

TABLE 38

**Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2020 total: FYs 2017–20**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
All institutions	-	2,192,394	2,397,782	2,639,075	2,923,149	1,497,681	1,630,119	1,794,620	2,000,937
Johns Hopkins U. <sup>a</sup>	1	154,963 i	161,884 i	199,773 i	226,696 i	147,666	153,327	189,011	216,738
Carnegie Mellon U.	2	136,928	141,298	171,110	192,119	91,953	87,606	105,289	119,057
Georgia Institute of Technology	3	115,716	141,966	164,657	185,400	100,392	122,905	145,305	162,577
U. Texas, Austin	4	82,102	73,386	66,125	139,290	73,292	63,389	56,350	128,322
U. Southern California	5	108,804	119,500	124,944	121,116	98,323	110,462	118,059	115,564
Massachusetts Institute of Technology	6	78,623	85,483	96,682	111,779	38,367	35,678	43,216	54,491
U. Illinois, Urbana-Champaign	7	102,612	96,170	106,430	95,988	70,877	63,414	71,231	64,385
Pennsylvania State U., University Park and Hershey Medical Center	8	36,680	55,939	69,638	89,490	30,718	47,938	56,256	76,419
U. Maryland <sup>b</sup>	9	na	na	47,841	50,541	na	na	32,963	34,576
Indiana U., Bloomington	10	26,844	25,804	36,195	43,034	20,995	14,419	21,764	26,097
U. Utah	11	0	42,025 i	40,967 i	37,159 i	0	29,213	25,364	23,621
U. Alabama, Huntsville	12	27,191	26,973	29,177	36,636	25,507	25,492	28,023	35,309
U. Massachusetts, Amherst	13	21,126	25,106	27,702	31,199	14,982	15,650	16,035	16,804
Cornell U.	14	23,220	29,162	29,330	31,173	15,995	19,565	19,491	18,829
Virginia Polytechnic Institute and State U.	15	33,035	27,614	23,536	30,405	10,386	10,746	9,830	11,637
U. California, San Diego	16	28,217	35,158	28,302	30,370	14,740	14,788	13,478	16,179
U. Central Florida	17	26,325	26,571	29,865	29,423	16,567	18,041	18,069	18,095
U. Wisconsin-Madison	18	20,155	22,024	20,372	28,241	14,243	16,499	13,735	15,975
U. Washington, Seattle	19	29,077	23,644	24,969	27,986	12,875	12,642	16,374	18,140
Purdue U., West Lafayette	20	21,494	23,394	23,177	27,886	13,441	14,513	14,972	20,261
U. North Carolina, Chapel Hill	21	14,473	18,483	23,146	26,765	12,077	13,884	19,037	20,870
Stanford U.	22	29,276	25,298	24,575	26,512	17,519	13,481	12,782	15,368
U. Pennsylvania	23	20,149	23,703	26,968	26,318	13,037	15,095	16,242	15,361
U. Virginia, Charlottesville	24	8,054	15,473	20,017	26,286	6,603	9,039	14,945	20,924
Columbia U. in the City of New York	25	20,479	22,654	24,725	25,101	18,299	20,584	22,935	22,817
U. Chicago	26	25,014	25,407	26,606	24,422	23,149	23,594	25,298	23,454
Princeton U.	27	15,501	15,110	19,725	24,160	9,503	8,853	10,723	14,612
George Mason U.	28	12,248	18,745	31,219	23,969	11,045	17,583	28,895	21,728
U. Minnesota, Twin Cities	29	21,511	21,810	22,227	22,996	11,168	8,279	9,064	9,283
Ohio State U.	30	21,784	20,331	23,393	22,869	10,196	9,770	9,151	8,892
Arizona State U.	31	16,328	18,967	21,871	22,231	8,646	11,012	11,734	15,176

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**Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2020 total: FYs 2017–20**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U. California, Irvine	32	14,736	15,705	19,463	21,573	8,229	8,310	10,548	10,957
Northeastern U.	33	15,835	19,212	19,362	21,118	13,165	15,921	15,979	17,176
SUNY, U. Buffalo	34	16,352	16,731	15,899	18,747	8,512	9,566	9,268	10,894
Georgetown U.	35	2,941	3,812	3,836	18,620	1,779	1,806	2,137	3,947
Texas A&M U., College Station and Health Science Center	36	19,007	21,960	21,800	18,504	7,431	9,668	10,724	9,988
U. California, Los Angeles	37	13,663	14,698	15,867	17,480	7,762	7,383	8,724	10,302
Florida International U.	38	10,302	14,645	14,911	16,175	6,385	11,033	10,990	9,863
North Carolina State U.	39	11,083	11,537	14,614	16,119	8,160	8,169	10,351	11,737
Michigan State U.	40	11,077	14,890	19,013	15,783	5,119	7,598	8,474	7,631
Brown U.	41	10,670	12,539	14,727	15,695	6,810	8,359	10,694	10,937
U. Colorado Boulder	42	9,179	12,028	14,909	15,627	8,436	11,294	14,061	14,941
Harvard U.	43	13,534	15,431	15,229	15,250	8,443	11,290	12,576	11,955
U. Michigan, Ann Arbor	44	10,716	12,010	12,983	15,180	4,324	5,055	4,804	6,046
U. Arizona	45	9,674	13,089	12,370	15,084	7,093	6,108	7,066	7,670
California Institute of Technology	46	9,584	15,086	14,405	15,072	8,043	12,844	10,511	11,277
U. Notre Dame	47	11,524	14,217	16,400	14,904	6,163	8,902	10,201	8,265
Dartmouth C. and Dartmouth Hitchcock Medical Center	48	12,250	14,596	15,753	14,889	3,292	4,918	5,230	5,114
New York U.	49	20,892	17,178	14,607	14,584	12,227	11,255	8,151	9,125
Rensselaer Polytechnic Institute	50	9,062	9,830	11,282	14,484	5,689	5,049	5,853	4,377
Boston U.	51	3,046	5,055	11,919	14,251	2,010	2,491	5,295	5,902
U. Tennessee, Knoxville <sup>c</sup>	52	15,565	14,367	14,744	13,906	10,989	9,876	10,706	11,049
U. Florida	53	12,606	12,515	13,569	13,006	7,736	7,201	8,507	9,016
U. Illinois, Chicago	54	12,708	11,653	10,522	12,999	7,447	6,873	5,679	7,580
U. Alabama, Tuscaloosa	55	12,047	11,550	12,482	12,836	4,418	4,772	4,439	4,044
U. California, Berkeley	56	10,339	10,454	12,125	12,701	430	389	690	255
U. Texas, San Antonio	57	8,273	10,239	12,132	12,064	5,615	7,312	7,721	5,470
U. Hawaii, Manoa	58	14,247	10,971	10,173	11,963	13,621	10,458	9,899	11,055
U. Maryland, Baltimore County	59	2,577	6,352	8,065	11,590	1,870	4,913	4,989	6,765
U. Louisiana, Lafayette	60	17,710	15,078	11,650	11,111	2,972	4,899	2,169	1,050
SUNY, Stony Brook U.	61	9,528	9,365	9,726	10,909	6,632	6,939	7,788	8,530
Rice U.	62	12,583	11,281	11,939	10,760	10,707	9,709	10,013	7,698
Florida State U.	63	9,281	11,684	11,557	10,349	4,487	4,681	3,787	3,969
U. North Carolina, Charlotte	64	7,181	9,812	10,468	10,163	6,620	7,241	8,286	8,343
Worcester Polytechnic Institute	65	3,694	3,578	7,301	10,150	2,516	2,647	5,023	7,300
U. Texas, Dallas	66	7,580	7,608	8,136	9,992	4,261	4,597	4,763	6,289

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**Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2020 total: FYs 2017–20**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U. South Florida, Tampa	67	7,189	8,803	7,707	9,417	2,796	3,049	3,184	2,582
U. Pittsburgh, Pittsburgh	68	9,032	8,386	9,734	9,312	5,656	6,002	6,889	6,612
U. California, Santa Barbara	69	12,511	11,397	10,965	9,231	7,073	6,670	6,351	5,973
New Jersey Institute of Technology	70	8,208	9,887	10,619	9,177	4,521	5,243	3,885	3,428
Rockefeller U.	71	7,751	8,029	8,037	9,058	0	0	0	0
U. California, Riverside	72	7,040	7,398	9,450	8,974	4,864	5,364	7,221	5,999
Rochester Institute of Technology	73	4,228	5,079	6,328	8,910	2,318	2,793	3,189	5,556
U. Nebraska, Lincoln	74	9,237	9,227	8,919	8,541	4,429	4,870	4,828	4,420
U. Memphis	75	8,164	13,831	9,482	8,486	7,313	11,139	6,188	4,277
Northwestern U.	76	2,530	2,512	3,035	8,441	1,055	1,214	1,459	5,024
Louisiana State U., Baton Rouge	77	3,477	6,455	6,538	8,284	1,273	4,110	4,051	5,502
Washington State U.	78	5,770	9,407	8,705	8,251	3,320	4,170	3,520	4,027
Oregon State U.	79	8,111	9,666	8,869	8,213	6,190	7,939	7,304	6,218
SUNY, Binghamton U.	80	6,405	7,442	7,176	7,873	1,986	2,135	2,607	2,734
Iowa State U.	81	7,731	10,194	8,296	7,666	3,891	5,675	4,152	4,815
U. Texas, El Paso	82	5,832	5,522	5,851	7,597	5,131	4,930	4,796	5,639
U. Texas, Arlington	83	4,506	5,719	7,191	7,572	2,445	2,412	2,575	2,817
U. Nevada, Reno	84	4,134	7,719	7,812	7,550	2,575	3,965	2,858	3,390
Naval Postgraduate School	85	6,531	7,718	11,598	7,345	3,682	4,004	6,843	4,608
George Washington U.	86	6,476	6,509	8,578	7,308	3,797	4,309	4,266	3,135
U. California, Davis	87	6,818	7,888	7,562	7,256	4,693	5,724	5,544	5,005
U. Dayton	88	1,838	1,445	4,245	7,200	744	1,116	3,453	5,964
U. Massachusetts, Lowell	89	6,458	5,746	7,481	7,153	3,008	2,611	4,108	4,051
U. Delaware	90	5,171	5,267	5,274	6,648	4,067	4,346	4,540	5,643
SUNY, U. Albany	91	5,034	5,277	6,541	6,591	957	1,182	2,709	2,739
Rutgers, State U. New Jersey, New Brunswick	92	10,380	8,478	5,881	6,402	7,655	7,916	4,381	4,851
Duke U.	93	5,611	5,785	5,845	6,019	5,139	5,454	5,497	5,535
Yale U.	94	11,375	6,309	5,996	5,969	5,819	4,257	4,245	3,666
Temple U.	95	4,500	4,252	4,560	5,901	3,149	2,879	2,818	2,496
Toyota Technological Institute, Chicago	96	2,880	3,251	3,681	5,887	1,581	1,759	1,934	3,038
U. Oregon	97	5,002	4,231	5,059	5,652	3,611	3,504	3,738	4,228
U. Houston	98	5,442	7,068	4,819	5,599	3,144	4,358	3,033	2,546
U. Connecticut	99	4,342	4,807	5,103	5,575	2,989	3,492	2,815	3,194
Washington U., Saint Louis	100	4,633	4,465	5,504	5,467	3,658	3,820	4,583	4,675
Oklahoma State U., Stillwater	101	1,768	3,368	3,673	5,361	534	504	547	371
Mississippi State U.	102	7,073	6,328	6,944	5,189	3,637	2,716	3,822	1,749

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Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Texas Tech U.	103	4,040	4,135	4,427	5,111	962	1,004	1,019	1,160
Syracuse U.	104	5,488	7,723	5,571	5,081	3,238	4,724	2,621	1,266
U. California, Santa Cruz	105	3,225	4,235	4,401	5,009	1,591	1,838	1,910	2,199
Auburn U., Auburn	106	1,799	2,653	4,368	5,006	171	602	1,505	1,740
Indiana U.-Purdue U., Indianapolis	107	2,965	3,509	3,920	5,002	1,407	1,826	2,106	3,307
Norfolk State U.	108	4,306	4,474	5,010	4,921	4,306	4,474	5,010	4,921
Clemson U.	109	5,936	5,904	5,193	4,852	2,096	3,900	2,663	2,355
U. South Carolina, Columbia	110	2,184	2,376	2,436	4,809	1,588	1,623	1,526	1,999
U. North Texas, Denton	111	2,586	3,065	5,879	4,769	1,521	1,600	1,966	1,262
U. Arkansas, Fayetteville	112	628	868	5,088	4,591	124	422	2,008	1,753
New Mexico State U.	113	1,703	2,124	2,705	4,539	1,562	1,944	2,296	3,869
U. Kansas	114	4,214	4,073	4,004	4,416	2,274	1,915	2,285	2,887
Dakota State U.	115	2,171	3,586	3,694	4,337	1,976	3,273	3,006	3,909
Florida Institute of Technology	116	1,742	2,359	4,242	4,287	1,457	1,956	3,930	3,223
Colorado State U., Fort Collins	117	5,056	4,349	4,278	4,278	4,067	3,800	3,761	3,645
Tufts U.	118	3,710	3,392	3,777	4,273	3,369	3,315	3,777	4,128
U. Missouri, Columbia	119	2,025	1,660	4,567	4,187	1,841	1,425	3,924	3,674
Drexel U.	120	6,125	6,599	4,298	4,105	3,684	3,964	2,827	2,885
U. Kentucky	121	2,997	3,138	3,165	4,054	1,796	1,647	1,639	1,554
U. Rochester	122	2,948	3,557	3,657	4,021	2,418	2,882	3,167	3,383
U. New Mexico	123	5,373	4,366	3,649	3,964	4,072	2,992	2,616	2,876
U. South Alabama	124	1,829	1,533	3,355	3,846	1,671	1,283	3,256	3,705
U. Georgia	125	5,554	4,902	3,731	3,760	2,019	1,305	1,453	1,105
Colorado School of Mines	126	900	1,429	2,782	3,748	630	1,117	2,593	3,461
Kennesaw State U.	127	1,129	1,429	3,369	3,727	66	123	174	105
Stevens Institute of Technology	128	2,253	3,169	3,666	3,606	2,229	3,100	3,325	3,454
U. Iowa	129	2,327	3,017	3,599	3,547	1,750	2,443	2,958	2,673
Kansas State U.	130	2,726	3,436	2,923	3,511	1,411	1,840	1,637	1,844
Georgia State U.	131	2,908	3,192	3,562	3,435	1,213	1,497	1,885	1,531
North Dakota State U.	132	3,286	4,900	2,556	3,433	1,598	1,405	943	463
U. Arkansas, Little Rock	133	1,537	2,534	3,486	3,246	1,020	1,922	2,517	2,691
U. North Dakota	134	1,180	2,227	2,059	3,199	400	571	45	336
U. Nebraska, Omaha	135	2,021	2,287	3,287	3,185	1,038	1,298	2,097	1,827
U. Tulsa	136	3,440	3,074	2,426	3,139	2,397	1,705	1,660	2,531
U. Vermont	137	1,830	1,305	2,829	3,036	876	1,056	1,636	911
U. Oklahoma, Norman and Health Science Center	138	2,699	2,845	1,752	3,019	1,712	1,688	1,354	1,285
Michigan Technological U.	139	2,313	2,415	2,158	2,994	909	800	588	1,054

TABLE 38

**Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2020 total: FYs 2017–20**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Illinois Institute of Technology	140	2,752	3,108	3,005	2,988	2,514	2,941	2,760	2,708
William & Mary	141	2,021	2,133	2,914	2,917	1,749	1,614	1,852	1,881
New Mexico Institute of Mining and Technology	142	1,985	565	1,169	2,780	1,790	565	1,062	2,748
Northern Arizona U.	143	724	908	3,383	2,671	0	106	282	698
Missouri U. of Science and Technology	144	2,946	2,968	2,496	2,648	1,916	1,785	1,198	1,337
Florida Atlantic U.	145	1,866	1,427	2,170	2,586	616	308	1,119	1,309
Utah State U.	146	1,999	1,861	2,040	2,538	1,291	1,069	1,262	1,543
Louisiana Tech U.	147	1,729	1,684	1,856	2,475	175	53	385	726
Teachers C., Columbia U.	148	1,493	1,627	1,948	2,459	764	1,235	1,320	1,284
Air Force Institute of Technology	149	2,036	1,697	2,733	2,441	1,046	992	1,817	1,656
Emory U.	150	593	1,551	2,427	2,345	0	0	113	323
Lehigh U.	151	1,099	1,615	2,164	2,333	802	1,019	1,382	1,521
Rutgers, State U. New Jersey, Newark	152	1,089	2,535	1,970	2,269	768	1,983	1,849	2,269
Tulane U.	153	1,933	2,511	2,312	2,257	1,256	1,579	1,438	1,803
Tennessee Technological U.	154	1,690	2,096	2,416	2,221	829	1,136	1,417	1,364
Texas State U.	155	2,675	1,258	2,096	2,197	1,027	928	876	768
Old Dominion U.	156	1,755	1,778	2,530	2,196	1,299	1,300	1,061	874
Virginia Commonwealth U.	157	893	1,331	1,286	2,138	769	1,265	1,286	1,584
Wayne State U.	158	1,735	1,784	1,881	2,133	966	1,168	1,145	1,066
Wright State U.	159	4,008	3,259	2,986	2,034	2,204	1,755	1,684	871
U. Cincinnati	160	1,690	2,205	1,516	2,031	19	91	70	123
U. West Florida	161	457	538	1,845	1,995	44	396	471	460
U. Maine	162	1,331	1,339	1,377	1,967	501	625	313	629
West Virginia U.	163	1,948	1,339	1,150	1,894	1,632	823	1,103	1,646
Rutgers, State U. New Jersey, Camden	164	2,629	1,442	1,169	1,848	2,122	1,243	1,039	1,789
Kent State U.	165	1,215	1,477	1,766	1,766	312	400	396	605
Boise State U.	166	1,911	1,565	1,454	1,761	832	833	764	1,216
U. Montana, Missoula	167	234	759	1,291	1,746	220	684	945	1,371
North Carolina Agricultural and Technical State U.	168	2,236	1,686	1,861	1,742	2,088	1,498	1,658	1,567
CUNY, Hunter C.	169	588	1,780	2,001	1,726	314	1,270	1,594	1,474
Brandeis U.	170	1,184	1,425	1,560	1,721	980	980	1,130	1,561
U. Hawaii, system office	171	ne	0	0	1,715	ne	0	0	1,694
U. Missouri, Kansas City	172	978	905	1,456	1,625	88	87	267	399
U. Idaho	173	1,967	1,493	1,238	1,595	1,314	1,139	872	985
U. New Orleans	174	1,826	2,019	2,045	1,591	862	1,162	866	637

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(Dollars in thousands)

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		2017	2018	2019	2020	2017	2018	2019	2020
U. Massachusetts, Dartmouth	175	601	973	1,393	1,572	113	115	181	448
DePaul U.	176	3,498	2,148	1,661	1,528	2,520	1,753	1,515	1,448
Howard U.	177	1,111	1,034	1,328	1,523	514	432	655	655
U. Texas Rio Grande Valley	178	120	166	824	1,520	32	76	205	252
San Diego State U.	179	1,714	1,634	1,563	1,519	989	1,224	874	636
U.S. Naval Academy	179	1,982	1,775	1,190	1,519	1,982	1,775	1,176	1,413
U. Alabama, Birmingham	181	575	919	827	1,502	531	858	751	1,356
CUNY, City C.	182	1,134	895	990	1,490	785	703	656	803
U. California, Office of the President	183	1,485	1,485	1,485	1,485	0	0	0	0
Montana State U., Bozeman	184	1,043	1,102	1,427	1,459	775	988	1,104	1,149
U. Nebraska, central administration	185	ne	796	3,634	1,385	ne	796	3,634	1,385
Brigham Young U., Provo	186	2,151	1,716	1,578	1,350	1,684	1,697	1,440	1,199
Ball State U.	187	1,233	1,580	1,236	1,263	431	1,019	365	258
U. Massachusetts, Boston	188	2,308	1,926	1,949	1,242	1,401	1,167	781	525
U. Southern Maine	189	1,545	1,328	1,283	1,190	0	0	0	0
U. North Carolina, general administration	190	550	718	723	1,168	0	0	0	10
Portland State U.	191	1,485	1,167	1,370	1,164	1,280	865	1,073	996
Saint Louis U.	191	384	303	655	1,164	171	227	412	578
St. Edward's U.	193	470	195	1,010	1,150	320	100	550	700
U. Alaska, Fairbanks	194	2,489	1,202	1,058	1,148	565	315	590	820
Morehouse C.	195	180	403	914	1,141	180	403	914	1,141
U. Nevada, Las Vegas	196	1,772	1,782	1,662	1,077	327	875	643	314
Oakland U.	197	706	476	847	1,073	403	182	500	482
Pace U.	198	36	64	775	1,043	12	22	609	903
U. Colorado Colorado Springs	199	1,767	1,305	928	1,035	1,731	1,291	865	1,023
California State U., Monterey Bay	200	465	538	512	1,023	49	0	141	734
Baylor U.	201	540	500	581	1,011	46	22	0	97
California State U., San Marcos	202	908	964	654	987	908	964	654	987
U. Tennessee, Chattanooga	203	479	506	634	975	304	317	462	873
San Francisco State U.	204	890	706	840	869	185	89	143	149
U. New Hampshire	205	1,879	359	883	854	652	148	526	576
Marquette U.	206	0	0	178	834	0	0	0	324
U. Missouri, Saint Louis	207	925	834	25	833	26	5	11	3
East Carolina U.	208	207	266	554	828	141	116	277	213
Idaho State U.	209	605	708	792	820	493	650	707	651

TABLE 38

**Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2020 total: FYs 2017–20**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Polytechnic U. Puerto Rico	210	ne	ne	863	813	ne	ne	863	813
U. South Dakota	211	333	1,346	363	799	19	503	82	665
Harvey Mudd C.	212	802	576	730	791	646	454	516	640
Creighton U.	213	740 i	645 i	846 i	730 i	386 i	282 i	432 i	396 i
Miami U.	214	234	670	775	721	166	441	411	298
Ohio U.	215	0 i	729 i	712	703	0	76	165	103
California State U., Dominguez Hills	216	136	187	243	700	128	158	239	633
Hampton U.	217	423	714	448	699	423	714	448	699
U. Washington, Tacoma	218	0	234	555	696	0	221	555	696
Bryn Mawr C.	219	424	497	332	691	195	209	222	226
Southern Methodist U.	220	760	597	1,412	683	305	116	318	290
Bowie State U.	221	702	732	508	682	702	732	508	682
American U.	222	0	0	2,122	672	0	0	159	264
Chapman U.	223	3	37	244	665	0	15	72	0
Northern Illinois U.	224	944	1,252	935	661	459	451	383	332
California State Polytechnic U., Pomona	225	478	97	225	653	456	95	216	607
California Polytechnic State U., San Luis Obispo	226	321	586	850	626	245	369	587	362
Towson U.	227	736	517	500	603	528	419	383	488
U. New Haven	228	0	176	129	602	0	137	123	562
Boston C.	229	387	521	559	599	337	419	335	411
U. Wyoming	230	940	317	342	581	671	302	336	541
Montclair State U.	231	631	204	427	535	631	204	235	117
Villanova U.	232	579	383	498	527	405	156	131	179
Embry-Riddle Aeronautical U.	233	280	0	0	526	178	0	0	406
Purdue U., Northwest	234	320	766	919	524	287	760	883	491
U. Rhode Island	235	703	783	687	523	703	724	687	465
Morgan State U.	236	137	489	222	520	137	402	199	519
Clarkson U.	237	204	307	506	517	77	134	427	421
U. North Carolina, Greensboro	238	148	0	16	510	101	0	0	323
Kean U.	239	ne	ne	ne	509	ne	ne	ne	417
Jackson State U.	240	1,821	1,314	567	502	1,613	1,180	423	418
Clafin U.	241	322	458	447	500	322	458	447	500
U.S. Air Force Academy	242	703	1,044	640	490	424	755	640	490
Gallaudet U.	243	493	1,384	645	486	8	311	463	319
Rowan U.	244	435	528	391	482	18	5	131	256
Black Hills State U.	245	0	0	0	480	0	0	0	452
CUNY, Lehman C.	246	277	317	0	476	245	253	0	0
California State U., San Bernardino	247	691	1,155	1,831	472	614	1,133	1,717	401

TABLE 38

**Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2020 total: FYs 2017–20**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U.S. Military Academy	248	198	1,600	1,687	469	198	1,600	1,687	469
Winston-Salem State U.	249	0	0	0	443	0	0	0	443
Wellesley C.	250	668	469	632	431	667	464	417	430
U. Central Arkansas	251	336	352	442	426	234	237	320	381
Tarleton State U.	252	0	0	10	412	0	0	0	0
Tuskegee U.	253	80 i	65	401	409	65	65	401	409
CUNY, Brooklyn C.	254	280	325	388 i	403	222	238	342 i	356
Vassar C.	255	111	704 i	153	400	111	704 i	153	273
Southern Illinois U., Carbondale	256	499	515	545	396	73	60	13	33
Smith C.	257	624	606	427	391	579	557	348	328
Fordham U.	258	473	534	635	390	112	283	160	164
Citadel Military C. South Carolina	259	ne	ne	ne	380	ne	ne	ne	378
Eastern Michigan U.	260	195	182	201	376	65	59	7	0
Grinnell C.	261	436	279	416	357	71	111	124	76
Salisbury U.	262	246	1,023	351	346	156	171	174	57
Appalachian State U.	263	371	126	198	336	349	116	170	233
California State U., Stanislaus	264	93	239	290	331	93	239	290	331
Indiana U. Pennsylvania	264	13	30	10	331	11	15	8	0
California State U., East Bay	266	ne	ne	ne	329	ne	ne	ne	61
James Madison U.	267	164	160	661	325	154	122	47	18
Western Washington U.	268	167	209	93	318	119	149	93	274
U. North Carolina, Asheville	269	5	8	128	310	5	8	128	310
Alabama A&M U.	270	754 i	597 i	441 i	301 i	627 i	485 i	343 i	234 i
Prairie View A&M U.	271	262	304	293	292	260	294	271	292
Arkansas State U., Jonesboro	272	335	288	332	290	296	191	259	158
U. Minnesota, Duluth	273	167	123	283	289	18	8	111	163
Marshall U.	274	469	53	78	287	409	35	34	254
U. Miami	275	1,298	938	1,140	283	687	721	552	91
Bowling Green State U.	276	227	240	295	274	99	103	110	67
Northwestern State U. Louisiana	277	383	407	332	272	0	0	0	0
Connecticut C.	278	57	11	56	248	28	5	24	83
Middle Tennessee State U.	279	159	87	323	245	92	72	236	204
Florida Polytechnic U.	280	ne	ne	112	241	ne	ne	49	64
Calvin U.	281	6	381	255	239 i	0	246	10	10 i
Occidental C.	282	0	13	254	236	0	13	254	236
U. Colorado Denver and Anschutz Medical Campus	283	240	271	614	234	220	267	267	210
Wake Forest U.	284	156	159	81	226	126	159	81	59



TABLE 38

**Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2020 total: FYs 2017–20**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Texas A&M U.-Corpus Christi	285	623	715	1,008	222	205	553	850	204
CUNY, system office	286	390	508	338	215	366	458	284	84
U. North Carolina, Wilmington	287	18	147	110	210	13	116	69	130
West Texas A&M U.	287	0	0	58	210	0	0	24	116
Claremont Graduate U.	289	518 i	412 i	306	207	445 i	326 i	206	98
U. Mississippi	289	199	604	584	207	103	53	42	101
U. Puerto Rico, Rio Piedras	289	688	602	654	207	439	510	462	75
Southern U. and A&M C., Baton Rouge	292	131	80	172	202	127	76	170	189
California State U., Northridge	293	131	112	189	201	0	0	91	201
CUNY, John Jay C. of Criminal Justice	294	19	34	74	195	7	28	74	193
C. New Jersey	295	49	7	ne	194	49	7	ne	194
U. California, Merced	295	0	41	157	194	0	41	157	116
Bucknell U.	297	98 i	110	200	189 i	4 i	4	24	23 i
Colgate U.	298	223	250	362	188	126	173	242	165
New York Institute of Technology	298	555	231	181	188	152	159	181	132
Doane U.	300	ne	49	181	186 i	ne	43	170	175 i
Clark Atlanta U.	301	263	182	405	183	262	170	383	166
CUNY, Queens C.	302	626	393	155	182	357	251	73	135
California State U., Sacramento	303	108	109	123	178	46	36	41	105
U. North Florida	303	171	125	123	178	0	0	0	51
CUNY, New York City C. of Technology	305	ne	308	210	177	ne	299	204	177
St. Olaf C.	306	187	33	22	167	171	2	10	132
U. Alaska, Anchorage	307	226	471	685	165	189	327	578	150
C. Charleston	308	603	502	280	162	443	384	235	90
Loyola U., Chicago	309	51	66	100	160	32	38	70	139
Texas Southern U.	310	665	276	250	159	640	256	225	148
Southern Illinois U., Edwardsville	311	126	195	80	151	45	61	80	39
Barnard C.	312	0	0	1	149	0	0	0	60
Azusa Pacific U.	313	180	35	12	148	0	0	0	0
Tennessee State U.	313	490	480	328	148	352	477	317	139
U. of the Virgin Islands	313	0	303	309	148	0	303	309	148
Nova Southeastern U.	316	305	149	246	146	55	140	216	125
Western Michigan U. and Homer Stryker M.D. School of Medicine	317	391	258	212	145	264	136	130	131
Oberlin C.	318	10	47	179	144	0	10	130	80
U. Southern Mississippi	318	1,993	3,163	443	144	1,992	3,151	440	114

TABLE 38

**Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2020 total: FYs 2017–20**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Mount Holyoke C.	320	219	306	273	141	216	240	226	140
Macalester C.	321	0	0	119	140	0	0	0	0
Mercer U.	322	0	95	115	136	0	0	0	15
Saint Joseph's U.	322	30	26	42	136	26	23	42	118
New Mexico Highlands U.	324	0	14	ne	134	0	0	ne	134
Weber State U.	325	ne	ne	ne	133	ne	ne	ne	70
U. Central Oklahoma	326	82	51	133	132	59	45	133	132
Fayetteville State U.	327	279	279	220	131	279	279	220	131
Pennsylvania State U., Harrisburg	328	7	228	382	130	1	41	5	2
Texas Christian U.	329	0	0	26	126	0	0	26	101
William Paterson U.	330	11	116	133	125	0	0	0	0
Pennsylvania State U., Behrend	331	114	107	138	119	25	31	47	37
SUNY, C. of Environmental Science and Forestry	331	0	0	4	119	0	0	2	23
California State U., Fresno	333	13	219	46	117	13	175	46	75
Middlebury C.	333	80	146	269	117	80	146	269	117
U. Wisconsin-Milwaukee	335	241	230	337	116	153	172	260	93
Bates C.	336	0	2	47	113	0	2	47	113
C. Wooster	337	2	8	0	112	0	0	0	0
Columbus State U.	337	ne	ne	ne	112	ne	ne	ne	75
Elizabeth City State U.	337	133	52	ne	112	133	34	ne	101
Carleton C.	340	179	101	291	111	74	94	73	33
U. Houston-Clear Lake	340	168	148	37	111	109	86	21	96
West Virginia State U.	342	151	106	0	110	151	106	0	99
Williams C.	342	148	240	115	110	129	216	60	58
Santa Clara U.	344	0	149	45	107	0	73	37	29
Central Michigan U.	345	56	6	2	105	0	0	0	0
South Carolina State U.	346	0	4	100	104	0	0	100	104
California State U., Long Beach	347	68	71	74	102	6	18	69	42
Florida A&M U.	347	594	1,353	1,268	102	573	1,339	1,257	90
Haverford C.	349	97	61	86	101	79	41	52	39
Lafayette C.	349	171	147	124	101	171	142	117	85
Xavier U. Louisiana	351	376	438	442	100	375	427	416	87
U. Denver	352	145	48	111	99	121	48	111	99
Benedict C.	353	259	279	276	98	217	279	276	98
U. Louisville	354	225	262	309	97	219	147	112	0
Oklahoma State U., Center for Health Sciences	355	153	0	89	95	0	0	0	0
Pomona C.	355	197	135	195	95	107	74	112	95
U. Houston-Downtown	355	75	551	71	95	63	550	49	86

TABLE 38

**Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2020 total: FYs 2017–20**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Texas A&M U.-Commerce	358	95	135	64	94	38	7	0	24
Fisk U.	359	483	225	86	93	483	225	0	0
Hamilton C.	360	6	9	8	89	0	0	0	0
Eastern Connecticut State U.	361	8	7	6	86	0	0	0	0
Hawaii Pacific U.	361	0	0	0	86	0	0	0	72
Keck Graduate Institute	361	0 i	70 i	83 i	86 i	0 i	47 i	55 i	57 i
Bowdoin C.	364	79	6	16	84	78	0	13	72
SUNY, Oswego	364	9	17	27	84	0	0	14	52
California State U., Fullerton	366	152	67	191	83	40	45	0	33
Texas A&M International U.	367	0	0	2	80	0	0	0	0
U. of the District of Columbia	368	0	0	0	79	0	0	0	79
St. Cloud State U.	369	25	196	116	75	0	177	86	0
Lamar U.	370	174	215	582	74	57	146	539	14
U. Minnesota, Morris	371	0	ne	3	72	0	ne	0	0
Reed C.	372	62	68	128	68	0	0	117	61
U. Wisconsin-La Crosse	372	64	128	84	68	46	31	5	36
Mercyhurst U.	374	794 i	ne	65 i	67 i	223 i	ne	35 i	36 i
CUNY, C. Staten Island	375	281	52 i	63	66	40	52 i	63	65
Georgia Southern U.	376	176	86	134	65	70	19	94	16
Illinois State U.	376	31	49	78	65	0	16	17	23
Humboldt State U.	378	25	20	87	64	2	0	0	8
Lawrence Technological U.	379	0	0	31	63	0	0	31	63
Rhode Island C.	379	0	0	15	63	0	0	15	60
Augusta U.	381	22	28	24	61	22	28	23	28
Clark U.	382	2	28	34	60	1	28	33	47
U. San Francisco	382	80	30	27	60	59	2	0	0
U. Wisconsin-Oshkosh	382	48 i	51 i	58 i	60 i	41 i	43 i	50 i	52 i
Central Washington U.	385	79	22	5	58	0	0	5	0
U. Wisconsin-Green Bay	386	33 i	39 i	58 i	57 i	28 i	21 i	32 i	35 i
Coastal Carolina U.	387	24	18	82	56	18	18	82	56
U. Wisconsin-River Falls	388	0	0	ne	55	0	0	ne	55
Missouri State U.	389	0	0	2	53	0	0	2	48
C. of Saint Benedict	390	64	54	53 i	51 i	28	25	24 i	23 i
Trinity U.	391	535	60	29	50	421	32	0	15
U. Texas, Tyler	391	71	19	32	50	54	9	28	26
South Dakota School of Mines and Technology	393	0	0	4	49	0	0	4	49

TABLE 38

**Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2020 total: FYs 2017–20**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
CUNY, Baruch C.	394	7	30	0	46	0	30	0	46
Furman U.	395	12	22	22	45	2	2	9	0
La Salle U.	395	ne	ne	ne	45	ne	ne	ne	0
U. of Mary Washington	395	ne	0	1	45	ne	0	0	15
Rhode Island School of Design	398	18 i	31 i	46 i	44 i	0 i	17 i	21 i	20 i
Biola U.	399	31 i	36 i	41 i	42 i	23 i	25 i	29 i	30 i
Florida Gulf Coast U.	400	21	12	145	41	21	12	27	41
U. Washington, Bothell	400	629	381	738	41	417	285	623	41
Ithaca C.	402	ne	ne	ne	39	ne	ne	ne	39
Northeastern Illinois U.	402	123	211	217	39	123	211	217	39
Lipscomb U.	404	ne	ne	ne	38 i	ne	ne	ne	26 i
Oregon Institute of Technology	405	317 i	326 i	41 i	37 i	0 i	0	0 i	0
U. North Georgia	405	0	0	12	37	0	0	0	37
California State U., Los Angeles	407	22	20	50 i	36	8	12	0	0
Elon U.	407	90	84	90	36	49	42	42	0
Case Western Reserve U.	409	0	200	50	34	0	199	50	34
Spelman C.	409	25	63	86	34	25	63	86	34
Kentucky State U.	411	126 i	132	110	32	126 i	132	110	32
Lewis and Clark C.	411	153	73	32	32	33	73	32	27
Southeastern Louisiana U.	413	3	0	31	29	0	0	16	5
Hope C.	414	0	0	0	28	0	0	0	0
North Carolina Central U.	414	0	0	0	28	0	0	0	12
Amherst C.	416	21	26	38	25	0	0	0	0
Saint John's U., Colleagueville	416	32	26	26 i	25 i	0	0	0 i	0 i
Loyola Marymount U.	418	21	0	3	24	13	0	0	0
New Jersey City U.	418	5	100	160	24	5	100	150	24
Emerson C.	420	0	0	450	23	0	0	64	0
Kettering U.	421	221	5	15	22	212	0	0	0
U. Baltimore	421	18	25	10	22	18	0	10	10
Central Connecticut State U.	423	19	ne	16	21	0	ne	0	0
Seattle U.	423	5	21	35	21	0	0	0	0
U. Detroit Mercy	425	0	22	0	20	0	0	0	0
East Tennessee State U.	426	0	0 i	0 i	19 i	0	0	0	0
Sam Houston State U.	427	62	141	49	18	40	84	0	0
U. Wisconsin-Platteville	427	23 i	ne	18 i	18 i	12 i	ne	12 i	12 i
U. of St. Thomas (MN)	429	0	0	35	17	0	0	10	17
Midwestern State U.	430	ne	ne	ne	16	ne	ne	ne	0

TABLE 38

**Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2020 total: FYs 2017–20**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Swarthmore C.	431	38	16	12	15	33	3	0	6
California Lutheran U.	432	ne	ne	76	14	ne	ne	0	0
Colby C.	432	23	38	37	14	8	31	36	14
Texas Woman's U.	432	79	15	15	14	79	15	15	14
Northern Kentucky U.	435	38	67	62	13	36	3	0	0
South Dakota State U.	435	0	0	0	13	0	0	0	0
Western Kentucky U.	435	22	21	18	13	3	2	0	0
Johnson C. Smith U.	438	106	385	395	11	106	335	395	11
Southern Connecticut State U.	438	17	8	19	11	0	0	0	0
U. Michigan, Dearborn	438	0	0	0	11	0	0	0	0
U. Michigan, Flint	438	2	33	14	11	0	0	0	0
California State U., Chico	442	0	46	14	10	0	34	14	10
San Jose State U.	442	169	33	8	10	24	1	0	0
Grand Valley State U.	444	6	13	14	9	0	0	0	0
St. John's U., New York	444	11	97	128	9	0	0	86	0
Wheaton C., Wheaton	444	0	0	5	9	0	0	0	0
Sonoma State U.	447	ne	ne	ne	8	ne	ne	ne	0
St. Bonaventure U.	447	ne	ne	ne	8	ne	ne	ne	0
Bradley U.	449	21	7	0	7	0	0	0	0
Franklin and Marshall C.	449	359	140	90	7	349	109	46	0
Saginaw Valley State U.	449	8	13	8	7	2	0	1	1
Union C., Schenectady	449	64	50	312	7	21	22	293	3
West Chester U. Pennsylvania	449	47	35	25	7	0	0	0	0
Fairfield U.	454	0	0	0	6	0	0	0	0
Hofstra U.	454	12	0	58	6	12	0	0	3
New School	454	344	41	0	6	0	41	0	0
Skidmore C.	454	0	6	1	6	0	0	0	0
Stockton U.	454	ne	0	0	6	ne	0	0	0
U. Nebraska, Kearney	454	0	0	0	6	0	0	0	0
Youngstown State U.	454	113	134	17	6	106	129	9	0
Morehead State U.	461	4	0	0	5	4	0	0	0
Troy U.	461	ne	ne	ne	5	ne	ne	ne	0
U. Hartford	461	92	4	7	5	92	4	7	5
Trinity C., Hartford	464	1,352	247	3	4	1,343	226	0	0
Gettysburg C.	465	0	0	1	3	0	0	0	0
Jacksonville State U.	465	189	180	31	3	189	180	31	3
SUNY, C. Brockport	465	0	0	0	3	0	0	0	0
U. Maryland Center for Environmental Science	468	0	0	0	2	0	0	0	0
Albion C.	469	10	31	17	1	0	0	0	0
Delaware State U.	469	127	83	1	1	24	8	0	0
Northwest Indian C.	469	ne	0	0	1	ne	0	0	1

TABLE 38

**Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2020 total: FYs 2017–20**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U. Akron	469	341	32	7	1	57	29	0	0
U. Hawaii, Hilo	469	0	0	0	1	0	0	0	1
All other surveyed institutions	-	47,717	47,803	531	0	34,707	32,765	378	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.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$218,485 thousand imputed for total and \$210,188 thousand reported for federally financed R&D expenditures in computer and information sciences in FY 2020. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

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

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2020 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.