

TABLE 25. Total and federally financed higher education R&D expenditures in the mathematical sciences, ranked by mathematical sciences R&D total: FY 2011

(Dollars in thousands)

Rank	Institution	Total	Federally financed
	All institutions	636,353	458,568
1	Johns Hopkins U. ^a	32,764	30,318
2	U. WA, Seattle	29,706	27,972
3	U. TX, M. D. Anderson Cancer Ctr.	20,185	5,999
4	U. TX, Austin	19,814	12,808
5	NC State U.	18,202	10,548
6	Rutgers, State U. NJ, New Brunswick	17,011	11,993
7	U. MI, Ann Arbor	14,148	7,484
8	Brown U.	13,059	9,243
9	PA State U., University Park and Hershey Medical Ctr.	11,732	8,815
10	TX A&M U., College Station	11,719	5,586
11	U. MN, Twin Cities	11,130	8,338
12	IA State U.	11,083	4,220
13	NY U.	11,077	10,643
14	Stanford U.	10,170	7,890
15	Duke U.	9,581	7,067
16	Princeton U.	9,295	7,040
17	U. CA, Los Angeles	8,308	6,831
18	MA Institute of Technology	8,293	7,725
19	SUNY, Stony Brook U.	8,186	4,417
20	GA Institute of Technology	8,110	2,876
21	Elizabeth City State U.	7,974	7,924
22	OH State U.	7,654	6,604
23	U. MD, College Park	7,208	5,977
24	Naval Postgraduate School	7,196	6,894
25	Purdue U., West Lafayette	6,862	4,923
26	Harvard U.	6,687	6,570
27	U. CA, Berkeley	6,435	5,576
28	U. WI, Madison	6,359	4,440
29	Rice U.	6,272	4,634
30	FL State U.	5,875	3,955
31	Columbia U. in the City of New York	5,715	5,139
32	U. NE, Lincoln	5,086	1,931
33	MI State U.	5,000	3,827
34	Cornell U.	4,857	4,159
35	U. CA, San Diego	4,594	3,763
36	NJ Institute of Technology	4,499	2,303
37	U. NC, Chapel Hill	4,471	4,038
38	TX Tech U.	4,414	2,096
39	AZ State U.	4,162	3,243
40	U. Pittsburgh, Pittsburgh	4,123	2,475
41	U. UT	4,031	3,242
42	Air Force Institute of Technology	3,922	2,863
43	NM State U.	3,900	3,688
44	San Diego State U.	3,851	2,133
45	U. CA, Irvine	3,837	3,006
46	Boston U.	3,836	3,296
47	VA Polytechnic Institute and State U.	3,833	1,849
48	U. CA, Davis	3,814	2,831
49	U. PA	3,629	3,311
50	U. Chicago	3,578	3,086

TABLE 25. Total and federally financed higher education R&D expenditures in the mathematical sciences, ranked by mathematical sciences R&D total: FY 2011

(Dollars in thousands)

Rank	Institution	Total	Federally financed
51	U. IL, Urbana-Champaign	3,533	3,121
52	Yale U.	3,484	2,215
53	Clemson U.	3,434	743
54	Carnegie Mellon U.	3,132	2,936
55	U. Southern CA	3,079	2,325
56	U. FL	3,002	1,759
57	U. CO, Boulder	2,991	2,991
58	U. AZ	2,901	2,180
59	Rensselaer Polytechnic Institute	2,844	2,499
60	U. IL, Chicago	2,822	2,146
61	Northwestern U.	2,802	2,180
62	IN U., Bloomington	2,682	1,786
63	U. MA, Amherst	2,591	2,097
64	U. SC, Columbia	2,541	2,528
65	U. KY	2,532	1,999
66	LA State U., Baton Rouge	2,511	1,507
67	U. NM	2,493	2,396
68	CO State U., Ft. Collins	2,492	2,114
69	OK State U., Stillwater	2,402	150
70	U. GA	2,348	1,773
71	Tulane U.	2,184	1,141
72	U. Notre Dame	2,151	1,778
73	George Washington U.	1,971	1,068
74	Old Dominion U.	1,968	492
75	Western MI U.	1,947	1,686
76	U. TX, Arlington	1,895	1,231
77	SUNY, U. Binghamton	1,861	247
78	VA Commonwealth U.	1,853	1,837
79	U. IA	1,835	1,615
80	U. Houston	1,829	1,085
81	U. MO, Columbia	1,760	1,677
82	U. LA, Lafayette	1,675	521
83	MI Technological U.	1,624	118
84	DE State U.	1,607	1,563
85	U. DE	1,602	1,355
86	U. AL, Birmingham	1,538	1,365
87	WA State U.	1,538	990
88	Worcester Polytechnic Institute	1,528	1,365
89	CA State U., Fullerton	1,497	1,049
90	U. MD, Baltimore County	1,486	504
91	Vanderbilt U.	1,476	1,449
92	FL Atlantic U.	1,469	708
93	CA State U., San Bernardino	1,457	1,071
94	San Francisco State U.	1,449	1,342
95	U. TX, El Paso	1,419	893
96	U. CA, Santa Barbara	1,389	1,275
97	U. Akron	1,365	383
98	Rockefeller U.	1,323	669
99	U. WI, Milwaukee	1,306	872
100	George Mason U.	1,305	1,081
101	Dartmouth C.	1,294	994

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(Dollars in thousands)

Rank	Institution	Total	Federally financed
102	U. NC, Charlotte	1,275	1,104
103	U. Richmond	1,180	456
104	U. Cincinnati	1,175	335
105	TX State U., San Marcos	1,174	620
106	Northeastern U.	1,155	1,060
107	U. Miami	1,149	1,023
108	U. CO, Denver and Anschutz Medical Campus	1,146	1,143
109	U. WY	1,142	1,142
110	MT State U., Bozeman	1,132	1,059
111	Duquesne U.	1,118	619
112	MS State U.	1,105	76
113	OR State U.	1,099	736
114	Southern Methodist U.	1,096	1,011
115	U. PR, Mayaguez	1,088	133
116	Brigham Young U., Provo	1,050	966
117	U. South FL, Tampa	974	596
118	KS State U.	964	465
119	CO School of Mines	950	929
120	U. CA, Riverside	949	692
121	U. TX, Pan American	949	223
122	SUNY, U. Buffalo	928	680
123	U. KS	904	882
124	Clarkson U.	899	695
125	U.S. Naval Academy	874	812
126	CUNY, City C.	867	327
127	Wayne State U.	861	557
128	U. CA, Santa Cruz	852	507
129	Temple U.	844	696
130	U. VA, Charlottesville	840	760
131	CA State U., Dominguez Hills	833	764
132	U. Rochester	821	729
133	CA Institute of Technology	812	812
134	Syracuse U.	809	755
135	American U.	800	132
136	U. Memphis	779	406
137	IN U.-Purdue U., Indianapolis	772	640
138	U. MA, Dartmouth	742	471
139	U. North TX, Denton	739	366
140	Case Western Reserve U.	727	450
141	Rochester Institute of Technology	714	626
142	U. OR	707	675
143	C. of William and Mary and VA Institute of Marine Science	704	564
144	Marquette U.	700	377
145	LA Tech U.	694	267
146	Tufts U.	682	577
147	U. CT	657	541
148	Rutgers, State U. NJ, Newark	655	558
149	WV U.	650	315
150	U. ID	649	578
151	James Madison U.	646	580
152	Harvey Mudd C.	613	566

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Rank	Institution	Total	Federally financed
153	U. Dayton	610	579
154	Bryn Mawr C.	595	279
155	U. TN, Knoxville	580	404
156	Carleton C.	571	341
157	U. MA, Lowell	539	25
158	CA State U., Northridge	534	534
159	San Jose State U.	528	141
160	GA State U.	523	115
161	PA State U., Harrisburg	519	497
162	IL State U.	512	455
163	Montclair State U.	508	483
164	U. VT	494	369
165	Fayetteville State U.	492	343
166	CA Polytechnic State U., San Luis Obispo	485	281
167	Drexel U.	474	468
168	Williams C.	471	212
169	Washington U., St. Louis	463	442
170	Brandeis U.	462	462
171	Wesleyan U.	455	248
172	Auburn U., Auburn	452	413
173	U. AR, Pine Bluff	452	265
174	U. Central FL	448	322
175	FL International U.	437	271
176	FL A&M U.	435	424
177	U. TX, Dallas	430	300
178	Hampton U.	427	427
179	IL Institute of Technology	410	384
180	Southern IL U., Edwardsville	398	115
181	Central CT State U.	396	379
182	U. NC, Asheville	394	71
183	Smith C.	393	387
184	Polytechnic Institute of NY U.	385	307
185	Wichita State U.	381	313
186	U. MT	377	325
187	Portland State U.	371	354
188	Southern IL U., Carbondale	371	252
189	U. Denver	370	364
190	NC Central U.	360	360
191	Morgan State U.	359	336
192	U. OK	358	305
193	U. CA, Merced	352	123
194	Ft. Valley State U.	346	346
195	Boston C.	344	336
196	CUNY, C. Staten Island	342	306
197	Loyola U., Chicago	338	316
198	U. Metropolitana	334	313
199	Jackson State U.	330	275
200	Mt. Holyoke C.	320	162
201	CUNY, Queens C.	317	216
202	Humboldt State U.	317	219
203	Sam Houston State U.	316	311

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Rank	Institution	Total	Federally financed
204	RI C.	314	121
205	U. Toledo	313	25
206	Georgetown U.	306	221
207	CUNY, Lehman C.	288	253
208	Boise State U.	284	272
209	Wright State U.	279	111
210	TX A&M U., Corpus Christi	277	162
211	NC Agricultural and Technical State U.	275	252
212	Stevens Institute of Technology	274	238
213	Truman State U.	270	257
214	Howard U.	266	254
215	TN Technological U.	266	256
216	Fairfield U.	264	73
217	U.S. Military Academy	264	264
218	U. ME	261	141
219	CUNY, Graduate Ctr.	259	259
220	Allen U.	253 i	253 i
221	Claremont Graduate U.	250	200
222	Alcorn State U.	248	230
223	John Carroll U.	248	226
224	Macalester C.	248	109
225	UT State U.	247	194
226	Baylor U.	246	93
227	U. MN, Duluth	246	191
228	U. NV, Reno	246	243
229	U. New Orleans	245	158
230	VA State U.	241	233
231	U. AK, Fairbanks	236	213
232	CA State U., East Bay	230	230
233	AL A&M U.	218 i	218 i
234	Kent State U.	218	131
235	U. AL, Tuscaloosa	213	182
236	ND State U.	212	164
237	Barnard C.	210	203
238	LeMoyne-Owen C.	209	171
239	U. RI	205	117
240	Olivet U.	204	0
241	East TN State U.	203	203
242	Wiley C.	200	200
243	SD State U.	197	196
244	Savannah State U.	194	194
245	Central MI U.	192	128
246	U. PR, Rio Piedras	187	157
247	Xavier U. LA	187	187
248	Pomona C.	183	158
249	Bucknell U.	181	165
250	U. AR, Fayetteville	181	141
251	U. MO, St. Louis	179	133
252	Stephen F. Austin State U.	176	54
253	Amherst C.	170	38
254	Franklin and Marshall C.	169	123

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Rank	Institution	Total	Federally financed
255	U. St. Thomas (MN)	167	143
256	C. Charleston	165	120
257	Trinity U.	165	160
258	Hope C.	162	95
259	U. CO, Colorado Springs	162	158
260	U. NC, Greensboro	161	158
261	Murray State U.	160	144
262	U. NV, Las Vegas	155	155
263	Calvin C.	153	74
264	SUNY, U. Albany	153	151
265	CA State U., Channel Islands	149	149
266	Scripps C.	137	112
267	C. of the Holy Cross	136	136
268	Arcadia U.	134	134
269	Loyola Marymount U.	134	107
270	DePaul U.	133	122
271	Northern IL U.	132	130
272	U. HI, Hilo	132	132
273	CUNY, Hunter C.	130	46
274	Southern CT State U.	127 i	127
275	Cleveland State U.	126	87
276	U. SD	126	0
277	Lehigh U.	124	124
278	Valparaiso U.	124	122
279	St. Michael's C.	123	46
280	U. NE, Omaha	122	58
281	NM Institute of Mining and Technology	118	118
282	U. AL, Huntsville	118	118
283	U. TX, Tyler	118	118
284	U. West GA	118	25
285	Andrews U.	117	54
286	Davidson C.	116	46
287	Villanova U.	116 i	80 i
288	Ithaca C.	113	87
289	Morehouse C.	113 i	113 i
290	Claffin U.	112	112
291	Winthrop U.	110	84
292	U.S. Air Force Academy	104	0
293	CA State U., Long Beach	103 i	103 i
294	Swarthmore C.	101	70
295	Colby C.	95	75
296	U. NH	94	87
297	U. Northern CO	94	83
298	Purdue U., Calumet	93	75
299	Bard C.	92	92
300	OH U.	92	77
301	U. MS and U. MS Medical Ctr.	92	79
302	Rose-Hulman Institute of Technology	91	90
303	Colgate U.	90	38
304	Oakland U.	87	65
305	Grinnell C.	86	35

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Rank	Institution	Total	Federally financed
306	Canisius C.	84	84
307	U. South AL	84	70
308	Armstrong Atlantic State U.	82 i	82 i
309	Bowdoin C.	82	72
310	Benedict C.	81	81
311	Central State U.	78	78
312	Embry-Riddle Aeronautical U.	78	44
313	SD School of Mines and Technology	76	76
314	Claremont McKenna C.	75	75
315	Lafayette C.	75	73
316	Occidental C.	74	74
317	St. Mary's C. MD	73	55
318	East Central U.	72 i	66 i
319	Northern AZ U.	71	49
320	Youngstown State U.	71	68
321	Northern KY U.	69	44
322	Prairie View A&M U.	69	59
323	Saginaw Valley State U.	68	1
324	U. Southern MS	68	68
325	CUNY, Brooklyn C.	66	55
326	Wittenberg U.	66	56
327	Bates C.	65	61
328	Shepherd U.	65	0
329	National U.	64 i	12 i
330	Towson U.	64	64
331	Morehead State U.	62	0
332	Ursinus C.	62	62
333	Middle TN State U.	60	43
334	CA State U., Fresno	59	33
335	Loyola U., MD	59	59
336	Northern MI U.	59	0
337	Sinte Gleska U.	59	59
338	West TX A&M U.	59	55
339	FL Institute of Technology	58	58
340	U. AR, Little Rock	58	58
341	U. TX, Brownsville	57	57
342	Northeastern IL U.	55	55
343	U. DC	55	0
344	Lamar U.	54	39
345	Radford U.	53	53
346	Reed C.	52	52
347	C. Wooster	51	0
348	Fordham U.	51	0
349	U. WI, La Crosse	51 i	34 i
350	CUNY, New York City C. of Technology	50	0
351	Franklin W. Olin C. of Engineering	50	46
352	Union C., Schenectady	50	45
353	U. Houston, Clear Lake	49	42
354	Wake Forest U.	49	49
355	Wellesley C.	48	48
356	Rutgers, State U. NJ, Camden	47	47

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Rank	Institution	Total	Federally financed
357	U. TX, San Antonio	45	31
358	CO C.	44	44
359	GA Southern U.	44	19
360	U. New Haven	44	44
361	Ball State U.	43	16
362	U. West FL	43	0
363	Vassar C.	43	43
364	Western WA U.	43	43
365	Grand Valley State U.	42 i	42 i
366	Rider U.	42	42
367	CA Maritime Academy	40 i	0
368	LA State U., Shreveport	40	34
369	U. MN, Crookston	40	0
370	Willamette U.	40	26
371	U. Louisville	39	22
372	U. Central OK	38	0
373	U. of Mary Washington	38 i	38 i
374	Catholic U. America	36	36
375	U. MO, Kansas City	36	0
376	U. WI, Eau Claire	36	36
377	Auburn U., Montgomery	35	35
378	St. Bonaventure U.	34	34
379	St. Louis U.	34	17
380	Wabash C.	34	30
381	East Carolina U.	33	33
382	Drew U.	32	0
383	Eastern OR U.	32	0
384	Elon U.	32 i	0
385	U. MD, Eastern Shore	32	0
386	McNeese State U.	31	0
387	TX Christian U.	31	31
388	Benedictine U.	30	0
389	Bradley U.	30	0
390	Dickinson C.	30	0
391	Pitzer C.	30 i	30
392	Tarleton State U.	30	0
393	Paine C.	28	28
394	Philander Smith C.	28 i	27 i
395	Clark U.	27	25
396	Haverford C.	27 i	24
397	St. Joseph's U.	27	27
398	Southern U. and A&M C., New Orleans	26	0
399	C. of Menominee Nation	25 i	25 i
400	Lewis and Clark C.	25	0
401	Purdue U., North Central	25	25
402	Norfolk State U.	24	24
403	OH Wesleyan U.	24	0
404	SUNY, C. Geneseo	24	12
405	U. North AL	24 i	23 i
406	CA State U., Los Angeles	23	23
407	Centre C.	23	0

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Rank	Institution	Total	Federally financed
408	Concordia C.	23	0
409	Furman U.	22	0
410	SUNY, New Paltz	22	22
411	Skidmore C.	21	0
412	St. Cloud State U.	21	0
413	TX Woman's U.	21	0
414	U. Central AR	21	21
415	Heidelberg U.	20 i	10 i
416	PA State U., Erie	20	0
417	U. Scranton	19	19
418	C. of St. Benedict	18	0
419	St. John's U., Collegeville	17	0
420	St. Olaf C.	17	0
421	CA State U., Sacramento	16	16
422	Gonzaga U.	16	16
423	MS Valley State U.	16	16
424	U. Houston, Downtown	16	16
425	Appalachian State U.	15	13
426	CA State U., Bakersfield	15	0
427	CA State U., Stanislaus	15 i	12 i
428	Eastern WA U.	15	0
429	Indiana U. PA	15	0
430	IN U.-Purdue U., Ft. Wayne	15	0
431	Sweet Briar C.	15	6
432	U. MI, Dearborn	15	0
433	U. NC, Wilmington	15	15
434	Azusa Pacific U.	14 i	0
435	CO State U., Pueblo	14	14
436	Kalamazoo C.	14	0
437	Kennesaw State U.	14	14
438	Lake Forest C.	14	0
439	ME Maritime Academy	14 i	13 i
440	MO U. of Science and Technology	14	0
441	Seattle U.	14	4
442	U. North FL	14	0
443	U. Southern IN	14	14
444	Wheaton C., Wheaton	14	0
445	Barnes-Jewish C. Goldfarb School of Nursing	13 i	9 i
446	CUNY, Baruch C.	13	0
447	CUNY, York C.	13	0
448	Emporia State U.	13	13
449	Kettering U.	13	0
450	PA State U., Altoona	13	0
451	U. HI, West O'ahu	13 i	11 i
452	Austin Peay State U.	12	0
453	Eastern CT State U.	12	0
454	New C. FL	12	0
455	Norwich U.	12 i	0
456	MO State U.	11	11
457	Salisbury U.	11	0
458	U. HI, Manoa	11	0

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Rank	Institution	Total	Federally financed
459	Bloomsburg U. PA	10	10
460	CUNY, John Jay C. of Criminal Justice	10	0
461	Dine C.	10 i	10 i
462	MN State U., Moorhead	10 i	6 i
463	Pepperdine U.	10 i	10
464	Allegheny C.	9	9
465	Augsburg C.	9	0
466	Butler U.	9 i	0
467	Drake U.	9	0
468	IN U., Gary	9	0
469	Mercer U.	9	0
470	U. TN, Chattanooga	9	0
471	West Chester U. PA	9	0
472	William Paterson U.	9	0
473	Babson C.	8	0
474	Bryn Athyn C.	8 i	0
475	Eastern KY U.	8	8
476	Eastern NM U., Portales	8	8
477	Mercyhurst C.	8	0
478	TX A&M International U.	8	0
479	U. Portland	8	2
480	Alliant International U.	7 i	0
481	Bridgewater State C.	7	0
482	OH Northern U.	7	0
483	SUNY, Buffalo State C.	7	0
484	Valley City State U.	7 i	6 i
485	VA Military Institute	7	0
486	Albion C.	6	0
487	Capitol C.	6 i	6 i
488	Citadel Military C. SC	6	0
489	Edinboro U. PA	6	0
490	HI Pacific U.	6	6
491	IN U., South Bend	6	0
492	La Sierra U.	6	0
493	Mercy C.	6	0
494	Oberlin C.	6	0
495	Agnes Scott C.	5	5
496	Alderson-Broaddus C.	5 i	4 i
497	Austin C.	5 i	1 i
498	Christian Brothers U.	5 i	4 i
499	Coe C.	5	0
500	C. NJ	5	5
501	Linfield C.	5 i	1 i
502	Oglala Lakota C.	5 i	5 i
503	U. PR, Cayey	5	0
504	Valdosta State U.	5	0
505	Western KY U.	5	5
506	Ashland U.	4 i	4 i
507	Augustana C., Rock Island	4	0
508	CUNY, Medgar Evers C.	4	0
509	Evergreen State C.	4	0

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Rank	Institution	Total	Federally financed
510	Messiah C.	4 i	0
511	Southern AR U.	4	0
512	Taylor U.	4	0
513	TN State U.	4	4
514	AR State U., Jonesboro	3	0
515	Bryant U.	3	0
516	Edison State C.	3 i	3 i
517	Luther C.	3	0
518	Millsaps C.	3	3
519	MN State U., Mankato	3	0
520	Niagara U.	3	0
521	Sewanee: U. of the South	3	0
522	Sonoma State U.	3	0
523	SUNY, C. Old Westbury	3 i	3 i
524	Susquehanna U.	3	0
525	U. Northern IA	3	0
526	Winona State U.	3	0
527	Coker C.	2	0
528	Gallaudet U.	2	2
529	Nicholls State U.	2	0
530	North Central C.	2	0
531	PA State U., Beaver	2	2
532	SUNY, Institute of Technology, Utica/Rome	2	2
533	CA State U., Chico	1	1
534	Eastern IL U.	1	1
535	NE Wesleyan U.	1 i	0
536	Plymouth State U.	1 i	0 i
537	Slippery Rock U. PA	1	0
538	Southeast MO State U.	1	0
539	Trinity C., Hartford	1	0
540	U. MI, Flint	1	0
541	U. of the Pacific	1	1
542	U. WI, Stevens Point	1 i	1 i
543	U. WI, Stout	1 i	0 i
544	U. WI, Whitewater	1 i	0 i

i = imputed.

^a Johns Hopkins University includes Applied Physics Laboratory, with \$30,985 thousand in total and \$28,721 thousand in federally financed R&D expenditures in mathematical 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.