

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
All institutions	-	2,925,074	2,953,984	3,201,715	3,617,348	2,000,234	1,995,236	2,160,601	2,417,938
Johns Hopkins U. ^a	1	226,696	270,040	270,237	309,828	216,738	258,141	258,511	299,497
Carnegie Mellon U.	2	192,119	196,380	211,839	220,946	119,057	131,071	131,579	136,813
Georgia Institute of Technology	3	185,400	146,318	161,111	198,783	162,577	121,473	127,768	159,436
U. Southern California	4	121,116	115,694	112,104	122,842	115,564	110,401	106,239	116,290
Massachusetts Institute of Technology	5	111,779	116,877	124,985	119,666	54,491	62,186	68,540	68,071
U. Texas, Austin	6	139,290	87,595	100,730	116,971	128,322	79,109	88,477	97,635
Pennsylvania State U., University Park and Hershey Medical Center	7	89,490	73,737	79,162	108,873	76,419	56,263	62,351	83,515
U. Illinois, Urbana-Champaign	8	95,988	99,600	104,436	99,934	64,385	63,076	59,157	56,104
U. Maryland ^b	9	50,541	50,483	63,281	80,519	34,576	33,768	38,622	48,215
U. Alabama, Huntsville	10	36,636	48,967	60,893	47,962	35,309	45,627	54,406	43,721
Indiana U., Bloomington	11	41,892	38,843	40,488	47,950	24,346	23,657	27,634	35,137
U. North Carolina, Chapel Hill	12	26,765	32,344	39,486	41,385	20,870	27,834	32,390	35,159
U. Wisconsin-Madison	13	28,241	23,678	30,295	38,571	15,975	14,687	19,278	21,627
U. California, San Diego	14	30,370	46,962	28,879	37,484	16,179	18,932	24,372	34,673
U. Chicago	15	24,422	26,205	31,302	34,390	23,454	25,470	30,256	32,781
Arizona State U.	16	22,231	22,498	21,414	33,267	15,176	14,325	14,710	21,665
Cornell U.	17	31,173	28,125	29,874	32,821	18,829	19,456	20,092	18,513
Ohio State U.	18	22,869	16,691	27,225	31,323	8,892	6,904	9,761	14,679
Purdue U., West Lafayette	19	27,886	22,324	38,868	31,316	20,261	15,679	30,059	18,513
Columbia U. in the City of New York	20	25,101	27,763	31,786	30,853	22,817	24,889	26,721	24,749
Virginia Polytechnic Institute and State U.	21	30,405	25,466	28,642	30,263	11,637	8,484	9,291	14,280
U. Washington, Seattle	22	27,986	26,869	25,836	30,158	18,140	17,605	17,137	18,717
U. Central Florida	23	29,421	32,242	26,882	30,129	18,093	21,437	17,352	19,488
U. Massachusetts, Amherst	24	31,199	27,336	30,721	30,057	16,804	15,410	17,579	16,516
Princeton U.	25	24,160	23,518	28,066	29,801	14,612	14,768	16,783	16,491
Harvard U.	26	15,250	20,858	21,712	28,969	11,955	11,767	13,098	11,410
U. Virginia, Charlottesville	27	26,286	24,669	27,291	28,652	20,924	20,384	21,875	19,009
Texas A&M U., College Station and Health Science Center	28	18,504	19,178	25,705	28,414	9,988	12,013	17,584	17,436
Northeastern U.	29	21,118	21,505	27,623	28,375	17,176	16,182	17,903	17,333
U. Louisiana, Lafayette	30	11,111	16,823	25,361	27,922	1,050	3,227	12,682	13,962
Stanford U.	31	26,512	23,232	25,448	27,907	15,368	14,181	15,804	15,889
North Carolina State U.	32	16,119	17,016	20,889	26,585	11,737	12,833	12,459	15,455
U. California, Irvine	33	21,573	23,444	24,680	26,089	10,957	11,215	12,523	13,381
Vanderbilt U. and Vanderbilt U. Medical Center	34	0	18,226	14,617	24,592	0	12,495	13,064	15,997

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		2020	2021	2022	2023	2020	2021	2022	2023
U. Minnesota, Twin Cities	35	22,996	22,629	28,809	24,219	9,283	9,509	8,091	9,091
U. Dayton	36	7,200	7,528	10,551	23,693	5,964	6,724	10,116	23,181
U. Notre Dame	37	14,904	13,961	15,067	23,170	8,265	8,037	6,781	9,564
U. California, Santa Barbara	38	9,231	11,503	13,354	23,101	5,973	6,064	7,620	14,281
U. Hawaii, Manoa	39	11,963	11,590	17,690	22,818	11,055	11,062	17,342	22,073
Florida International U.	40	16,175	16,708	18,348	22,726	9,863	8,929	9,924	13,542
U. Texas, San Antonio	41	12,064	19,203	21,484	22,722	5,470	11,594	13,737	13,407
Boston U.	42	14,251	14,542	17,480	22,142	5,902	6,725	7,577	8,749
George Mason U.	43	23,969	24,420	25,373	22,076	21,728	19,379	19,743	15,847
U. Colorado Boulder	44	15,627	16,468	19,612	21,212	14,941	15,321	18,032	19,774
U. Pennsylvania	45	26,318	27,396	29,513	21,066	15,361	16,523	16,990	14,071
SUNY, U. Buffalo	46	18,747	17,679	20,493	20,464	10,894	8,770	8,443	12,966
U. Florida	47	13,006	15,238	15,896	20,449	9,016	8,849	10,685	12,409
Brown U.	48	15,695	14,984	16,895	19,235	10,937	10,480	11,643	12,185
U. California, Los Angeles	49	17,480	16,186	14,755	19,118	10,302	10,475	9,952	10,926
Michigan State U.	50	15,783	15,996	15,978	18,855	7,631	6,720	7,450	9,968
U. South Florida ^c	51	9,417	11,614	9,503	18,841	2,582	2,875	4,608	10,902
U. Alabama, Tuscaloosa	52	12,836	12,797	16,400	18,813	4,044	4,438	5,591	5,584
Georgetown U.	53	18,620	19,590	18,321	18,504	3,947	3,703	2,402	2,449
U. Arizona	54	15,084	16,503	18,270	18,319	7,670	8,999	10,037	7,738
Dartmouth C. and Dartmouth Hitchcock Medical Center	55	14,889	18,556	17,794	18,309	5,114	5,783	4,922	4,684
U. Maryland, Baltimore County	56	11,590	12,102	13,685	17,976	6,765	7,385	7,816	9,692
U. Michigan, Ann Arbor	57	15,180	13,922	16,789	17,076	6,046	5,841	9,398	7,577
New York U.	58	14,584	15,246	14,731	16,701	9,125	9,830	9,646	11,518
SUNY, Stony Brook U.	59	10,909	12,621	12,929	15,550	8,530	10,753	10,872	12,371
U. California, Berkeley	60	12,701	9,583	12,736	15,434	255	201	1,157	1,832
New Mexico Institute of Mining and Technology	61	2,780	6,732	14,645	14,923	2,748	6,668	13,911	14,051
Northwestern U.	62	8,441	8,957	10,117	13,831	5,024	5,873	6,580	7,891
California Institute of Technology	63	15,072	13,508	11,363	13,730	11,277	9,772	7,541	9,088
Rensselaer Polytechnic Institute	64	14,686	13,145	14,752	13,075	4,377	5,398	5,250	4,769
Rochester Institute of Technology	65	8,910	8,809	9,956	12,888	5,556	5,662	5,594	8,031
Duke U.	66	6,019	5,273	8,320	12,836	5,535	4,468	7,363	11,229
New Jersey Institute of Technology	67	10,325	11,575	10,764	12,638	3,428	3,448	3,214	4,296
U. Illinois, Chicago	68	12,999	12,103	12,880	12,543	7,580	6,425	6,989	5,756
U. Delaware	69	6,648	4,182	5,740	12,538	5,643	3,404	3,963	4,163

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		2020	2021	2022	2023	2020	2021	2022	2023
U. Pittsburgh, Pittsburgh	70	9,312	10,455	11,763	12,535	6,612	6,917	8,113	8,450
Rice U.	71	10,760	11,623	11,172	12,530	7,698	8,006	7,325	7,788
U. North Texas, Denton	72	4,769	7,269	9,124	12,171	1,262	2,189	2,610	3,937
Mississippi State U.	73	5,189	5,546	7,546	11,570	1,749	2,269	4,566	7,165
Yale U.	74	5,969	7,379	8,675	11,131	3,666	5,107	6,245	7,023
U. North Carolina, Charlotte	75	10,163	18,214	8,681	11,068	8,343	8,282	7,560	7,266
Worcester Polytechnic Institute	76	10,150	10,707	10,044	10,974	7,300	7,405	7,543	8,476
Louisiana State U., Baton Rouge	77	8,284	15,399	18,477	10,527	5,502	10,944	14,250	5,835
Florida State U.	78	10,349	10,320	9,004	10,374	3,969	3,710	3,159	3,674
U. Nebraska, Lincoln and Medical Center ^d	79	na	na	na	10,348	na	na	na	4,526
U. Texas, Dallas	80	9,992	8,945	10,179	10,213	6,289	6,367	6,495	7,112
Naval Postgraduate School	81	7,345	6,058	11,304	9,987	4,608	3,953	4,953	7,783
George Washington U.	82	7,308	7,326	8,137	9,922	3,135	2,907	3,209	3,196
U. Oklahoma, Norman and Health Science Center	83	3,019	4,661	6,637	9,628	1,285	2,414	4,383	5,640
Clemson U.	84	4,852	7,040	8,664	9,428	2,355	3,143	4,950	5,586
U. Houston	85	5,599	4,352	6,539	9,325	2,546	2,337	3,307	5,957
U. Texas, Arlington	86	7,572	6,865	8,415	9,165	2,817	2,674	2,977	3,739
Air Force Institute of Technology	87	2,441	1,921	3,474	9,028	1,656	1,551	1,794	7,354
U. Memphis	88	8,486	7,957	6,795	8,935	4,277	4,492	5,111	4,575
U. California, Santa Cruz	89	5,009	5,128	5,441	8,695	2,199	2,407	2,943	3,928
Washington State U.	90	8,251	8,393	8,523	8,664	4,027	4,772	5,753	7,409
Michigan Technological U.	91	2,994	4,582	7,889	8,624	1,054	2,074	4,749	4,975
U. Massachusetts, Lowell	92	7,153	7,420	9,858	8,478	4,051	4,440	6,127	5,635
U. Texas, El Paso	93	7,597	6,234	7,833	8,443	5,639	4,670	5,880	6,258
Rutgers, State U. New Jersey, New Brunswick	94	6,402	6,316	9,306	8,406	4,851	3,942	5,254	5,557
Rockefeller U.	95	9,058	8,886	8,486	8,060	0	0	0	0
Virginia Commonwealth U.	96	2,138	6,270	7,054	8,058	1,584	1,335	1,398	1,799
U. Tennessee, Knoxville	97	13,906	11,725	10,765	8,009	11,049	8,756	7,689	5,586
SUNY, Binghamton U.	98	7,873	8,490	7,724	7,948	2,734	1,910	1,737	1,583
U. Arkansas, Fayetteville	99	4,591	5,882	6,819	7,865	1,753	2,541	4,113	4,104
U. California, Riverside	100	8,974	8,295	7,468	7,414	5,999	5,841	5,927	6,123
U. West Florida	101	1,995	2,510	4,832	7,321	460	1,625	3,654	5,663
Syracuse U.	102	5,081	5,582	4,858	7,300	1,266	1,557	1,367	1,060
Brigham Young U., Provo	103	1,350	929	1,533	7,241	1,199	841	1,097	2,199
Howard U.	104	1,523	1,747	1,576	7,235	655	740	570	6,235

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		2020	2021	2022	2023	2020	2021	2022	2023
U. California, Davis	105	7,256	5,934	5,764	6,959	5,005	4,367	4,762	5,918
U. Connecticut	106	5,575	5,294	4,766	6,946	3,194	3,271	2,672	3,562
U. Oregon	107	5,652	6,362	6,598	6,807	4,228	4,811	5,083	5,587
U. Missouri, Columbia	108	4,187	6,866	6,157	6,644	3,674	5,692	3,774	5,340
Drexel U.	109	4,105	5,655	6,589	6,621	2,885	4,413	5,308	5,264
Georgia State U.	110	3,435	4,896	5,346	6,583	1,531	1,643	1,962	2,675
Auburn U., Auburn	111	5,006	5,127	5,174	6,337	1,740	2,151	1,506	2,567
Iowa State U.	112	7,666	5,844	5,782	6,326	4,815	3,093	2,838	3,346
Indiana U.-Purdue U., Indianapolis	113	5,006	4,643	5,049	6,191	3,307	2,798	2,759	3,503
U. Kansas	114	4,416	3,652	4,418	6,179	2,887	2,269	2,910	4,542
SUNY, U. Albany	115	6,591	5,230	6,141	6,022	2,739	1,596	1,517	1,484
Case Western Reserve U.	116	34	2,407	3,165	5,998	34	1,888	2,580	4,784
U. Georgia	117	3,760	4,121	5,509	5,970	1,105	1,258	2,085	2,597
U. Nebraska, Omaha	118	3,185	2,588	4,810	5,913	1,827	1,591	3,575	4,351
Washington U., Saint Louis	119	5,467	4,575	4,634	5,859	4,675	4,167	4,059	4,773
Texas State U.	120	2,197	1,200	1,598	5,633	768	818	1,064	1,150
Temple U.	121	5,901	6,327	6,734	5,498	2,496	2,571	3,381	4,626
Emory U.	122	2,345	2,841	4,730	5,494	323	964	1,817	3,164
Texas Tech U.	123	5,111	4,274	5,410	5,472	1,160	916	933	1,410
Wright State U.	124	2,034	3,531	5,329	5,443	871	2,740	4,576	5,015
Oregon State U.	125	8,213	7,241	5,820	5,346	6,218	6,182	4,593	4,122
U. Idaho	126	1,595	2,184	3,673	5,340	985	1,476	2,750	3,376
Dakota State U.	127	4,337	3,080	4,589	5,172	3,909	2,443	3,976	2,356
New Mexico State U.	128	4,539	4,043	4,103	5,075	3,869	3,464	3,334	4,253
U. Kentucky	129	4,054	4,011	5,913	5,019	1,554	2,223	3,569	2,202
Florida Atlantic U.	130	2,586	2,479	2,776	4,999	1,309	1,562	1,715	3,666
Stevens Institute of Technology	131	3,606	4,984	4,815	4,997	3,454	4,104	3,994	4,145
U. Cincinnati	132	2,031	3,614	3,655	4,958	123	205	507	895
Kennesaw State U.	133	3,727	3,745	3,538	4,916	105	125	268	511
U. Tulsa	134	3,139	3,521	3,849	4,897	2,531	2,365	2,909	4,400
U. New Mexico	135	3,964	3,657	4,264	4,816	2,876	2,760	3,287	3,652
Northern Arizona U.	136	2,671	4,037	2,492	4,797	698	811	1,247	2,894
Toyota Technological Institute, Chicago	137	5,887	4,967	4,470	4,636	3,038	3,090	2,199	2,127
U. Nevada, Reno	138	7,550	6,843	6,103	4,617	3,390	3,896	5,808	4,270
Tufts U.	139	4,273	1,045	2,568	4,526	4,128	942	1,132	2,296

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Colorado State U., Fort Collins	140	4,278	3,621	4,052	4,521	3,645	3,125	3,517	3,617
U. South Carolina, Columbia	141	4,129	3,311	4,628	4,491	1,989	2,248	2,838	2,871
Utah State U.	142	2,538	3,039	3,545	4,436	1,543	1,812	1,910	1,929
Oakland U.	143	1,073	1,150	3,608	4,406	482	613	949	843
U. North Dakota	144	3,199	1,856	2,266	4,136	336	693	1,014	2,318
U.S. Military Academy	145	469	2,305	6,651	4,064	469	1,878	6,609	3,770
U. Iowa	146	3,547	4,180	4,187	4,037	2,673	2,842	3,020	2,227
Kansas State U.	147	3,511	3,898	3,900	3,858	1,844	2,377	2,185	1,994
William & Mary	148	2,917	2,575	2,873	3,779	1,881	1,670	1,887	2,535
Colorado School of Mines	149	3,748	3,894	3,443	3,677	3,461	3,746	3,135	3,468
Oklahoma State U., Stillwater	150	5,361	3,636	3,099	3,598	371	460	423	540
Wayne State U.	151	2,133	2,158	2,214	3,578	1,066	1,353	1,568	2,776
Rutgers, State U. New Jersey, Camden	152	1,848	2,353	2,722	3,577	1,789	2,111	2,279	2,682
Tennessee Technological U.	153	2,221	2,581	3,541	3,548	1,364	1,543	2,256	2,063
U. Rochester	154	4,021	3,608	3,099	3,544	3,383	3,190	2,345	2,464
Illinois Institute of Technology	155	2,988	2,647	3,307	3,514	2,708	2,355	2,983	3,298
Boise State U.	156	1,761	1,686	3,448	3,449	1,216	1,197	1,733	1,623
North Dakota State U.	157	3,433	2,929	2,957	3,422	463	346	694	1,227
Florida Institute of Technology	158	4,287	5,643	5,289	3,416	3,223	3,698	4,101	2,930
U. Vermont	159	3,036	2,978	3,614	3,361	911	951	1,073	869
Montana State U., Bozeman	160	1,459	2,625	3,026	3,175	1,149	1,141	1,386	1,981
U. Miami	161	283	835	1,620	3,156	91	586	1,542	2,185
Old Dominion U.	162	2,196	2,693	2,672	3,127	874	1,196	1,430	1,538
U. Massachusetts, Dartmouth	163	1,572	1,718	2,552	3,116	448	60	735	1,102
Brandeis U.	164	2,999	3,208	3,218	2,955	1,561	1,006	1,082	1,110
Missouri U. of Science and Technology	165	2,648	2,545	2,899	2,948	1,337	1,228	1,335	764
San Diego State U.	166	1,519	1,439	2,592	2,902	636	657	996	964
Gallaudet U.	167	486	2,141	1,954	2,868	319	1,364	1,587	1,746
U. Arkansas, Little Rock	168	3,246	3,312	3,204	2,804	2,691	3,089	2,898	2,586
Teachers C., Columbia U.	169	2,459	2,913	3,235	2,791	1,284	1,570	1,938	1,788
Lehigh U.	170	2,333	2,514	2,373	2,725	1,521	1,734	1,653	1,823
U. Colorado Colorado Springs	171	1,035	1,965	2,607	2,705	1,023	1,921	2,394	2,367
Louisiana Tech U.	172	2,475	1,952	1,938	2,582	726	396	314	433
U. New Orleans	173	1,591	1,370	1,492	2,579	637	451	449	1,614
U. Texas Rio Grande Valley	174	1,520	1,581	3,543	2,540	252	188	1,447	257

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U. Maine	175	1,967	2,585	2,084	2,517	629	824	605	705
Towson U.	176	603	530	1,204	2,485	488	416	909	1,168
U. Rhode Island	177	523	439	743	2,484	465	416	701	2,431
Citadel Military C. South Carolina	178	380	1,033	3,234	2,419	378	1,023	3,227	2,407
Kent State U.	179	1,766	1,509	1,619	2,228	605	456	445	1,108
San Francisco State U.	180	1,482	1,579	1,878	2,172	558	564	582	1,061
West Virginia U.	181	1,894	2,179	1,562	2,155	1,646	1,742	1,239	1,639
U. Nevada, Las Vegas	182	1,077	1,015	1,556	2,120	314	443	758	1,300
Baylor U.	183	1,011	1,148	2,382	2,063	97	101	625	642
Embry-Riddle Aeronautical U.	184	526	2,136	2,417	2,014	406	1,697	1,888	1,663
Portland State U.	185	1,164	1,644	1,521	1,971	996	1,390	1,397	1,645
U. Montana, Missoula	185	1,746	2,207	2,206	1,971	1,371	1,619	1,314	597
U. Wyoming	187	581	1,580	2,220	1,958	541	971	1,123	1,006
U. Massachusetts, Boston	188	1,242	2,709	1,996	1,944	525	716	724	745
North Carolina A&T State U.	189	1,742	1,227	1,008	1,884	1,567	1,148	922	1,714
U. California, Merced	190	194	1,134	1,387	1,864	116	862	827	860
Marquette U.	191	834	1,439	1,681	1,831	324	675	1,058	874
CUNY, Hunter C.	192	1,726	1,395	1,556	1,805	1,474	1,165	1,343	1,608
Virginia Military Institute	192	ne	ne	1,304	1,805	ne	ne	1,031	1,422
Kean U.	194	509	229	850	1,801	417	151	237	726
U. Southern Maine	195	1,190	1,422	1,553	1,792	0	0	0	31
Tulane U.	196	2,257	1,873	1,713	1,712	1,803	1,472	1,433	1,105
Idaho State U.	197	820	686	735	1,596	651	503	544	669
Saint Louis U.	198	1,164	1,345	1,221	1,566	578	734	429	729
U. New Hampshire	199	854	1,057	1,465	1,505	576	567	606	802
U. Mississippi	200	207	273	251	1,418	101	119	104	107
Tennessee State U.	201	430	371	384	1,412	421	0	0	340
Boston C.	202	599	663	1,399	1,408	411	402	883	669
DePaul U.	203	1,528	1,552	736	1,399	1,448	1,396	613	768
U. Missouri, Kansas City	204	1,625	1,698	1,075	1,344	399	509	31	416
Montclair State U.	205	535	314	1,888	1,332	117	107	445	316
California State U., Fullerton	206	83	200	1,047	1,299	33	143	156	320
Northern Illinois U.	207	661	944	983	1,297	332	669	608	812
California State U., Monterey Bay	208	1,023	1,298	1,517	1,294	734	721	949	609
U.S. Air Force Academy	209	490	150	210	1,285	490	150	150	1,260

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
California State U., San Bernardino	210	472	228	672	1,228	401	182	580	1,189
Creighton U.	211	730	928	1,153	1,196	396	493	690	728
U.S. Naval Academy	212	1,519	774	867	1,179	1,413	684	804	968
U. North Carolina, Wilmington	213	210	244	280	1,169	130	209	214	144
James Madison U.	214	325	845	961	1,156	18	26	72	39
Morgan State U.	215	520	660	605	1,109	519	624	539	744
Rutgers, State U. New Jersey, Newark	216	2,269	2,013	2,252	1,107	2,269	1,984	1,899	996
East Carolina U.	217	828	603	484	1,095	213	309	358	910
New Mexico Highlands U.	217	134	586	840	1,095	134	586	840	1,095
CUNY, Graduate Center	219	0	22	6	1,079	0	22	6	0
U. North Carolina, Greensboro	220	510	806	398	1,076	323	692	322	626
Delaware State U.	221	358	334	185	1,071	156	179	29	1,071
Pace U.	222	1,043	758	903	1,067	903	598	727	913
Georgia Southern U.	223	65	1,045	1,104	1,032	16	99	16	3
South Carolina State U.	224	547	706	865	1,025	432	476	520	565
Nova Southeastern U.	225	146	32	57	1,022	125	0	0	454
U. Alabama, Birmingham	226	1,502	1,356	898	1,013	1,356	1,250	897	815
U. New Haven	227	602	1,359	1,363	992	562	1,117	1,215	949
Texas A&M U.-Corpus Christi	228	222	313	355	982	204	258	301	381
Loyola U., Chicago	229	160	216	456	973	139	161	356	806
Fisk U.	230	93	415	431	949	0	415	425	942
Tuskegee U.	231	409	463	875	923	409	463	875	923
Augusta U.	232	61	141	291	896	28	84	228	854
Southern Illinois U., Carbondale	233	396	566	389	893	33	0	0	89
Bowie State U.	234	682	446	1,169	892	682	446	1,169	892
U. North Florida	235	178	418	575	861	51	304	416	453
Chapman U.	236	665	701	708	851	0	0	0	82
C. Wooster	237	112	14	16	789	0	0	0	0
Texas A&M U.-Kingsville	238	0	12	0	784	0	12	0	784
U. Puerto Rico, Rio Piedras	239	207	604	609	783	75	258	331	467
Clarkson U.	240	517	776	531	780	421	700	501	749
Miami U.	241	721	564	462	750	298	68	0	318
Winston-Salem State U.	242	443	590	419	746	443	251	339	372
Middle Tennessee State U.	243	245	1,000	1,050	737	204	283	181	313
Grinnell C.	244	357	201	278	735	76	77	123	129

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
American U.	245	672	649	753	733	264	146	184	92
U. Tennessee, Chattanooga	246	975	899	830	684	873	879	716	580
Prairie View A&M U.	247	292	188	134	671	292	188	103	538
Western Michigan U. and Homer Stryker M.D. School of Medicine	248	145	169	159	665	131	150	142	83
Smith C.	249	391	352	504	659	328	320	284	447
Morehouse C.	250	1,141	540	396	641	1,141	540	396	641
California State U., San Marcos	251	987	620	450	640	987	620	450	609
U. South Alabama	252	3,846	3,722	1,432	632	3,705	3,560	1,349	580
Wake Forest U.	253	226	266	401	629	59	145	308	490
Rowan U.	254	482	588	540	606	256	453	422	63
Harvey Mudd C.	255	791	645	711	585	640	512	573	476
U. Hawaii, system office	256	1,715	1,327	520	574	1,694	1,313	515	574
U. Colorado Denver ^e	257	na	475	687	573	na	411	619	554
San Jose State U.	258	10	297	151	570	0	0	0	0
U. South Carolina, Beaufort	259	ne	ne	ne	558	ne	ne	ne	431
Alabama A&M U.	260	301 i	333 i	372 i	557 i	234 i	293 i	363 i	479 i
California State U., Long Beach	261	102	271	390	542	42	90	178	165
Xavier U. Louisiana	262	100	652	696	540	87	652	673	539
Appalachian State U.	263	336	356	327	536	233	323	260	410
Fayetteville State U.	264	131	584	472	524 i	131	334	233	257 i
Southern Methodist U.	265	683	205	494	518	290	127	247	398
U. Denver	266	99	22	78	511	99	22	36	122
Purdue U., Northwest	267	524	863	394	510	491	836	369	458
Meharry Medical C.	268	0	0	65	508	0	0	65	508
California State U., Los Angeles	269	36	218	241	499	0	218	241	499
Florida Polytechnic U.	270	241	193	210	486	64	112	138	401
Western Washington U.	271	318	383	316	482	274	343	196	90
Northeastern Illinois U.	272	39	46	104	481	39	46	104	481
Bowling Green State U.	273	274	192	97	456	67	22	1	153
Yeshiva U.	274	0	0	749	453	0	0	0	0
Texas A&M U.-Commerce	275	94	61	141	449	24	53	93	176
Norfolk State U.	276	4,921	1,957	344	444	4,921	1,957	298	172
CUNY, Queens C.	277	182	294	508	442	135	253	313	223
California State U., Dominguez Hills	278	700	620	413	440	633	547	346	307
Sacred Heart U.	279	ne	12	ne	436	ne	7	ne	92

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
California State Polytechnic U., Pomona	280	653	360	304	432	607	335	276	397
Villanova U.	281	527	413	360	430	179	148	57	59
Marymount U.	282	ne	655	350	427	ne	174	161	247
Black Hills State U.	283	480	295	385	421	452	295	363	396
C. Charleston	283	162	322	300	421	90	242	190	356
Lamar U.	285	74	72	154	420	14	33	72	217
Southern U. and A&M C., Baton Rouge	286	202	473	611	417	189	473	611	401
Hampton U.	287	699	994	720	409	699	994	720	409
CUNY, Lehman C.	288	476	81	9	402	0	0	0	396
U. Wisconsin-Milwaukee	289	116	193	376	399	93	157	0	112
Fordham U.	290	390	287	511	393	164	101	121	54
Elizabeth City State U.	291	112	518	585	386	101	466	348	58
Central Washington U.	292	58	202	406	384	0	177	381	363
Jackson State U.	293	502	662	671	383	418	468	486	271
Liberty U.	294	0	0	ne	369	0	0	ne	369
U. Washington, Bothell	294	41	188	537	369	41	119	498	310
Bryn Mawr C.	296	691	356	335	368	226	134	120	80
U. Houston-Downtown	297	95	194	135	367	86	175	133	352
West Texas A&M U.	298	210	301	257	363	116	161	144	263
Saint Joseph's U.	299	136	192	126	361	118	155	85	266
CUNY, City C.	300	1,490	778	820	358	803	552	524	355
Salisbury U.	301	346	303	328	357	57	101	225	230
Occidental C.	302	236	280	313	354	236	280	313	354
Illinois State U.	303	65	168	165	353	23	76	141	259
U. Baltimore	303	22	46	336	353	10	46	310	335
U. of the District of Columbia	305	79	242	255	351	79	242	255	351
Seton Hall U.	306	0	0	0	350	0	0	0	0
U. South Dakota	307	799	174	450	334	665	86	138	226
U. Puerto Rico, Mayaguez	308	0	0	254	333	0	0	192	296
California State U., Northridge	309	201	380	173	329	201	358	105	269
Barnard C.	310	149	260	250	327	60	107	101	135
Clark U.	311	60	36	138	326	47	17	11	30
South Dakota School of Mines and Technology	312	49	48	0	325	49	33	0	257
SUNY, C. of Environmental Science and Forestry	313	119	190	296	314	23	22	212	236
Amherst C.	314	25	150	164	312	0	35	61	104

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Southern Mississippi	315	144	232	662	311	114	182	537	236
Clafin U.	316	500	173	387	306	500	173	387	306
Carleton C.	317	111	68	402	299 i	33	40	80	117 i
New York Institute of Technology	318	188	303	323	292	132	183	89	108
Ohio U.	319	703	271	89	290	103	243	21	123
Saginaw Valley State U.	320	7	7 i	268 i	289 i	1	1 i	254 i	272 i
U. Hawaii, Hilo	321	1	94	89	286	1	91	82	286
Marshall U.	322	287	79	201	284	254	54	163	269
Tarleton State U.	323	412	395	763	282	0	0	0	0
U. North Carolina, Asheville	324	310	284	289	278	310	284	289	278
U. of the Virgin Islands	325	148	90	267	267	148	90	267	267
Southeastern Louisiana U.	326	29	2	38	266	5	0	0	225
U. Central Oklahoma	327	132 i	139 i	238 i	265 i	132 i	139 i	127 i	141 i
U. Minnesota, Duluth	328	289	242	133	257	163	136	5	172
Alabama State U.	329	0	0	192	255	0	0	192	255
U. Utah	330	37,159 i	33,446 i	3,034	249	23,621	21,958	0	0
Indiana U. Pennsylvania	331	331	165	113	246	0	34	113	244
CUNY, New York City C. of Technology	332	177	172	195	241	177	156	164	211
Long Island U.	333	0	5	142	234	0	5	28	36
U. San Francisco	334	60	16	204	233	0	0	0	88
Bucknell U.	335	122 i	114	113	229	84 i	82	10	109
Middlebury C.	335	117	241	162	229	117	241	152	219
Oregon Institute of Technology	337	37 i	134 i	160 i	227 i	0	20 i	27 i	109 i
U. Missouri, Saint Louis	338	833	187	184	225	3	100	22	63
Pomona C.	339	95	272	120	224	95	118	50	68
U. Virginia's C. Wise	340	ne	1,174	455	223	ne	1,174	447	213
St. John's U., New York	341	9	75	160	222	0	59	131	163
U. Alaska, Fairbanks	341	1,148	1,116	907	222	820	947	724	166
Bates C.	343	113	19	40	221	113	19	33	0
Florida A&M U.	344	102	16	1,208	220	90	16	1,208	220
California State U., Fresno	345	117	141	234	219	75	141	202	193
C. New Jersey	346	194	178	221	214	194	175	212	211
California State U., Sacramento	347	178	340	221	212	105	219	166	145
Robert Morris U.	348	ne	ne	190 i	210	ne	ne	119 i	130
Coastal Carolina U.	349	56	91	133	208	56	91	133	207

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Wellesley C.	349	431	505	437	208	430	500	437	137
CUNY, Brooklyn C.	351	403	314	273	203	356	290	251	163
Southern Connecticut State U.	352	11	154	121	196	0	0	2	9
Benedict C.	353	98	ne	ne	189	98	ne	ne	167
California Polytechnic State U., San Luis Obispo	354	626	679	359	186	362	436	253	178
U. Hawaii, Maui C.	354	ne	450	ne	186	ne	446	ne	154
Colgate U.	356	188	214	101	177	165	180	79	75
Reed C.	357	68	72 i	151 i	172 i	61	65 i	84 i	95 i
Claremont McKenna C.	358	0	0	24	166	0	0	24	166
U. Alaska, Anchorage	359	165	166	48	165	150	63	31	62
Trinity C., Hartford	360	4	9	9	160	0	0	0	30
Colorado State U., Pueblo	361	0	190	326	158	0	190	326	123
North Carolina Central U.	362	28	157	138	157 i	12	0	0	0 i
U. Central Arkansas	363	426	470	610	154	381	358	509	128
California State U., Channel Islands	364	0	22	69	149	0	0	62	141
U. North Georgia	364	37	335	456	149	37	335	456	149
Mercer U.	366	136	140	149	147	15	16	3	6
Northwestern State U. Louisiana	366	272	224	132	147 i	0	0	0	0 i
Minnesota State U., Mankato	368	0	0	5	143	0	0	5	141
National Defense U.	368	0	0	0	143	0	0	0	143
Hawaii Pacific U.	370	86	72	0	140	72	72	0	140
Williams C.	371	110 i	113 i	120 i	137 i	58 i	62 i	47 i	53 i
California State U., East Bay	372	329	264	287	136	61	0	0	0
U. Akron	373	1	32	44	132	0	32	43	80
Southern Illinois U., Edwardsville	374	151	49	71	129	39	11	1	0
St. Olaf C.	374	167	114	ne	129	132	85	ne	109
Bowdoin C.	376	84	81	64	125	72	74	51	53
California State U., Stanislaus	376	331	186	215	125	331	186	208	122
CUNY, C. Staten Island	378	66	54	133	123	65	54	119	102
Oberlin C.	379	144	62	ne	122	80	30	ne	58
Arkansas State U., Jonesboro	380	290	239	299	120	158	95	138	31
Azusa Pacific U.	381	148	92	29	119	0	9	0	0
Catholic U. of America	382	0	50	0	118	0	0	0	0
Mount Holyoke C.	382	141	152	235	118	140	150	225	113
Lafayette C.	384	101	76	35	117	85	46	7	99

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Texas A&M U.-San Antonio	384	ne	ne	239	117	ne	ne	151	107
U. Washington, Tacoma	384	696	224	421	117	696	216	421	117
Utah Valley U.	387	ne	ne	123	115	ne	ne	123	115
Davidson C.	388	0	0	179	114	0	0	164	85
Haverford C.	388	101 i	39 i	47 i	114 i	39	16	18	85
Clark Atlanta U.	390	183	160	395	113	166	103	231	60
Grambling State U.	391	0	0	792 i	112	0	0	59 i	40
U. Nebraska, Kearney	392	6	43	105	111	0	0	0	0
Hamilton C.	393	89	4	3	110	0	0	0	33
Sam Houston State U.	394	18	26	8	109	0	0	0	64
Grand Valley State U.	395	9	31	111	108	0	6	8	64
U.S. Coast Guard Academy	395	ne	ne	ne	108	ne	ne	ne	50
Oklahoma State U., Center for Health Sciences	397	95	99	104	107	0	0	0	0
Tougaloo C.	398	0	0 i	92 i	106 i	0	0 i	92 i	104 i
Virginia State U.	399	0	0	0	102	0	0	0	0
Texas Southern U.	400	160	136	132	100	149	106	99	91
New C. Florida	401	ne	ne	ne	99	ne	ne	ne	45
Loyola Marymount U.	402	24	58	303	98	0	0	114	52
Rhode Island C.	402	63	24	85	98	60	24	85	98
Winthrop U.	404	0	36	64	97	0	36	58	97
Lincoln U.	405	ne	ne	ne	96	ne	ne	ne	96
Fairfield U.	406	6	12	ne	92	0	1	ne	57
U. Louisville	407	97	71	119	91	0	14	78	44
U. Northern Colorado	408	0	0	0	88	0	0	0	0
U. of the Pacific	409	0	0	70	87	0	0	0	0
Texas Christian U.	410	126	86	106	84	101	86	104	83
Trinity U.	410	50	64	72	84	15	26	27	4
Milwaukee School of Engineering	412	0	47	65	82	0	47	65	75
U. Wisconsin-Green Bay	412	57 i	56 i	77 i	82 i	35 i	33 i	39 i	46 i
Swarthmore C.	414	15	16	71	81	6	0	55	69
Colorado C.	415	0	0	0	77	0	0	0	62
Western New England U.	416	ne	ne	69	76	ne	ne	69	76
Youngstown State U.	416	6	28	167	76	0	28	156	70
Colby C.	418	14	94	97	73	14	78	63	13
Ithaca C.	419	39	73	57	72	39	73	57	70

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Radford U.	420	ne	ne	ne	71	ne	ne	ne	34
U. of Mary Washington	420	45	82	20	71	15	19	14	0
Spelman C.	422	34	13	26	69	34	13	26	69
Hofstra U.	423	6	97	166	68	3	45	33	1
Seattle U.	424	21	0	93	67	0	0	1	54
Connecticut C.	425	248	168	134	66	83	65	48	46
Eastern Connecticut State U.	426	86	248	9	65	0	0	0	4
United Tribes Technical C.	427	ne	ne	ne	61	ne	ne	ne	61
U. Wisconsin-La Crosse	428	68	42	76	60	36	31	62	35
Albany State U.	429	0	0	ne	57	0	0	ne	57
U. Houston-Clear Lake	429	111	34	21	57	96	23	2	52
Ball State U.	431	1,263	1,079	348	56	258	22	128	18
Claremont Graduate U.	431	207	55	76	56	98	0	0	0
SUNY, Buffalo State U.	433	0	0	3	53	0	0	3	53
Union C., Schenectady	433	7	59	69	53	3	57	49	4
Northern Kentucky U.	435	13	34	122	52	0	3	14	13
Central Michigan U.	436	105	87	100	50	0	0	0	0
Hope C.	437	28	63	74	49	0	0	0	0
Montana Technological U.	437	0	0	18	49	0	0	0	0
South Dakota State U.	437	13	32	44	49	0	0	0	11
Macalester C.	440	140	70	17	48	0	0	0	41
U. Wisconsin-Platteville	440	18 i	37 i	44 i	48 i	12 i	22 i	27 i	29 i
Vassar C.	440	400	227	133	48	273	142	113	26
Eastern Michigan U.	443	376	30	232	47	0	0	11	0
Johnson C. Smith U.	444	11	196 i	188	43	11	180 i	164	43
Texas Woman's U.	444	14	11	3	43	14	11	0	43
Elon U.	446	36	41	25	42	0	0	0	0
Franklin and Marshall C.	446	7	70	33	42	0	0	0	0
New School	448	6	19	3	41	0	0	0	0
California State Polytechnic U., Humboldt	449	64	85	76	39	8	27	10	8
West Chester U. Pennsylvania	449	7	21	39	39	0	0	0	0
Monmouth U.	451	0	0	0	38	0	0	0	0
U. Scranton	452	ne	ne	ne	35	ne	ne	ne	35
William Paterson U.	453	125	178	60	32	0	0	0	27
Northern Michigan U.	454	0	37	28	30	0	37	14	8

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Central Connecticut State U.	455	21	33	27	27	0	0	0	0
Stephen F. Austin State U.	455	0	14	3	27	0	0	0	0
C. of Saint Benedict	457	51 i	19 i	23 i	26 i	23 i	2 i	3 i	3 i
Saint John's U.	457	25 i	20 i	23 i	26 i	0 i	0 i	0 i	0 i
SUNY, Oswego	457	84	56	38	26	52	38	30	21
Calvin U.	460	59 i	66 i	73 i	25 i	44 i	44 i	44	9
St. Cloud State U.	460	75	233	16	25	0	182	9	8
U. Texas, Tyler	460	50	21	38	25	26	13	37	25
Fort Lewis C.	463	0	0	17	24	0	0	0	0
Lewis and Clark C.	463	32	0	13	24	27	0	0	0
St. Edward's U.	465	1,150	1,050	270	20	700	600	120	0
CUNY, system office	466	215	158	113	18	84	0	8	0
SUNY, Polytechnic Institute	466	0	0	0	18	0	0	0	18
Whitman C.	468	0	ne	22	17	0	ne	0	0
Hobart and William Smith Colleges	469	0	4	13	16	0	0	0	0
U. Hartford	470	5	1	3	15	5	1	0	4
Kentucky State U.	471	32	15	5	13	32	15	5	0
Pennsylvania State U., Harrisburg	471	130	2	8	13	2	1	5	13
Western Kentucky U.	471	13	0	7	13	0	0	0	0
Furman U.	474	45	53	28	12	0	0	0	0
SUNY, C. Brockport	474	3	0	8	12	0	0	0	0
Ursinus C.	474	ne	ne	ne	12	ne	ne	ne	12
U. of the Incarnate Word	477	0	0	0	10	0	0	0	10
U. Wisconsin-Oshkosh	477	0 i	0	1	10	0 i	0	0	0
East Stroudsburg U. Pennsylvania	479	ne	ne	15	9	ne	ne	0	0
Texas A&M International U.	479	80	0	1	9	0	0	0	0
Bentley U.	481	ne	ne	75	8	ne	ne	75	8
Chicago State U.	481	ne	ne	78	8	ne	ne	78	8
U. Michigan, Dearborn	481	11	61	24	8	0	0	0	0
Drake U.	484	ne	1	19	7	ne	0	1	1
CUNY, John Jay C. of Criminal Justice	485	195	16	0	6	193	10	0	0
U. Detroit Mercy	485	20	0	24	6	0	0	23	6
Indiana U., South Bend	487	ne	3	ne	5	ne	0	ne	0
Pepperdine U.	487	0	0	0	5	0	0	0	0
Roger Williams U.	487	0	0	25	5	0	0	0	0

TABLE 39

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Gettysburg C.	490	3	ne	ne	4	0	ne	ne	0
U. Tennessee, Health Science Center	490	0	0	0	4	0	0	0	0
Willamette U.	490	0	0	5	4	0	0	0	0
Bryant U.	493	ne	ne	ne	3	ne	ne	ne	0
California State U., Chico	493	10	0	0	3	10	0	0	0
Florida Gulf Coast U.	493	41	13	5	3	41	13	0	0
U. Puget Sound	493	0	ne	0	3	0	ne	0	0
U. South Carolina, Aiken	493	0	0	0	3	0	0	0	0
U. of St. Thomas (MN)	498	17	328	11	2	17	323	7	0
U. Wisconsin-Stevens Point	498	0	0	0	2	0	0	0	0
Andrews U.	500	0	0	ne	1	0	0	ne	0
Pennsylvania State U., Behrend	500	119	112	47	1	37	77	29	0
All other surveyed institutions	-	14,803	12,573	13,307	0	7,536	5,342	4,830	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 \$298,808 thousand imputed for total and \$289,699 thousand reported for federally financed R&D expenditures in computer and information sciences in FY 2023. 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 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.

^d The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these 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 2023 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.