

TABLE 38

Total and federally financed higher education R&D expenditures in the computer and information sciences, 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	-	2,079,421	2,192,801	2,399,150	2,639,334	1,442,869	1,497,480	1,630,112	1,794,548
Johns Hopkins U. ^a	1	142,021 i	154,963 i	161,884 i	199,773 i	135,644	147,666	153,327	189,011
Carnegie Mellon U.	2	123,569	136,928	141,298	171,110	89,247	91,953	87,606	105,289
Georgia Institute of Technology	3	114,787	115,716	141,966	164,657	95,024	100,392	122,905	145,305
U. Southern California	4	87,870	108,804	119,500	124,944	77,573	98,323	110,462	118,059
U. Illinois, Urbana-Champaign	5	94,722	102,612	96,170	106,430	67,186	70,877	63,414	71,231
Massachusetts Institute of Technology	6	74,755	78,623	85,483	96,682	43,795	38,367	35,678	43,216
Pennsylvania State U., University Park and Hershey Medical Center	7	47,112	36,680	55,939	69,638	40,654	30,718	47,938	56,256
U. Texas, Austin	8	78,370	82,102	73,386	66,125	65,745	73,292	63,389	56,350
U. Maryland ^b	9	na	na	na	47,841	na	na	na	32,963
U. Utah	10	28,660	0	42,025 i	40,967 i	21,105	0	29,213	25,364
Indiana U., Bloomington	11	23,244	26,844	25,804	36,195	18,170	20,995	14,419	21,764
George Mason U.	12	9,916	12,248	18,745	31,219	8,984	11,045	17,583	28,895
U. Central Florida	13	21,125	26,325	26,571	29,865	15,242	16,567	18,041	18,069
Cornell U.	14	21,673	23,220	29,162	29,330	13,971	15,995	19,565	19,491
U. Alabama, Huntsville	15	27,819	27,191	26,973	29,177	26,247	25,507	25,492	28,023
U. California, San Diego	16	27,630	28,217	35,158	28,302	13,227	14,740	14,788	13,478
U. Massachusetts, Amherst	17	20,596	21,126	25,106	27,702	12,423	14,982	15,650	16,035
U. Pennsylvania	18	17,589	20,149	23,703	26,968	11,169	13,037	15,095	16,242
U. Chicago	19	26,991	25,014	25,407	26,606	22,395	23,149	23,594	25,298
U. Washington, Seattle	20	23,467	29,077	23,644	24,969	13,189	12,875	12,642	16,374
Columbia U. in the City of New York	21	20,091	20,479	22,654	24,725	17,116	18,299	20,584	22,935
Stanford U.	22	25,258	29,276	25,298	24,575	18,126	17,519	13,481	12,782
Virginia Polytechnic Institute and State U.	23	27,386	33,035	27,614	23,536	12,523	10,386	10,746	9,830
Ohio State U.	24	23,112	21,784	20,331	23,393	10,407	10,196	9,770	9,151
Purdue U., West Lafayette	25	18,896	21,494	23,394	23,177	13,304	13,441	14,513	14,972
U. North Carolina, Chapel Hill	26	15,988	14,473	18,483	23,146	14,117	12,077	13,884	19,037
U. Minnesota, Twin Cities	27	16,151	21,511	21,810	22,227	11,083	11,168	8,279	9,064
Arizona State U.	28	16,969	16,328	18,967	21,871	9,664	8,646	11,012	11,734
Texas A&M U., College Station and Health Science Center	29	20,849	19,007	21,960	21,800	6,876	7,431	9,668	10,724
U. Wisconsin-Madison	30	21,226	20,155	22,024	20,372	14,968	14,243	16,499	13,735
U. Virginia, Charlottesville	31	7,886	8,054	15,473	20,017	6,227	6,603	9,039	14,945
Princeton U.	32	13,640	15,501	15,110	19,725	8,992	9,503	8,853	10,723
U. California, Irvine	33	12,722	14,736	15,705	19,463	5,846	8,229	8,310	10,548
Northeastern U.	34	14,358	15,835	19,212	19,362	11,735	13,165	15,921	15,979

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		2016	2017	2018	2019	2016	2017	2018	2019
Michigan State U.	35	14,567	11,077	14,890	19,013	5,338	5,119	7,598	8,474
U. Notre Dame	36	9,309	11,524	14,217	16,400	4,852	6,163	8,902	10,201
SUNY, U. Buffalo	37	13,314	16,352	16,731	15,899	7,200	8,512	9,566	9,268
U. California, Los Angeles	38	14,014	13,663	14,698	15,867	8,284	7,762	7,383	8,724
Dartmouth C. and Dartmouth Hitchcock Medical Center	39	5,543	12,250	14,596	15,753	3,235	3,292	4,918	5,230
Harvard U.	40	11,229	13,534	15,431	15,229	8,090	8,443	11,290	12,576
Florida International U.	41	14,431	10,302	14,645	14,911	9,414	6,385	11,033	10,990
U. Colorado Boulder	42	8,701	9,179	12,028	14,909	7,273	8,436	11,294	14,061
U. Tennessee, Knoxville	43	17,675	15,565	14,367	14,744	13,740	10,989	9,876	10,706
Brown U.	44	11,838	10,670	12,539	14,727	5,639	6,810	8,359	10,694
North Carolina State U.	45	12,009	11,083	11,537	14,614	9,016	8,160	8,169	10,351
New York U.	46	17,434	20,892	17,178	14,607	9,782	12,227	11,255	8,151
California Institute of Technology	47	1,220	9,584	15,086	14,405	0	8,043	12,844	10,511
U. Florida	48	18,436	12,606	12,515	13,569	5,875	7,736	7,201	8,507
U. Michigan, Ann Arbor	49	8,162	10,716	12,010	12,983	3,169	4,324	5,055	4,804
U. Alabama, Tuscaloosa	50	13,443	12,047	11,550	12,482	6,234	4,418	4,772	4,439
U. Arizona	51	8,388	9,674	13,089	12,370	5,922	7,093	6,108	7,066
U. Texas, San Antonio	52	6,351	8,273	10,239	12,132	4,438	5,615	7,312	7,721
U. California, Berkeley	53	9,899	10,339	10,454	12,125	194	430	389	690
Rice U.	54	11,729	12,583	11,281	11,939	10,362	10,707	9,709	10,013
Boston U.	55	3,913	3,046	5,055	11,919	2,823	2,010	2,491	5,295
U. Louisiana, Lafayette	56	8,987	17,710	15,078	11,650	2,664	2,972	4,899	2,169
Naval Postgraduate School	57	6,264	6,531	7,718	11,598	5,093	3,682	4,004	6,843
Florida State U.	58	8,521	9,281	11,684	11,557	3,243	4,487	4,681	3,787
Rensselaer Polytechnic Institute	59	9,089	9,062	9,830	11,282	6,569	5,689	5,049	5,853
U. California, Santa Barbara	60	11,732	12,511	11,397	10,965	7,541	7,073	6,670	6,351
New Jersey Institute of Technology	61	7,004	8,208	9,887	10,619	2,781	4,521	5,243	3,885
U. Illinois, Chicago	62	12,101	12,708	11,653	10,522	7,129	7,447	6,873	5,679
U. North Carolina, Charlotte	63	6,048	7,181	9,812	10,468	5,607	6,620	7,241	8,286
U. Hawaii, Manoa	64	15,137	14,247	10,971	10,173	14,461	13,621	10,458	9,899
U. Pittsburgh, Pittsburgh	65	9,268	9,032	8,386	9,734	5,019	5,656	6,002	6,889
SUNY, Stony Brook U.	66	11,468	9,528	9,365	9,726	6,971	6,632	6,939	7,788
U. Memphis	67	2,128	8,164	13,831	9,482	1,511	7,313	11,139	6,188
U. California, Riverside	68	6,069	7,040	7,398	9,450	4,434	4,864	5,364	7,221
Washington State U.	69	4,322	6,346	10,746	9,377	2,516	3,320	4,170	3,520
U. Nebraska, Lincoln	70	8,679	9,237	9,227	8,919	4,188	4,429	4,870	4,828

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		2016	2017	2018	2019	2016	2017	2018	2019
Oregon State U.	71	7,109	8,111	9,666	8,869	6,244	6,190	7,939	7,304
George Washington U.	72	6,501	6,476	6,509	8,578	3,562	3,797	4,309	4,266
Iowa State U.	73	7,240	7,731	10,194	8,296	3,341	3,891	5,675	4,152
U. Texas, Dallas	74	8,575	7,580	7,608	8,136	4,261	4,261	4,597	4,763
U. Maryland, Baltimore County	75	1,607	2,577	6,352	8,065	665	1,870	4,913	4,989
Rockefeller U.	76	7,597	7,751	8,029	8,037	0	0	0	0
U. Nevada, Reno	77	2,859	4,134	7,719	7,812	2,185	2,575	3,965	2,858
U. South Florida, Tampa	78	7,068	7,189	8,803	7,707	2,325	2,796	3,049	3,184
U. California, Davis	79	9,024	6,818	7,888	7,562	6,919	4,693	5,724	5,544
U. Massachusetts, Lowell	80	5,581	6,458	5,746	7,481	2,334	3,008	2,611	4,108
Worcester Polytechnic Institute	81	4,140	3,694	3,578	7,301	3,594	2,516	2,647	5,023
SUNY, Binghamton U.	82	5,197	6,405	7,442	7,176	1,422	1,986	2,135	2,607
U. Texas, Arlington	83	4,471	4,506	5,719	7,144	2,063	2,445	2,412	2,575
Mississippi State U.	84	10,515	7,073	6,328	6,944	6,791	3,637	2,716	3,822
SUNY, U. Albany	85	1,818	5,034	5,277	6,541	1,818	957	1,182	2,709
Louisiana State U., Baton Rouge	86	3,917	3,477	6,455	6,538	1,511	1,273	4,110	4,051
Rochester Institute of Technology	87	3,431	4,228	5,079	6,328	2,118	2,318	2,793	3,189
Yale U.	88	9,137	11,375	6,309	5,996	4,026	5,819	4,257	4,245
Rutgers, State U. New Jersey, New Brunswick	89	9,803	10,380	8,478	5,881	7,092	7,655	7,916	4,381
U. North Texas, Denton	90	3,682	2,586	3,065	5,879	2,153	1,521	1,600	1,966
U. Texas, El Paso	91	5,271	5,832	5,522	5,851	4,561	5,131	4,930	4,796
Duke U.	92	5,271	5,611	5,785	5,845	4,778	5,139	5,454	5,497
Syracuse U.	93	4,441	5,488	7,723	5,571	2,239	3,238	4,724	2,621
Washington U., Saint Louis	94	5,242	4,633	4,465	5,504	4,543	3,658	3,820	4,583
U. Delaware	95	4,709	5,171	5,267	5,274	3,948	4,067	4,346	4,540
Clemson U.	96	4,277	5,936	5,904	5,193	1,584	2,096	3,900	2,663
U. Connecticut	97	4,317	4,342	4,807	5,103	2,382	2,989	3,492	2,815
U. Arkansas, Fayetteville	98	874	628	868	5,088	504	124	422	2,008
U. Oregon	99	5,198	5,002	4,231	5,059	3,748	3,611	3,504	3,738
Norfolk State U.	100	3,796	4,306	4,474	5,010	3,784	4,306	4,474	5,010
U. Houston	101	5,964	5,442	7,068	4,819	3,259	3,144	4,358	3,033
Temple U.	102	4,357	4,500	4,252	4,560	3,274	3,149	2,879	2,818
U. Missouri, Columbia	103	2,042	1,778	1,605	4,499	1,756	1,604	1,379	3,885
Texas Tech U.	104	3,641	4,040	4,135	4,427	985	962	1,004	1,019
U. California, Santa Cruz	105	3,155	3,225	4,235	4,401	1,457	1,591	1,838	1,910
Auburn U., Auburn	106	1,331	1,799	2,653	4,368	93	171	602	1,505

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Drexel U.	107	5,393	6,125	6,599	4,298	3,349	3,684	3,964	2,827
Colorado State U., Fort Collins	108	4,184	5,056	4,349	4,278	3,985	4,067	3,800	3,761
U. Dayton	109	2,036	1,838	1,445	4,245	761	744	1,116	3,453
Florida Institute of Technology	110	2,053	1,742	2,359	4,242	1,493	1,457	1,956	3,930
U. Kansas	111	3,608	4,214	4,073	4,004	2,068	2,274	1,915	2,285
Indiana U.-Purdue U., Indianapolis	112	2,591	2,965	3,509	3,920	1,151	1,407	1,826	2,106
Georgetown U.	113	3,063	2,941	3,812	3,836	1,696	1,779	1,806	2,137
Tufts U.	114	3,801	3,710	3,392	3,777	3,518	3,369	3,315	3,777
U. Georgia	115	3,599	5,554	4,902	3,731	1,729	2,019	1,305	1,453
Dakota State U.	116	1,871	2,171	3,586	3,694	1,406	1,976	3,273	3,006
Toyota Technological Institute, Chicago	117	2,710	2,880	3,251	3,681	1,410	1,581	1,759	1,934
Oklahoma State U., Stillwater	118	948	1,768	3,368	3,673	125	534	504	547
Stevens Institute of Technology	119	1,945	2,253	3,169	3,666	1,926	2,229	3,100	3,325
U. Rochester	120	3,209	2,948	3,557	3,657	2,582	2,418	2,882	3,167
U. New Mexico	121	5,567	5,373	4,366	3,649	4,173	4,072	2,992	2,616
U. Nebraska, central administration	122	ne	ne	796	3,634	ne	ne	796	3,634
U. Iowa	123	2,496	2,327	3,017	3,599	1,637	1,750	2,443	2,958
Georgia State U.	124	3,266	2,908	3,192	3,562	1,715	1,213	1,497	1,885
U. Arkansas, Little Rock	125	1,301	1,537	2,534	3,486	494	1,020	1,922	2,517
Northern Arizona U.	126	152	724	908	3,383	82	0	106	282
Kennesaw State U.	127	238	1,129	1,429	3,369	0	66	123	174
U. South Alabama	128	2,070	1,829	1,533	3,355	1,874	1,671	1,283	3,256
U. Nebraska, Omaha	129	1,877	2,021	2,287	3,287	1,379	1,038	1,298	2,097
U. Kentucky	130	2,890	2,997	3,138	3,165	1,211	1,796	1,647	1,639
Northwestern U.	131	2,197	2,530	2,512	3,035	1,841	1,055	1,214	1,459
Illinois Institute of Technology	132	3,455	2,752	3,108	3,005	3,120	2,514	2,941	2,760
Wright State U.	133	4,271	4,008	3,259	2,986	1,516	2,204	1,755	1,684
Kansas State U.	134	3,378	2,726	3,436	2,923	1,760	1,411	1,840	1,637
William & Mary	135	2,485	2,021	2,133	2,914	2,256	1,749	1,614	1,852
U. Vermont	136	633	1,830	1,305	2,829	334	876	1,056	1,636
Colorado School of Mines	137	0	900	1,429	2,782	0	630	1,117	2,593
Air Force Institute of Technology	138	2,971	2,036	1,697	2,733	1,637	1,046	992	1,817
New Mexico State U.	139	1,838	1,703	2,124	2,705	1,688	1,562	1,944	2,296
North Dakota State U.	140	2,878	3,286	4,900	2,556	1,753	1,598	1,405	943
Old Dominion U.	141	1,710	1,755	1,778	2,530	1,370	1,299	1,300	1,061
U. South Carolina, Columbia	142	1,227	2,184	2,376	2,436	1,092	1,588	1,623	1,526

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Emory U.	143	314	593	1,551	2,427	156	0	0	113
U. Tulsa	144	3,239	3,440	3,074	2,426	2,697	2,397	1,705	1,660
Tennessee Technological U.	145	762	1,690	2,096	2,416	477	829	1,136	1,417
Missouri U. of Science and Technology	146	2,836	2,946	2,968	2,349	1,791	1,916	1,785	1,197
Tulane U.	147	365	1,933	2,511	2,312	161	1,256	1,579	1,438
Florida Atlantic U.	148	888	1,866	1,427	2,170	346	616	308	1,119
Lehigh U.	149	1,181	1,099	1,615	2,164	788	802	1,019	1,382
Michigan Technological U.	150	2,065	2,313	2,415	2,158	844	909	800	588
American U.	151	0	0	0	2,122	0	0	0	159
Texas State U.	152	1,345	2,675	1,258	2,096	877	1,027	928	876
U. North Dakota	153	722	1,180	2,227	2,059	318	400	571	45
U. New Orleans	154	2,055	1,826	2,019	2,045	1,299	862	1,162	866
Utah State U.	155	4,959	1,999	1,861	2,040	1,116	1,291	1,069	1,262
CUNY, Hunter C.	156	550	588	1,780	2,001	267	314	1,270	1,594
Rutgers, State U. New Jersey, Newark	157	353	1,089	2,535	1,970	282	768	1,983	1,849
U. Massachusetts, Boston	158	2,536	2,308	1,926	1,949	1,557	1,401	1,167	781
Teachers C., Columbia U.	159	613	1,493	1,627	1,948	245	764	1,235	1,320
Wayne State U.	160	2,388	1,735	1,784	1,881	1,511	966	1,168	1,145
North Carolina Agricultural and Technical State U.	161	1,757	2,236	1,686	1,861	1,652	2,088	1,498	1,658
Louisiana Tech U.	162	2,329	1,729	1,684	1,856	647	175	53	385
U. West Florida	163	478	457	538	1,845	0	44	396	471
California State U., San Bernardino	164	623	691	1,155	1,831	519	614	1,133	1,717
Kent State U.	165	541	1,215	1,477	1,766	152	312	400	396
U. Oklahoma, Norman and Health Science Center	166	2,838	2,699	2,845	1,752	1,859	1,712	1,688	1,354
U.S. Military Academy	167	1,600	198	1,600	1,687	1,600	198	1,600	1,687
U. Nevada, Las Vegas	168	1,705	1,772	1,782	1,662	225	327	875	643
DePaul U.	169	4,879	3,498	2,148	1,661	1,888	2,520	1,753	1,515
Brigham Young U., Provo	170	1,495	2,151	1,716	1,578	1,211	1,684	1,697	1,440
San Diego State U.	171	1,940	1,714	1,634	1,563	860	989	1,224	874
Brandeis U.	172	1,347	1,184	1,425	1,560	1,333	980	980	1,130
U. Cincinnati	173	121	1,690	2,205	1,516	32	19	91	70
U. California, Office of the President	174	1,485	1,485	1,485	1,485	0	0	0	0
Boise State U.	175	2,341	1,911	1,565	1,454	419	832	833	764
U. Missouri, Kansas City	176	760	978	905	1,434	129	88	87	267
Montana State U., Bozeman	177	724	1,043	1,102	1,427	573	775	988	1,104
Southern Methodist U.	178	1,578	760	597	1,412	804	305	116	318

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U. Massachusetts, Dartmouth	179	1,049	601	973	1,393	74	113	115	181
U. Maine	180	910	1,331	1,339	1,377	204	501	625	313
Portland State U.	181	2,034	1,485	1,167	1,370	1,649	1,280	865	1,073
Howard U.	182	2,549	1,111	1,034	1,328	1,996	514	432	655
U. Montana, Missoula	183	121	234	759	1,291	102	220	684	945
Virginia Commonwealth U.	184	601	893	1,331	1,286	562	769	1,265	1,286
U. Southern Maine	185	776	1,545	1,328	1,283	20	0	0	0
Florida A&M U.	186	133	594	1,353	1,268	112	573	1,339	1,257
U. Idaho	187	2,646	1,967	1,493	1,238	1,919	1,314	1,139	872
Ball State U.	188	1,075	1,233	1,580	1,236	531	431	1,019	365
U.S. Naval Academy	189	1,485	1,982	1,775	1,190	1,485	1,982	1,775	1,176
New Mexico Institute of Mining and Technology	190	1,637	1,985	565	1,169	1,637	1,790	565	1,062
Rutgers, State U. New Jersey, Camden	190	189	2,629	1,442	1,169	180	2,122	1,243	1,039
West Virginia U.	192	600	1,948	1,339	1,150	299	1,632	823	1,103
U. Miami	193	1,140	1,298	938	1,140	702	687	721	552
U. Alaska, Fairbanks	194	1,850	2,489	1,202	1,058	800	565	315	590
St. Edward's U.	195	100	470	195	1,010	100	320	100	550
Texas A&M U.-Corpus Christi	196	337	623	715	1,008	302	205	553	850
CUNY, City C.	197	1,792	1,134	895	990	1,240	785	703	656
Northern Illinois U.	198	748	944	1,252	935	571	459	451	383
U. Colorado Colorado Springs	199	1,904	1,767	1,305	928	1,719	1,731	1,291	865
Purdue U., Northwest	200	na	320	766	919	na	287	760	883
Morehouse C.	201	45	180	403	914	45	180	403	914
U. New Hampshire	202	2,124	1,879	359	883	1,000	652	148	526
Polytechnic U. Puerto Rico	203	ne	ne	ne	863	ne	ne	ne	863
California Polytechnic State U., San Luis Obispo	204	314	321	586	850	217	245	369	587
Oakland U.	205	542	706	476	847	343	403	182	500
Creighton U.	206	795	740	645	846	516	386	282	432
San Francisco State U.	207	893	890	706	840	193	185	89	143
U. Alabama, Birmingham	208	2,466	575	919	827	982	531	858	751
U. Texas Rio Grande Valley	209	154	120	166	824	141	32	76	205
Idaho State U.	210	571	605	708	792	425	493	650	707
Miami U.	211	390	234	670	775	383	166	441	411
Pace U.	211	122	36	64	775	96	12	22	609
U. Washington, Bothell	213	24	629	381	738	0	417	285	623
Harvey Mudd C.	214	1,270	802	576	730	1,136	646	454	516

TABLE 38

Total and federally financed higher education R&D expenditures in the computer and information sciences, 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. North Carolina, general administration	215	567	550	718	723	0	0	0	0
Ohio U.	216	943 i	0 i	729 i	712	271	0	76	165
U. Rhode Island	217	636	703	783	687	585	703	724	687
U. Alaska, Anchorage	218	453	226	471	685	311	189	327	578
James Madison U.	219	217	164	160	661	192	154	122	47
Saint Louis U.	220	115	384	303	655	115	171	227	412
California State U., San Marcos	221	631	908	964	654	631	908	964	654
U. Puerto Rico, Rio Piedras	221	1,170	688	602	654	1,143	439	510	462
Gallaudet U.	223	270	493	1,384	645	3	8	311	463
U.S. Air Force Academy	224	4,585	703	1,044	640	4,301	424	755	640
Fordham U.	225	357	473	534	635	195	112	283	160
U. Tennessee, Chattanooga	226	882	479	506	634	314	304	317	462
Wellesley C.	227	562	668	469	632	562	667	464	417
U. Colorado Denver and Anschutz Medical Campus	228	236	240	271	614	217	220	267	267
U. Mississippi	229	604	199	604	584	88	103	53	42
Lamar U.	230	20	174	215	582	9	57	146	539
Baylor U.	231	575	540	500	581	211	46	22	0
Jackson State U.	232	1,553	1,821	1,314	567	1,184	1,613	1,180	423
Boston C.	233	343	387	521	559	181	337	419	335
U. Washington, Tacoma	234	830	0	234	555	830	0	221	555
East Carolina U.	235	209	207	266	554	165	141	116	277
Southern Illinois U., Carbondale	236	702	499	515	545	90	73	60	13
California State U., Monterey Bay	237	377	465	538	512	53	49	0	141
Bowie State U.	238	1,168	702	732	508	1,168	702	732	508
Clarkson U.	239	47	204	307	506	25	77	134	427
Towson U.	240	613	736	517	500	530	528	419	383
Villanova U.	241	659	579	383	498	474	405	156	131
Emerson C.	242	0	0	0	450	0	0	0	64
Hampton U.	243	484	423	714	448	484	423	714	448
Clafin U.	244	375	322	458	447	375	322	458	447
U. Southern Mississippi	245	1,154	1,993	3,163	443	811	1,992	3,151	440
U. Central Arkansas	246	378	336	352	442	221	234	237	320
Xavier U. Louisiana	246	346	376	438	442	345	375	427	416
Alabama A&M U.	248	910 i	754 i	597 i	441 i	769 i	627 i	485 i	343 i
Smith C.	249	239	624	606	427	212	579	557	348
Grinnell C.	250	278	436	279	416	42	71	111	124

TABLE 38

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2019 total: FYs 2016–19

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2016	2017	2018	2019	2016	2017	2018	2019
Clark Atlanta U.	251	162	263	182	405	120	262	170	383
Tuskegee U.	252	81 i	80 i	65	401	65	65	65	401
Johnson C. Smith U.	253	53	106	385	395	53	106	335	395
Rowan U.	254	339	435	528	391	4	18	5	131
Pennsylvania State U., Harrisburg	255	6	7	228	382	0	1	41	5
U. South Dakota	256	264	333	1,346	363	76	19	503	82
Colgate U.	257	224	223	250	362	179	126	173	242
Salisbury U.	258	221	246	1,023	351	147	156	171	174
CUNY, Brooklyn C.	259	191	280	325	346 i	152	222	238	248 i
U. Wyoming	260	1,033	940	317	342	1,032	671	302	336
CUNY, system office	261	739	390	508	338	734	366	458	284
U. Wisconsin-Milwaukee	262	462	241	230	337	0	153	172	260
Arkansas State U., Jonesboro	263	186	335	288	332	153	296	191	259
Bryn Mawr C.	263	851	424	497	332	465	195	209	222
Northwestern State U. Louisiana	263	445	383	407	332	0	0	0	0
Tennessee State U.	266	389	490	480	328	337	352	477	317
Middle Tennessee State U.	267	103	159	87	323	95	92	72	236
Union C., Schenectady	268	11	64	50	312	1	21	22	293
U. Louisville	269	238	225	262	309	233	219	147	112
U. of the Virgin Islands	269	0	0	303	309	0	0	303	309
Claremont Graduate U.	271	624 i	518 i	412 i	306	565 i	445 i	326 i	206
Bowling Green State U.	272	276	227	240	295	95	99	103	110
Prairie View A&M U.	273	257	262	304	293	206	260	294	271
Carleton C.	274	261	179	101	291	151	74	94	73
California State U., Stanislaus	275	0	93	239	290	0	93	239	290
U. Minnesota, Duluth	276	294	167	123	283	25	18	8	111
C. Charleston	277	525	603	502	280	461	443	384	235
Benedict C.	278	216	259	279	276	216	217	279	276
Mount Holyoke C.	279	216	219	306	273	153	216	240	226
Middlebury C.	280	62	80	146	269	62	80	146	269
Calvin U.	281	17	6	381	255	7	0	246	10
Occidental C.	282	0	0	13	254	0	0	13	254
Texas Southern U.	283	361	665	276	250	334	640	256	225
Nova Southeastern U.	284	1	305	149	246	0	55	140	216
Chapman U.	285	0	3	37	244	0	0	15	72
California State U., Dominguez Hills	286	203	136	187	243	203	128	158	239

TABLE 38

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2019 total: FYs 2016–19

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2016	2017	2018	2019	2016	2017	2018	2019
Montclair State U.	287	139	631	204	235	137	631	204	235
California State Polytechnic U., Pomona	288	294	478	97	225	294	456	95	216
Morgan State U.	289	0	137	489	222	0	137	402	199
Fayetteville State U.	290	356	279	279	220	356	279	279	220
Northeastern Illinois U.	291	ne	123	211	217	ne	123	211	217
Western Michigan U. and Homer Stryker M.D. School of Medicine	292	347	391	258	212	294	264	136	130
CUNY, New York City C. of Technology	293	ne	ne	308	210	ne	ne	299	204
Eastern Michigan U.	294	64	195	182	201	50	65	59	7
Bucknell U.	295	87 i	98 i	110	200	4 i	4 i	4	24
Appalachian State U.	296	397	371	126	198	371	349	116	170
Pomona C.	297	188	197	135	195	72	107	74	112
California State U., Fullerton	298	133	152	67	191	0	40	45	0
California State U., Northridge	299	106	131	112	189	0	0	0	91
Doane U.	300	ne	ne	49	181	ne	ne	43	170
New York Institute of Technology	300	39	555	231	181	39	152	159	181
Oberlin C.	302	30	10	47	179	30	0	10	130
Marquette U.	303	74	0	0	178	0	0	0	0
Southern U. and A&M C., Baton Rouge	304	135	131	80	172	117	127	76	170
New Jersey City U.	305	ne	5	100	160	ne	5	100	150
U. California, Merced	306	0	0	41	157	0	0	41	157
CUNY, Queens C.	307	1,406	626	393	155	778	357	251	73
Vassar C.	308	208	111	704 i	153	208	111	704 i	153
Liberty U.	309	ne	ne	ne	150	ne	ne	ne	150
Florida Gulf Coast U.	310	39	21	12	145	39	21	12	27
Pennsylvania State U., Behrend	311	186	114	107	138	95	25	31	47
Georgia Southern U.	312	112	176	86	134	35	70	19	94
U. Central Oklahoma	313	119	82	51	133	91	59	45	133
William Paterson U.	313	16	11	116	133	0	0	0	0
U. New Haven	315	0	0	176	129	0	0	137	123
Reed C.	316	0	62	68	128	0	0	0	117
St. John's U., New York	316	0	11	97	128	0	0	0	86
U. North Carolina, Asheville	316	49	5	8	128	49	5	8	128
Lafayette C.	319	139	171	147	124	139	171	142	117
California State U., Sacramento	320	120	108	109	123	87	46	36	41
U. North Florida	320	382	171	125	123	0	0	0	0
Macalester C.	322	52	0	0	119	0	0	0	0

TABLE 38

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2019 total: FYs 2016–19

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2016	2017	2018	2019	2016	2017	2018	2019
St. Cloud State U.	323	223	25	196	116	123	0	177	86
Mercer U.	324	0	0	95	115	0	0	0	0
Williams C.	324	178	148	240	115	157	129	216	60
Florida Polytechnic U.	326	ne	ne	ne	112	ne	ne	ne	49
U. Denver	327	397	145	48	111	165	121	48	111
Kentucky State U.	328	41	126 i	132	110	39	126 i	132	110
U. North Carolina, Wilmington	328	27	18	147	110	13	13	116	69
Fort Valley State U.	330	0	0	235	101	0	0	230	101
Loyola U., Chicago	331	102	51	66	100	61	32	38	70
South Carolina State U.	331	0 i	0	4 i	100	0 i	0	0 i	100
Western Washington U.	333	114	167	209	93	11	119	149	93
U. Wisconsin-Stevens Point	334	75 i	78 i	84 i	92 i	35 i	36 i	39 i	43 i
Elon U.	335	96	90	84	90	43	49	42	42
Franklin and Marshall C.	335	42	359	140	90	17	349	109	46
Oklahoma State U., Center for Health Sciences	337	0	153	0	89	0	0	0	0
Humboldt State U.	338	0	25	20	87	0	2	0	0
Fisk U.	339	178	483	225	86	168	483	225	0
Haverford C.	339	19 i	97 i	61 i	86 i	4	79	41	52
Spelman C.	339	111	25	63	86	111	25	63	86
U. Wisconsin-La Crosse	342	62	64	128	84	60	46	31	5
Keck Graduate Institute	343	0 i	0 i	70 i	83 i	0 i	0 i	47 i	55 i
Coastal Carolina U.	344	0	24	18	82	0	18	18	82
Wake Forest U.	345	127	156	159	81	102	126	159	81
Southern Illinois U., Edwardsville	346	47	126	195	80	16	45	61	80
Illinois State U.	347	22	31	49	78	0	0	16	17
Marshall U.	347	55	469	53	78	27	409	35	34
California Lutheran U.	349	ne	ne	ne	76	ne	ne	ne	0
California State U., Long Beach	350	101	68	71	74	33	6	18	69
CUNY, John Jay C. of Criminal Justice	350	228	19	34	74	217	7	28	74
U. Houston-Downtown	352	58	75	551	71	50	63	550	49
Mercyhurst U.	353	0	794 i	ne	65 i	0	223 i	ne	35 i
Texas A&M U.-Commerce	354	110	95	135	64	31	38	7	0
CUNY, C. Staten Island	355	184	281	52 i	63	36	40	52 i	63
Northern Kentucky U.	356	8	38	67	62	0	36	3	0
CUNY, York C.	357	ne	ne	ne	61	ne	ne	ne	59
Oregon Institute of Technology	358	307	317 i	326 i	60 i	0	0 i	0	19 i

TABLE 38

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2019 total: FYs 2016–19

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2016	2017	2018	2019	2016	2017	2018	2019
Hofstra U.	359	9	12	0	58	9	12	0	0
U. Wisconsin-Green Bay	359	42 i	33 i	39 i	58 i	38 i	28 i	21 i	32 i
U. Wisconsin-Oshkosh	359	ne	48 i	51 i	58 i	ne	41 i	43 i	50 i
West Texas A&M U.	359	8	0	0	58	0	0	0	24
Connecticut C.	363	60	57	11	56	30	28	5	24
C. of Saint Benedict	364	105	64	54	53 i	35	28	25	24 i
Case Western Reserve U.	365	0	0	200	50	0	0	199	50
Sam Houston State U.	366	110	62	141	49	70	40	84	0
Bates C.	367	0	0	2	47	0	0	2	47
California State U., Fresno	368	18	13	219	46	13	13	175	46
California State U., Los Angeles	368	0	22	20	46 i	0	8	12	0
Rhode Island School of Design	368	18 i	18 i	31 i	46 i	0 i	0 i	17 i	21 i
Santa Clara U.	371	0	0	149	45	0	0	73	37
Colorado State U., Pueblo	372	ne	ne	ne	43	ne	ne	ne	0
Saint Joseph's U.	373	0	30	26	42	0	26	23	42
Biola U.	374	31 i	31 i	36 i	41 i	23 i	23 i	25 i	29 i
Minnesota State U., Mankato	375	0	0	0	40	0	0	0	0
Amherst C.	376	46	21	26	38	0	0	0	0
Colby C.	377	27	23	38	37	0	8	31	36
U. Houston-Clear Lake	377	64	168	148	37	33	109	86	21
Western Illinois U.	377	ne	0	26	37	ne	0	7	37
Seattle U.	380	11	5	21	35	0	0	0	0
U. of St. Thomas (MN)	380	0	0	0	35	0	0	0	10
Clark U.	382	0	2	28	34	0	1	28	33
Lewis and Clark C.	383	216	153	73	32	1	33	73	32
U. Texas, Tyler	383	44	71	19	32	44	54	9	28
Jacksonville State U.	385	248	189 i	180	31	248	189 i	180	31
Lawrence Technological U.	385	0	0	0	31	0	0	0	31
Southeastern Louisiana U.	385	0	3	0	31	0	0	0	16
California State U., Bakersfield	388	50	0	0	30	0	0	0	0
Trinity U.	389	72	535	60	29	31	421	32	0
SUNY, Oswego	390	ne	9	17	27	ne	0	0	14
U. San Francisco	390	60	80	30	27	57	59	2	0
Saint John's U., Collegeville	392	62	32	26	26 i	0	0	0	0 i
Texas Christian U.	392	64	0	0	26	64	0	0	26
West Chester U. Pennsylvania	394	56	47	35	25	0	0	0	0

TABLE 38

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2019 total: FYs 2016–19

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2016	2017	2018	2019	2016	2017	2018	2019
Augusta U.	395	9	22	28	24	9	22	28	23
Bethune-Cookman U.	396	ne	ne	0	23	ne	ne	0	23
U. Missouri, Saint Louis	396	881	925	834	23	117	26	5	11
Furman U.	398	6	12	22	22	2	2	2	9
St. Olaf C.	398	52	187	33	22	43	171	2	10
Southern Connecticut State U.	400	2	17	8	19	0	0	0	0
U. Wisconsin-Platteville	401	ne	23 i	ne	18 i	ne	12 i	ne	12 i
Western Kentucky U.	401	20	22	21	18	0	3	2	0
Albion C.	403	ne	10	31	17	ne	0	0	0
Youngstown State U.	403	2	113	134	17	0	106	129	9
Bowdoin C.	405	212	79	6	16	212	78	0	13
Central Connecticut State U.	405	23	19	ne	16	0	0	ne	0
U. North Carolina, Greensboro	405	218	148	0	16	130	101	0	0
Kettering U.	408	128	221	5	15	113	212	0	0
Rhode Island C.	408	0	0	0	15	0	0	0	15
Texas Woman's U.	408	375	79	15	15	375	79	15	15
California State U., Chico	411	16	0	46	14	0	0	34	14
Grand Valley State U.	411	4	6	13	14	0	0	0	0
U. Michigan, Flint	411	ne	2	33	14	ne	0	0	0
Azusa Pacific U.	414	21	180	35	12	0	0	0	0
Swarthmore C.	414	13	38	16	12	3	33	3	0
U. North Georgia	414	ne	0	0	12	ne	0	0	0
Whitman C.	414	ne	ne	ne	12	ne	ne	ne	0
Austin Peay State U.	418	0	0	0	11	0	0	0	0
Indiana U. Pennsylvania	419	68	13	30	10	67	11	15	8
Tarleton State U.	419	0	0	0	10	0	0	0	0
U. Baltimore	419	57	18	25	10	57	18	0	10
Central State U.	422	308	85	25	8	308	85	25	8
Hamilton C.	422	2	6	9	8	1	0	0	0
Saginaw Valley State U.	422	4	8	13	8	0	2	0	1
San Jose State U.	422	159	169	33	8	0	24	1	0
Desert Research Institute	426	1,998	43	42	7	0	0	0	0
U. Akron	426	207	341	32	7	69	57	29	0
U. Hartford	426	78	92	4	7	78	92	4	7
Eastern Connecticut State U.	429	3	8	7	6	2	0	0	0
Central Washington U.	430	0	79	22	5	0	0	0	5

TABLE 38

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2019 total: FYs 2016–19

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2016	2017	2018	2019	2016	2017	2018	2019
Dickinson C.	430	0	0	ne	5	0	0	ne	0
Wheaton C., Wheaton	430	ne	0	0	5	ne	0	0	0
South Dakota School of Mines and Technology	433	0	0	0	4	0	0	0	4
SUNY, C. of Environmental Science and Forestry	433	12	0	0	4	5	0	0	2
Loyola Marymount U.	435	7	21	0	3	4	13	0	0
Trinity C., Hartford	435	257	1,352	247	3	254	1,343	226	0
U. Minnesota, Morris	435	0	0	ne	3	0	0	ne	0
California State U., Channel Islands	438	25	32	30	2	0	2	0	0
Central Michigan U.	438	86	56	6	2	0	0	0	0
Missouri State U.	438	0	0	0	2	0	0	0	2
Texas A&M International U.	438	0	0	0	2	0	0	0	0
Allegheny C.	442	0	1	5	1	0	0	0	0
Barnard C.	442	0	0	0	1	0	0	0	0
Delaware State U.	442	0	127	83	1	0	24	8	0
Gettysburg C.	442	ne	0	0	1	ne	0	0	0
Skidmore C.	442	24	0	6	1	14	0	0	0
U. of Mary Washington	442	ne	ne	0	1	ne	ne	0	0
All other surveyed institutions	-	46,758	48,824	48,044	0	33,728	35,380	32,974	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 \$191,067 thousand imputed for total and \$181,909 thousand reported for federally financed R&D expenditures in computer and information sciences 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.