475	610
California State Polytechnic U., Pomona	360	3,555	216	202	1,279	33	673	0	0	0	728	424
Clark U.	361	3,495	33	410	1,553	0	384	136	973	0	0	6
MGH Institute of Health Professions	362	3,494	0	0	3,494	0	0	0	0	0	0	0
Western Kentucky U.	363	3,391	0	290	1,607	48	1,013	158	10	0	2	263
Tougaloo C.	364	3,380	0	0	1,444	0	849	0	0	0	0	1,087
U. Washington, Bothell	365	3,353	623	310	455	20	215	0	0	31	146	1,553
CUNY, Lehman C.	366	3,342	0	0	0	0	1,495	0	686	0	0	1,161
Rhode Island C.	367	3,332	15	0	555	0	120	17	19	0	0	2,606
U. of the District of Columbia	368	3,283	0	84	1,083	629	0	22	0	0	708	757
Southern U. and A&M C., Baton Rouge	369	3,243	170	0	401	9	646	0	0	0	1,454	563
Texas Southern U.	370	3,238	225	119	1,851	144	179	0	0	590	130	0
New Jersey City U.	371	3,142	150	50	665	0	55	200	0	0	0	2,022
New York Institute of Technology	372	3,135	181	0	2,194	0	0	0	0	0	697	63
U. South Florida, Saint Petersburg	373	3,121	0	0	275	0	61	690	0	0	0	2,095
U. Colorado Colorado Springs	374	3,072	865	68	441	66	68	571	3	21	649	320

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Southern U. and A&M C., Agricultural Research and Extension Center	375	3,057	0	0	3,057	0	0	0	0	0	0	0
Western U. of Health Sciences	376	3,035	0	0	2,573	0	0	0	0	0	0	462
CUNY, Graduate Center	377	3,009	0	0	46	34	330	342	2,033	0	0	224
Dakota State U.	378	3,008	3,006	0	0	0	0	0	0	0	0	2
Ball State U.	379	2,929	365	0	1,120	38	578	76	430	0	0	322
California State U., Fresno	380	2,900	46	10	1,010	182	823	80	327	0	419	3
Smith C.	381	2,892	348	38	1,017	211	389	421	0	0	463	5
Youngstown State U.	382	2,878	9	0	0	0	105	61	36	0	2,667	0
Barnard C.	383	2,871	0	0	356	66	928	1,260	91	0	0	170
Texas Christian U.	384	2,866	26	178	850	52	341	532	232	0	0	655
U. Washington, Tacoma	385	2,808	555	1,443	385	0	0	0	36	32	0	357
U. New Haven	386	2,786	123	0	30	0	300	51	1,797	0	485	0
James Madison U.	387	2,717	47	317	698	154	653	0	25	0	181	642
U. Central del Caribe	388	2,705	0	0	2,705	0	0	0	0	0	0	0
Lincoln U., Jefferson City	389	2,700	0	0	2,319	234	71	0	1	75	0	0
Lamar U.	390	2,641	539	0	440	82	101	0	0	0	442	1,037
Murray State U.	391	2,639	0	17	2,201	61	328	0	0	0	0	32
Pace U.	392	2,579	609	0	477	0	47	0	0	0	404	1,042
Alabama State U.	393	2,577	0	0	2,577	0	0	0	0	0	0	0
U. Southern Maine	394	2,551	0	0	28	0	11	0	2,236	0	0	276
Northwest Indian C.	395	2,520	0	1,043	104	0	0	0	1,054	0	0	319
Central State U.	396	2,517	8	163	1,674	44	63	0	0	225	340	0
U. San Diego	397	2,511	0	150	44	241	928	186	312	0	633	17
Kennesaw State U.	398	2,499	174	0	722	5	721	0	11	0	105	761
Purdue U., Northwest	399	2,493	883	0	110	0	111	0	0	33	376	980
Northeastern Illinois U.	400	2,478	217	131	1,325	60	84	179	82	0	0	400
Middle Tennessee State U.	401	2,473	236	204	972	0	142	0	15	0	3	901
CUNY, C. Staten Island	402	2,421	63	0	177	222	1,310	340	8	0	0	301
U. Tennessee, Chattanooga	403	2,393	462	0	564	49	0	22	70	10	1,216	0

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. South Carolina, Aiken	404	2,379	0	0	610	0	0	0	0	0	1,453	316
Haverford C.	405	2,343	52	160	133	29	1,862	103	0	0	0	4
U. Northern Iowa	405	2,343	0	0	122	0	1,016	0	1,205	0	0	0
Saginaw Valley State U.	407	2,339	1	0	1,278	607	294	0	28	0	124	7
Jacksonville State U.	408	2,312	31	0	14	0	0	0	0	0	22	2,245
Salisbury U.	409	2,290	174	145	4	0	335	0	0	0	0	1,632
Texas Tech U., Health Sciences Center, El Paso	410	2,279	0	0	2,238	0	0	0	0	0	0	41
Skidmore C.	411	2,261	0	743	1,070	7	150	291	0	0	0	0
CUNY, system office	412	2,241	284	148	3	0	0	0	0	0	912	894
Gallaudet U.	413	2,190	463	33	408	0	22	179	0	0	0	1,085
Fayetteville State U.	414	2,168	220	0	1,236	167	200	0	151	0	0	194
Central Washington U.	415	2,159	5	1,650	206	112	182	0	0	0	4	0
U. of the Pacific	416	2,158	0	0	953	0	422	0	0	701	68	14
Towson U.	417	2,144	383	542	503	0	564	0	149	0	0	3
Eastern Michigan U.	418	2,135	7	285	1,349	105	185	0	31	0	9	164
Amherst C.	419	2,118	0	0	757	163	1,124	29	45	0	0	0
Humboldt State U.	420	2,103	0	376	1,556	0	48	0	107	0	16	0
Mount Holyoke C.	421	2,074	226	0	87	347	894	369	151	0	0	0
Winston-Salem State U.	422	2,011	0	0	650	45	320	0	453	0	0	543
Spelman C.	423	2,004	86	0	536	202	595	526	43	0	16	0
U. Northern Colorado	424	1,966	0	72	600	570	20	193	63	0	0	448
U. Louisiana, Monroe	425	1,949	0	307	1,393	0	67	0	182	0	0	0
Toyota Technological Institute, Chicago	426	1,934	1,934	0	0	0	0	0	0	0	0	0
Bowie State U.	427	1,911	508	0	122	0	246	0	0	0	0	1,035
Johnson C. Smith U.	428	1,909	395	90	362	0	66	0	0	0	0	996
Carleton C.	429	1,891	73	1,330	108	0	210	145	25	0	0	0
CUNY, New York City C. of Technology	429	1,891	204	209	487	138	315	0	0	0	442	96
Claremont Graduate U.	431	1,886	206	0	0	0	0	584	624	0	0	472
Polytechnic U. Puerto Rico	432	1,884	863	0	0	0	0	0	0	0	1,021	0
California State U., Chico	433	1,864	14	110	458	61	166	0	371	0	179	505
Texas Woman's U.	433	1,864	15	0	604	0	0	58	0	0	0	1,187

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Michigan, Dearborn	435	1,850	0	0	172	139	107	0	0	175	1,129	128
Texas A&M International U.	436	1,847	0	37	1,710	0	0	0	0	64	3	33
U. North Carolina, Asheville	437	1,846	128	126	590	0	418	0	0	0	0	584
Long Island U.	438	1,839	0	26	1,397	0	171	41	0	0	12	192
SUNY, C. of Optometry	439	1,823	0	0	1,823	0	0	0	0	0	0	0
New School	440	1,819	0	373	0	0	0	1,318	0	0	99	29
Indiana U. Pennsylvania	441	1,810	8	481	869	0	128	104	183	0	0	37
Hawaii Pacific U.	442	1,809	0	288	1,159	11	0	0	341	0	10	0
U. Oklahoma, Tulsa	443	1,803	0	0	496	0	0	0	0	0	919	388
Bryn Mawr C.	444	1,801	222	0	212	73	471	67	7	0	0	749
Bowdoin C.	445	1,790	13	356	1,083	58	177	0	90	0	0	13
Georgia Southern U.	446	1,780	94	207	1,024	11	164	0	21	70	174	15
Bucknell U.	447	1,764	24	22	245	222	247	41	2	67	533	361
Western Carolina U.	448	1,736	0	320	682	0	172	0	207	0	269	86
Clafflin U.	449	1,735	447	259	350	27	508	0	0	0	144	0
Savannah State U.	450	1,709	0	633	320	0	63	0	167	0	526	0
Albany C. of Pharmacy and Health Sciences	451	1,692	0	0	1,690	0	0	0	0	0	0	2
St. John's U., New York	452	1,666	86	0	1,284	53	221	22	0	0	0	0
Grand Valley State U.	453	1,663	0	328	845	234	246	10	0	0	0	0
Morehead State U.	454	1,651	0	7	601	0	0	109	0	0	754	180
Harvey Mudd C.	455	1,619	516	0	323	151	160	0	0	29	440	0
Occidental C.	456	1,614	254	480	657	38	177	0	8	0	0	0
Bates C.	457	1,607	47	83	720	11	340	147	259	0	0	0
William Paterson U.	458	1,592	0	211	32	0	0	286	97	0	0	966
Franklin and Marshall C.	459	1,582	46	442	593	126	279	0	94	0	0	2
Alfred U.	460	1,580	0	0	108	0	13	0	0	0	1,459	0
Oberlin C.	461	1,576	130	144	815	1	422	27	37	0	0	0
U. Richmond	462	1,575	0	25	708	43	187	58	524	0	0	30
West Texas A&M U.	463	1,565	24	326	313	50	75	0	13	0	477	287
Middlebury C.	464	1,558	269	256	296	0	410	205	122	0	0	0
Touro U.	465	1,540	0	0	1,540	0	0	0	0	0	0	0

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Swarthmore C.	466	1,539	0	0	468	109	550	0	75	110	55	172
Black Hills State U.	467	1,535	0	0	489	0	371	0	0	0	0	675
U. Wisconsin-Superior	468	1,527	0	25	1,498	0	0	0	0	0	4	0
CUNY, York C.	469	1,511	59	85	340	0	862	42	0	0	89	34
Western Illinois U.	470	1,495	37	3	1,089	0	36	0	0	0	321	9
U. Central Arkansas	471	1,462	320	0	263	10	576	0	0	178	0	115
U. Central Oklahoma	472	1,457	133	0	291	94	657	0	0	102	0	180
Winthrop U.	473	1,438	0	5	359	0	256	0	14	0	0	804
U. Houston-Downtown	474	1,437	49	0	0	72	0	0	9	0	0	1,307
Pennsylvania State U., Behrend	475	1,427	47	899	17	18	33	1	1	0	408	3
Reed C.	476	1,423	117	0	1,031	121	81	47	26	0	0	0
Dillard U.	477	1,390	0	0	920	0	122	0	348	0	0	0
Hope C.	478	1,361	0	0	407	2	824	0	0	0	116	12
CUNY, Baruch C.	479	1,359	0	0	284	155	330	124	365	101	0	0
Santa Clara U.	480	1,333	37	7	456	0	394	12	110	35	215	67
Appalachian State U.	481	1,332	170	266	486	0	211	44	121	0	0	34
Stephen F. Austin State U.	481	1,332	0	25	590	640	0	0	27	0	15	35
U. of the Sciences Philadelphia	483	1,318	0	0	820	0	498	0	0	0	0	0
Northern Kentucky U.	484	1,316	0	0	420	0	448	354	1	0	0	93
Seattle U.	485	1,307	0	37	116	177	50	0	122	0	72	733
Hofstra U.	486	1,296	0	11	360	0	38	0	0	0	506	381
Coastal Carolina U.	487	1,294	82	862	268	0	0	82	0	0	0	0
Christopher Newport U.	488	1,285	0	0	132	0	534	44	0	0	575	0
Fort Lewis C.	489	1,284	0	10	538	0	0	0	34	0	702	0
Colorado State U., Pueblo	490	1,282	0	0	1,220	11	0	0	0	0	51	0
U. Wisconsin-Oshkosh	490	1,282	50	76	707	12	103	27	32	0	230	45
California State U., Dominguez Hills	492	1,261	239	0	162	21	635	78	0	0	0	126
Salish Kootenai C.	493	1,251	0	0	213	0	553	0	0	0	0	485
U. Nebraska, Kearney	494	1,240	0	0	936	0	248	19	24	0	0	13
U. Alaska, Southeast	495	1,235	0	254	625	0	0	0	0	356	0	0
Benedict C.	496	1,226	276	157	139	44	364	0	0	0	246	0

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
SUNY, Buffalo State	497	1,225	0	819	188	0	17	33	146	0	0	22
SUNY, Geneseo	498	1,206	0	140	150	60	663	121	50	0	0	22
Colgate U.	499	1,202	242	363	246	0	278	26	47	0	0	0
SUNY, C. Plattsburgh	500	1,197	0	488	373	0	259	22	0	0	0	55
Indiana State U.	501	1,190	0	137	502	27	155	0	0	0	0	369
Loyola Marymount U.	502	1,185	0	25	310	74	132	436	5	0	0	203
Roger Williams U.	503	1,135	0	300	178	10	139	201	0	0	0	307
Williams C.	504	1,131	60	104	413	236	263	0	55	0	0	0
Dine C.	505	1,126	0	0	1,074	0	0	0	44	0	8	0
Furman U.	506	1,106	9	16	328	0	558	182	13	0	0	0
Palmer C. of Chiropractic, Davenport	507	1,100	0	0	1,100	0	0	0	0	0	0	0
Rutgers, State U. New Jersey, Camden	508	1,096	1,039	0	0	0	0	0	57	0	0	0
U. Wisconsin-Stevens Point	508	1,096	i 43	i 65	i 604	i 10	i 88	i 23	i 28	i 0	i 197	i 38
Colby C.	510	1,093	36	122	581	0	297	15	7	0	0	35
Keck Graduate Institute	511	1,078	i 55	i 0	i 781	i 15	i 0	i 0	i 0	i 0	i 208	i 19
Trinity C., Hartford	512	1,077	0	0	886	0	92	0	80	0	19	0
U. of the Incarnate Word	513	1,075	0	0	576	127	372	0	0	0	0	0
Grambling State U.	514	1,066	0	0	0	82	476	0	0	0	0	508
Albany State U.	515	1,065	0	0	737	0	150	0	0	0	16	162
Hobart and William Smith Colleges	516	1,047	0	83	700	78	186	0	0	0	0	0
Midwestern U.	517	1,045	0	0	1,045	0	0	0	0	0	0	0
Keene State C.	518	1,022	0	39	549	0	52	0	0	374	8	0
U. Hartford	519	1,019	7	0	38	183	0	0	0	0	791	0
Oklahoma State U., Center for Health Sciences	520	985	0	0	851	0	0	39	0	0	54	41
U. Illinois, Springfield	521	980	0	0	0	0	12	0	954	0	0	14
Davidson C.	522	973	0	0	272	12	232	244	135	0	0	78
Union C., Schenectady	523	972	293	125	14	0	522	0	0	0	10	8
California State U., Stanislaus	524	964	290	0	514	160	0	0	0	0	0	0
Saint Michael's C.	524	964	0	0	708	25	101	130	0	0	0	0

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Puerto Rico, Cayey	526	963	0	0	45	0	140	0	0	778	0	0
CUNY, Medgar Evers C.	527	954	0	0	595	51	308	0	0	0	0	0
U. Ana G. Mendez, Gurabo	528	951	0	0	347	0	29	0	0	0	575	0
Canisius C.	529	943	0	0	0	0	191	0	0	752	0	0
Lewis and Clark C.	530	931	32	201	526	19	153	0	0	0	0	0
Doane U.	531	928	170	0	498	0	60	0	0	0	0	200
New England C. of Optometry	531	928	0	0	928	0	0	0	0	0	0	0
Calvin U.	533	925	10	0	449	32	388	0	0	0	21	25
Trinity U.	534	924	0	28	95	39	495	221	0	0	0	46
Pepperdine U.	535	914	0	0	303	0	0	79	17	0	0	515
Lafayette C.	536	910	117	0	80	102	333	99	0	0	107	72
Vassar C.	537	909	153	0	13	424	168	68	83	0	0	0
Chicago State U.	538	898	0	0	52	0	842	0	0	0	0	4
Eastern Washington U.	539	864	0	30	484	2	152	0	129	0	14	53
Pomona C.	540	863	112	100	81	202	250	0	116	0	0	2
American Samoa Community C.	541	860	0	0	860	0	0	0	0	0	0	0
Providence C.	542	857	0	166	469	0	71	111	0	0	40	0
Des Moines U.	543	845	0	77	657	0	0	0	71	0	0	40
Gettysburg C.	544	841	0	162	60	0	206	0	413	0	0	0
Mills C.	545	840	0	0	0	0	0	0	0	0	0	840
Texas A&M U.-Commerce	546	836	0	0	15	0	667	98	0	0	0	56
U. Puerto Rico, Humacao	547	828	0	0	286	0	494	48	0	0	0	0
U. Wisconsin-Green Bay	548	821	32	49	452	8	66	17	21	0	147	29
U. Texas, Tyler	549	813	28	0	604	76	0	0	34	0	71	0
Macalester C.	550	805	0	310	108	15	322	0	50	0	0	0
Southeastern Louisiana U.	551	803	16	0	422	0	35	0	113	0	0	217
Southern Connecticut State U.	551	803	0	9	212	0	246	251	0	0	0	85
Augustana U.	553	784	0	0	483	0	301	0	0	0	0	0
U. Wisconsin-La Crosse	554	777	5	4	492	87	113	0	74	0	0	2
Kenyon C.	555	776	0	0	484	0	292	0	0	0	0	0

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Stockton U.	584	553	0	493	50	0	2	0	0	0	4	4
Willamette U.	585	549	0	0	143	0	194	95	3	0	0	114
Purdue U., Fort Wayne	586	544	0	0	122	22	101	71	0	0	160	68
Central Connecticut State U.	587	540	0	52	31	0	78	0	80	0	87	212
Liberty U.	588	535	150	0	385	0	0	0	0	0	0	0
Bradley U.	589	515	0	0	36	0	243	0	0	0	236	0
California State U., Channel Islands	590	500	0	0	64	283	54	0	22	77	0	0
Augsburg U.	591	496	0	0	34	0	436	26	0	0	0	0
U. Massachusetts, central office	592	488	0	0	198	0	0	0	124	0	11	155
Drake U.	593	463	0	0	52	37	118	0	13	0	0	243
C. Wooster	594	456	0	12	110	62	251	21	0	0	0	0
Alaska Pacific U.	595	451	0	88	216	0	0	0	0	0	0	147
Oregon Institute of Technology	596	437	19 i	41 i	181 i	14 i	0 i	8 i	0 i	0 i	104 i	70 i
A. T. Still U.	597	434	0	0	434	0	0	0	0	0	0	0
Kettering U.	598	402	0	0	21	0	116	0	0	0	184	81
Yeshiva U.	599	380	0	0	380	0	0	0	0	0	0	0
Saint Joseph's U.	600	373	42	0	116	0	0	39	64	0	0	112
Grinnell C.	601	364	124	0	41	89	44	0	28	0	0	38
Niagara U.	602	355	0	0	0	0	0	0	114	0	0	241
Philadelphia C. of Osteopathic Medicine	603	346	0	0	346	0	0	0	0	0	0	0
Pittsburg State U.	604	339	0	0	297	0	30	0	0	0	12	0
Sul Ross State U.	604	339	0	0	330	0	0	0	9	0	0	0
U. Wisconsin-Platteville	604	339 i	12 i	28 i	118 i	8 i	36 i	6 i	18 i	0 i	68 i	45 i
Florida Polytechnic U.	607	338	49	0	6	0	0	0	0	0	283	0
Marshall B. Ketchum U.	608	336 i	0 i	0 i	336 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Colorado C.	609	324	0	58	115	15	14	0	0	0	0	122
Dickinson C.	609	324	0	0	187	0	39	0	0	0	0	98
U. California, Office of the President	611	319	0	0	319	0	0	0	0	0	0	0
U. of St. Thomas (MN)	612	313	10	0	196	17	61	4	0	0	25	0

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Northern Michigan U.	613	311	0	65	184	0	0	9	0	0	0	53
Lawrence Technological U.	614	304	31	0	0	53	0	0	0	0	210	10
Wheaton C., Wheaton	615	301	0	90	137	0	74	0	0	0	0	0
Austin Peay State U.	616	295	0	0	88	0	207	0	0	0	0	0
Elon U.	617	284	42	0	0	78	0	76	0	0	68	20
Maine Maritime Academy	618	282	0	0	0	0	0	0	0	0	282	0
Andrews U.	619	278	0	54	0	0	183	0	0	0	41	0
California Lutheran U.	620	256	0	0	107	0	36	0	16	0	0	97
St. Olaf C.	621	255	10	0	68	87	60	15	0	0	0	15
Rhode Island School of Design	622	246	21	0	177	0	0	0	17	0	0	31
Manhattan C.	623	245	0	14	9	0	55	0	0	0	167	0
U. Portland	624	218	0	0	60	20	0	90	0	0	48	0
Allegheny C.	625	217	0	0	18	0	72	0	0	93	0	34
U. North Carolina, general administration	626	213	0	0	24	0	0	0	0	0	189	0
U. San Francisco	627	198	0	170	19	1	0	0	0	8	0	0
U. Minnesota, Morris	628	195	0	159	0	36	0	0	0	0	0	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	629	191	0	0	191	0	0	0	0	0	0	0
Hamilton C.	630	190	0	3	51	0	12	0	22	0	0	102
Eastern Connecticut State U.	631	181	0	0	169	0	0	0	0	0	12	0
Albion C.	632	180	0	0	0	0	180	0	0	0	0	0
Heidelberg U.	633	164	0	159	5	0	0	0	0	0	0	0
Franklin W. Olin C. of Engineering	634	162	0	0	0	0	0	0	0	0	111	51
Emerson C.	635	138	64	0	42	0	0	0	0	0	0	32
Azusa Pacific U.	636	137	0	0	49	18	28	23	7	0	0	12
U. Michigan, Flint	637	122	0	0	9	0	1	0	0	112	0	0
Monmouth U.	638	120	0	91	0	0	0	0	29	0	0	0

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Pennsylvania State U., Harrisburg	639	80	5	5	25	2	5	18	5	0	15	0
Rider U.	640	68	0	11	39	5	13	0	0	0	0	0
C. of Saint Benedict	641	45 i	24 i	0 i	0 i	0 i	21 i	0 i	0 i	0 i	0 i	0 i
Texas A&M U.-Central Texas	641	45	0	0	0	0	0	0	0	0	45	0
Roseman U. of Health Sciences	643	17 i	0 i	0 i	17 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Babson C.	644	14	0	0	0	0	0	0	0	0	0	14

i = imputed.

nec = not elsewhere classified; S&E = science and engineering.

^a Johns Hopkins University includes the Applied Physics Laboratory, with \$1,666,993 thousand in federally financed R&D expenditures in FY 2019.^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 federal expenditures 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. This table includes only institutions reporting \$1 million or more in total R&D expenditures in 2018. Institutions reporting less than \$1 million in total R&D expenditures in 2018 completed a shorter version of the survey form in FY 2019, and that form did not collect federally financed R&D expenditures by source and detailed field. For federally financed R&D expenditures by major field at institutions completing the shorter version of the survey, see table 83.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2019.