

TABLE 39

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

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
All institutions	-	2,397,731	2,637,354	2,925,725	2,951,923	1,630,076	1,794,570	2,000,015	1,994,728
Johns Hopkins U. <sup>a</sup>	1	161,884	199,773	226,696	270,040	153,327	189,011	216,738	258,141
Carnegie Mellon U.	2	141,298	171,110	192,119	196,380	87,606	105,289	119,057	131,071
Georgia Institute of Technology	3	141,966	164,657	185,400	146,318	122,905	145,305	162,577	121,473
Massachusetts Institute of Technology	4	85,483	96,682	111,779	116,877	35,678	43,216	54,491	62,186
U. Southern California	5	119,500	124,944	121,116	115,694	110,462	118,059	115,564	110,401
U. Illinois, Urbana-Champaign	6	96,170	106,430	95,988	99,600	63,414	71,231	64,385	63,076
U. Texas, Austin	7	73,386	66,125	139,290	87,595	63,389	56,350	128,322	79,109
Pennsylvania State U., University Park and Hershey Medical Center	8	55,939	69,638	89,490	73,737	47,938	56,256	76,419	56,263
U. Maryland <sup>b</sup>	9	na	47,841	50,541	50,483	na	32,963	34,576	33,768
U. Alabama, Huntsville	10	26,973	29,177	36,636	48,967	25,492	28,023	35,309	45,627
U. California, San Diego	11	35,158	28,302	30,370	46,962	14,788	13,478	16,179	18,932
Indiana U., Bloomington	12	25,804	36,195	41,892	38,843	14,419	21,764	24,346	23,657
U. Utah	13	42,025	40,967	37,159	33,446	29,213	25,364	23,621	21,958
U. North Carolina, Chapel Hill	14	18,483	23,146	26,765	32,344	13,884	19,037	20,870	27,834
U. Central Florida	15	26,571	29,865	29,421	32,242	18,041	18,069	18,093	21,437
Cornell U.	16	29,162	29,330	31,173	28,125	19,565	19,491	18,829	19,456
Columbia U. in the City of New York	17	22,654	24,725	25,101	27,763	20,584	22,935	22,817	24,889
U. Pennsylvania	18	23,703	26,968	26,318	27,396	15,095	16,242	15,361	16,523
U. Massachusetts, Amherst	19	25,106	27,702	31,199	27,336	15,650	16,035	16,804	15,410
U. Washington, Seattle	20	23,644	24,969	27,986	26,869	12,642	16,374	18,140	17,605
U. Chicago	21	25,407	26,606	24,422	26,205	23,594	25,298	23,454	25,470
Virginia Polytechnic Institute and State U.	22	27,614	23,536	30,405	25,466	10,746	9,830	11,637	8,484
U. Virginia, Charlottesville	23	15,473	20,017	26,286	24,669	9,039	14,945	20,924	20,384
George Mason U.	24	18,745	31,219	23,969	24,420	17,583	28,895	21,728	19,379
U. Wisconsin-Madison	25	22,024	20,372	28,241	23,678	16,499	13,735	15,975	14,687
Princeton U.	26	15,110	19,725	24,160	23,518	8,853	10,723	14,612	14,768
U. California, Irvine	27	15,705	19,463	21,573	23,444	8,310	10,548	10,957	11,215
Stanford U.	28	25,298	24,575	26,512	23,232	13,481	12,782	15,368	14,181
U. Minnesota, Twin Cities	29	21,810	22,227	22,996	22,629	8,279	9,064	9,283	9,509
Arizona State U.	30	18,967	21,871	22,231	22,498	11,012	11,734	15,176	14,325
Purdue U., West Lafayette	31	23,394	23,177	27,886	22,324	14,513	14,972	20,261	15,679
Northeastern U.	32	19,212	19,362	21,118	21,505	15,921	15,979	17,176	16,182
Harvard U.	33	15,431	15,229	15,250	20,858	11,290	12,576	11,955	11,767

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		2018	2019	2020	2021	2018	2019	2020	2021
Georgetown U.	34	3,812	3,836	18,620	19,590	1,806	2,137	3,947	3,703
U. Texas, San Antonio	35	10,239	12,132	12,064	19,203	7,312	7,721	5,470	11,594
Texas A&M U., College Station and Health Science Center	36	21,960	21,800	18,504	19,178	9,668	10,724	9,988	12,013
Dartmouth C. and Dartmouth Hitchcock Medical Center	37	14,596	15,753	14,889	18,556	4,918	5,230	5,114	5,783
Vanderbilt U. and Vanderbilt U. Medical Center	38	199	0	0	18,226	0	0	0	12,495
U. North Carolina, Charlotte	39	9,812	10,468	10,163	18,214	7,241	8,286	8,343	8,282
SUNY, U. Buffalo	40	16,731	15,899	18,747	17,679	9,566	9,268	10,894	8,770
North Carolina State U.	41	11,537	14,614	16,119	17,016	8,169	10,351	11,737	12,833
U. Louisiana, Lafayette	42	15,078	11,650	11,111	16,823	4,899	2,169	1,050	3,227
Florida International U.	43	14,645	14,911	16,175	16,708	11,033	10,990	9,863	8,929
Ohio State U.	44	20,331	23,393	22,869	16,691	9,770	9,151	8,892	6,904
U. Arizona	45	13,089	12,370	15,084	16,503	6,108	7,066	7,670	8,999
U. Colorado Boulder	46	12,028	14,909	15,627	16,468	11,294	14,061	14,941	15,321
U. California, Los Angeles	47	14,698	15,867	17,480	16,186	7,383	8,724	10,302	10,475
Michigan State U.	48	14,890	19,013	15,783	15,996	7,598	8,474	7,631	6,720
Louisiana State U., Baton Rouge	49	6,455	6,538	8,284	15,399	4,110	4,051	5,502	10,944
New York U.	50	17,178	14,607	14,584	15,246	11,255	8,151	9,125	9,830
U. Florida	51	12,515	13,569	13,006	15,238	7,201	8,507	9,016	8,849
Brown U.	52	12,539	14,727	15,695	14,984	8,359	10,694	10,937	10,480
Boston U.	53	5,055	11,919	14,251	14,542	2,491	5,295	5,902	6,725
U. Notre Dame	54	14,217	16,400	14,904	13,961	8,902	10,201	8,265	8,037
U. Michigan, Ann Arbor	55	12,010	12,983	15,180	13,922	5,055	4,804	6,046	5,841
California Institute of Technology	56	15,086	14,405	15,072	13,508	12,844	10,511	11,277	9,772
Rensselaer Polytechnic Institute	57	9,830	11,282	14,686	13,145	5,049	5,853	4,377	5,398
U. Alabama, Tuscaloosa	58	11,550	12,482	12,836	12,797	4,772	4,439	4,044	4,438
SUNY, Stony Brook U.	59	9,365	9,726	10,909	12,621	6,939	7,788	8,530	10,753
U. Illinois, Chicago	60	11,653	10,522	12,999	12,103	6,873	5,679	7,580	6,425
U. Maryland, Baltimore County	61	6,352	8,065	11,590	12,102	4,913	4,989	6,765	7,385
U. Tennessee, Knoxville <sup>c</sup>	62	14,367	14,744	13,906	11,725	9,876	10,706	11,049	8,756
Rice U.	63	11,281	11,939	10,760	11,623	9,709	10,013	7,698	8,006
U. South Florida <sup>d</sup>	64	8,803	7,707	9,417	11,614	3,049	3,184	2,582	2,875
U. Hawaii, Manoa	65	10,971	10,173	11,963	11,590	10,458	9,899	11,055	11,062
New Jersey Institute of Technology	66	9,887	10,619	10,325	11,575	5,243	3,885	3,428	3,448
U. California, Santa Barbara	67	11,397	10,965	9,231	11,503	6,670	6,351	5,973	6,064

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

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Worcester Polytechnic Institute	68	3,578	7,301	10,150	10,707	2,647	5,023	7,300	7,405
U. Pittsburgh, Pittsburgh	69	8,386	9,734	9,312	10,455	6,002	6,889	6,612	6,917
Florida State U.	70	11,684	11,557	10,349	10,320	4,681	3,787	3,969	3,710
U. California, Berkeley	71	10,454	12,125	12,701	9,583	389	690	255	201
U. Nebraska, Lincoln	72	9,227	8,919	8,541	9,353	4,870	4,828	4,420	4,327
Northwestern U.	73	2,512	3,035	8,441	8,957	1,214	1,459	5,024	5,873
U. Texas, Dallas	74	7,608	8,136	9,992	8,945	4,597	4,763	6,289	6,367
Rockefeller U.	75	8,029	8,037	9,058	8,886	0	0	0	0
Rochester Institute of Technology	76	5,079	6,328	8,910	8,809	2,793	3,189	5,556	5,662
SUNY, Binghamton U.	77	7,442	7,176	7,873	8,490	2,135	2,607	2,734	1,910
Washington State U.	78	9,407	8,705	8,251	8,393	4,170	3,520	4,027	4,772
U. California, Riverside	79	7,398	9,450	8,974	8,295	5,364	7,221	5,999	5,841
U. Memphis	80	13,831	9,482	8,486	7,957	11,139	6,188	4,277	4,492
U. Dayton	81	1,445	4,245	7,200	7,528	1,116	3,453	5,964	6,724
U. Massachusetts, Lowell	82	5,746	7,481	7,153	7,420	2,611	4,108	4,051	4,440
Yale U.	83	6,309	5,996	5,969	7,379	4,257	4,245	3,666	5,107
George Washington U.	84	6,509	8,578	7,308	7,326	4,309	4,266	3,135	2,907
U. North Texas, Denton	85	3,065	5,879	4,769	7,269	1,600	1,966	1,262	2,189
Oregon State U.	86	9,666	8,869	8,213	7,241	7,939	7,304	6,218	6,182
Clemson U.	87	5,904	5,193	4,852	7,040	3,900	2,663	2,355	3,143
U. Missouri, Columbia	88	1,660	4,567	4,187	6,866	1,425	3,924	3,674	5,692
U. Texas, Arlington	89	5,719	7,191	7,572	6,865	2,412	2,575	2,817	2,674
U. Nevada, Reno	90	7,719	7,812	7,550	6,843	3,965	2,858	3,390	3,896
New Mexico Institute of Mining and Technology	91	565	1,169	2,780	6,732	565	1,062	2,748	6,668
U. Oregon	92	4,231	5,059	5,652	6,362	3,504	3,738	4,228	4,811
Temple U.	93	4,252	4,560	5,901	6,327	2,879	2,818	2,496	2,571
Rutgers, State U. New Jersey, New Brunswick	94	8,478	5,881	6,402	6,316	7,916	4,381	4,851	3,942
Virginia Commonwealth U.	95	1,331	1,286	2,138	6,270	1,265	1,286	1,584	1,335
U. Texas, El Paso	96	5,522	5,851	7,597	6,234	4,930	4,796	5,639	4,670
Naval Postgraduate School	97	7,718	11,598	7,345	6,058	4,004	6,843	4,608	3,953
U. California, Davis	98	7,888	7,562	7,256	5,934	5,724	5,544	5,005	4,367
U. Arkansas, Fayetteville	99	868	5,088	4,591	5,882	422	2,008	1,753	2,541
Iowa State U.	100	10,194	8,296	7,666	5,844	5,675	4,152	4,815	3,093
Drexel U.	101	6,599	4,298	4,105	5,655	3,964	2,827	2,885	4,413

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		2018	2019	2020	2021	2018	2019	2020	2021
Florida Institute of Technology	102	2,359	4,242	4,287	5,643	1,956	3,930	3,223	3,698
Syracuse U.	103	7,723	5,571	5,081	5,582	4,724	2,621	1,266	1,557
Mississippi State U.	104	6,328	6,944	5,189	5,546	2,716	3,822	1,749	2,269
U. Connecticut	105	4,807	5,103	5,575	5,294	3,492	2,815	3,194	3,271
Duke U.	106	5,785	5,845	6,019	5,273	5,454	5,497	5,535	4,468
SUNY, U. Albany	107	5,277	6,541	6,591	5,230	1,182	2,709	2,739	1,596
U. California, Santa Cruz	108	4,235	4,401	5,009	5,128	1,838	1,910	2,199	2,407
Auburn U., Auburn	109	2,653	4,368	5,006	5,127	602	1,505	1,740	2,151
Stevens Institute of Technology	110	3,169	3,666	3,606	4,984	3,100	3,325	3,454	4,104
Toyota Technological Institute, Chicago	111	3,251	3,681	5,887	4,967	1,759	1,934	3,038	3,090
Georgia State U.	112	3,192	3,562	3,435	4,896	1,497	1,885	1,531	1,643
U. Oklahoma, Norman and Health Science Center	113	2,845	1,752	3,019	4,661	1,688	1,354	1,285	2,414
Indiana U.-Purdue U., Indianapolis	114	3,509	3,920	5,006	4,643	1,826	2,106	3,307	2,798
Michigan Technological U.	115	2,415	2,158	2,994	4,582	800	588	1,054	2,074
Washington U., Saint Louis	116	4,465	5,504	5,467	4,575	3,820	4,583	4,675	4,167
U. Houston	117	7,068	4,819	5,599	4,352	4,358	3,033	2,546	2,337
Texas Tech U.	118	4,135	4,427	5,111	4,274	1,004	1,019	1,160	916
U. Delaware	119	5,267	5,274	6,648	4,182	4,346	4,540	5,643	3,404
U. Iowa	120	3,017	3,599	3,547	4,180	2,443	2,958	2,673	2,842
U. Georgia	121	4,902	3,731	3,760	4,121	1,305	1,453	1,105	1,258
New Mexico State U.	122	2,124	2,705	4,539	4,043	1,944	2,296	3,869	3,464
Northern Arizona U.	123	908	3,383	2,671	4,037	106	282	698	811
U. Kentucky	124	3,138	3,165	4,054	4,011	1,647	1,639	1,554	2,223
Kansas State U.	125	3,436	2,923	3,511	3,898	1,840	1,637	1,844	2,377
Colorado School of Mines	126	1,429	2,782	3,748	3,894	1,117	2,593	3,461	3,746
Kennesaw State U.	127	1,429	1,706	3,727	3,745	123	174	105	125
U. South Alabama	128	1,533	3,355	3,846	3,722	1,283	3,256	3,705	3,560
U. New Mexico	129	4,366	3,649	3,964	3,657	2,992	2,616	2,876	2,760
U. Kansas	130	4,073	4,004	4,416	3,652	1,915	2,285	2,887	2,269
Oklahoma State U., Stillwater	131	3,368	3,673	5,361	3,636	504	547	371	460
Colorado State U., Fort Collins	132	4,349	4,278	4,278	3,621	3,800	3,761	3,645	3,125
U. Cincinnati	133	2,205	1,516	2,031	3,614	91	70	123	205
U. Rochester	134	3,557	3,657	4,021	3,608	2,882	3,167	3,383	3,190
Wright State U.	135	3,259	2,986	2,034	3,531	1,755	1,684	871	2,740

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U. Arkansas, Little Rock	136	2,534	3,486	3,246	3,312	1,922	2,517	2,691	3,089
U. South Carolina, Columbia	137	2,376	2,436	4,809	3,311	1,623	1,526	1,999	2,248
Brandeis U.	138	1,425	1,560	2,999	3,187	980	1,130	1,561	1,006
Dakota State U.	139	3,586	3,694	4,337	3,080	3,273	3,006	3,909	2,443
Utah State U.	140	1,861	2,040	2,538	3,039	1,069	1,262	1,543	1,812
U. Vermont	141	1,305	2,829	3,036	2,978	1,056	1,636	911	951
North Dakota State U.	142	4,900	2,556	3,433	2,929	1,405	943	463	346
Teachers C., Columbia U.	143	1,627	1,948	2,459	2,913	1,235	1,320	1,284	1,570
Emory U.	144	1,551	2,427	2,345	2,841	0	113	323	964
U. Tulsa	145	3,074	2,426	3,139	2,783	1,705	1,660	2,531	2,365
U. Massachusetts, Boston	146	1,926	1,949	1,242	2,709	1,167	781	525	716
Old Dominion U.	147	1,778	2,530	2,196	2,693	1,300	1,061	874	1,196
Illinois Institute of Technology	148	3,108	3,005	2,988	2,647	2,941	2,760	2,708	2,355
Montana State U., Bozeman	149	1,102	1,427	1,459	2,625	988	1,104	1,149	1,141
U. Nebraska, Omaha	150	2,287	3,287	3,185	2,588	1,298	2,097	1,827	1,591
U. Maine	151	1,339	1,377	1,967	2,585	625	313	629	824
Tennessee Technological U.	152	2,096	2,416	2,221	2,581	1,136	1,417	1,364	1,543
William & Mary	153	2,133	2,914	2,917	2,575	1,614	1,852	1,881	1,670
Missouri U. of Science and Technology	154	2,968	2,496	2,648	2,545	1,785	1,198	1,337	1,228
Lehigh U.	155	1,615	2,164	2,333	2,514	1,019	1,382	1,521	1,734
U. West Florida	156	538	1,845	1,995	2,510	396	471	460	1,625
Florida Atlantic U.	157	1,427	2,170	2,586	2,479	308	1,119	1,309	1,562
Case Western Reserve U.	158	200	50	34	2,407	199	50	34	1,888
Rutgers, State U. New Jersey, Camden	159	1,442	1,169	1,848	2,353	1,243	1,039	1,789	2,111
U.S. Military Academy	160	1,600	1,687	469	2,305	1,600	1,687	469	1,878
U. Montana, Missoula	161	759	1,291	1,746	2,207	684	945	1,371	1,619
U. Idaho	162	1,493	1,238	1,595	2,184	1,139	872	985	1,476
West Virginia U.	163	1,339	1,150	1,894	2,179	823	1,103	1,646	1,742
Wayne State U.	164	1,784	1,881	2,133	2,158	1,168	1,145	1,066	1,353
Gallaudet U.	165	1,384	645	486	2,141	311	463	319	1,364
Embry-Riddle Aeronautical U.	166	0	0	526	2,136	0	0	406	1,697
Rutgers, State U. New Jersey, Newark	167	2,535	1,970	2,269	2,013	1,983	1,849	2,269	1,984
U. Colorado Colorado Springs	168	1,305	928	1,035	1,965	1,291	865	1,023	1,921
Norfolk State U.	169	4,474	5,010	4,921	1,957	4,474	5,010	4,921	1,957

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		2018	2019	2020	2021	2018	2019	2020	2021
Louisiana Tech U.	170	1,684	1,856	2,475	1,952	53	385	726	396
Air Force Institute of Technology	171	1,697	2,733	2,441	1,921	992	1,817	1,656	1,551
Tulane U.	172	2,511	2,312	2,257	1,873	1,579	1,438	1,803	1,472
U. North Dakota	173	2,227	2,059	3,199	1,856	571	45	336	693
Howard U.	174	1,034	1,328	1,523	1,747	432	655	655	740
U. Massachusetts, Dartmouth	175	973	1,393	1,572	1,718	115	181	448	60
U. Missouri, Kansas City	176	905	1,456	1,625	1,698	87	267	399	509
Boise State U.	177	1,565	1,454	1,761	1,686	833	764	1,216	1,197
Portland State U.	178	1,167	1,370	1,164	1,644	865	1,073	996	1,390
U. Texas Rio Grande Valley	179	166	824	1,520	1,581	76	205	252	188
U. Wyoming	180	317	342	581	1,580	302	336	541	971
San Francisco State U.	181	706	840	1,482	1,579	89	143	558	564
DePaul U.	182	2,148	1,661	1,528	1,552	1,753	1,515	1,448	1,396
Kent State U.	183	1,477	1,766	1,766	1,509	400	396	605	456
Marquette U.	184	0	178	834	1,439	0	0	324	675
San Diego State U.	184	1,634	1,563	1,519	1,439	1,224	874	636	657
U. Southern Maine	186	1,328	1,283	1,190	1,422	0	0	0	0
CUNY, Hunter C.	187	1,780	2,001	1,726	1,395	1,270	1,594	1,474	1,165
U. New Orleans	188	2,019	2,045	1,591	1,370	1,162	866	637	451
U. New Haven	189	176	129	602	1,359	137	123	562	1,117
U. Alabama, Birmingham	190	919	827	1,502	1,356	858	751	1,356	1,250
Saint Louis U.	191	303	655	1,164	1,345	227	412	578	734
U. Hawaii, system office	192	0	0	1,715	1,327	0	0	1,694	1,313
California State U., Monterey Bay	193	538	512	1,023	1,298	0	141	734	721
North Carolina Agricultural and Technical State U.	194	1,686	1,861	1,742	1,227	1,498	1,658	1,567	1,148
Texas State U.	195	1,258	2,096	2,197	1,200	928	876	768	818
U. North Carolina, general administration	196	718	723	1,168	1,192	0	0	10	13
U. Virginia's C. Wise	197	ne	ne	ne	1,174	ne	ne	ne	1,174
Oakland U.	198	476	847	1,073	1,150	182	500	482	613
Baylor U.	199	500	581	1,011	1,148	22	0	97	101
U. California, Merced	200	41	157	194	1,134	41	157	116	862
U. Alaska, Fairbanks	201	1,202	1,058	1,148	1,116	315	590	820	947
Ball State U.	202	1,580	1,236	1,263	1,079	1,019	365	258	22
U. New Hampshire	203	359	883	854	1,057	148	526	576	567

TABLE 39

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

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
St. Edward's U.	204	195	1,010	1,150	1,050	100	550	700	600
Georgia Southern U.	205	86	134	65	1,045	19	94	16	99
Tufts U.	205	3,392	3,777	4,273	1,045	3,315	3,777	4,128	942
Citadel Military C. South Carolina	207	ne	ne	380	1,033	ne	ne	378	1,023
U. Nevada, Las Vegas	208	1,782	1,662	1,077	1,015	875	643	314	443
Middle Tennessee State U.	209	87	323	245	1,000	72	236	204	283
Hampton U.	210	714	448	699	994	714	448	699	994
Northern Illinois U.	211	1,252	935	661	944	451	383	332	669
Brigham Young U., Provo	212	1,716	1,578	1,350	929	1,697	1,440	1,199	841
Creighton U.	213	645 i	846 i	730 i	928 i	282 i	432 i	396 i	493 i
U. Tennessee, Chattanooga	214	506	634	975	899	317	462	873	879
Purdue U., Northwest	215	766	919	524	863	760	883	491	836
James Madison U.	216	160	661	325	845	122	47	18	26
U. Miami	217	938	1,140	283	835	721	552	91	586
U. North Carolina, Greensboro	218	0	16	510	806	0	0	323	692
CUNY, City C.	219	895	990	1,490	778	703	656	803	552
Clarkson U.	220	307	506	517	776	134	427	421	700
U.S. Naval Academy	221	1,775	1,190	1,519	774	1,775	1,176	1,413	684
Pace U.	222	64	775	1,043	758	22	609	903	598
Chapman U.	223	37	244	665	701	15	72	0	0
Idaho State U.	224	708	792	820	686	650	707	651	503
California Polytechnic State U., San Luis Obispo	225	586	850	626	679	369	587	362	436
Boston C.	226	521	559	599	663	419	335	411	402
Jackson State U.	227	1,314	567	502	662	1,180	423	418	468
Morgan State U.	228	489	222	520	660	402	199	519	624
Marymount U.	229	ne	ne	ne	655	ne	ne	ne	174
Xavier U. Louisiana	230	438	442	100	652	427	416	87	652
American U.	231	0	2,122	672	649	0	159	264	146
Harvey Mudd C.	232	576	730	791	645	454	516	640	512
California State U., Dominguez Hills	233	187	243	700	620	158	239	633	547
California State U., San Marcos	233	964	654	987	620	964	654	987	620
U. Puerto Rico, Rio Piedras	235	602	654	207	604	510	462	75	258
East Carolina U.	236	266	554	828	603	116	277	213	309
Winston-Salem State U.	237	0	0	443	590	0	0	443	251

TABLE 39

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

(Dollars in thousands)

Institution	Rank	Total				Federally financed					
		2018	2019	2020	2021	2018	2019	2020	2021		
Rowan U.	238	528	391	482	588	5	131	256	453		
Fayetteville State U.	239	279	220	131	584	279	220	131	334		
Southern Illinois U., Carbondale	240	515	545	396	566	60	13	33	0		
Miami U.	241	670	775	721	564	441	411	298	68		
Morehouse C.	242	403	914	1,141	540	403	914	1,141	540		
Towson U.	243	517	500	603	530	419	383	488	416		
Elizabeth City State U.	244	52	ne	112	518	34	ne	101	466		
Wellesley C.	245	469	632	431	505	464	417	430	500		
U. Colorado Denver <sup>e</sup>	246	na	na	na	475	na	na	na	411		
Southern U. and A&M C., Baton Rouge	247	80	172	202	473	76	170	189	473		
U. Central Arkansas	248	352	442	426	470	237	320	381	358		
Tuskegee U.	249	65	401	409	463	65	401	409	463		
Tennessee State U.	250	480	328	430	454	i	477	317	421	445	i
U. Hawaii, Maui C.	251	ne	ne	ne	450	ne	ne	ne	446		
U. Nebraska, central administration	252	796	3,634	1,385	448	796	3,634	1,385	448		
Bowie State U.	253	732	508	682	446	732	508	682	446		
U. Rhode Island	254	783	687	523	439	724	687	465	416		
U. North Florida	255	125	123	178	418	0	0	51	304		
Fisk U.	256	225	86	93	415	225	0	0	415		
Villanova U.	257	383	498	527	413	156	131	179	148		
Tarleton State U.	258	0	10	412	395	0	0	0	0		
Western Washington U.	259	209	93	318	383	149	93	274	343		
California State U., Northridge	260	112	189	201	380	0	91	201	358		
California State Polytechnic U., Pomona	261	97	225	653	360	95	216	607	335		
Appalachian State U.	262	126	198	336	356	116	170	233	323		
Bryn Mawr C.	262	497	332	691	356	209	222	226	134		
Smith C.	264	606	427	391	352	557	348	328	320		
California State U., Sacramento	265	109	123	178	340	36	41	105	219		
U. North Georgia	266	0	12	37	335	0	0	37	335		
Delaware State U.	267	83	1	358	i	334	8	0	156	i	179
U. of St. Thomas (MN)	268	0	35	17	328	0	10	17	323		
C. Charleston	269	502	280	162	322	384	235	90	242		
CUNY, Brooklyn C.	270	325	388	i	403	314	238	342	i	356	290
Montclair State U.	270	204	427	535	314	204	235	117	107		



TABLE 39

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

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Texas A&M U.-Corpus Christi	272	715	1,008	222	313	553	850	204	258
Alabama A&M U.	273	597	i 441	i 301	i 307	i 485	i 343	i 234	i 235
New York Institute of Technology	274	231	181	188	303	159	181	132	183
Salisbury U.	274	1,023	351	346	303	171	174	57	101
West Texas A&M U.	276	0	58	210	301	0	24	116	161
San Jose State U.	277	33	8	10	297	1	0	0	0
Black Hills State U.	278	0	0	480	295	0	0	452	295
CUNY, Queens C.	279	393	155	182	294	251	73	135	253
Fordham U.	280	534	635	390	287	283	160	164	101
U. North Carolina, Asheville	281	8	128	310	284	8	128	310	284
Occidental C.	282	13	254	236	280	13	254	236	280
U. Mississippi	283	604	584	207	273	53	42	101	119
Pomona C.	284	135	195	95	272	74	112	95	118
California State U., Long Beach	285	71	74	102	271	18	69	42	90
Ohio U.	285	729	i 712	703	271	76	165	103	243
Wake Forest U.	287	159	81	226	266	159	81	59	145
California State U., East Bay	288	ne	ne	329	264	ne	ne	61	0
Barnard C.	289	0	1	149	260	0	0	60	107
Eastern Connecticut State U.	290	7	6	86	248	0	0	0	0
U. North Carolina, Wilmington	291	147	110	210	244	116	69	130	209
U. Minnesota, Duluth	292	123	283	289	242	8	111	163	136
U. of the District of Columbia	292	0	0	79	242	0	0	79	242
Middlebury C.	294	146	269	117	241	146	269	117	241
Arkansas State U., Jonesboro	295	288	332	290	239	191	259	158	95
St. Cloud State U.	296	196	116	75	233	177	86	0	182
U. Southern Mississippi	297	3,163	443	144	232	3,151	440	114	182
Kean U.	298	ne	ne	509	229	ne	ne	417	151
California State U., San Bernardino	299	1,155	1,831	472	228	1,133	1,717	401	182
Vassar C.	300	704	i 153	400	227	704	i 153	273	142
Northwestern State U. Louisiana	301	407	332	272	224	0	0	0	0
U. Washington, Tacoma	301	234	555	696	224	221	555	696	216
California State U., Los Angeles	303	20	50	i 36	218	12	0	0	218
Calvin U.	303	381	255	239	i 218	i 246	10	10	i 11
Loyola U., Chicago	305	66	100	160	216	38	70	139	161

TABLE 39

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

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Colgate U.	306	250	362	188	214	173	242	165	180
Southern Methodist U.	307	597	1,412	683	205	116	318	290	127
Central Washington U.	308	22	5	58	202	0	5	0	177
Grinnell C.	309	279	416	357	201	111	124	76	77
California State U., Fullerton	310	67	191	83	200	45	0	33	143
Doane U.	311	49	181	186	198	43	170	175	189
U. Houston-Downtown	312	551	71	95	194	550	49	86	175
Florida Polytechnic U.	313	ne	112	241	193	ne	49	64	112
U. Wisconsin-Milwaukee	313	230	337	116	193	172	260	93	157
Bowling Green State U.	315	240	295	274	192	103	110	67	22
Saint Joseph's U.	315	26	42	136	192	23	42	118	155
Colorado State U., Pueblo	317	ne	43	0	190	ne	0	0	190
SUNY, C. of Environmental Science and Forestry	317	0	4	119	190	0	2	23	22
Prairie View A&M U.	319	304	293	292	188	294	271	292	188
U. Washington, Bothell	319	381	738	41	188	285	623	41	119
U. Missouri, Saint Louis	321	834	25	833	187	5	11	3	100
California State U., Stanislaus	322	239	290	331	186	239	290	331	186
C. New Jersey	323	7	ne	194	178	7	ne	194	175
William Paterson U.	323	116	133	125	178	0	0	0	0
U. South Dakota	325	1,346	363	799	174	503	82	665	86
Clafin U.	326	458	447	500	173	458	447	500	173
CUNY, New York City C. of Technology	327	308	210	177	172	299	204	177	156
Western Michigan U. and Homer Stryker M.D. School of Medicine	328	258	212	145	169	136	130	131	150
Connecticut C.	329	11	56	248	168	5	24	83	65
Illinois State U.	329	49	78	65	168	16	17	23	76
U. Minnesota, Morris	329	ne	3	72	168	ne	0	0	0
U. Alaska, Anchorage	332	471	685	165	166	327	578	150	63
Indiana U. Pennsylvania	333	30	10	331	165	15	8	0	34
Clark Atlanta U.	334	182	405	183	160	170	383	166	103
CUNY, system office	335	508	338	215	158	458	284	84	0
North Carolina Central U.	336	0	0	28	157	0	0	12	0
Southern Connecticut State U.	337	8	19	11	154	0	0	0	0
Mount Holyoke C.	338	306	273	141	152	240	226	140	150
Amherst C.	339	26	38	25	150	0	0	0	35

TABLE 39

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

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U.S. Air Force Academy	339	1,044	640	490	150	755	640	490	150
Augusta U.	341	28	24	61	141	28	23	28	84
California State U., Fresno	341	219	46	117	141	175	46	75	141
New Mexico Highlands U.	341	14	ne	134	141 i	0	ne	134	141 i
Mercer U.	344	95	115	136	140	0	0	15	16
U. Central Oklahoma	345	51	133	132 i	139 i	45	133	132 i	139 i
Texas Southern U.	346	276	250	160	136	256	225	149	106
Oregon Institute of Technology	347	326 i	41 i	37 i	134 i	0	0 i	0	20 i
Bucknell U.	348	110	200	122 i	114	4	24	84 i	82
St. Olaf C.	348	33	22	167	114	2	10	132	85
Williams C.	350	240	115	110 i	113 i	216	60	58 i	62 i
Pennsylvania State U., Behrend	351	107	138	119	112	31	47	37	77
C. Wooster	352	8	0	112	109 i	0	0	0	0 i
South Carolina State U.	353	4 i	100	104 i	108 i	0 i	100	104 i	108 i
Oklahoma State U., Center for Health Sciences	354	0	89	95	99	0	0	0	0
Hofstra U.	355	0	58	6	97	0	0	3	45
Colby C.	356	38	37	14	94	31	36	14	78
U. Hawaii, Hilo	356	0	0	1	94	0	0	1	91
Azusa Pacific U.	358	35	12	148	92	0	0	0	9
Coastal Carolina U.	359	18	82	56	91	18	82	56	91
U. of the Virgin Islands	360	303	309	148	90	303	309	148	90
Central Michigan U.	361	6	2	105	87	0	0	0	0
Texas Christian U.	362	0	26	126	86	0	26	101	86
U. Wisconsin-River Falls	362	0	ne	55	86	0	ne	55	86
Humboldt State U.	364	20	87	64	85	0	0	8	27
Arcadia U.	365	ne	ne	ne	84	ne	ne	ne	84
U. of Mary Washington	366	0	1	45	82	0	0	15	19
Bowdoin C.	367	6	16	84	81	0	13	72	74
CUNY, Lehman C.	367	317	0	476	81	253	0	0	0
Marshall U.	369	53	78	287	79	35	34	254	54
Lafayette C.	370	147	124	101	76	142	117	85	46
Mercyhurst U.	370	ne	65 i	67 i	76 i	ne	35 i	36 i	41 i
St. John's U., New York	372	97	128	9	75	0	86	0	59
CUNY, Advanced Science Research Center	373	0	0	0	74	0	0	0	0

TABLE 39

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

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Ithaca C.	374	ne	ne	39	73	ne	ne	39	73
Hawaii Pacific U.	375	0	0	86	72	0	0	72	72
Lamar U.	375	215	582	74	72	146	539	14	33
Reed C.	375	68	128	68	72	0	117	61	65
U. Louisville	378	262	309	97	71	147	112	0	14
Franklin and Marshall C.	379	140	90	7	70	109	46	0	0
Macalester C.	379	0	119	140	70	0	0	0	0
Dordt U.	381	ne	ne	ne	69	ne	ne	ne	69
Carleton C.	382	101	291	111	68	94	73	33	40
Trinity U.	383	60	29	50	64	32	0	15	26
Hope C.	384	0	0	28	63	0	0	0	0
Oberlin C.	385	47	179	144	62	10	130	80	30
Texas A&M U.-Commerce	386	135	64	94	61	7	0	24	53
U. Michigan, Dearborn	386	0	0	11	61	0	0	0	0
Union C., Schenectady	388	50	312	7	59	22	293	3	57
Loyola Marymount U.	389	0	3	24	58	0	0	0	0
SUNY, Oswego	390	17	27	84	56	0	14	52	38
U. Wisconsin-Green Bay	390	39	58	57	56	21	32	35	33
Claremont Graduate U.	392	412	306	207	55	326	206	98	0
CUNY, C. Staten Island	393	52	63	66	54	52	63	65	54
Lawrence Technological U.	393	0	31	63	54	0	31	63	54
Furman U.	395	22	22	45	53	2	9	0	0
Catholic U. of America	396	0	0	0	50	0	0	0	0
Southern Illinois U., Edwardsville	397	195	80	151	49	61	80	39	11
Biola U.	398	36	41	42	48	25	29	30	34
South Dakota School of Mines and Technology	398	0	4	49	48	0	4	49	33
Keene State C.	400	ne	0	0	47	ne	0	0	47
Milwaukee School of Engineering	400	0	0	0	47	0	0	0	47
Northeastern Illinois U.	402	211	217	39	46	211	217	39	46
U. Baltimore	402	25	10	22	46	0	10	10	46
CUNY, Baruch C.	404	30	0	46	45	30	0	46	45
U. Nebraska, Kearney	405	0	0	6	43	0	0	0	0
Fort Valley State U.	406	235	101	0	42	230	101	0	0
Missouri State U.	406	0	2	53	42	0	2	48	15

TABLE 39

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

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. San Diego	406	0	0	0	42	0	0	0	0
U. Wisconsin-La Crosse	406	128	84	68	42	31	5	36	31
Elon U.	410	84	90	36	41	42	42	0	0
U. Maryland Center for Environmental Science	411	0	0	2	40	0	0	0	0
Haverford C.	412	61 i	86 i	101 i	39 i	41	52	39	16
Northern Michigan U.	413	0	0	0	37	0	0	0	37
U. Wisconsin-Platteville	413	ne	18 i	18 i	37 i	ne	12 i	12 i	22 i
Clark U.	415	28	34	60	36	28	33	47	17
Winthrop U.	415	10	0	0	36	0	0	0	36
Northern Kentucky U.	417	67	62	13	34	3	0	0	3
U. Houston-Clear Lake	417	148	37	111	34	86	21	96	23
Central Connecticut State U.	419	ne	16	21	33	ne	0	0	0
Nova Southeastern U.	420	149	246	146	32	140	216	125	0
South Dakota State U.	420	0	0	13	32	0	0	0	0
U. Akron	420	32	7	1	32	29	0	0	32
Grand Valley State U.	423	13	14	9	31	0	0	0	6
Eastern Michigan U.	424	182	201	376	30	59	7	0	0
Youngstown State U.	425	134	17	6	28	129	9	0	28
Sam Houston State U.	426	141	49	18	26	84	0	0	0
Rhode Island C.	427	0	15	63	24	0	15	60	24
California State U., Channel Islands	428	30	2	0	22	0	0	0	0
CUNY, Graduate Center	428	3	0	0	22	0	0	0	22
U. Denver	428	48	111	99	22	48	111	99	22
U. Texas, Tyler	431	19	32	50	21	9	28	26	13
West Chester U. Pennsylvania	431	35	25	7	21	0	0	0	0
Saint John's U.	433	26	26 i	25 i	20 i	0	0 i	0 i	0 i
Bates C.	434	2	47	113	19	2	47	113	19
C. of Saint Benedict	434	54	53 i	51 i	19 i	25	24 i	23 i	2 i
New School	434	41	0	6	19	41	0	0	0
U. Northern Iowa	437	50	0	0	18	29	0	0	0
CUNY, John Jay C. of Criminal Justice	438	34	74	195	16	28	74	193	10
Florida A&M U.	438	1,353	1,268	102	16	1,339	1,257	90	16
Swarthmore C.	438	16	12	15	16	3	0	6	0
U. Michigan, Flint	438	33	14	11	16	0	0	0	0

TABLE 39

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

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. San Francisco	438	30	27	60	16	2	0	0	0
Kentucky State U.	443	132	110	32	15	132	110	32	15
Skidmore C.	444	6	1	6	14	0	0	0	0
Stephen F. Austin State U.	444	0	0	0	14	0	0	0	0
Florida Gulf Coast U.	446	12	145	41	13	12	27	41	13
Spelman C.	446	63	86	34	13	63	86	34	13
Fairfield U.	448	0	0	6	12	0	0	0	1
Johnson C. Smith U.	448	385	395	11	12	335	395	11	12
Sacred Heart U.	448	ne	ne	ne	12	ne	ne	ne	7
Sonoma State U.	448	ne	ne	8	12	ne	ne	0	0
Texas A&M U.-Kingsville	448	0	0	0	12	0	0	0	12
Texas Woman's U.	453	15	15	14	11	15	15	14	11
Trinity C., Hartford	454	247	3	4	9	226	0	0	0
Saginaw Valley State U.	455	13	8	7	7	0	1	1	1
Lincoln U., Jefferson City	456	0	0	0	6	0	0	0	6
Wheaton C., Wheaton	456	0	5	9	6	0	0	0	0
Kettering U.	458	5	15	22	5	0	0	0	0
Long Island U.	458	0	0	0	5	0	0	0	5
East Tennessee State U.	460	0	0	19	4	0	0	0	0
Hamilton C.	460	9	8	89	4	0	0	0	0
Hobart and William Smith Colleges	460	ne	0	0	4	ne	0	0	0
Indiana U., South Bend	463	52	ne	ne	3	49	ne	ne	0
Pennsylvania State U., Harrisburg	464	228	382	130	2	41	5	2	1
Southeastern Louisiana U.	464	0	31	29	2	0	16	5	0
West Virginia State U.	464	106	0	110	2	106	0	99	2
Albion C.	467	31	17	1	1	0	0	0	0
Austin Peay State U.	467	0	11	0	1	0	0	0	0
Drake U.	467	4	0	ne	1	0	0	ne	0
Northwest Indian C.	467	0	0	1	1	0	0	1	1
U. Hartford	467	4	7	5	1	4	7	5	1
All other surveyed institutions	-	49,975	4,605	3,450	0	33,529	2,087	1,436	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 \$261,789 thousand imputed for total and \$251,135 thousand reported for federally financed R&D expenditures in computer and information sciences in FY 2021. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

<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.

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

<sup>e</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

**Note(s):**

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

**Source(s):**

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