

TABLE 26. Total and federally financed higher education R&D expenditures in the physical sciences, ranked by physical sciences R&D total, by subfield: FY 2011
(Dollars in thousands)

Rank	Institution	Total					Federally financed				
		All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec	All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec
	All institutions	4,779,092	582,187	1,785,614	2,108,596	302,695	3,538,267	408,153	1,244,103	1,661,831	224,180
1	CA Institute of Technology	225,641	10,964	35,393	179,284	0	212,607	10,652	27,285	174,670	0
2	Johns Hopkins U. ^a	176,047	43,370	16,776	90,028	25,873	170,038	40,810	16,308	87,069	25,851
3	U. AZ	175,930	131,509	21,528	22,893	0	109,315	80,229	14,931	14,155	0
4	MA Institute of Technology	115,445	20,336	26,376	61,334	7,399	109,254	20,054	23,175	59,004	7,021
5	U. MD, College Park	104,202	26,269	11,813	64,154	1,966	80,767	22,734	8,868	49,165	0
6	U. TX, Austin	97,738	16,923	26,985	51,496	2,334	62,723	4,488	16,071	42,111	53
7	Stanford U.	97,040	0	22,859	6,583	67,598	73,783	0	19,014	5,629	49,140
8	U. CO, Boulder	96,858	42,275	22,858	29,108	2,617	89,041	41,819	18,591	27,051	1,580
9	Cornell U.	93,632	13,278	20,610	43,711	16,033	84,095	12,079	17,004	39,956	15,056
10	U. CA, Berkeley	90,463	49,819	22,124	17,628	892	61,395	34,716	14,216	12,347	116
11	U. WI, Madison	88,088	7,511	20,958	36,655	22,964	64,787	3,217	13,033	30,709	17,828
12	MI State U.	76,294	0	9,295	66,999	0	54,200	0	7,227	46,973	0
13	U. CA, Los Angeles	75,370	0	20,225	54,117	1,028	56,531	0	15,458	41,073	0
14	FL State U.	70,453	42	12,741	57,570	100	37,707	42	8,457	29,208	0
15	Harvard U.	61,983	9,481	29,007	22,792	703	56,860	9,408	24,326	22,432	694
16	U. CA, San Diego	61,649	0	27,326	31,908	2,415	48,437	0	23,022	24,311	1,104
17	PA State U., University Park and Hershey Medical Ctr.	61,155	10,406	22,714	28,035	0	38,871	6,017	12,786	20,068	0
18	U. IL, Urbana-Champaign	61,153	3,342	29,306	28,505	0	49,408	2,204	23,670	23,534	0
19	U. Chicago	59,605	14,199	19,583	16,627	9,196	49,923	11,956	15,510	13,825	8,632
20	Rutgers, State U. NJ, New Brunswick	56,386	917	37,302	16,377	1,790	42,949	917	32,088	9,308	636
21	U. WA, Seattle	52,793	8,653	23,616	20,524	0	47,669	6,043	21,241	20,385	0
22	Princeton U.	49,344	6,028	17,608	25,708	0	30,937	4,235	7,849	18,853	0
23	Columbia U. in the City of New York	49,274	8,768	13,457	27,049	0	44,740	8,262	11,910	24,568	0
24	U. MI, Ann Arbor	48,100	5,593	21,939	20,568	0	32,723	4,080	15,102	13,541	0
25	GA Institute of Technology	46,568	0	31,424	15,144	0	29,905	0	19,595	10,310	0
26	TX A&M U., College Station	46,309	167	24,608	19,200	2,334	21,486	108	9,996	10,687	695
27	U. HI, Manoa	45,083	36,411	3,235	3,710	1,727	26,852	20,450	2,122	2,553	1,727
28	Northwestern U.	43,403	0	32,213	8,750	2,440	31,930	0	23,581	6,358	1,991
29	IN U., Bloomington	40,963	1,360	19,699	19,904	0	19,151	580	8,208	10,363	0
30	U. CA, Santa Barbara	40,049	2,964	11,465	23,643	1,977	28,645	1,966	8,492	18,187	0
31	Yale U.	38,897	3,718	13,704	21,475	0	24,495	2,210	8,344	13,941	0
32	U. CA, Santa Cruz	38,058	19,951	6,920	11,058	129	16,152	4,347	5,164	6,641	0
33	U. MN, Twin Cities	37,985	1,821	13,041	23,123	0	28,784	1,359	9,100	18,325	0
34	U. CA, Irvine	37,354	0	16,939	20,415	0	24,732	0	12,331	12,401	0
35	U. FL	35,696	5,384	14,550	14,877	885	24,209	3,533	8,939	11,654	83
36	U. NC, Chapel Hill	35,595	0	26,806	8,789	0	28,456	0	21,311	7,145	0
37	U. MA, Amherst	34,761	5,198	22,893	6,670	0	22,750	3,301	14,768	4,681	0
38	Vanderbilt U.	34,148	0	24,577	9,571	0	29,196	0	21,155	8,041	0

TABLE 26. Total and federally financed higher education R&D expenditures in the physical sciences, ranked by physical sciences R&D total, by subfield: FY 2011
(Dollars in thousands)

Rank	Institution	Total					Federally financed				
		All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec	All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec
39	Boston U.	34,041	1,642	11,632	8,858	11,909	30,377	1,560	9,962	7,683	11,172
40	Purdue U., West Lafayette	32,914	0	21,800	10,944	170	25,228	0	16,113	9,115	0
41	OH State U.	32,237	3,081	11,290	17,615	251	26,494	2,693	9,257	14,544	0
42	SUNY, Stony Brook U.	32,086	1,236	15,333	15,297	220	19,889	974	9,477	9,438	0
43	U. UT	30,893	0	23,175	7,718	0	15,603	0	10,812	4,791	0
44	U. PA	30,065	0	13,374	16,691	0	27,242	0	12,383	14,859	0
45	U. CA, Davis	29,308	0	13,412	11,451	4,445	20,464	0	10,507	7,476	2,481
46	U. Pittsburgh, Pittsburgh	28,579	1,940	18,082	8,557	0	17,236	614	11,330	5,292	0
47	U. IA	27,777	1,055	6,662	20,060	0	24,007	979	4,418	18,610	0
48	WA State U.	25,605	60	9,351	16,101	93	16,488	0	5,764	10,656	68
49	Brown U.	25,437	1,158	8,407	8,383	7,489	16,312	103	5,638	4,256	6,315
50	Rice U.	24,837	0	12,249	12,588	0	17,411	0	7,401	10,010	0
51	AZ State U.	23,778	839	12,699	10,240	0	17,941	524	9,341	8,076	0
52	U. Notre Dame	23,502	0	10,630	12,872	0	19,488	0	8,744	10,744	0
53	VA Polytechnic Institute and State U.	23,209	0	14,956	7,778	475	11,985	0	8,234	3,500	251
54	U. SC, Columbia	22,440	0	15,759	6,681	0	9,045	0	7,237	1,808	0
55	LA State U., Baton Rouge	22,216	0	10,524	11,651	41	12,412	0	6,053	6,359	0
56	Wayne State U.	21,757	0	10,419	6,816	4,522	11,231	0	6,165	4,886	180
57	U. VA, Charlottesville	21,260	3,347	9,387	8,526	0	18,500	2,724	8,269	7,507	0
58	Duke U.	20,883	0	8,836	12,047	0	15,815	0	4,806	11,009	0
59	MT State U., Bozeman	20,705	0	11,872	8,226	607	16,641	0	9,593	6,806	242
60	U. Central FL	20,397	0	4,411	15,986	0	13,796	0	3,291	10,505	0
61	U. OR	19,853	0	9,177	10,676	0	15,693	0	6,146	9,547	0
62	Catholic U. America	19,687	0	760	6,203	12,724	15,495	0	582	5,958	8,955
63	U. NE, Lincoln	19,528	0	6,116	13,412	0	11,777	0	2,129	9,648	0
64	U. DE	19,371	2,691	8,695	7,985	0	16,433	2,265	7,447	6,721	0
65	NC State U.	19,343	0	10,527	8,816	0	10,347	0	4,918	5,429	0
66	IA State U.	19,199	0	10,513	8,686	0	9,377	0	5,222	4,155	0
67	U. Akron	18,192	0	17,793	399	0	3,150	0	3,136	14	0
68	U. KS	18,192	434	13,754	4,004	0	15,148	432	11,011	3,705	0
69	U. TN, Knoxville	17,990	0	6,362	11,628	0	14,155	0	4,515	9,640	0
70	NM State U.	17,794	6,060	9,937	1,553	244	11,748	2,344	7,804	1,368	232
71	SUNY, U. Buffalo	16,516	0	11,951	4,482	83	9,764	0	6,947	2,817	0
72	ND State U.	16,461	0	6,974	433	9,054	12,805	0	5,549	332	6,924
73	U. TX, M. D. Anderson Cancer Ctr.	16,181	0	16,181	0	0	9,278	0	9,278	0	0
74	U. Rochester	16,016	0	6,201	9,815	0	13,670	0	5,148	8,522	0
75	Washington U., St. Louis	15,998	0	6,643	9,355	0	12,609	0	4,798	7,811	0
76	U. MS and U. MS Medical Ctr.	15,795	0	1,447	14,348	0	12,507	0	1,306	11,201	0
77	Jackson State U.	15,626	0	3,265	3,736	8,625	14,299	0	3,117	3,397	7,785

TABLE 26. Total and federally financed higher education R&D expenditures in the physical sciences, ranked by physical sciences R&D total, by subfield: FY 2011
(Dollars in thousands)

Rank	Institution	Total					Federally financed				
		All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec	All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec
78	U. Southern MS	15,266	0	14,044	1,222	0	13,933	0	12,711	1,222	0
79	U. Southern CA	15,186	127	12,842	1,900	317	11,616	127	9,681	1,495	313
80	U. PR, Rio Piedras	15,161	0	9,890	5,271	0	12,994	0	8,750	4,244	0
81	U. IL, Chicago	15,054	0	7,732	7,322	0	11,438	0	5,504	5,934	0
82	Northeastern U.	14,942	0	7,547	7,395	0	12,049	0	5,630	6,419	0
83	NJ Institute of Technology	14,818	0	1,990	12,828	0	9,943	0	955	8,988	0
84	Emory U.	14,787 i	0 i	13,230 i	1,557 i	0 i	8,818	0	7,472	1,346	0
85	AL A&M U.	14,442 i	0 i	5 i	14,363 i	74 i	14,442 i	0 i	5 i	14,363 i	74 i
86	NM Institute of Mining and Technology	14,370	0	666	13,704	0	10,828	0	643	10,185	0
87	U. Toledo	14,300	1,205	2,893	9,209	993	7,679	892	1,451	5,228	108
88	U. CA, Riverside	14,143	8	7,767	6,368	0	11,590	0	6,087	5,503	0
89	U. CA, San Francisco	13,993	0	13,993	0	0	12,775	0	12,775	0	0
90	U. CA, Office of the President	13,781	13,781	0	0	0	0	0	0	0	0
91	Rensselaer Polytechnic Institute	13,704	0	3,996	9,708	0	10,639	0	3,028	7,611	0
92	U. AR, Fayetteville	13,621	527	5,229	7,865	0	8,737	74	3,295	5,368	0
93	NY U.	12,952	0	7,332	5,620	0	11,704	0	7,135	4,569	0
94	U. NM	12,912	0	3,000	9,171	741	10,675	0	2,424	7,938	313
95	U. TX, Dallas	12,701	0	0	0	12,701	6,984	0	0	0	6,984
96	U. OK	12,654	0	6,800	5,854	0	8,425	0	4,388	4,037	0
97	U. MA, Lowell	12,440	0	2,734	9,706	0	8,177	0	1,205	6,972	0
98	CO State U., Ft. Collins	12,267	0	8,487	3,663	117	9,341	0	6,172	3,066	103
99	Carnegie Mellon U.	11,946	12	3,993	6,589	1,352	9,586	12	2,752	5,475	1,347
100	Case Western Reserve U.	11,827	313	4,287	6,912	315	8,299	251	3,252	4,784	12
101	KS State U.	11,320	0	2,974	8,346	0	9,370	0	2,122	7,248	0
102	U. WI, Milwaukee	11,276	0	4,171	6,938	167	8,101	0	2,614	5,487	0
103	Naval Postgraduate School	11,105	0	0	11,105	0	10,268	0	0	10,268	0
104	U. Houston	10,996	0	7,454	3,456	86	5,696	0	3,303	2,381	12
105	U. KY	10,873	0	5,198	5,671	4	5,237	0	2,446	2,791	0
106	Kent State U.	10,858	0	3,730	2,713	4,415	5,515	0	1,581	2,034	1,900
107	Old Dominion U.	10,268	0	4,606	5,662	0	4,680	0	2,127	2,553	0
108	Clemson U.	10,233	0	5,721	4,512	0	5,023	0	2,480	2,543	0
109	U. MD, Baltimore County	10,203	0	3,917	2,999	3,287	7,538	0	2,873	2,310	2,355
110	TX Tech U.	10,183	0	7,284	2,899	0	4,854	0	3,385	1,469	0
111	U. CT	10,129	0	5,879	4,250	0	7,591	0	3,973	3,618	0
112	Temple U.	9,940	0	6,166	3,774	0	7,039	0	4,438	2,601	0
113	Boston C.	9,825	0	5,731	3,584	510	7,288	0	4,502	2,786	0
114	Dartmouth C.	9,823	0	4,786	5,037	0	6,496	0	3,020	3,476	0
115	U. TX, Arlington	9,803	0	3,678	6,105	20	5,167	0	1,269	3,898	0

TABLE 26. Total and federally financed higher education R&D expenditures in the physical sciences, ranked by physical sciences R&D total, by subfield: FY 2011
(Dollars in thousands)

Rank	Institution	Total					Federally financed				
		All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec	All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec
116	Portland State U.	9,513	0	5,353	2,333	1,827	8,073	0	4,630	1,635	1,808
117	Rochester Institute of Technology	9,360	0	206	1,567	7,587	6,858	0	137	1,434	5,287
118	Rockefeller U.	9,029	0	5,971	3,058	0	4,802	0	3,898	904	0
119	GA State U.	8,993	0	4,997	3,996	0	5,975	0	3,242	2,733	0
120	CUNY, City C.	8,791	0	3,625	4,039	1,127	8,218	0	3,373	3,718	1,127
121	OH U.	8,782	431	2,141	6,210	0	5,311	372	1,083	3,856	0
122	U. AL, Huntsville	8,782	4,779	183	2,701	1,119	8,056	4,675	112	2,411	858
123	OK State U., Stillwater	8,670	0	3,585	5,061	24	3,315	0	1,305	2,010	0
124	Brandeis U.	8,534	0	4,395	4,139	0	7,567	0	3,658	3,909	0
125	ID State U.	8,519	0	1,144	7,375	0	7,519	0	919	6,600	0
126	C. of William and Mary and VA Institute of Marine Science	8,508	0	750	6,049	1,709	6,850	0	570	4,888	1,392
127	U. NV, Reno	8,184	152	1,963	6,069	0	7,189	62	1,267	5,860	0
128	CUNY, Hunter C.	8,082	55	5,949	2,078	0	5,898	0	4,696	1,202	0
129	WV U.	8,008	0	2,321	5,687	0	5,284	0	1,640	3,644	0
130	U. South FL, Tampa	8,006	0	4,381	3,625	0	4,412	0	1,815	2,597	0
131	Syracuse U.	7,874	0	1,681	6,193	0	5,958	0	1,015	4,943	0
132	U. AL, Tuscaloosa	7,849	462	4,436	2,951	0	5,735	462	3,109	2,164	0
133	U. North TX, Denton	7,797	0	6,303	1,494	0	2,809	0	2,071	738	0
134	George Mason U.	7,650	4,810	87	2,271	482	6,627	4,322	28	2,012	265
135	U. New Orleans	7,640	0	6,892	748	0	4,521	0	4,127	394	0
136	U. Cincinnati	7,465	0	4,678	2,787	0	4,567	0	2,978	1,589	0
137	UT State U.	7,393	0	1,872	988	4,533	5,880	0	1,503	679	3,698
138	CO School of Mines	7,026	0	3,378	3,648	0	6,341	0	2,953	3,388	0
139	U. GA	7,001	497	4,821	1,683	0	5,654	494	3,687	1,473	0
140	U. TX, El Paso	6,913	0	5,124	881	908	3,061	0	2,493	568	0
141	Hampton U.	6,912	0	118	6,794	0	6,912	0	118	6,794	0
142	U. NV, Las Vegas	6,874	0	2,480	4,394	0	6,591	0	2,329	4,262	0
143	Tufts U.	6,845	0	4,996	1,849	0	5,963	0	4,311	1,652	0
144	SUNY, U. Binghamton	6,751	0	5,616	1,135	0	2,951	0	2,793	158	0
145	U. AK, Fairbanks	6,634	6,426	78	0	130	5,248	5,229	19	0	0
146	MS State U.	6,490	1	4,337	2,151	1	1,637	0	749	888	0
147	Air Force Institute of Technology	6,357	0	0	6,357	0	4,243	0	0	4,243	0
148	U. SD	6,263	0	4,466	1,797	0	3,639	0	2,972	667	0
149	Western KY U.	6,075	1,675	2,098	2,214	88	4,526	1,147	1,776	1,515	88
150	San Diego State U.	6,061	856	3,201	1,695	309	3,561	506	1,833	913	309
151	Lehigh U.	5,873	0	3,405	2,468	0	4,286	0	2,496	1,790	0
152	Brigham Young U., Provo	5,803	207	4,258	1,338	0	4,675	201	3,477	997	0
153	U. MO, Columbia	5,742	0	2,964	2,778	0	5,560	0	2,945	2,615	0
154	U.S. Air Force Academy	5,629	0	1,032	4,597	0	3,882	0	452	3,430	0

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		All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec	All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec
155	Auburn U., Auburn	5,578	207	1,319	3,631	421	4,673	207	946	3,100	420
156	U. RI	5,574	0	2,725	1,065	1,784	5,064	0	2,389	1,060	1,615
157	VA Commonwealth U.	5,499	0	3,747	1,752	0	4,976	0	3,494	1,482	0
158	West Chester U. PA	5,142	54	15	40	5,033	5,117	50	0	34	5,033
159	Georgetown U.	5,134	0	2,711	2,423	0	4,707	0	2,616	2,091	0
160	U. ME	5,118	0	524	4,594	0	3,035	0	108	2,927	0
161	U. WY	5,114	0	2,232	2,882	0	4,890	0	2,109	2,781	0
162	FL International U.	5,068	0	2,335	2,733	0	4,437	0	1,975	2,462	0
163	MI Technological U.	5,054	0	1,498	3,523	33	2,370	0	457	1,913	0
164	OR State U.	4,800	0	4,079	721	0	3,931	0	3,409	522	0
165	Fisk U.	4,631	0	616	4,015	0	4,631	0	616	4,015	0
166	FL A&M U.	4,465	0	516	3,926	23	4,462	0	513	3,926	23
167	Oakland U.	4,368	0	1,799	2,569	0	3,639	0	1,457	2,182	0
168	Duquesne U.	4,352	0	4,082	270	0	1,468	0	1,370	98	0
169	George Washington U.	4,232	0	1,566	2,666	0	2,687	0	880	1,807	0
170	Howard U.	4,186	0	1,067	3,119	0	3,194	0	1,020	2,174	0
171	FL Atlantic U.	4,138	0	3,208	908	22	1,049	0	830	219	0
172	Bowling Green State U.	4,108	0	4,108	0	0	2,799	0	2,799	0	0
173	U. PR, Mayaguez	4,105	0	2,604	1,501	0	2,377	0	1,947	430	0
174	IL Institute of Technology	3,923	0	0	3,923	0	3,673	0	0	3,673	0
175	Western MI U.	3,920	0	1,860	2,060	0	3,516	0	1,617	1,899	0
176	Southern IL U., Carbondale	3,898	0	2,435	1,445	18	2,203	0	1,573	630	0
177	Drexel U.	3,866	0	1,383	2,483	0	3,280	0	1,002	2,278	0
178	U. TX, San Antonio	3,785	0	1,843	1,942	0	2,248	0	728	1,520	0
179	Wright State U.	3,756	0	649	2,784	323	1,977	0	352	1,339	286
180	U. TX, Brownsville	3,699	3,438	0	0	261	3,219	2,983	0	0	236
181	Xavier U. LA	3,649	0	3,311	0	338	3,173	0	2,933	0	240
182	Youngstown State U.	3,646	0	3,192	454	0	2,846	0	2,517	329	0
183	U. AL, Birmingham	3,599	0	603	2,996	0	2,712	0	464	2,248	0
184	Clark Atlanta U.	3,565	0	2,715	850	0	3,176	0	2,369	807	0
185	Wake Forest U.	3,519	0	1,731	1,788	0	3,074	0	1,485	1,589	0
186	U. AR, Little Rock	3,488	221	2,036	152	1,079	2,031	221	1,608	152	50
187	SUNY, C. of Environmental Science and Forestry	3,396 i	0 i	3,396 i	0 i	0 i	1,765 i	0 i	1,765 i	0 i	0 i
188	Southern Methodist U.	3,336	0	961	2,375	0	2,488	0	501	1,987	0
189	Miami U.	3,335	0	2,907	274	154	2,497	0	2,318	179	0
190	Wesleyan U.	3,284	837	1,643	804	0	1,815	448	1,066	301	0
191	U. Denver	3,255	161	2,116	978	0	2,850	154	1,734	962	0
192	U. ID	3,237	0	2,097	1,047	93	2,264	0	1,337	927	0
193	U. MO, St. Louis	3,152	0	2,697	455	0	2,663	0	2,238	425	0

TABLE 26. Total and federally financed higher education R&D expenditures in the physical sciences, ranked by physical sciences R&D total, by subfield: FY 2011
(Dollars in thousands)

Rank	Institution	Total					Federally financed				
		All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec	All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec
194	MO U. of Science and Technology	3,145	0	2,513	632	0	2,948	0	2,336	612	0
195	U. CA, Merced	3,119	0	1,489	1,630	0	1,452	0	835	617	0
196	U. NC, Charlotte	3,108	0	603	2,505	0	1,694	0	397	1,297	0
197	Baylor U.	3,051	0	1,318	1,733	0	1,124	0	469	655	0
198	U. Memphis	3,020	0	1,926	1,094	0	1,839	0	984	855	0
199	SUNY, U. Albany	2,982	0	2,611	371	0	2,367	0	2,119	248	0
200	NC Agricultural and Technical State U.	2,927	0	321	2,606	0	2,695	0	240	2,455	0
201	FL Institute of Technology	2,843	0	773	2,070	0	2,691	0	756	1,935	0
202	U. Louisville	2,836	243	2,094	499	0	1,677	152	1,228	297	0
203	U.S. Naval Academy	2,783	0	1,785	998	0	2,650	0	1,737	913	0
204	Clarkson U.	2,771	0	2,579	192	0	1,150	0	994	156	0
205	SD State U.	2,752	0	2,717	35	0	1,729	0	1,725	4	0
206	DE State U.	2,710	283	359	2,068	0	2,477	283	216	1,978	0
207	Tulane U.	2,698	0	1,386	1,312	0	2,302	0	1,233	1,069	0
208	U. NH	2,681	0	1,859	822	0	2,259	0	1,528	731	0
209	American U.	2,665	1,600	865	200	0	1,744	1,319	404	21	0
210	LA Tech U.	2,665	0	1,308	1,357	0	1,317	0	542	775	0
211	U. MA, Dartmouth	2,622	0	1,715	907	0	1,279	0	739	540	0
212	Clafin U.	2,579	0	2,579	0	0	2,530	0	2,530	0	0
213	Marquette U.	2,571	0	2,379	192	0	1,872	0	1,757	115	0
214	U. Miami	2,534	0	980	1,554	0	2,311	0	838	1,473	0
215	U. MO, Kansas City	2,517	0	921	1,596	0	1,995	0	660	1,335	0
216	U. MT	2,500	0	2,500	0	0	2,218	0	2,218	0	0
217	CA State U., Northridge	2,492	0	459	2,033	0	2,417	0	459	1,958	0
218	San Jose State U.	2,491	0	1,406	966	119	1,822	0	927	895	0
219	CA State U., Los Angeles	2,441	0	1,922	519	0	2,406	0	1,887	519	0
220	U. NC, Greensboro	2,422	0	1,873	330	219	1,968	0	1,429	320	219
221	U. VT	2,381	0	1,748	633	0	1,773	0	1,281	492	0
222	Drew U.	2,365	0	979	1,386	0	2,067	0	803	1,264	0
223	TX State U., San Marcos	2,293	0	1,791	377	125	1,091	0	849	242	0
224	Hope C.	2,265	83	1,665	508	9	1,302	83	749	470	0
225	Northern IL U.	2,250	0	26	2,224	0	2,122	0	0	2,122	0
226	San Francisco State U.	2,219	723	1,003	493	0	1,634	611	662	361	0
227	Rutgers, State U. NJ, Newark	2,164	0	1,511	640	13	1,575	0	1,129	433	13
228	Elizabeth City State U.	2,096	0	1,849	0	247	2,093	0	1,849	0	244
229	Grambling State U.	2,085	0	991	157	937	2,085	0	991	157	937
230	AR State U., Jonesboro	2,033	0	139	1,854	40	1,992	0	130	1,840	22
231	CUNY, Brooklyn C.	1,991	0	1,543	448	0	1,767	0	1,441	326	0
232	Amherst C.	1,922	3	1,170	749	0	1,412	0	725	687	0

TABLE 26. Total and federally financed higher education R&D expenditures in the physical sciences, ranked by physical sciences R&D total, by subfield: FY 2011
(Dollars in thousands)

Rank	Institution	Total					Federally financed				
		All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec	All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec
233	St. Louis U.	1,844	0	1,672	172	0	1,485	0	1,315	170	0
234	U. PR, Humacao	1,831	0	1,106	725	0	1,831	0	1,106	725	0
235	U. LA, Lafayette	1,739	0	385	1,354	0	624	0	7	617	0
236	CA State U., Fullerton	1,726	41	1,130	555	0	996	38	491	467	0
237	Southern IL U., Edwardsville	1,679	229	732	593	125	401	42	159	165	35
238	CUNY, Queens C.	1,661	0	1,324	337	0	1,369	0	1,154	215	0
239	Western WA U.	1,625	204	1,421	0	0	584	96	488	0	0
240	U. MN, Duluth	1,620	0	1,346	274	0	883	0	660	223	0
241	SUNY, C. Geneseo	1,605	0	938	667	0	1,021	0	500	521	0
242	U. ND	1,598	0	1,380	218	0	1,232	0	1,054	178	0
243	Southern U. and A&M C., Baton Rouge	1,532 i	0 i	614 i	918 i	0 i	1,481 i	0 i	614 i	867 i	0 i
244	Furman U.	1,514	0	1,442	72	0	751	0	680	71	0
245	Clark U.	1,497	0	808	689	0	990	0	442	548	0
246	U. MA, Boston	1,440	0	879	561	0	1,136	0	638	498	0
247	Worcester Polytechnic Institute	1,437	0	1,046	391	0	1,030	0	831	199	0
248	CUNY, C. Staten Island	1,416	93	1,039	284	0	984	6	694	284	0
249	IL State U.	1,395	0	1,196	199	0	846	0	771	75	0
250	C. Charleston	1,384	167	957	260	0	634	167	276	191	0
251	East Carolina U.	1,336	0	208	1,128	0	1,182	0	79	1,103	0
252	Polytechnic Institute of NY U.	1,317	0	0	1,317	0	934	0	0	934	0
253	U. Tulsa	1,317	0	911	406	0	874	0	590	284	0
254	SD School of Mines and Technology	1,312	0	1,174	138	0	1,253	0	1,115	138	0
255	IN U.-Purdue U., Indianapolis	1,306	0	1,007	299	0	755	0	720	35	0
256	Cheyney U. PA	1,297	0	0	0	1,297	975	0	0	0	975
257	U. South AL	1,297	0	1,167	130	0	911	0	785	126	0
258	Northern AZ U.	1,282	545	600	137	0	1,160	519	561	80	0
259	Franklin and Marshall C.	1,275	197	937	141	0	711	197	514	0	0
260	Allen U.	1,270 i	111 i	637 i	468 i	54 i	1,270 i	111 i	637 i	468 i	54 i
261	U. WI, Stevens Point	1,254 i	0 i	81 i	97 i	1,076 i	1,122 i	0 i	3 i	84 i	1,035 i
262	Skidmore C.	1,240	0	79	14	1,147	1,067	0	42	4	1,021
263	Wichita State U.	1,234	0	1,216	18	0	772	0	772	0	0
264	Siena C.	1,221	0	131	1,090	0	1,199	0	110	1,089	0
265	U. Richmond	1,214	0	715	499	0	928	0	471	457	0
266	Norfolk State U.	1,202	0	436	766	0	871	0	413	458	0
267	CA Polytechnic State U., San Luis Obispo	1,201	0	424	622	155	753	0	139	506	108
268	Central MI U.	1,199	0	732	467	0	682	0	271	411	0
269	Hampshire C.	1,174	16	0	0	1,158	673	16	0	0	657
270	Boise State U.	1,114	0	347	767	0	965	0	265	700	0
271	Bryn Mawr C.	1,097	0	713	384	0	315	0	207	108	0

TABLE 26. Total and federally financed higher education R&D expenditures in the physical sciences, ranked by physical sciences R&D total, by subfield: FY 2011
(Dollars in thousands)

Rank	Institution	Total					Federally financed				
		All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec	All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec
272	U. WI, La Crosse	1,096 i	0 i	1,015 i	81 i	0 i	873 i	0 i	811 i	62 i	0 i
273	TN State U.	1,073	841	11	110	111	639	413	11	104	111
274	CT C.	1,072	0	829	243	0	604	0	467	137	0
275	Chicago State U.	1,069	0	1,069	0	0	1,069	0	1,069	0	0
276	Haverford C.	1,065 i	222 i	578 i	265 i	0 i	553	142	183	228	0
277	Prairie View A&M U.	1,062	355	361	346	0	912	355	300	257	0
278	NC Central U.	1,040	0	0	1,000	40	1,040	0	0	1,000	40
279	CA State U., Long Beach	1,036 i	0 i	884 i	152 i	0 i	875 i	0 i	744 i	131 i	0 i
280	CUNY, York C.	1,034	0	827	207	0	600	0	597	3	0
281	St. Edward's U.	1,031	0	0	0	1,031	1,024	0	0	0	1,024
282	Chapman U.	1,025	0	311	714	0	733	0	278	455	0
283	Williams C.	1,018	264	553	201	0	759	149	452	158	0
284	Mt. Holyoke C.	1,013	0	774	6	233	815	0	603	0	212
285	U.S. Military Academy	1,011	0	127	884	0	1,011	0	127	884	0
286	U. NC, Pembroke	998	4	994	0	0	621	4	617	0	0
287	Barnard C.	969	0	403	566	0	927	0	375	552	0
288	Carleton C.	953	105	320	528	0	594	92	96	406	0
289	NM Highlands U.	953	0	953	0	0	880	0	880	0	0
290	Augsburg C.	948	0	139	697	112	905	0	96	697	112
291	Stevens Institute of Technology	947	0	91	856	0	796	0	77	719	0
292	Haskell Indian Nations U.	941 i	0 i	342 i	599 i	0 i	941 i	0 i	342 i	599 i	0 i
293	TX Southern U.	936	0	566	370	0	881	0	561	320	0
294	U. Northern IA	926	0	831	95	0	613	0	613	0	0
295	St. John's U., New York City	908	0	828	80	0	409	0	329	80	0
296	Cleveland State U.	898	0	782	116	0	642	0	583	59	0
297	GA Southern U.	884	53	477	114	240	528	53	196	39	240
298	Creighton U.	878	0	366	512	0	757	0	343	414	0
299	James Madison U.	874	29	536	309	0	750	25	440	285	0
300	Marshall U.	869	0	99	210	560	629	0	0	160	469
301	Austin Peay State U.	867	0	12	444	411	579	0	0	440	139
302	CUNY, Medgar Evers C.	863	0	213	650	0	536	0	148	388	0
303	Pomona C.	856	305	421	130	0	405	243	143	19	0
304	Roseman U. of Health Sciences	840	0	840	0	0	0	0	0	0	0
305	U. North FL	833	0	6	827	0	770	0	0	770	0
306	U. of the Sciences Philadelphia	828	0	828	0	0	567	0	567	0	0
307	Macalester C.	821	46	463	312	0	498	9	249	240	0
308	TX A&M U., Commerce	812	3	431	378	0	653	0	356	297	0
309	DePaul U.	802	0	177	625	0	584	0	130	454	0
310	Wellesley C.	774	240	323	211	0	718	238	269	211	0

TABLE 26. Total and federally financed higher education R&D expenditures in the physical sciences, ranked by physical sciences R&D total, by subfield: FY 2011
(Dollars in thousands)

Rank	Institution	Total					Federally financed				
		All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec	All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec
311	Southern CT State U.	772 i	0 i	0 i	772 i	0 i	772	0	0	772	0
312	U. TX, Pan American	768	0	356	359	53	547	0	206	340	1
313	Christopher Newport U.	761	0	0	761	0	761	0	0	761	0
314	U. Houston, Downtown	759	0	54	0	705	705	0	0	0	705
315	Sewanee: U. of the South	728	0	718	10	0	487	0	487	0	0
316	Villanova U.	719 i	412 i	243 i	64 i	0 i	496 i	284 i	168 i	44 i	0 i
317	Calvin C.	715	0	582	133	0	362	0	321	41	0
318	MO State U.	711	124	389	46	152	664	124	349	39	152
319	Trinity U.	707	0	666	41	0	511	0	470	41	0
320	Rowan U.	699	0	167	532	0	573	0	53	520	0
321	Spelman C.	678	0	570	108	0	678	0	570	108	0
322	Bucknell U.	676	0	495	181	0	452	0	330	122	0
323	Albany State U.	673	8	665	0	0	664	8	656	0	0
324	Rose-Hulman Institute of Technology	667	0	248	419	0	597	0	195	402	0
325	U. NC, Wilmington	664	0	570	94	0	414	0	341	73	0
326	Oberlin C.	660	0	411	249	0	563	0	335	228	0
327	Winthrop U.	658	0	658	0	0	394	0	394	0	0
328	CA State U., Fresno	650	0	194	456	0	593	0	137	456	0
329	Harvey Mudd C.	649	0	289	360	0	538	0	236	302	0
330	U. WI, Eau Claire	644	0	640	0	4	341	0	341	0	0
331	U. CO, Colorado Springs	640	0	58	467	115	523	0	9	402	112
332	U. CO, Denver and Anschutz Medical Campus	634	237	199	198	0	632	237	197	198	0
333	Valparaiso U.	633	286	6	341	0	302	107	0	195	0
334	Swarthmore C.	629	87	197	345	0	452	78	85	289	0
335	Loyola U., Chicago	626	0	620	6	0	521	0	521	0	0
336	Dillard U.	616 i	0 i	504 i	112 i	0 i	104 i	0 i	90 i	14 i	0 i
337	Morehouse C.	590 i	0 i	421 i	150 i	19 i	590 i	0 i	421 i	150 i	19 i
338	Colby C.	589	0	511	78	0	470	0	421	49	0
339	Colgate U.	584	77	287	220	0	378	37	234	107	0
340	Doane C.	584	0	582	2	0	574	0	572	2	0
341	Appalachian State U.	582	99	483	0	0	472	66	406	0	0
342	Bates C.	582	0	275	307	0	420	0	185	235	0
343	Middle TN State U.	574	0	419	64	91	335	0	274	61	0
344	Occidental C.	573	0	135	438	0	486	0	104	382	0
345	Fairfield U.	561	0	196	209	156	250	0	0	94	156
346	U. West FL	546	0	546	0	0	421	0	421	0	0
347	Northern KY U.	543	0	371	172	0	365	0	217	148	0
348	Seton Hall U.	537	0	479	58	0	59	0	51	8	0
349	TX Christian U.	535	0	427	108	0	291	0	203	88	0

TABLE 26. Total and federally financed higher education R&D expenditures in the physical sciences, ranked by physical sciences R&D total, by subfield: FY 2011
(Dollars in thousands)

Rank	Institution	Total					Federally financed				
		All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec	All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec
350	CA State U., East Bay	532	0	11	521	0	523	0	2	521	0
351	Pace U.	519	0	493	26	0	26	0	0	26	0
352	Morgan State U.	513	0	225	288	0	513	0	225	288	0
353	U. NE, Kearney	512	0	468	44	0	320	0	303	17	0
354	SUNY, Purchase C.	506	0	75	16	415	38	0	38	0	0
355	New C. FL	505	0	56	449	0	473	0	27	446	0
356	Vassar C.	505	10	461	34	0	505	10	461	34	0
357	Wheaton C., Wheaton	490	0	321	169	0	383	0	232	151	0
358	Hamilton C.	489	0	324	165	0	249	0	173	76	0
359	Smith C.	483	26	411	46	0	353	23	292	38	0
360	CA Lutheran U.	471	0	171	0	300	171	0	171	0	0
361	Abilene Christian U.	468	0	461	7	0	421	0	421	0	0
362	Loyola Marymount U.	466	0	198	268	0	163	0	102	61	0
363	Reed C.	465	0	353	112	0	27	0	27	0	0
364	IN U., South Bend	454	0	10	444	0	352	0	0	352	0
365	Middlebury C.	454	94	252	108	0	454	94	252	108	0
366	Sam Houston State U.	450	0	379	71	0	405	0	379	26	0
367	Morehead State U.	448	433	0	10	5	361	352	0	9	0
368	C. of the Holy Cross	443	0	432	11	0	346	0	346	0	0
369	Whitman C.	440	56	264	120	0	255	56	79	120	0
370	U. DC	438	0	413	25	0	328	0	328	0	0
371	East TN State U.	435	77	40	318	0	299	0	0	299	0
372	TX A&M U., Kingsville	434	0	204	226	4	209	0	68	141	0
373	U. Northern CO	432	0	392	40	0	396	0	375	21	0
374	Hobart and William Smith Colleges	413	0	261	68	84	387	0	248	68	71
375	U. TX, Permian Basin	410	0	73	337	0	149	0	0	149	0
376	St. Olaf C.	404	0	121	283	0	327	0	61	266	0
377	Ithaca C.	402	0	80	322	0	236	0	0	236	0
378	Willamette U.	402	0	305	97	0	67	0	61	6	0
379	Union C., Schenectady	397	0	263	134	0	315	0	202	113	0
380	Weber State U.	393	0	295	98	0	175	0	98	77	0
381	Hendrix C.	387	0	387	0	0	334	0	334	0	0
382	U. Detroit Mercy	384	0	382	2	0	293	0	293	0	0
383	U. West GA	379	0	324	55	0	183	0	171	12	0
384	Saginaw Valley State U.	377	0	377	0	0	325	0	325	0	0
385	Shaw U.	377	0	0	0	377	377	0	0	0	377
386	Yeshiva U.	377	0	0	377	0	377	0	0	377	0
387	Lewis and Clark C.	376	22	320	34	0	177	0	156	21	0
388	Southeastern OK State U.	372	0	372	0	0	341	0	341	0	0

TABLE 26. Total and federally financed higher education R&D expenditures in the physical sciences, ranked by physical sciences R&D total, by subfield: FY 2011
(Dollars in thousands)

Rank	Institution	Total					Federally financed				
		All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec	All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec
389	SC State U.	370 i	0 i	0 i	0 i	370 i	369 i	0 i	0 i	0 i	369 i
390	National U.	369 i	7 i	244 i	89 i	29 i	126 i	2 i	67 i	43 i	14 i
391	U. of the Pacific	365	0	247	118	0	319	0	201	118	0
392	Grinnell C.	363	0	333	30	0	123	0	123	0	0
393	U. NC, Asheville	362	9	45	4	304	299	9	37	0	253
394	U. Portland	357	0	56	301	0	0	0	0	0	0
395	CUNY, John Jay C. of Criminal Justice	353	0	35	0	318	322	0	24	0	298
396	Augustana C., Sioux Falls	347	0	259	88	0	334	0	259	75	0
397	U. San Diego	347	0	289	57	1	238	0	192	46	0
398	U. Central AR	342	0	321	21	0	304	0	286	18	0
399	Muhlenberg C.	337	0	252	85	0	95	0	15	80	0
400	U. Redlands	337	84	253	0	0	84	84	0	0	0
401	CA Maritime Academy	330 i	0 i	114 i	216 i	0 i	0	0	0	0	0
402	Central WA U.	330	0	288	42	0	244	0	219	25	0
403	Jacksonville State U.	330	0	330	0	0	248	0	248	0	0
404	SUNY, C. Potsdam	330	0	330	0	0	323	0	323	0	0
405	Niagara U.	329	0	329	0	0	0	0	0	0	0
406	U. AR, Pine Bluff	328	0	328	0	0	259	0	259	0	0
407	Southwestern U.	326	0	313	13	0	189	0	189	0	0
408	Eastern WA U.	320	0	320	0	0	265	0	265	0	0
409	Southeastern LA U.	320	0	67	253	0	83	0	23	60	0
410	Allegheny C.	319	0	96	223	0	186	0	86	100	0
411	MT Tech of U. MT	319	0	319	0	0	319	0	319	0	0
412	Grand Valley State U.	317 i	101 i	154 i	59 i	3 i	137 i	0 i	85 i	52 i	0 i
413	U. NE, Omaha	317	0	180	136	1	227	0	154	73	0
414	U. Houston, Clear Lake	311	0	281	30	0	245	0	245	0	0
415	Seattle U.	310	0	150	160	0	155	0	61	94	0
416	Benedict C.	307	0	307	0	0	307	0	307	0	0
417	Benedictine U.	306	0	292	14	0	24	0	24	0	0
418	Western IL U.	303	0	303	0	0	198	0	198	0	0
419	U. TN, Chattanooga	299	0	296	3	0	287	0	287	0	0
420	Ft. Valley State U.	297	0	297	0	0	167	0	167	0	0
421	CUNY, Lehman C.	295	0	103	192	0	145	0	0	145	0
422	C. Wooster	295	0	235	60	0	126	0	105	21	0
423	Santa Clara U.	294	0	182	112	0	253	0	154	99	0
424	Purdue U., Calumet	288	0	288	0	0	138	0	138	0	0
425	Western Carolina U.	288	0	288	0	0	12	0	12	0	0
426	Tuskegee U.	284	0	135	149	0	219	0	114	105	0
427	Keene State C.	282	0	282	0	0	282	0	282	0	0

TABLE 26. Total and federally financed higher education R&D expenditures in the physical sciences, ranked by physical sciences R&D total, by subfield: FY 2011
(Dollars in thousands)

Rank	Institution	Total					Federally financed				
		All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec	All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec
428	Ball State U.	279	0	162	117	0	155	0	75	80	0
429	Kalamazoo C.	279	0	220	59	0	187	0	187	0	0
430	St. Mary's C. MD	279	0	27	252	0	230	0	23	207	0
431	Ursinus C.	278	0	181	97	0	158	0	61	97	0
432	U. Southern ME	274	0	274	0	0	240	0	240	0	0
433	CUNY, Graduate Ctr.	273	0	0	273	0	273	0	0	273	0
434	Bridgewater State C.	272	0	0	116	156	254	0	0	116	138
435	U. MI, Dearborn	269	0	0	0	269	98	0	0	0	98
436	Elizabethtown C.	266	0	266	0	0	266	0	266	0	0
437	LA State U., Shreveport	266	0	266	0	0	173	0	173	0	0
438	Lincoln U., Jefferson City	264	0	65	199	0	264	0	65	199	0
439	Albion C.	263	41	113	99	10	107	23	0	84	0
440	Embry-Riddle Aeronautical U.	260	17	0	12	231	201	0	0	0	201
441	Juniata C.	260	0	181	79	0	18	0	0	18	0
442	Black Hills State U.	259	0	161	98	0	244	0	161	83	0
443	Armstrong Atlantic State U.	254 i	0 i	254 i	0 i	0 i	254 i	0 i	254 i	0 i	0 i
444	La Sierra U.	250	0	242	8	0	17	0	17	0	0
445	Southwestern OK State U.	250	0	248	2	0	228	0	227	1	0
446	Towson U.	249	0	136	113	0	130	0	41	89	0
447	FL Gulf Coast U.	244	40	204	0	0	235	36	199	0	0
448	IL Wesleyan U.	241	6	92	143	0	66	0	17	49	0
449	U. WI, River Falls	238 i	0 i	12 i	226 i	0 i	135 i	0 i	0 i	135 i	0 i
450	Luther C.	236	0	153	83	0	78	0	0	78	0
451	Wheeling Jesuit U.	236	27	209	0	0	27	27	0	0	0
452	U. WI, Platteville	234 i	0 i	234 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
453	Eastern OR U.	230	0	230	0	0	146	0	146	0	0
454	CA State U., Bakersfield	229	0	29	200	0	152	0	0	152	0
455	St. John's U., Collegeville	225	0	175	50	0	0	0	0	0	0
456	Davidson C.	224	0	80	144	0	110	0	14	96	0
457	Washburn U.	224	138	86	0	0	223	138	85	0	0
458	Gustavus Adolphus C.	223	0	139	84	0	109	0	37	72	0
459	St. Michael's C.	223	47	176	0	0	167	43	124	0	0
460	CUNY, Baruch C.	222	0	13	209	0	195	0	0	195	0
461	Coe C.	220	0	29	191	0	166	0	3	163	0
462	TX A&M International U.	220	0	13	207	0	204	0	0	204	0
463	SUNY, C. Fredonia	213	0	109	104	0	213	0	109	104	0
464	East Central U.	212 i	8 i	106 i	62 i	36 i	187 i	7 i	91 i	56 i	33 i
465	TN Technological U.	211	0	78	133	0	177	0	58	119	0
466	OH Wesleyan U.	208	0	12	190	6	178	0	0	178	0

TABLE 26. Total and federally financed higher education R&D expenditures in the physical sciences, ranked by physical sciences R&D total, by subfield: FY 2011
(Dollars in thousands)

Rank	Institution	Total					Federally financed				
		All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec	All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec
467	Washington and Lee U.	208	0	4	204	0	4	0	4	0	0
468	TX A&M U., Corpus Christi	206	0	35	0	171	151	0	1	0	150
469	Bowdoin C.	201	74	93	34	0	124	59	31	34	0
470	CA State U., Sacramento	201	0	201	0	0	171	0	171	0	0
471	Dickinson C.	201	0	95	106	0	142	0	52	90	0
472	Bellarmine U.	200	0	0	200	0	200	0	0	200	0
473	Indiana U. PA	198	0	146	51	1	121	0	103	18	0
474	Sinte Gleska U.	197	0	173	0	24	197	0	173	0	24
475	Eastern IL U.	195	0	161	34	0	118	0	118	0	0
476	U. MN, Morris	195	0	153	42	0	135	0	93	42	0
477	WV Wesleyan C.	194	37	107	50	0	148	13	107	28	0
478	U. PR, Cayey	191	0	182	9	0	177	0	168	9	0
479	C. of St. Benedict	190	0	143	47	0	0	0	0	0	0
480	SUNY, C. Plattsburgh	190	0	0	190	0	116	0	0	116	0
481	CA State U., San Bernardino	185	51	123	11	0	80	48	31	1	0
482	Kennesaw State U.	184	0	184	0	0	134	0	134	0	0
483	Stephen F. Austin State U.	180	0	162	18	0	0	0	0	0	0
484	TX Woman's U.	179	0	179	0	0	53	0	53	0	0
485	Hofstra U.	176	16	0	160	0	172	12	0	160	0
486	Elon U.	170 i	27 i	106 i	28 i	9 i	24	24	0	0	0
487	CA State U., Channel Islands	169	0	153	3	13	162	0	149	0	13
488	William Paterson U.	169	0	63	106	0	99	0	0	99	0
489	Fayetteville State U.	168	0	0	0	168	10	0	0	0	10
490	Murray State U.	167	0	81	86	0	74	0	15	59	0
491	Drake U.	166	0	44	122	0	122	0	0	122	0
492	Central CT State U.	165	0	110	55	0	125	0	89	36	0
493	Central State U.	164	0	164	0	0	164	0	164	0	0
494	Lafayette C.	162	0	53	109	0	145	0	37	108	0
495	Northeastern State U.	162	0	155	7	0	122	0	122	0	0
496	U. WI, Oshkosh	162	115	46	1	0	118	115	3	0	0
497	SUNY, C. Old Westbury	161 i	0 i	161 i	0 i	0 i	88 i	0 i	88 i	0 i	0 i
498	Gonzaga U.	160	0	160	0	0	98	0	98	0	0
499	IN U., New Albany	159	0	0	0	159	6	0	0	0	6
500	Lamar U.	156	0	153	0	3	40	0	40	0	0
501	DePauw U.	155	2	114	39	0	57	0	37	20	0
502	Gettysburg C.	155	0	13	142	0	113	0	0	113	0
503	Adelphi U.	154	0	5	149	0	149	0	0	149	0
504	CA State U., Dominguez Hills	154	99	1	54	0	153	99	0	54	0
505	Coastal Carolina U.	153	0	153	0	0	153	0	153	0	0

TABLE 26. Total and federally financed higher education R&D expenditures in the physical sciences, ranked by physical sciences R&D total, by subfield: FY 2011
(Dollars in thousands)

Rank	Institution	Total					Federally financed				
		All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec	All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec
506	Eastern MI U.	153	37	116	0	0	105	37	68	0	0
507	RI C.	151	0	151	0	0	143	0	143	0	0
508	Augustana C., Rock Island	145	0	110	35	0	61	0	48	13	0
509	CA State Polytechnic U., Pomona	145	137	8	0	0	145	137	8	0	0
510	U. WI, Parkside	142	0	142	0	0	133	0	133	0	0
511	Heidelberg U.	141 i	2 i	82 i	43 i	14 i	105 i	1 i	56 i	36 i	12 i
512	Long Island U.	141 i	0 i	141 i	0 i	0 i	135 i	0 i	135 i	0 i	0 i
513	Norwich U.	141 i	1 i	127 i	10 i	3 i	90	0	90	0	0
514	Philander Smith C.	141 i	12 i	71 i	52 i	6 i	139 i	12 i	70 i	51 i	6 i
515	Ft. Lewis C.	140	0	98	42	0	130	0	98	32	0
516	Susquehanna U.	139	0	138	1	0	134	0	134	0	0
517	U. HI, West O'ahu	134 i	0 i	48 i	86 i	0 i	114 i	0 i	41 i	73 i	0 i
518	Emporia State U.	133	0	0	0	133	100	0	0	0	100
519	Angelo State U.	132	18	48	66	0	66	0	0	66	0
520	Loyola U., MD	132	0	132	0	0	116	0	116	0	0
521	Wabash C.	132	0	109	23	0	103	0	80	23	0
522	C. of Menominee Nation	130 i	11 i	66 i	48 i	5 i	128 i	11 i	65 i	47 i	5 i
523	IN State U.	130	0	108	22	0	130	0	108	22	0
524	Pacific Lutheran U.	129	0	125	0	4	61	0	61	0	0
525	Rollins C.	128	15	22	91	0	51	0	0	51	0
526	Taylor U.	127	15	0	112	0	127	15	0	112	0
527	SUNY, Buffalo State C.	125	0	0	125	0	125	0	0	125	0
528	Agnes Scott C.	124	0	49	75	0	124	0	49	75	0
529	Trinity C., Hartford	124	0	82	42	0	74	0	41	33	0
530	MN State U., Mankato	122	0	122	0	0	75	0	75	0	0
531	Scripps C.	121	0	45	20	56	0	0	0	0	0
532	Claremont McKenna C.	120	0	120	0	0	113	0	113	0	0
533	McNeese State U.	119	0	102	17	0	8	0	8	0	0
534	Salve Regina U.	118	0	118	0	0	118	0	118	0	0
535	Iona C.	117	0	73	44	0	117	0	73	44	0
536	Franklin W. Olin C. of Engineering	116	27	75	14	0	102	27	70	5	0
537	CO C.	115	0	103	12	0	60	0	60	0	0
538	PA State U., Berks	115	0	0	115	0	111	0	0	111	0
539	CA State U., Stanislaus	113 i	16 i	44 i	49 i	4 i	89 i	12 i	34 i	40 i	3 i
540	Centre C.	113	3	87	23	0	36	3	22	11	0
541	Ramapo C. NJ	112	0	0	112	0	68	0	0	68	0
542	VA Military Institute	112	0	106	6	0	91	0	91	0	0
543	Barnes-Jewish C. Goldfarb School of Nursing	111 i	9 i	38 i	51 i	13 i	77 i	7 i	22 i	39 i	9 i
544	C. NJ	110	0	69	41	0	0	0	0	0	0

TABLE 26. Total and federally financed higher education R&D expenditures in the physical sciences, ranked by physical sciences R&D total, by subfield: FY 2011
(Dollars in thousands)

Rank	Institution	Total					Federally financed				
		All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec	All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec
545	Sweet Briar C.	110	1	109	0	0	81	0	81	0	0
546	Truman State U.	110	22	77	11	0	74	8	66	0	0
547	Azusa Pacific U.	109 i	6 i	52 i	37 i	14 i	0	0	0	0	0
548	Dine C.	108 i	0 i	39 i	69 i	0 i	108 i	0 i	39 i	69 i	0 i
549	U. Dayton	105	0	83	22	0	68	0	46	22	0
550	Wittenberg U.	105	0	0	85	20	85	0	0	85	0
551	Millsaps C.	103	0	103	0	0	44	0	44	0	0
552	St. Cloud State U.	102	0	35	67	0	58	0	0	58	0
553	Bradley U.	101	0	96	5	0	7	0	7	0	0
554	Citadel Military C. SC	100	0	33	67	0	56	0	6	50	0
555	Loyola U., New Orleans	100	0	62	38	0	4	0	4	0	0
556	Rhodes C.	100	0	0	100	0	100	0	0	100	0
557	Mercer U.	97	0	97	0	0	0	0	0	0	0
558	U. Dallas	97	5	52	40	0	40	0	0	40	0
559	CUNY, New York City C. of Technology	96	0	10	86	0	73	0	3	70	0
560	Jacksonville U.	93	0	93	0	0	0	0	0	0	0
561	Alfred U.	91	5	86	0	0	91	5	86	0	0
562	Goucher C.	89	0	55	34	0	89	0	55	34	0
563	CO State U., Pueblo	88	0	74	14	0	79	0	65	14	0
564	Kutztown U. PA	87	0	0	51	36	51	0	0	51	0
565	Northwestern State U. LA	87	0	87	0	0	40	0	40	0	0
566	Pittsburg State U.	87	0	19	68	0	87	0	19	68	0
567	Earlham C.	85	0	85	0	0	0	0	0	0	0
568	Eastern KY U.	84	0	60	5	19	25	0	16	1	8
569	U. St. Thomas (MN)	84	0	14	70	0	40	0	0	40	0
570	Wheaton C., Norton	83	83	0	0	0	83	83	0	0	0
571	U. AK, Anchorage	82	5	77	0	0	57	4	53	0	0
572	St. Bonaventure U.	81	0	69	12	0	81	0	69	12	0
573	Berea C.	80	0	18	62	0	50	0	0	50	0
574	Jarvis Christian C.	80	0	80	0	0	70	0	70	0	0
575	PA State U., Altoona	80	0	40	40	0	25	0	12	13	0
576	PA State U., Erie	80	0	40	40	0	0	0	0	0	0
577	Bryant U.	76	0	73	0	3	35	0	35	0	0
578	Kenyon C.	75	0	0	16	59	0	0	0	0	0
579	Roanoke C.	75	0	74	1	0	11	0	11	0	0
580	U. Scranton	75	0	41	34	0	38	0	15	23	0
581	Wilkes U.	74	0	74	0	0	34	0	34	0	0
582	Concordia C.	73	0	28	45	0	40	0	0	40	0
583	Sonoma State U.	73	40	15	18	0	45	33	0	12	0

TABLE 26. Total and federally financed higher education R&D expenditures in the physical sciences, ranked by physical sciences R&D total, by subfield: FY 2011
(Dollars in thousands)

Rank	Institution	Total					Federally financed				
		All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec	All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec
584	Southeast MO State U.	72	0	22	50	0	21	0	21	0	0
585	Lawrence U.	71	0	0	71	0	71	0	0	71	0
586	U. Central MO	71	0	71	0	0	65	0	65	0	0
587	MS Valley State U.	70	0	0	0	70	22	0	0	0	22
588	MN State U., Moorhead	69 i	11 i	27 i	29 i	2 i	44 i	6 i	17 i	20 i	1 i
589	SUNY, C. Brockport	69	0	54	15	0	57	0	42	15	0
590	Bloomsburg U. PA	68	68	0	0	0	68	68	0	0	0
591	Seattle Pacific U.	68	0	67	1	0	44	0	44	0	0
592	U. North AL	68 i	2 i	34 i	21 i	11 i	65 i	2 i	32 i	20 i	11 i
593	Northwest MO State U.	67	0	39	28	0	67	0	39	28	0
594	U. New England	67	0	67	0	0	67	0	67	0	0
595	Mercyhurst C.	66	0	52	14	0	0	0	0	0	0
596	U. Puget Sound	65	0	65	0	0	45	0	45	0	0
597	Salisbury U.	60	0	35	25	0	0	0	0	0	0
598	U. TX, Tyler	60	0	60	0	0	0	0	0	0	0
599	Coker C.	59	0	59	0	0	0	0	0	0	0
600	Milwaukee School of Engineering	59	0	0	59	0	56	0	0	56	0
601	Washington and Jefferson C.	58	0	58	0	0	58	0	58	0	0
602	OH Northern U.	57	0	57	0	0	15	0	15	0	0
603	SUNY, New Paltz	57	0	57	0	0	22	0	22	0	0
604	Tarleton State U.	56	0	42	10	4	0	0	0	0	0
605	U. HI, Hilo	56	40	16	0	0	40	40	0	0	0
606	Carthage C.	55	5	0	12	38	22	0	0	12	10
607	Capitol C.	54 i	5 i	16 i	27 i	6 i	54 i	5 i	16 i	27 i	6 i
608	Northwest Nazarene U.	54	0	24	30	0	34	0	18	16	0
609	Oglala Lakota C.	54 i	0 i	20 i	34 i	0 i	54 i	0 i	20 i	34 i	0 i
610	Butler U.	53 i	1 i	42 i	8 i	2 i	12	0	12	0	0
611	Lake Forest C.	51	0	42	9	0	0	0	0	0	0
612	Suffolk U.	51	0	0	51	0	12	0	0	12	0
613	IN U., Gary	49	0	49	0	0	0	0	0	0	0
614	Montclair State U.	49	0	49	0	0	0	0	0	0	0
615	IN U.-Purdue U., Ft. Wayne	46	0	31	15	0	34	0	30	4	0
616	Kettering U.	46	0	1	45	0	30	0	0	30	0
617	Christian Brothers U.	45 i	1 i	24 i	15 i	5 i	45 i	1 i	24 i	15 i	5 i
618	Ashland U.	44 i	4 i	12 i	22 i	6 i	43 i	4 i	12 i	22 i	5 i
619	Canisius C.	44	0	27	17	0	27	0	27	0	0
620	North Central C.	44	0	44	0	0	0	0	0	0	0
621	SUNY, C. Oswego	44	44	0	0	0	44	44	0	0	0
622	U. LA, Monroe	44	0	44	0	0	3	0	3	0	0

TABLE 26. Total and federally financed higher education R&D expenditures in the physical sciences, ranked by physical sciences R&D total, by subfield: FY 2011
(Dollars in thousands)

Rank	Institution	Total					Federally financed				
		All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec	All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec
623	ME Maritime Academy	43 i	1 i	21 i	13 i	8 i	37 i	1 i	18 i	11 i	7 i
624	Valdosta State U.	43	0	39	4	0	28	0	28	0	0
625	CA State U., Chico	42	0	42	0	0	0	0	0	0	0
626	Shepherd U.	42	0	42	0	0	29	0	29	0	0
627	Purdue U., North Central	41	0	27	14	0	22	0	22	0	0
628	Pacific U.	40	0	40	0	0	0	0	0	0	0
629	U. MI, Flint	40	0	32	0	8	0	0	0	0	0
630	Alderson-Broadbudd C.	39 i	1 i	21 i	13 i	4 i	38 i	1 i	20 i	13 i	4 i
631	Eastern NM U., Portales	39	0	39	0	0	39	0	39	0	0
632	Evergreen State C.	39	39	0	0	0	39	39	0	0	0
633	LeTourneau U.	38	0	38	0	0	0	0	0	0	0
634	Gallaudet U.	35	0	34	1	0	1	0	0	1	0
635	U.S. Coast Guard Academy	35	0	0	35	0	35	0	0	35	0
636	U. WI, Whitewater	34 i	21 i	0 i	13 i	0 i	33 i	20 i	0 i	13 i	0 i
637	Linfield C.	33 i	1 i	23 i	7 i	2 i	5 i	0 i	3 i	2 i	0 i
638	Sul Ross State U.	33	0	33	0	0	0	0	0	0	0
639	Edison State C.	30 i	0 i	11 i	19 i	0 i	30 i	0 i	11 i	19 i	0 i
640	St. Catherine U.	29	0	3	26	0	26	0	0	26	0
641	Southern AR U.	28	0	8	19	1	12	0	0	12	0
642	Wilberforce U.	28 i	0 i	28 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
643	CA State U., San Marcos	27 i	0 i	0 i	27 i	0 i	0 i	0 i	0 i	0 i	0 i
644	U. WI, Stout	25 i	0 i	23 i	2 i	0 i	4 i	0 i	4 i	0 i	0 i
645	Austin C.	24 i	0 i	16 i	5 i	3 i	6 i	0 i	3 i	2 i	1 i
646	Roger Williams U.	24	0	24	0	0	24	0	24	0	0
647	U. of the Incarnate Word	24	0	24	0	0	0	0	0	0	0
648	Millersville U. PA	23	0	23	0	0	0	0	0	0	0
649	SUNY, C. Oneonta	23	0	0	23	0	23	0	0	23	0
650	Lycoming C.	21	0	21	0	0	0	0	0	0	0
651	Nicholls State U.	21	0	8	13	0	13	0	0	13	0
652	U. South FL, Polytechnic	21	0	21	0	0	0	0	0	0	0
653	West TX A&M U.	20	0	16	0	4	0	0	0	0	0
654	U. Central OK	19	0	19	0	0	0	0	0	0	0
655	Valley City State U.	19 i	1 i	10 i	5 i	3 i	16 i	1 i	8 i	4 i	3 i
656	Arcadia U.	18	0	18	0	0	0	0	0	0	0
657	CA State U., Monterey Bay	18	0	0	0	18	18	0	0	0	18
658	Barry U.	17	0	17	0	0	2	0	2	0	0
659	SUNY, C. Cortland	17	0	17	0	0	0	0	0	0	0
660	U. MD, Eastern Shore	17	0	17	0	0	10	0	10	0	0
661	Winona State U.	17	0	17	0	0	11	0	11	0	0

TABLE 26. Total and federally financed higher education R&D expenditures in the physical sciences, ranked by physical sciences R&D total, by subfield: FY 2011
(Dollars in thousands)

Rank	Institution	Total					Federally financed				
		All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec	All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec
662	Andrews U.	16	0	11	5	0	10	0	5	5	0
663	John Carroll U.	16	0	0	16	0	16	0	0	16	0
664	Ouachita Baptist U.	16	0	16	0	0	16	0	16	0	0
665	Richard Stockton C. NJ	16	0	0	16	0	16	0	0	16	0
666	U. Southern IN	16	0	15	1	0	0	0	0	0	0
667	Fordham U.	15	0	8	7	0	0	0	0	0	0
668	Mesa State C.	15	0	4	0	11	13	0	4	0	9
669	PA State U., Harrisburg	15	0	8	7	0	0	0	0	0	0
670	Pepperdine U.	15 i	0 i	15 i	0 i	0 i	0	0	0	0	0
671	Wiley C.	15	0	15	0	0	0	0	0	0	0
672	Francis Marion U.	14	11	3	0	0	14	11	3	0	0
673	Northern MI U.	14	0	9	5	0	0	0	0	0	0
674	St. Joseph's U.	14	0	14	0	0	0	0	0	0	0
675	MS C.	13	0	13	0	0	13	0	13	0	0
676	Hamline U.	12	0	8	4	0	0	0	0	0	0
677	Monmouth U.	12	0	12	0	0	0	0	0	0	0
678	St. Joseph's C. ME	12 i	0 i	12 i	0 i	0 i	12 i	0 i	12 i	0 i	0 i
679	Mills C.	11	0	11	0	0	0	0	0	0	0
680	Gannon U.	10	0	5	5	0	0	0	0	0	0
681	Regis U.	9	0	9	0	0	0	0	0	0	0
682	Savannah State U.	9	0	9	0	0	4	0	4	0	0
683	U. IL, Springfield	9	9	0	0	0	9	9	0	0	0
684	MT State U., Billings	8	0	3	5	0	0	0	0	0	0
685	TX A&M Health Science Ctr.	8	0	8	0	0	8	0	8	0	0
686	PA State U., Beaver	7	0	7	0	0	0	0	0	0	0
687	Rutgers, State U. NJ, Camden	7	0	0	7	0	6	0	0	6	0
688	Messiah C.	6	0	6	0	0	0	0	0	0	0
689	Simmons C.	6	0	6	0	0	6	0	6	0	0
690	Concord U.	5	0	5	0	0	5	0	5	0	0
691	Marist C.	5	0	5	0	0	0	0	0	0	0
692	Salish Kootenai C.	5	5	0	0	0	5	5	0	0	0
693	Shippensburg U. PA	5	5	0	0	0	5	5	0	0	0
694	Unity C.	5	0	5	0	0	0	0	0	0	0
695	HI Pacific U.	4	0	4	0	0	4	0	4	0	0
696	NE Wesleyan U.	4 i	0 i	2 i	2 i	0 i	1	0	0	1	0
697	CA U. PA	2	0	2	0	0	0	0	0	0	0
698	KY State U.	2	0	0	0	2	0	0	0	0	0
699	Radford U.	2	0	2	0	0	0	0	0	0	0
700	Rider U.	2	0	2	0	0	2	0	2	0	0

TABLE 26. Total and federally financed higher education R&D expenditures in the physical sciences, ranked by physical sciences R&D total, by subfield: FY 2011
(Dollars in thousands)

Rank	Institution	Total					Federally financed				
		All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec	All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec
701	Harding U.	1	0	1	0	0	1	0	1	0	0
702	Lake Superior State U.	1	0	1	0	0	0	0	0	0	0
703	U. AK, Southeast	1	1	0	0	0	1	1	0	0	0

i = imputed.

nec = not elsewhere classified.

^a Johns Hopkins University includes Applied Physics Laboratory, with \$148,775 thousand in total and \$147,085 thousand in federally financed R&D expenditures in physical 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.