

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2022 total: FYs 2019–22

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2019	2020	2021	2022	2019	2020	2021	2022
All institutions	-	2,637,165	2,924,673	2,952,940	3,224,949	1,794,451	1,999,926	1,994,423	2,184,767
Johns Hopkins U. ^a	1	199,773 i	226,696 i	270,040 i	270,237 i	189,011	216,738	258,141	258,511
Carnegie Mellon U.	2	171,110	192,119	196,380	211,839	105,289	119,057	131,071	131,579
Georgia Institute of Technology	3	164,657	185,400	146,318	161,111	145,305	162,577	121,473	127,768
Massachusetts Institute of Technology	4	96,682	111,779	116,877	124,985	43,216	54,491	62,186	68,540
U. Southern California	5	124,944	121,116	115,694	112,104	118,059	115,564	110,401	106,239
U. Illinois, Urbana-Champaign	6	106,430	95,988	99,600	104,436	71,231	64,385	63,076	59,157
U. Texas, Austin	7	66,125	139,290	87,595	100,730	56,350	128,322	79,109	88,477
Pennsylvania State U., University Park and Hershey Medical Center	8	69,638	89,490	73,737	79,162	56,256	76,419	56,263	62,351
U. Maryland ^b	9	47,841	50,541	50,483	63,281	32,963	34,576	33,768	38,622
U. Alabama, Huntsville	10	29,177	36,636	48,967	60,893	28,023	35,309	45,627	54,406
Indiana U., Bloomington	11	36,195	41,892	38,843	40,488	21,764	24,346	23,657	27,634
U. North Carolina, Chapel Hill	12	23,146	26,765	32,344	39,486	19,037	20,870	27,834	32,390
Purdue U., West Lafayette	13	23,177	27,886	22,324	38,868	14,972	20,261	15,679	30,059
Columbia U. in the City of New York	14	24,725	25,101	27,763	31,786	22,935	22,817	24,889	26,721
U. Chicago	15	26,606	24,422	26,205	31,302	25,298	23,454	25,470	30,256
U. Massachusetts, Amherst	16	27,702	31,199	27,336	30,721	16,035	16,804	15,410	17,579
U. Wisconsin-Madison	17	20,372	28,241	23,678	30,295	13,735	15,975	14,687	19,278
Cornell U.	18	29,330	31,173	28,125	29,874	19,491	18,829	19,456	20,092
U. Pennsylvania	19	26,968	26,318	27,396	29,513	16,242	15,361	16,523	16,990
U. Utah	20	40,967 i	37,159 i	33,446 i	29,132	25,364	23,621	21,958	26,098
U. California, San Diego	21	28,302	30,370	46,962	28,879	13,478	16,179	18,932	24,372
U. Minnesota, Twin Cities	22	22,227	22,996	22,629	28,809	9,064	9,283	9,509	8,091
Virginia Polytechnic Institute and State U.	23	23,536	30,405	25,466	28,642	9,830	11,637	8,484	9,291
Princeton U.	24	19,725	24,160	23,518	28,066	10,723	14,612	14,768	16,783
Northeastern U.	25	19,362	21,118	21,505	27,623	15,979	17,176	16,182	17,903
U. Virginia, Charlottesville	26	20,017	26,286	24,669	27,291	14,945	20,924	20,384	21,875
Ohio State U.	27	23,393	22,869	16,691	27,225	9,151	8,892	6,904	9,761
U. Central Florida	28	29,865	29,421	32,242	26,882	18,069	18,093	21,437	17,352
U. Washington, Seattle	29	24,969	27,986	26,869	25,836	16,374	18,140	17,605	17,137
Texas A&M U., College Station and Health Science Center	30	21,800	18,504	19,178	25,705	10,724	9,988	12,013	17,584
Stanford U.	31	24,575	26,512	23,232	25,448	12,782	15,368	14,181	15,804
George Mason U.	32	31,219	23,969	24,420	25,373	28,895	21,728	19,379	19,743
U. Louisiana, Lafayette	33	11,650	11,111	16,823	25,361	2,169	1,050	3,227	12,682
U. California, Irvine	34	19,463	21,573	23,444	24,680	10,548	10,957	11,215	12,523

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		2019	2020	2021	2022	2019	2020	2021	2022
Harvard U.	35	15,229	15,250	20,858	21,712	12,576	11,955	11,767	13,098
U. Texas, San Antonio	36	12,132	12,064	19,203	21,484	7,721	5,470	11,594	13,737
Arizona State U.	37	21,871	22,231	22,498	21,414	11,734	15,176	14,325	14,710
North Carolina State U.	38	14,614	16,119	17,016	20,889	10,351	11,737	12,833	12,459
SUNY, U. Buffalo	39	15,899	18,747	17,679	20,493	9,268	10,894	8,770	8,443
U. Colorado Boulder	40	14,909	15,627	16,468	19,612	14,061	14,941	15,321	18,032
Louisiana State U., Baton Rouge	41	6,538	8,284	15,399	18,477	4,051	5,502	10,944	14,250
Florida International U.	42	14,911	16,175	16,708	18,348	10,990	9,863	8,929	9,924
Georgetown U.	43	3,836	18,620	19,590	18,321	2,137	3,947	3,703	2,402
U. Arizona	44	12,370	15,084	16,503	18,270	7,066	7,670	8,999	10,037
Dartmouth C. and Dartmouth Hitchcock Medical Center	45	15,753	14,889	18,556	17,794	5,230	5,114	5,783	4,922
U. Hawaii, Manoa	46	10,173	11,963	11,590	17,690	9,899	11,055	11,062	17,342
Boston U.	47	11,919	14,251	14,542	17,480	5,295	5,902	6,725	7,577
Brown U.	48	14,727	15,695	14,984	16,895	10,694	10,937	10,480	11,643
U. Michigan, Ann Arbor	49	12,983	15,180	13,922	16,789	4,804	6,046	5,841	9,398
U. Alabama, Tuscaloosa	50	12,482	12,836	12,797	16,400	4,439	4,044	4,438	5,591
Michigan State U.	51	19,013	15,783	15,996	15,978	8,474	7,631	6,720	7,450
U. Florida	52	13,569	13,006	15,238	15,896	8,507	9,016	8,849	10,685
U. Notre Dame	53	16,400	14,904	13,961	15,067	10,201	8,265	8,037	6,781
U. California, Los Angeles	54	15,867	17,480	16,186	14,755	8,724	10,302	10,475	9,952
Rensselaer Polytechnic Institute	55	11,282	14,686	13,145	14,752	5,853	4,377	5,398	5,250
New York U.	56	14,607	14,584	15,246	14,731	8,151	9,125	9,830	9,646
New Mexico Institute of Mining and Technology	57	1,169	2,780	6,732	14,645	1,062	2,748	6,668	13,911
Vanderbilt U. and Vanderbilt U. Medical Center	58	0	0	18,226	14,617	0	0	12,495	13,064
U. Maryland, Baltimore County	59	8,065	11,590	12,102	13,685	4,989	6,765	7,385	7,816
U. California, Santa Barbara	60	10,965	9,231	11,503	13,354	6,351	5,973	6,064	7,620
SUNY, Stony Brook U.	61	9,726	10,909	12,621	12,929	7,788	8,530	10,753	10,872
U. Illinois, Chicago	62	10,522	12,999	12,103	12,880	5,679	7,580	6,425	6,989
U. California, Berkeley	63	12,125	12,701	9,583	12,736	690	255	201	1,157
U. Pittsburgh, Pittsburgh	64	9,734	9,312	10,455	11,763	6,889	6,612	6,917	8,113
California Institute of Technology	65	14,405	15,072	13,508	11,363	10,511	11,277	9,772	7,541
Naval Postgraduate School	66	11,598	7,345	6,058	11,304	6,843	4,608	3,953	4,953
U. Nebraska, Lincoln	67	8,919	8,541	9,905	11,208	4,828	4,420	4,327	3,973
Rice U.	68	11,939	10,760	11,623	11,172	10,013	7,698	8,006	7,325
U. Tennessee, Knoxville ^c	69	14,744	13,906	11,725	10,765	10,706	11,049	8,756	7,689

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New Jersey Institute of Technology	70	10,619	10,325	11,575	10,764	3,885	3,428	3,448	3,214
U. Dayton	71	4,245	7,200	7,528	10,551	3,453	5,964	6,724	10,116
U. Texas, Dallas	72	8,136	9,992	8,945	10,179	4,763	6,289	6,367	6,495
Northwestern U.	73	3,035	8,441	8,957	10,117	1,459	5,024	5,873	6,580
Worcester Polytechnic Institute	74	7,301	10,150	10,707	10,044	5,023	7,300	7,405	7,543
Rochester Institute of Technology	75	6,328	8,910	8,809	9,956	3,189	5,556	5,662	5,594
U. Massachusetts, Lowell	76	7,481	7,153	7,420	9,858	4,108	4,051	4,440	6,127
U. South Florida ^d	77	7,707	9,417	11,614	9,503	3,184	2,582	2,875	4,608
Rutgers, State U. New Jersey, New Brunswick	78	5,881	6,402	6,316	9,306	4,381	4,851	3,942	5,254
U. North Texas, Denton	79	5,879	4,769	7,269	9,124	1,966	1,262	2,189	2,610
Florida State U.	80	11,557	10,349	10,320	9,004	3,787	3,969	3,710	3,159
U. North Carolina, Charlotte	81	10,468	10,163	18,214	8,681	8,286	8,343	8,282	7,560
Yale U.	82	5,996	5,969	7,379	8,675	4,245	3,666	5,107	6,245
Clemson U.	83	5,193	4,852	7,040	8,664	2,663	2,355	3,143	4,950
Washington State U.	84	8,705	8,251	8,393	8,523	3,520	4,027	4,772	5,753
Rockefeller U.	85	8,037	9,058	8,886	8,486	0	0	0	0
U. Texas, Arlington	86	7,191	7,572	6,865	8,415	2,575	2,817	2,674	2,977
Duke U.	87	5,845	6,019	5,273	8,320	5,497	5,535	4,468	7,363
George Washington U.	88	8,578	7,308	7,326	8,137	4,266	3,135	2,907	3,209
Michigan Technological U.	89	2,158	2,994	4,582	7,889	588	1,054	2,074	4,749
U. Texas, El Paso	90	5,851	7,597	6,234	7,833	4,796	5,639	4,670	5,880
SUNY, Binghamton U.	91	7,176	7,873	8,490	7,724	2,607	2,734	1,910	1,737
Mississippi State U.	92	6,944	5,189	5,546	7,546	3,822	1,749	2,269	4,566
U. California, Riverside	93	9,450	8,974	8,295	7,468	7,221	5,999	5,841	5,927
Virginia Commonwealth U.	94	1,286	2,138	6,270	7,073	1,286	1,584	1,335	1,398
U. Arkansas, Fayetteville	95	5,088	4,591	5,882	6,819	2,008	1,753	2,541	4,113
U. Memphis	96	9,482	8,486	7,957	6,795	6,188	4,277	4,492	5,111
Temple U.	97	4,560	5,901	6,327	6,734	2,818	2,496	2,571	3,381
U.S. Military Academy	98	1,687	469	2,305	6,651	1,687	469	1,878	6,609
U. Oklahoma, Norman and Health Science Center	99	1,752	3,019	4,661	6,637	1,354	1,285	2,414	4,383
U. Oregon	100	5,059	5,652	6,362	6,598	3,738	4,228	4,811	5,083
Drexel U.	101	4,298	4,105	5,655	6,589	2,827	2,885	4,413	5,308
U. Houston	102	4,819	5,599	4,352	6,539	3,033	2,546	2,337	3,307
U. Missouri, Columbia	103	4,567	4,187	6,866	6,157	3,924	3,674	5,692	3,774
SUNY, U. Albany	104	6,541	6,591	5,230	6,141	2,709	2,739	1,596	1,517

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		2019	2020	2021	2022	2019	2020	2021	2022
U. Nevada, Reno	105	7,812	7,550	6,843	6,103	2,858	3,390	3,896	5,808
U. Kentucky	106	3,165	4,054	4,011	5,913	1,639	1,554	2,223	3,569
Oregon State U.	107	8,869	8,213	7,241	5,820	7,304	6,218	6,182	4,593
Iowa State U.	108	8,296	7,666	5,844	5,782	4,152	4,815	3,093	2,838
U. California, Davis	109	7,562	7,256	5,934	5,764	5,544	5,005	4,367	4,762
U. Delaware	110	5,274	6,648	4,182	5,740	4,540	5,643	3,404	3,963
U. Georgia	111	3,731	3,760	4,121	5,509	1,453	1,105	1,258	2,085
U. California, Santa Cruz	112	4,401	5,009	5,128	5,441	1,910	2,199	2,407	2,943
Texas Tech U.	113	4,427	5,111	4,274	5,410	1,019	1,160	916	933
Georgia State U.	114	3,562	3,435	4,896	5,346	1,885	1,531	1,643	1,962
Wright State U.	115	2,986	2,034	3,531	5,329	1,684	871	2,740	4,576
Florida Institute of Technology	116	4,242	4,287	5,643	5,289	3,930	3,223	3,698	4,101
Auburn U., Auburn	117	4,368	5,006	5,127	5,174	1,505	1,740	2,151	1,506
Indiana U.-Purdue U., Indianapolis	118	3,920	5,006	4,643	5,049	2,106	3,307	2,798	2,759
Syracuse U.	119	5,571	5,081	5,582	4,858	2,621	1,266	1,557	1,367
U. West Florida	120	1,845	1,995	2,510	4,832	471	460	1,625	3,654
Stevens Institute of Technology	121	3,666	3,606	4,984	4,815	3,325	3,454	4,104	3,994
U. Nebraska, Omaha	122	3,287	3,185	2,588	4,810	2,097	1,827	1,591	3,575
U. Connecticut	123	5,103	5,575	5,294	4,766	2,815	3,194	3,271	2,672
Emory U.	124	2,427	2,345	2,841	4,730	113	323	964	1,817
Washington U., Saint Louis	125	5,504	5,467	4,575	4,634	4,583	4,675	4,167	4,059
U. South Carolina, Columbia	126	2,436	4,129	3,311	4,628	1,526	1,989	2,248	2,838
Dakota State U.	127	3,694	4,337	3,080	4,589	3,006	3,909	2,443	3,976
Toyota Technological Institute, Chicago	128	3,681	5,887	4,967	4,470	1,934	3,038	3,090	2,199
U. Kansas	129	4,004	4,416	3,652	4,418	2,285	2,887	2,269	2,910
U. New Mexico	130	3,649	3,964	3,657	4,264	2,616	2,876	2,760	3,287
U. Iowa	131	3,599	3,547	4,180	4,187	2,958	2,673	2,842	3,020
New Mexico State U.	132	2,705	4,539	4,043	4,103	2,296	3,869	3,464	3,334
Colorado State U., Fort Collins	133	4,278	4,278	3,621	4,052	3,761	3,645	3,125	3,517
Kansas State U.	134	2,923	3,511	3,898	3,900	1,637	1,844	2,377	2,185
U. Tulsa	135	2,426	3,139	3,521	3,849	1,660	2,531	2,365	2,909
U. Idaho	136	1,238	1,595	2,184	3,673	872	985	1,476	2,750
U. Cincinnati	137	1,516	2,031	3,614	3,655	70	123	205	507
U. Vermont	138	2,829	3,036	2,978	3,614	1,636	911	951	1,073
Oakland U.	139	847	1,073	1,150	3,608	500	482	613	949

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Utah State U.	140	2,040	2,538	3,039	3,545	1,262	1,543	1,812	1,910
U. Texas Rio Grande Valley	141	824	1,520	1,581	3,543	205	252	188	1,447
Tennessee Technological U.	142	2,416	2,221	2,581	3,541	1,417	1,364	1,543	2,256
Kennesaw State U.	143	1,706	3,727	3,745	3,538	174	105	125	268
Air Force Institute of Technology	144	2,733	2,441	1,921	3,474	1,817	1,656	1,551	1,794
Boise State U.	145	1,454	1,761	1,686	3,448	764	1,216	1,197	1,733
Colorado School of Mines	146	2,782	3,748	3,894	3,443	2,593	3,461	3,746	3,135
Illinois Institute of Technology	147	3,005	2,988	2,647	3,307	2,760	2,708	2,355	2,983
Teachers C., Columbia U.	148	1,948	2,459	2,913	3,235	1,320	1,284	1,570	1,938
Brandeis U.	149	1,560	2,999	3,208	3,218	1,130	1,561	1,006	1,082
U. Arkansas, Little Rock	150	3,486	3,246	3,312	3,204	2,517	2,691	3,089	2,898
Case Western Reserve U.	151	50	34	2,407	3,165	50	34	1,888	2,580
Oklahoma State U., Stillwater	152	3,673	5,361	3,636	3,099	547	371	460	423
U. Rochester	152	3,657	4,021	3,608	3,099	3,167	3,383	3,190	2,345
Montana State U., Bozeman	154	1,427	1,459	2,625	3,026	1,104	1,149	1,141	1,386
North Dakota State U.	155	2,556	3,433	2,929	2,957	943	463	346	694
Missouri U. of Science and Technology	156	2,496	2,648	2,545	2,899	1,198	1,337	1,228	1,335
William & Mary	157	2,914	2,917	2,575	2,873	1,852	1,881	1,670	1,887
Florida Atlantic U.	158	2,170	2,586	2,479	2,776	1,119	1,309	1,562	1,715
Rutgers, State U. New Jersey, Camden	159	1,169	1,848	2,353	2,722	1,039	1,789	2,111	2,279
Old Dominion U.	160	2,530	2,196	2,693	2,672	1,061	874	1,196	1,430
Citadel Military C. South Carolina	161	ne	380	1,033	2,615	ne	378	1,023	2,608
U. Colorado Colorado Springs	162	928	1,035	1,965	2,607	865	1,023	1,921	2,394
Tufts U.	163	3,777	4,273	1,045	2,568	3,777	4,128	942	1,132
U. Massachusetts, Dartmouth	164	1,393	1,572	1,718	2,552	181	448	60	735
Northern Arizona U.	165	3,383	2,671	4,037	2,492	282	698	811	1,247
Embry-Riddle Aeronautical U.	166	0	526	2,136	2,417	0	406	1,697	1,888
Baylor U.	167	581	1,011	1,148	2,382	0	97	101	625
Lehigh U.	168	2,164	2,333	2,514	2,373	1,382	1,521	1,734	1,653
San Diego State U.	169	1,563	1,519	1,439	2,321	874	636	657	776
U. North Dakota	170	2,059	3,199	1,856	2,266	45	336	693	1,014
Rutgers, State U. New Jersey, Newark	171	1,970	2,269	2,013	2,252	1,849	2,269	1,984	1,899
U. Wyoming	172	342	581	1,580	2,220	336	541	971	1,123
Wayne State U.	173	1,881	2,133	2,158	2,214	1,145	1,066	1,353	1,568
U. Montana, Missoula	174	1,291	1,746	2,207	2,206	945	1,371	1,619	1,314

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U. Maine	175	1,377	1,967	2,585	2,084	313	629	824	605
U. Massachusetts, Boston	176	1,949	1,242	2,709	1,996	781	525	716	724
Gallaudet U.	177	645	486	2,141	1,954	463	319	1,364	1,587
Louisiana Tech U.	178	1,856	2,475	1,952	1,938	385	726	396	314
Montclair State U.	179	427	535	314	1,888	235	117	107	445
San Francisco State U.	180	840	1,482	i 1,579	1,878	143	558	i 564	582
Tulane U.	181	2,312	2,257	1,873	1,713	1,438	1,803	1,472	1,433
Marquette U.	182	178	834	1,439	1,681	0	324	675	1,058
U. Miami	183	1,140	283	835	1,620	552	91	586	1,542
Kent State U.	184	1,766	1,766	1,509	1,619	396	605	456	445
Texas State U.	185	2,096	2,197	1,200	1,598	876	768	818	1,064
Howard U.	186	1,328	1,523	1,747	1,576	655	655	740	570
West Virginia U.	187	1,150	1,894	2,179	1,562	1,103	1,646	1,742	1,239
CUNY, Hunter C.	188	2,001	1,726	1,395	1,556	1,594	1,474	1,165	1,343
U. Nevada, Las Vegas	188	1,662	1,077	1,015	1,556	643	314	443	758
U. Southern Maine	190	1,283	1,190	1,422	1,553	0	0	0	0
Brigham Young U., Provo	191	1,578	1,350	929	1,533	1,440	1,199	841	1,097
Portland State U.	192	1,370	1,164	1,644	1,521	1,073	996	1,390	1,397
California State U., Monterey Bay	193	512	1,023	1,298	1,517	141	734	721	949
U. New Orleans	194	2,045	1,591	1,370	1,492	866	637	451	449
U. New Hampshire	195	883	854	1,057	1,465	526	576	567	606
U. South Alabama	196	3,355	3,846	3,722	1,432	3,256	3,705	3,560	1,349
Boston C.	197	559	599	663	1,399	335	411	402	883
U. California, Merced	198	157	194	1,134	1,387	157	116	862	827
U. New Haven	199	129	602	1,359	1,363	123	562	1,117	1,215
Virginia Military Institute	200	ne	ne	ne	1,304	ne	ne	ne	1,031
Saint Louis U.	201	655	1,164	1,345	1,221	412	578	734	429
Florida A&M U.	202	1,268	102	16	1,208	1,257	90	16	1,208
Towson U.	203	500	603	530	1,204	383	488	416	909
Bowie State U.	204	508	682	446	1,169	508	682	446	1,169
Creighton U.	205	846	i 730	i 928	i 1,153	i 432	i 396	i 493	i 690
Georgia Southern U.	206	134	65	1,045	1,104	94	16	99	16
U. Missouri, Kansas City	207	1,456	1,625	1,698	1,075	267	399	509	31
Middle Tennessee State U.	208	323	245	1,000	1,050	236	204	283	181
California State U., Fullerton	209	191	83	200	1,047	0	33	143	156

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2022 total: FYs 2019–22

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2019	2020	2021	2022	2019	2020	2021	2022
North Carolina A&T State U.	210	1,861	1,742	1,227	1,008	1,658	1,567	1,148	922
Northern Illinois U.	211	935	661	944	983	383	332	669	608
James Madison U.	212	661	325	845	961	47	18	26	72
U. Alaska, Fairbanks	213	1,058	1,148	1,116	907	590	820	947	724
Pace U.	214	775	1,043	758	903	609	903	598	727
U. North Carolina, general administration	214	723	1,168	1,192	903	0	10	13	51
U. Alabama, Birmingham	216	827	1,502	1,356	898	751	1,356	1,250	897
Tuskegee U.	217	401	409	463	875	401	409	463	875
U.S. Naval Academy	218	1,190	1,519	774	867	1,176	1,413	684	804
Kean U.	219	ne	509	229	850	ne	417	151	237
U. Tennessee, Chattanooga	220	634	975	899	830	462	873	879	716
CUNY, City C.	221	990	1,490	778	820	656	803	552	524
Tarleton State U.	222	10	412	395	763	0	0	0	0
American U.	223	2,122	672	649	753	159	264	146	184
Yeshiva U.	224	0	0	0	749	0	0	0	0
U. Rhode Island	225	687	523	439	743	687	465	416	701
U. Nebraska, central administration	226	3,634	1,385	448	742	3,634	1,385	448	742
DePaul U.	227	1,661	1,528	1,552	736	1,515	1,448	1,396	613
Idaho State U.	228	792	820	686	735	707	651	503	544
Hampton U.	229	448	699	994	720	448	699	994	720
Harvey Mudd C.	230	730	791	645	711	516	640	512	573
Chapman U.	231	244	665	701	708	72	0	0	0
Xavier U. Louisiana	232	442	100	652	696	416	87	652	673
U. Colorado Denver ^e	233	na	na	475	687	na	na	411	619
California State U., San Bernardino	234	1,831	472	228	672	1,717	401	182	580
Jackson State U.	235	567	502	662	671	423	418	468	486
U. Southern Mississippi	236	443	144	232	662	440	114	182	537
Southern U. and A&M C., Baton Rouge	237	172	202	473	611	170	189	473	611
U. Central Arkansas	238	442	426	470	610	320	381	358	509
U. Puerto Rico, Rio Piedras	239	654	207	604	609	462	75	258	331
Morgan State U.	240	222	520	660	605	199	519	624	539
Elizabeth City State U.	241	ne	112	518	585	ne	101	466	348
U. North Florida	242	123	178	418	575	0	51	304	416
Rowan U.	243	391	482	588	540	131	256	453	422
U. Washington, Bothell	244	738	41	188	537	623	41	119	498

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2022 total: FYs 2019–22

(Dollars in thousands)

Institution	Rank	Total				Federally financed					
		2019	2020	2021	2022	2019	2020	2021	2022		
Clarkson U.	245	506	517	776	531	427	421	700	501		
U. Hawaii, system office	246	0	1,715	1,327	520	0	1,694	1,313	515		
Fordham U.	247	635	390	287	511	160	164	101	121		
CUNY, Queens C.	248	155	182	294	508	73	135	253	313		
Smith C.	249	427	391	352	504	348	328	320	284		
Southern Methodist U.	250	1,412	683	205	494	318	290	127	247		
East Carolina U.	251	554	828	603	484	277	213	309	358		
Fayetteville State U.	252	220	131	584	472	220	131	334	233		
Miami U.	253	775	721	564	462	411	298	68	0		
Loyola U., Chicago	254	100	160	216	456	70	139	161	356		
U. North Georgia	254	12	37	335	456	0	37	335	456		
U. Virginia's C. Wise	256	ne	ne	1,174	455	ne	ne	1,174	447		
California State U., San Marcos	257	654	987	620	450	654	987	620	450		
U. South Dakota	257	363	799	174	450	82	665	86	138		
Wellesley C.	259	632	431	505	437	417	430	500	437		
Fisk U.	260	86	93	415	431	0	0	415	425		
U. Washington, Tacoma	261	555	696	224	421	555	696	216	421		
Winston-Salem State U.	262	0	443	590	419	0	443	251	339		
California State U., Dominguez Hills	263	243	700	620	413	239	633	547	346		
SUNY, C. of Environmental Science and Forestry	264	4	119	190	409	i	23	22	212		
Central Washington U.	265	5	58	202	406	5	0	177	381		
Carleton C.	266	291	111	68	402	73	33	40	80		
Wake Forest U.	267	81	226	266	401	81	59	145	308		
U. North Carolina, Greensboro	268	16	510	806	398	0	323	692	322		
Morehouse C.	269	914	1,141	540	396	914	1,141	540	396		
Clark Atlanta U.	270	405	183	160	395	383	166	103	231		
Purdue U., Northwest	271	919	524	863	394	883	491	836	369		
California State U., Long Beach	272	74	102	271	390	69	42	90	178		
Southern Illinois U., Carbondale	273	545	396	566	389	13	33	0	0		
Clafin U.	274	447	500	173	387	447	500	173	387		
Black Hills State U.	275	0	480	295	385	0	452	295	363		
Tennessee State U.	276	328	430	371	i	384	317	421	0	i	
U. Wisconsin-Milwaukee	277	337	116	193	376	260	93	157	0		
Alabama A&M U.	278	441	i	301	i	333	i	372	i	343	i
Villanova U.	279	498	527	413	360	131	179	148	57		

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2022 total: FYs 2019–22

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2019	2020	2021	2022	2019	2020	2021	2022
California Polytechnic State U., San Luis Obispo	280	850	626	679	359	587	362	436	253
Texas A&M U.-Corpus Christi	281	1,008	222	313	355	850	204	258	301
Marymount U.	282	ne	ne	655	350	ne	ne	174	161
Ball State U.	283	1,236	1,263	1,079	348	365	258	22	128
Norfolk State U.	284	5,010	4,921	1,957	344	5,010	4,921	1,957	298
U. Baltimore	285	10	22	46	336	10	10	46	310
Bryn Mawr C.	286	332	691	356	335	222	226	134	120
Salisbury U.	287	351	346	303	328	174	57	101	225
Appalachian State U.	288	198	336	356	327	170	233	323	260
Colorado State U., Pueblo	289	43	0	190	326	0	0	190	326
New York Institute of Technology	290	181	188	303	323	181	132	183	89
Western Washington U.	291	93	318	383	316	93	274	343	196
Occidental C.	292	254	236	280	313	254	236	280	313
California State Polytechnic U., Pomona	293	225	653	360	304	216	607	335	276
Loyola Marymount U.	294	3	24	58	303	0	0	0	114
C. Charleston	295	280	162	322	300	235	90	242	190
Arkansas State U., Jonesboro	296	332	290	239	299	259	158	95	138
Augusta U.	297	24	61	141	291	23	28	84	228
U. North Carolina, Asheville	298	128	310	284	289	128	310	284	289
California State U., East Bay	299	ne	329	264	287	ne	61	0	0
U. North Carolina, Wilmington	300	110	210	244	280	69	130	209	214
Grinnell C.	301	416	357	201	278	124	76	77	123
CUNY, Brooklyn C.	302	388	403	314	273	342	356	290	251
St. Edward's U.	303	1,010	1,150	1,050	270	550	700	600	120
Saginaw Valley State U.	304	8	7	7	268	1	1	1	254
U. of the Virgin Islands	305	309	148	90	267	309	148	90	267
West Texas A&M U.	306	58	210	301	257	24	116	161	144
U. of the District of Columbia	307	0	79	242	255	0	79	242	255
U. Puerto Rico, Mayaguez	308	0	0	0	254	0	0	0	192
U. Mississippi	309	584	207	273	251	42	101	119	104
Barnard C.	310	1	149	260	250	0	60	107	101
California State U., Los Angeles	311	50	36	218	241	0	0	218	241
Texas A&M U.-San Antonio	312	ne	ne	ne	239	ne	ne	ne	151
U. Central Oklahoma	313	133	132	139	238	133	132	139	127
Mount Holyoke C.	314	273	141	152	235	226	140	150	225

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2022 total: FYs 2019–22

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2019	2020	2021	2022	2019	2020	2021	2022
California State U., Fresno	315	46	117	141	234	46	75	141	202
Eastern Michigan U.	316	201	376	30	232	7	0	0	11
C. New Jersey	317	ne	194	178	221	ne	194	175	212
California State U., Sacramento	317	123	178	340	221	41	105	219	166
California State U., Stanislaus	319	290	331	186	215	290	331	186	208
Florida Polytechnic U.	320	112	241	193	210	49	64	112	138
U.S. Air Force Academy	320	640	490	150	210	640	490	150	150
U. San Francisco	322	27	60	16	204	0	0	0	0
Marshall U.	323	78	287	79	201	34	254	54	163
CUNY, New York City C. of Technology	324	210	177	172	195	204	177	156	164
Alabama State U.	325	0	0	0	192	0	0	0	192
Johnson C. Smith U.	326	395	11	196	i 188	395	11	180	i 164
New Mexico Highlands U.	327	ne	134	141	i 186	ne	134	141	i 184
Delaware State U.	328	1	358	i 334	185	0	156	i 179	29
U. Missouri, Saint Louis	329	25	833	187	184	11	3	100	22
Davidson C.	330	0	0	0	179	0	0	0	164
California State U., Northridge	331	189	201	380	173	91	201	358	105
Youngstown State U.	332	17	6	28	167	9	0	28	156
Hofstra U.	333	58	6	97	166	0	3	45	33
Illinois State U.	334	78	65	168	165	17	23	76	141
Amherst C.	335	38	25	150	i 164	0	0	35	61
Middlebury C.	336	269	117	241	162	269	117	241	152
Oregon Institute of Technology	337	41	i 37	i 134	i 160	i 0	0	20	i 27
St. John's U., New York	337	128	9	75	160	86	0	59	131
Western Michigan U. and Homer Stryker M.D. School of Medicine	339	212	145	169	159	130	131	150	142
Lamar U.	340	582	74	72	154	539	14	33	72
Reed C.	341	128	68	72	i 151	i 117	61	65	i 84
San Jose State U.	341	8	10	297	151	0	0	0	0
Mercer U.	343	115	136	140	149	0	15	16	3
Long Island U.	344	0	0	5	142	0	0	5	28
Texas A&M U.-Commerce	345	64	94	61	141	0	24	53	93
Clark U.	346	34	60	36	138	33	47	17	11
North Carolina Central U.	346	0	28	157	138	0	12	0	0
U. Houston-Downtown	348	71	95	194	135	49	86	175	133
Connecticut C.	349	56	248	168	134	24	83	65	48

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2022 total: FYs 2019–22

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2019	2020	2021	2022	2019	2020	2021	2022
Prairie View A&M U.	349	293	292	188	134	271	292	188	103
Coastal Carolina U.	351	82	56	91	133	82	56	91	133
CUNY, C. Staten Island	351	63	66	54	133	63	65	54	119
U. Minnesota, Duluth	351	283	289	242	133	111	163	136	5
Vassar C.	351	153	400	227	133	153	273	142	113
Northwestern State U. Louisiana	355	332	272	224	132	0	0	0	0
Texas Southern U.	355	250	160	136	132	225	149	106	99
U. Toledo	357	0	0	0	127	0	0	0	0
Saint Joseph's U.	358	42	136	192	126	42	118	155	85
Utah Valley U.	359	ne	ne	ne	123	ne	ne	ne	123
Northern Kentucky U.	360	62	13	34	122	0	0	3	14
Southern Connecticut State U.	361	19	11	154	121	0	0	0	2
Pomona C.	362	195	95	272	120	112	95	118	50
Williams C.	362	115	110 i	113 i	120 i	60	58 i	62 i	47 i
U. Louisville	364	309	97	71	119	112	0	14	78
South Carolina State U.	365	100	104 i	108 i	117 i	100	104 i	108 i	117 i
Bucknell U.	366	200	122 i	114	113	24	84 i	82	10
CUNY, system office	366	338	215	158	113	284	84	0	8
Indiana U. Pennsylvania	366	10	331	165	113	8	0	34	113
Grand Valley State U.	369	14	9	31	111	0	0	6	8
Texas Christian U.	370	26	126	86	106	26	101	86	104
U. Nebraska, Kearney	371	0	6	43	105	0	0	0	0
Northeastern Illinois U.	372	217	39	46	104	217	39	46	104
Oklahoma State U., Center for Health Sciences	372	89	95	99	104	0	0	0	0
Colgate U.	374	362	188	214	101	242	165	180	79
Central Michigan U.	375	2	105	87	100	0	0	0	0
Bowling Green State U.	376	295	274	192	97	110	67	22	1
Colby C.	376	37	14	94	97	36	14	78	63
Seattle U.	378	35	21	0	93	0	0	0	1
Sul Ross State U.	379	0	0	0 i	92 i	0	0	0 i	49 i
Tougaloo C.	379	0	0	0 i	92 i	0	0	0 i	92 i
Ohio U.	381	712	703	271	89	165	103	243	21
U. Hawaii, Hilo	381	0	1	94	89	0	1	91	82
Rhode Island C.	383	15	63	24	85	15	60	24	85
Framingham State U.	384	ne	0	0 i	82 i	ne	0	0 i	20 i

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2022 total: FYs 2019–22

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2019	2020	2021	2022	2019	2020	2021	2022
Chicago State U.	385	0	ne	ne	78	0	ne	ne	78
U. Denver	385	111	99	22	78	111	99	22	36
U. Wisconsin-Green Bay	387	58 i	57 i	56 i	77 i	32 i	35 i	33 i	39 i
California State Polytechnic U., Humboldt	388	87	64	85	76	0	8	27	10
Claremont Graduate U.	388	306	207	55	76	206	98	0	0
U. Wisconsin-La Crosse	388	84	68	42	76	5	36	31	62
Bentley U.	391	ne	ne	ne	75	ne	ne	ne	75
Hope C.	392	0	28	63	74	0	0	0	0
Calvin U.	393	255	59 i	66 i	73 i	10	44 i	44 i	44
Trinity U.	394	29	50	64	72	0	15	26	27
Southern Illinois U., Edwardsville	395	80	151	49	71	80	39	11	1
Swarthmore C.	395	12	15	16	71	0	6	0	55
U. of the Pacific	397	0	0	0	70	0	0	0	0
California State U., Channel Islands	398	2	0	22	69	0	0	0	62
Union C., Schenectady	398	312	7	59	69	293	3	57	49
Western New England U.	398	ne	ne	ne	69	ne	ne	ne	69
Pacific U.	401	0	0	0	66	0	0	0	0
Meharry Medical C.	402	0	0	0	65	0	0	0	65
Milwaukee School of Engineering	402	0	0	47	65	0	0	47	65
Bowdoin C.	404	16	84	81	64	13	72	74	51
Winthrop U.	404	0	0	36	64	0	0	36	58
Albion C.	406	17	1	1 i	63 i	0	0	0 i	46 i
Wichita State U.	406	0	0	0	63	0	0	0	0
William Paterson U.	408	133	125	178	60	0	0	0	0
Ithaca C.	409	ne	39	73	57	ne	39	73	57
Nova Southeastern U.	409	246	146	32	57	216	125	0	0
Lawrence Technological U.	411	31	63	54	53	31	63	54	53
U. Alaska, Anchorage	412	685	165	166	48	578	150	63	31
Haverford C.	413	86 i	101 i	39 i	47 i	52	39	16	18
Pennsylvania State U., Behrend	413	138	119	112	47	47	37	77	29
U. Wisconsin-Eau Claire	415	0	0	0	46	0	0	0	0
South Dakota State U.	416	0	13	32	44	0	0	0	0
U. Akron	416	7	1	32	44	0	0	32	43
U. Wisconsin-Platteville	416	18 i	18 i	37 i	44 i	12 i	12 i	22 i	27 i
Robert Morris U.	419	ne	ne	ne	41 i	ne	ne	ne	29 i

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2022 total: FYs 2019–22

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2019	2020	2021	2022	2019	2020	2021	2022
Bates C.	420	47	113	19	40	47	113	19	33
West Chester U. Pennsylvania	421	25	7	21	39	0	0	0	0
Southeastern Louisiana U.	422	31	29	2	38	16	5	0	0
SUNY, Oswego	422	27	84	56	38	14	52	38	30
U. Texas, Tyler	422	32	50	21	38	28	26	13	37
Lafayette C.	425	124	101	76	35	117	85	46	7
Franklin and Marshall C.	426	90	7	70	33	46	0	0	0
Azusa Pacific U.	427	12	148	92	29	0	0	9	0
Furman U.	428	22	45	53	28	9	0	0	0
Northern Michigan U.	428	0	0	37	28	0	0	37	14
Central Connecticut State U.	430	16	21	33	27	0	0	0	0
Spelman C.	431	86	34	13	26	86	34	13	26
Elon U.	432	90	36	41	25	42	0	0	0
Roger Williams U.	432	0	0	0	25	0	0	0	0
Claremont McKenna C.	434	0	0	0	24	0	0	0	24
U. Detroit Mercy	434	0	20	0	24	0	0	0	23
U. Michigan, Dearborn	434	0	11	61	24	0	0	0	0
C. of Saint Benedict	437	53 i	51 i	19 i	23 i	24 i	23 i	2 i	3 i
Saint John's U.	437	26 i	25 i	20 i	23 i	0 i	0 i	0 i	0 i
Whitman C.	439	12	0	ne	22	0	0	ne	0
U. Houston-Clear Lake	440	37	111	34	21	21	96	23	2
U. of Mary Washington	441	1	45	82	20	0	15	19	14
Drake U.	442	0	ne	1	19	0	ne	0	1
Kettering U.	442	15	22	5	19	0	0	0	8
U. Richmond	442	0	0	0	19	0	0	0	0
Montana Technological U.	445	0	0	0	18	0	0	0	0
Skidmore C.	445	1	6	14	18	0	0	0	0
U. Texas of the Permian Basin	445	ne	0	0	18	ne	0	0	0
Fort Lewis C.	448	0	0	0	17	0	0	0	0
Macalester C.	448	119	140	70	17	0	0	0	0
C. Wooster	450	0	112	14 i	16	0	0	0 i	0
St. Cloud State U.	450	116	75	233	16	86	0	182	9
East Stroudsburg U. Pennsylvania	452	ne	ne	ne	15	ne	ne	ne	0
Hobart and William Smith Colleges	453	0	0	4	13	0	0	0	0
Lewis and Clark C.	453	32	32	0	13	32	27	0	0

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2022 total: FYs 2019–22

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2019	2020	2021	2022	2019	2020	2021	2022
U. of St. Thomas (MN)	455	35	17	328	11	10	17	323	7
CUNY, Lehman C.	456	0	476	81	9	0	0	0	0
Eastern Connecticut State U.	456	6	86	248	9	0	0	0	0
Trinity C., Hartford	456	3	4	9	9	0	0	0	0
Pennsylvania State U., Harrisburg	459	382	130	2	8	5	2	1	5
Sam Houston State U.	459	49	18	26	8	0	0	0	0
SUNY, C. Brockport	459	0	3	0	8	0	0	0	0
Western Kentucky U.	462	18	13	0	7	0	0	0	0
CUNY, Graduate Center	463	0	0	22	6	0	0	22	6
U. Maryland Center for Environmental Science	463	0	2	40	6	0	0	0	0
Florida Gulf Coast U.	465	145	41	13	5	27	41	13	0
Kentucky State U.	465	110	32	15	5	110	32	15	5
Minnesota State U., Mankato	465	40	0	0	5	0	0	0	5
Sonoma State U.	465	ne	8	12	5	ne	0	0	0
U. Northern Iowa	465	0	0	18	5	0	0	0	0
Willamette U.	465	0	0	0	5	0	0	0	0
Austin Peay State U.	471	11	0	1	3	0	0	0	0
Hamilton C.	471	8	89	4	3	0	0	0	0
New School	471	0	6	19	3	0	0	0	0
Stephen F. Austin State U.	471	0	0	14	3	0	0	0	0
SUNY, Buffalo State	471	0	0	0	3	0	0	0	3
Texas Woman's U.	471	15	14	11	3	15	14	11	0
U. Hartford	471	7	5	1	3	7	5	1	0
West Virginia State U.	478	0	110	2	2	0	99	2	2
CUNY, Baruch C.	479	0	46	45	1	0	46	45	0
Missouri State U.	479	2	53	42	1	2	48	15	0
Plymouth State U.	479	ne	ne	ne	1	ne	ne	ne	1
Texas A&M International U.	479	2	80	0	1	0	0	0	0
Troy U.	479	ne	5	0	1	ne	0	0	0
U. Wisconsin-Oshkosh	479	0 i	0 i	0	1	0 i	0 i	0	0
All other surveyed institutions	-	4,966	4,193	1,644	0	2,489	2,119	1,134	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 \$260,517 thousand imputed for total and \$250,043 thousand reported for federally financed R&D expenditures in computer and information sciences in FY 2022. 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.

^c 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.

^d 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.

^e 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 2022 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.