

TABLE 22. Total and federally financed higher education R&D expenditures in the computer sciences, ranked by computer sciences R&D total: FY 2011

(Dollars in thousands)

Rank	Institution	Total	Federally financed
	All institutions	1,734,897	1,288,912
1	U. Southern CA	100,668	96,637
2	Carnegie Mellon U.	95,836	84,913
3	Johns Hopkins U. <sup>a</sup>	95,389	87,812
4	GA Institute of Technology	77,966	57,370
5	U. IL, Urbana-Champaign	69,426	46,060
6	U. TX, Austin	62,366	52,665
7	U. Chicago	51,948	49,498
8	MA Institute of Technology	50,127	35,120
9	PA State U., University Park and Hershey Medical Ctr.	41,648	32,822
10	U. MD, College Park	39,215	25,572
11	U. CA, San Diego	35,918	16,797
12	OR Health and Science U.	33,863	29,478
13	OH State U.	33,426	9,445
14	U. TN, Knoxville	25,965	22,894
15	U. UT	24,172	15,577
16	U. HI, Manoa	22,488	19,879
17	U. WI, Madison	21,985	15,653
18	Stanford U.	20,753	17,305
19	IN U., Bloomington	19,691	6,869
20	U. AL, Huntsville	19,087	18,984
21	U. MA, Amherst	18,066	12,140
22	Cornell U.	17,897	14,708
23	Columbia U. in the City of New York	17,659	14,428
24	Purdue U., West Lafayette	16,449	11,156
25	U. NC, Chapel Hill	15,822	11,825
26	U. CA, Los Angeles	15,624	10,568
27	SUNY, U. Buffalo	15,582	9,458
28	U. PA	14,891	12,784
29	CA Institute of Technology	14,834	13,008
30	U. MN, Twin Cities	14,454	9,413
31	Naval Postgraduate School	14,016	13,836
32	U. CA, Irvine	13,725	8,614
33	VA Polytechnic Institute and State U.	12,776	5,532
34	U. AK, Fairbanks	12,242	11,731
35	Brown U.	11,552	4,956
36	Rice U.	11,537	10,295
37	MS State U.	11,252	6,846
38	Princeton U.	10,632	7,817
39	AZ State U.	10,324	7,019
40	U. AZ	10,267	8,252
41	U. LA, Lafayette	9,601	1,343
42	TX A&M U., College Station	9,517	4,432
43	NC State U.	9,495	7,822
44	U. IL, Chicago	9,495	6,919
45	U. CA, Santa Barbara	9,409	6,065
46	U. CA, Davis	9,401	6,655
47	U. CO, Boulder	8,757	8,475
48	George Mason U.	8,743	8,125
49	U. Houston	8,735	5,815
50	U. TX, San Antonio	7,818	5,602

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Rank	Institution	Total	Federally financed
51	Syracuse U.	7,571	1,990
52	U. TX, El Paso	7,492	5,465
53	U. DE	7,461	5,981
54	IA State U.	7,453	3,900
55	FL State U.	7,309	5,551
56	Rutgers, State U. NJ, New Brunswick	7,233	4,224
57	U. Pittsburgh, Pittsburgh	7,232	4,533
58	U. NE, Lincoln	7,110	4,825
59	MI State U.	6,976	4,087
60	FL International U.	6,611	4,282
61	U. TX, Dallas	6,597	4,143
62	NY U.	6,588	5,725
63	U. MI, Ann Arbor	6,572	4,386
64	SUNY, Stony Brook U.	6,537	5,563
65	U. FL	6,395	4,932
66	Yale U.	6,290	4,103
67	Rensselaer Polytechnic Institute	6,263	5,038
68	U. VA, Charlottesville	6,248	5,058
69	U. OR	6,186	5,752
70	Rockefeller U.	6,060	0
71	NJ Institute of Technology	5,928	1,044
72	U. AL, Tuscaloosa	5,918	3,514
73	U. MD, Baltimore County	5,790	4,728
74	U. Notre Dame	5,647	4,080
75	Duke U.	5,530	4,688
76	U. CA, Santa Cruz	5,236	2,891
77	U. NC, Charlotte	5,231	3,620
78	Washington U., St. Louis	5,069	3,095
79	U. WA, Seattle	4,980	1,723
80	Wright State U.	4,549	1,749
81	George Washington U.	4,516	3,236
82	Northeastern U.	4,170	3,658
83	U. Tulsa	4,144	3,792
84	LA Tech U.	4,061	2,245
85	U. TX, Arlington	3,996	2,017
86	U. KY	3,958	2,396
87	Old Dominion U.	3,809	1,166
88	Clemson U.	3,773	1,708
89	SUNY, U. Binghamton	3,632	1,236
90	U. CT	3,614	2,812
91	U. CA, Riverside	3,570	2,720
92	U. Memphis	3,540	1,401
93	SUNY, U. Albany	3,539	2,094
94	Boston U.	3,318	3,022
95	CO State U., Ft. Collins	3,293	2,738
96	LA State U., Baton Rouge	3,265	1,518
97	TX Tech U.	3,162	320
98	U. NM	3,159	2,802
99	Temple U.	2,970	2,426
100	ND State U.	2,842	2,392
101	San Diego State U.	2,830	1,872

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Rank	Institution	Total	Federally financed
102	Drexel U.	2,826	2,196
103	U. Rochester	2,804	2,161
104	Air Force Institute of Technology	2,754	1,409
105	OR State U.	2,663	2,478
106	KS State U.	2,662	2,049
107	Portland State U.	2,653	2,385
108	Worcester Polytechnic Institute	2,600	2,252
109	U. AR, Little Rock	2,574	1,694
110	Wayne State U.	2,517	1,240
111	U. NE, Omaha	2,492	2,129
112	U. North TX, Denton	2,427	1,172
113	U. South FL, Tampa	2,268	1,286
114	FL A&M U.	2,235	2,233
115	U. MA, Lowell	2,212	1,341
116	U. OK	2,074	756
117	U. ID	2,027	1,269
118	Dartmouth C.	1,991	1,216
119	Norfolk State U.	1,981	1,954
120	Tufts U.	1,959	1,809
121	Lehigh U.	1,894	1,860
122	U. SC, Columbia	1,766	1,736
123	U. MA, Boston	1,715	1,255
124	UT State U.	1,707	1,192
125	OK State U., Stillwater	1,702	708
126	U. CA, Office of the President	1,639	0
127	GA State U.	1,609	732
128	U. MO, Columbia	1,596	1,097
129	U. ME	1,568	28
130	Columbus State U.	1,544	1,544
131	Monmouth U.	1,510	1,481
132	IL Institute of Technology	1,505	1,412
133	U.S. Air Force Academy	1,495	676
134	MI Technological U.	1,463	203
135	U. GA	1,443	1,036
136	U. Southern ME	1,424	75
137	Stevens Institute of Technology	1,402	1,148
138	U. IA	1,329	1,120
139	DePaul U.	1,304	1,143
140	Brandeis U.	1,266	1,265
141	Jackson State U.	1,259	1,228
142	Bowie State U.	1,258	1,258
143	U. NV, Reno	1,220	1,050
144	U. KS	1,196	1,041
145	U. New Orleans	1,196	591
146	IN U.-Purdue U., Indianapolis	1,193	604
147	U. RI	1,145	971
148	Emory U.	1,132	812
149	C. of William and Mary and VA Institute of Marine Science	1,130	971
150	Rochester Institute of Technology	1,108	920
151	NM State U.	1,081	995
152	Southern Methodist U.	1,058	783

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153	U. WI, Milwaukee	1,047	350
154	Dakota State U.	1,015	402
155	Towson U.	1,005	909
156	NC Agricultural and Technical State U.	988	944
157	Brigham Young U., Provo	986	728
158	U. Louisville	975	946
159	U. MO, Kansas City	955	781
160	CA Polytechnic State U., San Luis Obispo	954	739
161	U.S. Military Academy	897	897
162	CA State U., San Bernardino	896	896
163	Hope C.	868	853
164	Columbia C., Chicago	859	859
165	ID State U.	859	407
166	U. NC, Wilmington	855	855
167	Kent State U.	831	742
168	CUNY, City C.	828	782
169	Harvard U.	813	813
170	Baylor U.	811	173
171	U. CO, Colorado Springs	809	749
172	U. NV, Las Vegas	808	178
173	NY Institute of Technology	775	194
174	New School	773	773
175	Ball State U.	768	180
176	Harvey Mudd C.	750	732
177	Toyota Technological Institute Chicago	746	496
178	FL Institute of Technology	741	598
179	FL Atlantic U.	736	229
180	NM Institute of Mining and Technology	715	697
181	WA State U.	715	298
182	CUNY, Hunter C.	705	437
183	SUNY, Institute of Technology, Utica/Rome	699	699
184	U. Southern MS	697	697
185	Augustana C., Sioux Falls	687	348
186	Howard U.	675	489
187	U. West FL	670	114
188	Southern IL U., Carbondale	647	171
189	James Madison U.	643	542
190	CUNY, Brooklyn C.	636	539
191	Southern IL U., Edwardsville	632	183
192	U. AL, Birmingham	629	521
193	TX A&M U., Corpus Christi	597	542
194	Wake Forest U.	597	597
195	Williams C.	591	251
196	U. TX, Brownsville	566	555
197	Bryn Mawr C.	556	321
198	Hamilton C.	552	551
199	MO U. of Science and Technology	548	482
200	Wilberforce U.	507	507
201	Lamar U.	495	495
202	U. Central FL	494	321
203	U. SD	483	255

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204	Smith C.	479	468
205	Villanova U.	463 i	319 i
206	MT State U., Bozeman	455	319
207	U. Dayton	446	388
208	San Francisco State U.	445	221
209	Rutgers, State U. NJ, Newark	436	436
210	U. MS and U. MS Medical Ctr.	429	393
211	WV U.	427	306
212	Prairie View A&M U.	420	345
213	TX State U., San Marcos	414	143
214	U.S. Naval Academy	411	411
215	U. VT	410	362
216	Alcorn State U.	409	343
217	Northern IL U.	383	383
218	Rutgers, State U. NJ, Camden	372	366
219	Vassar C.	349	349
220	Pace U.	336	292
221	Xavier U. LA	332	296
222	LA State U., Shreveport	329	235
223	Boston C.	322	239
224	CUNY, Lehman C.	317	299
225	Georgetown U.	312	312
226	AR State U., Jonesboro	304	177
227	Trinity C., Hartford	299	280
228	VA Commonwealth U.	297	292
229	TN Technological U.	294	183
230	Clark Atlanta U.	292	292
231	U. MA, Dartmouth	285	108
232	Allen U.	283 i	283 i
233	CUNY, Queens C.	277	253
234	DE State U.	268	268
235	U. Miami	267	252
236	Loyola U., MD	263	228
237	U. NH	254	252
238	CA State U., Dominguez Hills	251	232
239	U. MI, Dearborn	247	76
240	C. Charleston	245	216
241	Middle TN State U.	239	219
242	U. TX, Pan American	236	155
243	U. Detroit Mercy	232	138
244	U. DC	228	88
245	Clarkson U.	226	218
246	Western MI U.	223	134
247	Boise State U.	222	184
248	U. NC, Greensboro	215	197
249	Millersville U. PA	211	196
250	Teachers C., Columbia U.	203	115
251	Marist C.	196	49
252	CUNY, John Jay C. of Criminal Justice	192	186
253	American U.	188	44
254	U. Denver	188	178

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255	Morgan State U.	187	187
256	Wellesley C.	186	186
257	WV State U.	181	181
258	U. MN, Duluth	176	132
259	Montclair State U.	171	128
260	Southeastern LA U.	171	26
261	U. Houston, Downtown	170	130
262	U. North FL	169	0
263	MS Valley State U.	165	165
264	Central State U.	164	164
265	Colgate U.	163	124
266	U. TN, Chattanooga	162	152
267	Harding U.	157	157
268	Union C., Schenectady	156	144
269	Rowan U.	153	40
270	U. CO, Denver and Anschutz Medical Campus	153	153
271	Ramapo C. NJ	150	150
272	St. Cloud State U.	148	106
273	Hofstra U.	144	143
274	U. Central AR	143	130
275	U. MT	143	143
276	Richard Stockton C. NJ	142	142
277	U. WA, Tacoma	142	108
278	TX A&M U., Commerce	141	141
279	Northern KY U.	139	100
280	Oberlin C.	138	135
281	Ursinus C.	135	135
282	Macalester C.	133	59
283	U. WY	133	133
284	Middlebury C.	131	131
285	Western New England C.	127	127
286	Lafayette C.	126	110
287	CT C.	125	70
288	Bowdoin C.	121	121
289	Bradley U.	121	0
290	C. NJ	120	111
291	Evergreen State C.	116	116
292	U. AR, Fayetteville	116	0
293	CA Maritime Academy	115 i	0
294	Suffolk U.	113	86
295	Loyola Marymount U.	112	100
296	Northwest MO State U.	112	112
297	Calvin C.	109	8
298	Hampton U.	107	107
299	Sam Houston State U.	102	87
300	CUNY, Medgar Evers C.	100	100
301	Grinnell C.	100	18
302	West Chester U. PA	100	100
303	CA State U., San Marcos	99 i	99 i
304	Gonzaga U.	98	95
305	U.S. Coast Guard Academy	96	96

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Rank	Institution	Total	Federally financed
306	Iona C.	95	95
307	Loyola U., Chicago	95	88
308	Spelman C.	95	95
309	Case Western Reserve U.	92	92
310	Adelphi U.	88	87
311	Hampshire C.	86	86
312	Armstrong Atlantic State U.	83 i	83 i
313	Dowling C.	83	83
314	DePauw U.	82	65
315	Rose-Hulman Institute of Technology	82	46
316	West TX A&M U.	82	0
317	Benedict C.	81	81
318	Southern U. and A&M C., Baton Rouge	80 i	30 i
319	Wichita State U.	80	75
320	Shepherd U.	79	79
321	Sinte Gleska U.	79	79
322	Carleton C.	78	78
323	GA Southern U.	78	6
324	Purdue U., Calumet	78	55
325	Bucknell U.	77	67
326	SUNY, C. Oswego	77	30
327	Central MI U.	76	57
328	Northern AZ U.	76	67
329	Trinity U.	76	71
330	National U.	75 i	19 i
331	CA State U., Monterey Bay	74	15
332	TX Southern U.	74	57
333	Southern Polytechnic State U.	72	72
334	Pomona C.	71	54
335	CA State U., Sacramento	69	69
336	Colby C.	69	43
337	U. Akron	68	0
338	Lewis and Clark C.	67	44
339	La Salle U.	62	0
340	MT Tech of U. MT	62	36
341	Humboldt State U.	60	42
342	U. ND	59	0
343	Embry-Riddle Aeronautical U.	58	35
344	SUNY, C. Potsdam	57	57
345	Polytechnic U. PR	55	55
346	St. Olaf C.	53	53
347	Eastern KY U.	52	52
348	U. WI, Eau Claire	51	51
349	East Carolina U.	50	0
350	East Central U.	50 i	43 i
351	Taylor U.	50	0
352	Appalachian State U.	49	44
353	Auburn U., Auburn	47	1
354	C. Wooster	46	30
355	Haverford C.	46 i	45
356	U. AK, Southeast	45	42

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357	U. Hartford	45	45
358	Azusa Pacific U.	44 i	0
359	Canisius C.	44	44
360	OH U.	44	38
361	Barnes-Jewish C. Goldfarb School of Nursing	43 i	29 i
362	Bloomsburg U. PA	41	41
363	Elon U.	41 i	7
364	CA State U., Stanislaus	40 i	31 i
365	U. San Francisco	38	31
366	SD State U.	37	37
367	Dillard U.	36 i	0 i
368	IN U., South Bend	36	30
369	Albany State U.	35	35
370	Berea C.	35	35
371	IL State U.	35	0
372	U. WI, Oshkosh	35	35
373	U. South AL	34	2
374	KY State U.	33	3
375	William Paterson U.	32	0
376	CUNY, New York City C. of Technology	31	7
377	Philander Smith C.	31 i	31 i
378	Mt. Holyoke C.	30	15
379	Salish Kootenai C.	30	30
380	TN State U.	30	28
381	U. HI, West O'ahu	30 i	23 i
382	PA State U., Great Valley School of Graduate Professional Studies	29	29
383	SUNY, New Paltz	29	28
384	C. of Menominee Nation	28 i	28 i
385	Morehouse C.	28 i	28 i
386	Simmons C.	28	28
387	CA State U., Long Beach	27 i	0 i
388	C. of St. Benedict	27	0
389	Heidelberg U.	26 i	17 i
390	Northwestern U.	26	0
391	St. Louis U.	25	0
392	U. of Mary Washington	25 i	25 i
393	MN State U., Moorhead	24 i	15 i
394	St. John's U., Collegeville	24	0
395	San Jose State U.	22	22
396	U. WI, Parkside	22	21
397	Valdosta State U.	22	0
398	Alliant International U.	21 i	0
399	Capitol C.	21 i	21 i
400	Dine C.	21 i	21 i
401	Lawrence Technological U.	21	21
402	Seattle Pacific U.	21	15
403	Central CT State U.	20	0
404	PA State U., Erie	20	0
405	U. NE, Kearney	20	0
406	Weber State U.	20	20
407	Oakland U.	19	0



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408	Albion C.	18	0
409	MN State U., Mankato	17	0
410	U. Houston, Clear Lake	17	0
411	Ashland U.	16 i	16 i
412	U. North AL	16 i	15 i
413	Babson C.	15	0
414	Chapman U.	15	0
415	CUNY, Baruch C.	15	0
416	U. WI, Stout	15 i	15 i
417	CUNY, C. Staten Island	14	0
418	CO State U., Pueblo	14	14
419	PA State U., Altoona	14	0
420	Santa Clara U.	14	14
421	Southwestern U.	14	9
422	Southern OR U.	13	13
423	U. Scranton	13	0
424	Abilene Christian U.	12	0
425	Jacksonville State U.	12	12
426	U. Puget Sound	12	0
427	ME Maritime Academy	11 i	9 i
428	Mesa State C.	11	11
429	Norwich U.	11 i	0
430	Oglala Lakota C.	11 i	11 i
431	CUNY, Graduate Ctr.	10	0
432	U. WA, Bothell	10	10
433	Andrews U.	9	0
434	Bryant U.	9	0
435	Butler U.	9 i	0
436	Eastern CT State U.	9	0
437	Kennesaw State U.	9	9
438	McNeese State U.	9	0
439	U. Portland	9	8
440	Western Carolina U.	9	9
441	Austin Peay State U.	8	0
442	CA State U., East Bay	8	0
443	Cleveland State U.	8	0
444	Willamette U.	8	0
445	Angelo State U.	7	0
446	Christian Brothers U.	7 i	7 i
447	CO School of Mines	7	7
448	Fordham U.	7	0
449	Rollins C.	7	0
450	U. MD, Eastern Shore	7	7
451	U. of the Pacific	7	7
452	U. WI, Green Bay	7 i	0 i
453	Alderson-Broaddus C.	6 i	6 i
454	Edison State C.	6 i	6 i
455	Austin C.	5 i	1 i
456	FL Gulf Coast U.	5	0
457	Furman U.	5	2
458	Ithaca C.	5	0

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Rank	Institution	Total	Federally financed
459	Messiah C.	5 i	0
460	Paine C.	5	0
461	Valley City State U.	5 i	4 i
462	Bowling Green State U.	4	0
463	Drake U.	4	0
464	IN U., Gary	4	0
465	PA State U., Harrisburg	4	0
466	Gettysburg C.	3	0
467	Southwestern OK State U.	3	0
468	Swarthmore C.	3	0
469	Augustana C., Rock Island	2	0
470	Central WA U.	2	0
471	Linfield C.	2 i	1 i
472	Luther C.	2	0
473	Murray State U.	2	0
474	Northern MI U.	2	0
475	Radford U.	2	0
476	St. Michael's C.	2	0
477	SUNY, C. Geneseo	2	0
478	Wheeling Jesuit U.	2	0
479	AL A&M U.	1 i	0 i
480	Coker C.	1	0
481	IL Wesleyan U.	1	0
482	Indiana U. PA	1	0
483	Kalamazoo C.	1	0
484	Mercer U.	1	1
485	Muhlenberg C.	1	1
486	NE Wesleyan U.	1 i	0
487	RI School of Design	1	0
488	Truman State U.	1	0
489	U. MN, Morris	1	0
490	U. West GA	1	0
491	U. WI, Stevens Point	1 i	0 i
492	U. WI, Superior	1 i	0 i
493	Winona State U.	1	0
494	Youngstown State U.	1	0

i = imputed.

<sup>a</sup> Johns Hopkins University includes Applied Physics Laboratory, with \$88,106 thousand in total and \$85,842 thousand in federally financed R&D expenditures in computer sciences in FY 2011.

NOTES: Institutions reporting zero expenditures in ranked total for FY 2011 are not listed in this table. Tied institutions are ranked alphabetically. Institutions ranked 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 listing of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table A-3.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2011.