

TABLE 55. Federally financed R&D expenditures in the physical sciences at universities and colleges, ranked by all FY 2004 physical sciences for the first 100 institutions: FY 2001–04 and by subfield for FY 2004

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004				
					All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec
	All institutions	1,972,641	2,132,761	2,356,671	2,566,825	289,176	919,489	1,169,239	188,921
1	Johns Hopkins U., The ^a	109,309	114,292	133,643	146,179	73,522	11,028	54,547	7,082
2	CA Institute of Technology	103,362	102,970	121,492	135,480	5,806	19,685	109,989	0
3	MA Institute of Technology	89,881	96,224	93,550	102,417	14,765	18,774	58,574	10,304
4	Stanford U.	48,502	56,406	71,305	81,910	0	16,668	10,461	54,781
5	U. CA, Berkeley	52,604	54,879	58,292	75,959	4,620	19,988	51,321	30
6	U. AZ	40,321	42,685	62,584	74,058	61,888	8,758	3,412	0
7	Cornell U. all campuses	44,655	44,674	55,800	56,657	4,092	15,350	32,005	5,210
8	U. TX Austin	42,500	52,700	51,027	55,000	4,557	16,136	34,118	189
9	U. CO all campuses	64,575	52,783	57,555	51,571	16,196	12,843	19,183	3,349
10	U. CA, Los Angeles	31,178	33,954	39,145	43,093	0	15,453	27,640	0
11	PA State U. all campuses	36,777	39,869	40,089	41,873	7,446	14,573	19,854	0
12	U. MD College Park	32,982	57,640	42,879	41,245	8,744	7,324	25,177	0
13	Harvard U.	31,346	32,752	33,784	38,678	2,768	19,617	14,087	2,206
14	U. Chicago	27,664	27,553	32,600	37,518	16,803	7,315	9,657	3,743
15	U. WI Madison	32,878	32,913	32,695	35,815	2,694	10,830	17,597	4,694
16	U. IL Urbana-Champaign	30,747	30,780	31,765	34,848	2,298	14,295	18,255	0
17	MI State U.	28,919	27,149	30,314	33,638	0	8,358	25,280	0
18	Columbia U. in the City of NY	33,143	31,122	33,643	32,918	5,038	6,655	2,458	18,767
19	U. WA	20,482	20,100	26,603	32,044	2,110	17,900	12,034	0
20	U. CA, San Diego	25,428	28,434	31,052	31,947	2,469	14,648	13,150	1,680
21	FL State U.	19,716	24,809	26,052	27,702	0	4,821	22,881	0
22	U. MI all campuses	20,839	21,585	25,355	26,627	1,496	11,701	13,181	249
23	U. FL	14,377	17,554	18,691	24,770	1,737	9,667	13,240	126
24	Boston U.	12,961	14,626	23,458	23,839	734	5,587	6,416	11,102
25	U. PA	21,681	21,498	21,122	23,112	0	10,852	12,260	0
26	U. CA, San Francisco	11,198	20,915	22,787	22,215	0	22,215	0	0
27	Princeton U.	18,987	20,523	19,415	21,732	2,709	8,271	10,752	0
28	OH State U. all campuses	13,936	15,518	17,776	20,759	1,563	9,461	9,732	3
29	Northwestern U.	15,507	15,577	17,883	20,551	0	13,631	5,156	1,764
30	TX A&M U. all campuses	11,292	14,199	16,048	20,316	0	8,652	10,472	1,192
31	U. HI Manoa	13,645	16,740	17,746	20,193	13,586	1,564	4,961	82
32	SUNY Stony Brook all campuses	16,748	17,782	19,062	19,977	1,858	7,060	11,059	0
33	Rutgers, The State U. NJ all campuses	13,166	16,334	17,108	19,613	0	12,276	7,337	0
34	U. MN all campuses	26,233	18,529	19,609	19,610	957	8,956	9,697	0
35	U. MA Amherst	11,495	14,493	16,719	19,128	6,387	10,315	2,426	0
36	U. CA, Santa Cruz	11,894	12,816	15,627	18,733	7,639	6,108	4,986	0
37	U. CA, Santa Barbara	19,170	19,037	19,814	18,087	0	5,609	8,342	4,136
38	U. Pittsburgh all campuses	11,341	12,023	14,647	17,663	1,295	11,283	5,085	0
39	U. of Notre Dame	12,814	14,777	15,915	17,370	0	10,204	7,166	0
40	Yale U.	17,867	17,511	17,726	16,383	362	6,348	9,673	0
41	U. NC Chapel Hill	13,755	13,325	16,616	15,909	0	12,753	3,156	0
42	IN U. all campuses	17,231	17,371	17,561	15,566	264	6,920	8,368	14
43	U. MS all campuses	11,879	13,259	15,129	15,358	0	534	14,824	0
44	Duke U.	10,799	13,054	14,090	15,267	0	4,155	11,112	0
45	Catholic U. America, The	10,453	15,129	15,459	15,229	0	1,365	3,942	9,922
46	U. Central FL	5,363	7,160	12,470	15,123	0	1,718	13,405	0
47	GA Institute of Technology all campuses	9,894	11,207	14,154	15,064	0	8,500	6,509	55
48	U. VA all campuses	9,901	12,595	13,575	15,063	1,620	8,036	5,407	0

TABLE 55. Federally financed R&D expenditures in the physical sciences at universities and colleges, ranked by all FY 2004 physical sciences for the first 100 institutions: FY 2001–04 and by subfield for FY 2004

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004				
					All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec
49	Rice U.	10,359	12,398	12,849	14,824	284	8,447	6,093	0
50	U. CA, Davis	14,233	13,923	13,693	14,688	0	6,628	3,260	4,800
51	U. CA, Irvine	12,331	14,134	14,730	13,910	0	6,931	6,979	0
52	U. DE	9,118	8,939	12,981	13,825	69	7,890	2,486	3,380
53	Purdue U. all campuses	13,134	14,492	14,750	13,736	0	8,419	5,317	0
54	U. UT	10,502	11,745	12,389	13,352	0	9,164	4,188	0
55	ND State U. all campuses	2,177	4,168	11,108	13,227	0	4,433	180	8,614
56	U. IA	12,700	14,509	14,019	13,064	935	3,711	8,418	0
57	LA State U. all campuses	10,861	12,330	11,731	12,687	0	8,454	4,233	0
58	MT State U. Bozeman	9,532	9,776	11,052	12,397	0	4,080	8,317	0
59	AZ State U. main campus	9,700	8,831	10,831	11,252	0	6,259	3,545	1,448
60	Vanderbilt U.	8,305	9,158	10,700	11,132	0	3,587	7,323	222
61	Northeastern U.	7,318	6,089	8,311	10,642	0	1,644	8,998	0
62	WA State U.	4,589	8,289	9,005	10,332	0	3,318	6,669	345
63	Washington U. St. Louis	9,644	9,951	10,255	10,189	0	5,401	4,788	0
64	Carnegie Mellon U.	7,251	8,627	9,672	10,135	0	3,796	5,850	489
65	U. IL Chicago	5,972	7,768	8,860	10,035	0	4,615	5,420	0
66	U. Rochester	11,298	11,199	10,210	9,926	1,135	2,885	5,906	0
67	U. TN all campuses	7,486	7,991	8,720	9,606	0	3,396	6,210	0
68	SUNY Buffalo all campuses	4,109	7,497	8,354	9,446	0	6,269	3,177	0
69	NC State U.	12,176	9,282	9,156	9,439	0	3,727	5,712	0
70	KS State U.	8,358	9,489	10,337	9,361	0	2,225	7,136	0
71	Wayne State U.	7,453	8,511	6,951	8,772	0	4,465	4,307	0
72	U. MD Baltimore County	4,990	5,129	6,350	8,721	0	4,679	3,051	991
73	San Francisco State U.	719 i	3 i	1,405 i	8,551 i	0 i	2,854 i	2,849 i	2,848 i
74	U. SC all campuses	8,495	9,103	7,234	8,480	0	5,844	2,276	360
75	C. of William and Mary all campuses	3,380	5,458	5,736	8,185	0	271	4,225	3,689
76	NM State U. all campuses	5,255	8,846	8,311	8,144	973	5,270	1,752	149
77	CO State U.	6,900	7,483	7,242	7,963	0	6,004	1,841	118
78	U. AR main campus	4,702	8,081	6,091	7,915	0	4,657	3,258	0
79	Emory U.	6,350	5,365	6,594	7,728	0	6,764	964	0
80	U. AL Huntsville, The	7,157	9,413	7,410	7,705	0	3,656	4,049	0
81	Case Western Reserve U.	5,361	6,022	8,748	7,635	154	3,842	3,639	0
82	VA Polytechnic Institute and State U.	4,135	6,545	8,159	7,526	0	6,218	1,308	0
83	U. NE all campuses	6,289	7,605	7,684	7,460	0	2,577	4,883	0
84	Brown U.	5,136	5,126	5,995	7,333	0 i	3,079 i	4,254 i	0 i
85	U. NV, Reno	4,344	4,997	6,565	7,315	60	774	6,158	323
86	U. NM all campuses	5,570	7,285	7,375	7,084	0	2,731	4,032	321
87	U. OR	6,766	7,214	6,874	7,071	0	3,513	3,558	0
88	Boston C.	5,725	6,743	6,851	6,851 e	0 e	5,222 e	1,629 e	0 e
89	CUNY City C.	4,955	5,245	5,702	6,694	0	2,937	3,621	136
90	NY U.	4,165	5,822	7,983	6,523	0	4,395	2,128	0
91	U. Southern CA	6,910	5,870	6,397	6,303	83	4,760	1,460	0
92	IA State U.	5,811	5,754	6,596	6,255	0	3,706	2,497	52
93	U. Southern MS	3,620	4,915	6,058	6,065	0	5,861	204	0
94	U. OK all campuses	7,654	9,501	5,482	5,986	0	2,918	3,068	0
95	U. CA, Riverside	5,088	5,467	6,740	5,936	0	3,570	2,366	0
96	OK State U. all campuses	2,092	2,979	5,182	5,912	0	3,556	2,252	104
97	U. KY all campuses	5,307	4,418	5,297	5,834	0	3,671	2,163	0
98	U. KS all campuses	2,736	4,970	5,143	5,739	177	3,013	2,549	0

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99	CO School of Mines	5,026	5,816	6,886	5,677	0	506	5,171	0
100	U. TX M. D. Anderson Cancer Ctr.	3,172	3,452	4,956	5,586	0	5,586	0	0
	All other sampled institutions	284,830	299,213	337,530	372,864	7,283	182,551	163,178	19,852

e = estimated.

i = imputed.

nec = not elsewhere classified.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$117 million in federally financed R&D expenditures in the physical sciences.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.