

TABLE 28. Nonfederal R&D expenditures at universities and colleges, ranked by FY 2003 expenditures for the first 200 institutions: FY 1996–2003

(Dollars in thousands)

Institution and ranking	1996	1997	1998	1999	2000	2001	2002	2003
All institutions	9,205,400	10,055,357	10,704,268	11,428,469	12,532,339	13,573,859	14,510,311	15,343,366
1 U. CA, Los Angeles	118,010	182,928	213,362	225,621	256,664	380,943	420,836	428,183
2 U. WI Madison	179,396	186,050	203,182	250,476	275,732	300,134	317,098	325,017
3 U. CA, San Francisco	98,893	136,635	160,340	183,914	194,135	247,486	269,572	299,746
4 OH State U. all campuses	143,336	166,518	177,341	187,594	229,180	229,560	254,504	297,950
5 TX A&M U. all campuses	218,308	221,732	248,782	253,052	247,629	257,659	273,193	279,116
6 U. CA, Davis	124,416	162,398	174,778	183,487	223,049	277,459	280,009	273,818
7 U. CA, Berkeley	148,149	218,101	248,679	260,514	310,176	238,193	257,449	268,980
8 U. MI all campuses	187,814	187,457	185,311	174,393	187,523	204,406	229,469	263,236
9 U. CA, San Diego	79,592	138,086	155,687	169,625	192,522	213,257	225,625	246,408
10 U. FL	168,126	178,045	168,352	182,151	193,318	212,471	219,208	234,776
11 Cornell U. all campuses	136,452	145,509	159,324	160,760	180,521	203,362	225,545	233,892
12 PA State U. all campuses	147,250	154,749	176,369	180,297	201,501	212,115	208,033	232,333
13 U. IL Urbana-Champaign	123,481	130,104	158,016	172,480	179,534	195,547	212,851	227,094
14 LA State U. all campuses	131,804	140,184	141,838	149,977	162,226	174,286	189,435	215,303
15 U. MN all campuses	142,252	162,946	155,582	163,623	181,422	197,722	198,964	215,291
16 Duke U.	92,604	95,642	109,856	161,517	152,445	157,024	180,177	213,327
17 U. GA	153,103	171,093	163,233	181,413	195,798	205,385	206,574	205,864
18 U. AZ	125,652	133,057	140,329	142,119	157,929	167,644	179,055	195,867
19 U. TX M. D. Anderson Cancer Ctr.	78,170	79,876	78,186	85,713	100,324	118,693	144,512	192,300
20 NC State U.	116,263	159,819	174,721	190,103	187,221	203,384	198,037	189,868
21 MI State U.	105,346	107,201	112,465	118,077	141,324	153,587	167,192	187,590
22 IN U. all campuses	63,379	69,267	75,914	92,528	120,160	143,118	166,321	184,044
23 Purdue U. all campuses	115,319	114,619	123,635	130,703	142,526	156,766	178,301	180,277
24 U. NE central administration	99,692 i	108,224 i	112,792 i	133,141 i	132,478	154,732	165,220	179,797
25 U. MD Baltimore	56,996	62,708	65,284	56,387	133,134	139,916	149,805	171,115
26 Rutgers, The State U. NJ all campuses	117,515	114,813	127,224	138,174	145,557	159,637	167,624	168,516
27 GA Institute of Technology all campuses	109,478	127,693	145,590	150,864	178,347	162,697	174,667	160,608
28 Baylor C. of Medicine	92,319	94,915	105,918	131,087	140,926	147,067	152,449	158,999
29 U. KY all campuses	67,271	62,676	100,586	107,850	128,534	125,482	135,849	152,059
30 VA Polytechnic Institute and State U.	63,496	82,151	84,384	93,864	121,545	138,939	149,584	149,664
31 U. PA	72,263	79,016	85,563	104,556	117,955	117,856	124,682	149,085
32 U. MD College Park	117,269	112,999	93,992	112,547	115,824	121,868	130,885	138,693
33 Johns Hopkins U., The ^a	88,349	104,715	100,637	103,938	107,890	119,505	117,725	137,161
34 MA Institute of Technology	109,068	99,534	102,357	111,385	119,631	131,176	116,377	129,558
35 U. IL Chicago	62,549	68,557	77,942	88,687	93,896	107,989	116,669	123,444
36 U. MO-Columbia	80,141	84,843	90,613	95,127	93,441	106,347	99,269	121,001
37 Stanford U.	56,153	63,038	67,883	72,602	90,739	98,438	111,854	119,687
38 Northwestern U.	86,452	92,651	95,324	101,162	95,536	99,804	103,547	119,406
39 U. WA	93,777	89,175	95,900	114,547	139,720	154,523	140,214	119,212

TABLE 28. Nonfederal R&D expenditures at universities and colleges, ranked by FY 2003 expenditures for the first 200 institutions: FY 1996–2003

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Institution and ranking	1996	1997	1998	1999	2000	2001	2002	2003
40 IA State U.	97,010	102,495	105,570	107,122	115,582	117,172	117,245	117,269
41 Washington U. St. Louis	63,443	75,433	82,377	97,008	108,068	121,714	113,519	116,964
42 U. TN all campuses	75,607	80,181	80,901	88,743	91,631	83,287	99,917	116,903
43 Rockefeller U.	68,226	66,020	71,649	76,509	78,927	90,209	99,044	116,840
44 U. Southern CA	64,977	67,437	78,259	81,122	89,573	94,390	105,752	113,904
45 U. TX Austin	93,798	87,067	79,761	93,209	93,922	99,920	101,808	111,858
46 Wayne State U.	65,887	70,676	80,810	89,222	92,494	96,536	103,097	110,754
47 SUNY Buffalo all campuses	49,888	57,571	75,613	81,333	91,282	90,234	105,583	110,386
48 U. NC Chapel Hill	51,495	67,395	63,791	69,832	74,278	81,961	116,235	109,864
49 U. South FL	64,406	68,581	68,395	81,956	94,840	112,724	113,786	107,147
50 WA State U.	49,834	52,670	50,912	52,333	56,355	59,277	85,724	104,528
51 U. CA, Irvine	46,653	55,376	63,813	66,337	70,163	78,131	93,921	100,783
52 U. TX Southwestern Medical Ctr. Dallas	48,694	51,232	56,511	63,524	80,051	90,556	108,700	99,496
53 U. OK all campuses	66,392	68,631	72,410	84,496	90,360	88,431	99,985	99,148
54 Emory U.	53,931	55,097	54,839	56,354	61,156	66,680	85,155	94,969
55 U. IA	72,582	75,880	83,751	84,497	96,180	100,099	108,065	94,775
56 Yale U.	57,907	56,412	57,634	60,646	64,687	70,812	79,939	90,931
57 Clemson U.	56,727	55,942	61,951	72,277	83,599	75,325	87,666	90,434
58 SUNY Stony Brook all campuses	46,807	50,056	50,235	55,045	66,666	75,222	75,923	87,878
59 MS State U.	49,487	49,229	58,406	64,368	78,695	81,446	81,131	86,085
60 U. of Medicine and Dentistry NJ	51,030	52,912	54,663	64,547	65,633	76,363	87,921	85,268
61 U. KS all campuses	58,791	62,160	66,548	75,480	79,720	81,973	89,468	82,148
62 Auburn U. all campuses	55,957	58,048	60,062	53,486	61,097	66,250	66,343	78,729
63 U. CT all campuses	94,513	91,337	81,259	79,490	94,940	94,353	78,677	78,687
64 U. Rochester	31,981	36,834	43,844	44,274	46,742	67,316	66,303	77,620
65 Princeton U.	42,994	44,882	46,991	51,263	60,194	70,791	66,684	75,940
66 NY U.	55,864	59,171	55,026	56,055	65,042	60,825	72,983	75,560
67 AZ State U. main campus	45,706	43,040	50,660	53,279	58,182	62,147	58,609	73,850
68 U. CA, Riverside	43,768	51,480	56,776	55,827	62,495	68,742	79,631	72,059
69 U. UT	20,635	36,589	42,234	42,127	63,317	70,344	74,082	71,627
70 CO State U.	51,771	49,187	59,728	58,338	50,850	59,836	66,195	69,903
71 U. Cincinnati all campuses	55,190	63,312	69,388	52,677	61,610	64,846	67,573	69,822
72 OR State U.	51,357	51,336	55,824	57,636	60,353	69,071	70,052	67,132
73 OK State U. all campuses	57,926	41,025	48,246	59,929	63,515	64,675	63,887	65,331
74 FL State U.	38,598	42,963	44,012	42,007	48,265	56,742	63,895	64,292
75 U. Pittsburgh all campuses	39,866	41,700	45,331	54,859	66,654	80,221	93,287	64,059
76 Mt. Sinai School of Medicine	30,806	33,862	39,453	43,141	51,658	67,602	59,356	61,795
77 TX Tech U.	29,987	31,744	35,645	38,246	44,783	46,951	54,583	60,739
78 U. CA, Santa Barbara	17,884	26,234	27,354	30,535	37,400	39,544	53,425	60,708
79 Harvard U.	79,396	77,349	54,224	60,174	60,111	71,693	64,760	60,087

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80 U. TX Medical Branch	35,436	35,677	37,900	38,519	36,539	38,040	51,434	60,083
81 KS State U.	46,453	51,115	54,232	57,478	60,605	60,032	62,816	59,420
82 U. CO all campuses	73,784	77,615	82,861	73,932 e	53,241 i	56,829	59,352	58,820
83 U. SC all campuses	27,350	40,850	50,199	57,345	52,526	57,990	69,705	58,366
84 Medical U. SC	13,789	19,321	21,467	24,822	23,811	56,144	56,227	57,658
85 U. AK Fairbanks all campuses	41,030	42,816	44,101	54,178	55,895	54,908	50,110	56,309
86 U. AR main campus	43,734	49,096	55,530	45,734	50,039	55,131	55,475	55,206
87 Vanderbilt U.	21,319	23,854	28,889	32,788	41,940	40,274	35,447	54,095
88 ND State U. all campuses	31,978	28,765	30,220	32,388	34,600	49,675	50,691	53,872
89 U. MA Amherst	35,709	44,886	46,774	46,699	52,195	48,400	54,562	52,673
90 Columbia U. in the City of NY	40,751	32,157	37,284	39,429	36,530	36,569	48,654	52,140
91 U. NM all campuses	39,768	39,174	41,545	30,874	33,538	47,114	46,346	51,698
92 Dartmouth C.	13,263	18,465	19,911	22,781	22,505	39,252	39,584	49,761
93 U. Louisville	16,349	19,913	24,080	41,515	46,349	47,741	41,996	48,598
94 Yeshiva U.	18,034	18,883	19,000	22,091	37,987	40,430	42,856	48,342
95 U. Miami	33,340	34,372	35,480	37,725	39,162	41,969	50,148	46,846
96 U. TX Health Science Ctr. San Antonio	31,825	32,541	30,403	30,900	38,573	44,001	45,855	46,621
97 U. Chicago	21,570	28,848	25,653	27,085	29,806	38,559	41,434	46,193
98 VA Commonwealth U.	33,564	33,966	32,371	31,610	36,083	41,865	44,591	45,250
99 Case Western Reserve U.	33,534	40,833	44,056	42,154	42,471	39,401	37,154	45,222
100 SUNY Albany	17,852	16,225	16,674	18,036	20,733	23,448	26,996	44,617
101 WV U.	24,044	33,869	37,377	37,128	38,117	41,871	35,591	44,162
102 Brown U.	25,482	27,747	29,565	31,054	31,533	33,269	41,267	43,645
103 UT State U.	37,945	41,698	39,325	40,931	45,783	47,108	42,228	43,368
104 NJ Institute of Technology	18,549	17,441	19,855	19,855	30,514	39,473	41,588	43,129
105 U. ID	39,717	40,166 i	40,615	38,268	38,333	40,948	43,293	42,352
106 U. Central FL	2,774	25,231	22,028	26,418	33,845	56,945	36,422	42,131
107 U. TX Health Science Ctr. Houston	21,347	28,433	31,547	34,019	39,922	36,894	39,704	41,813
108 Southern IL U. Carbondale	19,742	21,411	22,689	25,509	26,224	32,339	42,815	40,940
109 U. CA, Santa Cruz	19,335	25,423	26,652	27,818	30,253	35,052	38,066	40,235
110 U. ME	18,473	18,078	20,078	22,289	30,409	40,197	38,417	40,022
111 U. MA Worcester	23,143	27,996	29,184	27,524	33,375	31,768	38,737	39,741
112 Rush U.	26,292	25,587	26,833	29,838	35,616	32,918	34,638	39,362
113 U. AL Birmingham, The	44,389	53,257	60,890	66,892	58,152	37,077	38,832	39,280
114 San Diego State U.	26,020	20,349	22,194	25,855	32,200	34,711	39,079	38,969
115 MT State U. Bozeman	32,430	29,733	28,310	29,244	34,760	34,736	38,225	38,220
116 U. NH	22,388	21,758	26,446	27,027	33,187	42,656	42,393	36,952
117 U. WY	25,562	32,750	30,694	28,088	26,538	21,615	21,615 e	36,868
118 U. HI Manoa	44,300	47,686	61,121	63,392	65,881	59,260	50,941	35,705
119 Tulane U.	33,940	36,719	34,934	36,545	37,705	44,092	38,174	35,591

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120 U. VT	22,138	25,484	26,372	27,964	23,530	26,787	30,322	34,162
121 Tufts U.	25,848	28,147	30,963	38,036	41,106	34,137	36,055	33,667
122 NM State U. all campuses	22,941	23,859	20,783	23,002	22,622	25,839	32,764	33,245
123 OR Health and Science U.	28,995	29,682	27,228 i	24,774 i	22,321	25,114	28,498	32,957
124 U. NV, Reno	27,006	31,890	25,093	23,352	29,981	27,843	26,763	32,797
125 U. VA all campuses	22,078	31,597	39,962	23,282	24,732	26,679	29,982	32,757
126 U. DE	24,645	33,064	36,208	38,893	36,995	35,661	36,974	31,213
127 U. Houston	23,730	24,221	20,279	22,927	27,537	29,691	28,252	30,899
128 U. LA Lafayette	10,493	17,682	18,934	21,305	20,528	19,943	34,871	29,314
129 Carnegie-Mellon U.	44,684	43,427	42,404	51,766	46,789	47,419	50,224	28,768
130 TX A&M U. System Health Science Ctr.	NA	NA	NA	NA	11,415	22,475	27,219	28,302
131 Medical C. GA	24,633	26,821	26,679	27,112	30,386	31,075	28,388	28,118
132 U. MD Ctr. for Environmental Science	15,450	15,137	16,598	18,700	20,800	24,530	25,421	25,690
133 Medical C. WI	12,838	12,265	12,190	14,359	15,547	19,854	20,459	25,582
134 U. Memphis, The	13,475	15,858	16,637	17,916	16,204	18,433	19,553	23,743
135 Thomas Jefferson U.	17,679	20,137	17,732	22,041	22,178	24,055	23,757	23,735
136 George Washington U.	18,773	20,976	29,409	16,813	19,673	22,048	27,559	23,495
137 GA State U.	12,296	19,525	19,869	22,213	24,510	25,385	25,597	23,435
138 U. MS all campuses	10,644	10,535	11,616	13,076 i	16,820	18,959 i	21,098 i	23,238
139 U. AR for Medical Sciences	16,558	18,087	17,630	17,674	19,112	17,702	17,555	21,996
140 C. of William and Mary all campuses	12,163	13,140	14,869	19,430	20,268	20,541	21,851	21,982
141 Wake Forest U.	19,486	21,003	20,188	22,534	21,255	20,322	19,896	21,938
142 U. MD Biotechnology Institute	15,404	20,398	20,072	17,261	18,789	21,405	23,837	21,867
143 NM Institute of Mining and Technology	13,375	11,478	13,832	15,342	14,984	15,137	17,445	21,752
144 SUNY C. of Environmental Science and Forestry	18,948	17,850	19,321	21,511	22,331	23,499	21,707	21,606
145 CA Institute of Technology	14,531	13,663	7,318	16,913	25,789	21,531	20,060	21,567
146 Uniformed Services U. of the Health Sciences	12,230	9,594	12,762	13,202	12,964	13,142	18,336	21,077
147 Boston U.	22,320	22,870	25,626	17,712	20,299	21,260	21,174	20,894
148 Drexel U.	7,709	8,722	8,674	9,483	10,584	7,539	14,233	20,277
149 Temple U.	27,813	28,126	34,231	24,206	14,253	18,539	19,273	20,018
150 Woods Hole Oceanographic Institution	11,195	11,021	10,246	12,188	14,511	15,359	21,506	19,813
151 U. Akron all campuses	10,714	12,853	12,284	9,139	12,414	13,594	18,543	18,605
152 U. of Notre Dame	5,670	4,943	5,820	6,869	7,162	16,295	19,086	18,583
153 Rensselaer Polytechnic Institute	13,169	16,018 e	16,786	16,231	15,207	19,116	19,465	18,482
154 U. MO-Rolla	12,693	12,815	13,806	17,162	16,164	16,870	16,473	17,857
155 Eastern VA Medical School	7,527	8,491	12,223	12,742	11,185	14,861	15,495	17,370
156 OH U. all campuses	10,283	11,218	11,146	10,893	12,072	14,248	18,924	17,121
157 Brandeis U.	13,527	14,912	16,491	18,882	21,214	22,787	18,116	17,119
158 U. MO-Kansas City	7,510	6,354	6,676	7,125	12,157	10,619	13,265	16,872
159 U. AR Little Rock	NA	NA	NA	NA	0 e	0	0 e	16,527

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160 Georgetown U.	30,878	34,916	31,810	27,454	34,375	5,602	9,363	16,436
161 U. MT, The	9,830	9,597	8,385	9,745	11,212	14,341	16,755	16,342
162 U. TX Dallas	7,979	7,842	7,096	8,328	8,635	8,635 e	14,574	16,218
163 SD State U.	9,425	10,021	9,819	9,513	9,336	11,261	10,970	16,211
164 Wright State U. all campuses	7,879	7,290	8,844	10,766	16,549	16,616	14,892	16,127
165 Northeastern U.	3,274	3,501	4,931	7,433	8,424	10,935	14,245	16,036
166 Southern IL U. Edwardsville	1,080 i	900 i	722	1,169	1,144	959	12,630	15,760
167 CUNY Hunter C.	8,938	7,142	7,083	8,408	6,397	9,042	11,332	15,657
168 Creighton U.	6,595	7,998	10,915	11,086	10,300	10,399	12,388	14,703
169 U.S. Air Force Academy	78 i	104 i	130	62	46	314	17,426	14,599
170 Syracuse U. all campuses	15,961	10,862 i	8,122	9,590	10,443	12,440	13,166	14,287
171 SUNY Binghamton	12,839	13,092	14,549	12,237	12,342	12,600	12,384	14,109
172 U. WI Milwaukee	11,653	11,839	11,871	12,135	11,585	12,403	13,472	13,555
173 U. ND all campuses	4,212	3,124	3,534	3,384	3,463	3,949	8,969	13,467
174 U. Toledo	4,674 e	5,792	6,146	6,137	7,382	9,577	15,829	13,195
175 Lehigh U.	12,371	11,569	13,096	14,741	12,780	15,097	9,168	12,996
176 CO School of Mines	9,757	9,891	11,987	11,011	9,800	11,340	13,285	12,848
177 MI Technological U.	11,279	11,199	12,584	11,967	10,554	11,993	12,032	12,597
178 Rose-Hulman Institute of Technology	413 i	403 i	393 i	384	4,574	17,083	7,168	12,309
179 Institute of Paper Science and Technology	9,489 i	11,678 e	11,678 e	7,135 e	7,135 e	10,982	10,982 e	12,191 i
180 IL Institute of Technology	4,817	4,514	4,067	3,661	2,808	3,805	8,632	11,844
181 Wichita State U.	7,708	9,195	10,471	11,295	10,985	10,416	12,155	11,782
182 Old Dominion U.	8,311	7,847	7,804	9,324	10,150	9,379	12,053	11,442
183 FL International U.	3,441	3,531	3,637	9,304	14,353	20,351	15,597	11,315
184 U. AL Huntsville, The	12,035	11,086	13,174	15,037	15,335	13,106	12,693	11,037
185 CA State U. Fresno	6,347 i	7,403 i	8,780 i	9,701 e	9,775	3,946	8,006	10,979
186 Cleveland State U.	7,168 i	7,296 e	7,515 e	8,238 e	6,896	9,000	9,206	10,501
187 Charles R. Drew U. of Medicine and Science	1,098	1,153 e	1,153 e	2,272	9,076	9,302	9,580	10,481
188 U. PR Mayaguez Campus	24,934	27,805	29,278	31,864	22,846	9,612	11,074	10,433
189 U. MA Boston	8,192	8,119	8,331	8,181	8,680	9,126	8,284	10,214
190 U. RI	4,746 i	4,789	4,632	8,245	9,597	7,674	7,894	9,876
191 CA State Polytechnic U. San Luis Obispo	2,666 i	2,347 i	2,024	4,219	4,528	6,040	8,034	9,778
192 U. NV, Las Vegas	5,751	6,407	7,199	9,922	10,400	11,327	8,160	9,694
193 Loyola U. Chicago	12,534	16,223	16,556	11,413	9,339	10,682	9,929	9,474
194 Western MI U.	6,270	6,417	7,509	9,562	9,646	8,784	9,110	9,440
195 Miami U. all campuses	6,214	6,768	4,051	7,662	8,000	9,480	9,258	9,415
196 San Jose State U.	9,180 i	9,180 i	9,180 e	9,180 e	9,180 e	8,408	9,226	9,388
197 SUNY Health Science Ctr. Brooklyn	11,569 i	10,731	9,199	7,787	8,766	8,766 e	9,486 i	9,297 i
198 SUNY Upstate Medical U.	7,329	7,726	7,602	7,210	8,634	8,479	8,922	9,279
199 Boston C.	3,367	3,539	4,996	7,234	11,094	10,645	8,927	9,251

TABLE 28. Nonfederal R&D expenditures at universities and colleges, ranked by FY 2003 expenditures for the first 200 institutions: FY 1996–2003
(Dollars in thousands)

Institution and ranking	1996	1997	1998	1999	2000	2001	2002	2003
200 U. TX El Paso	3,077	2,977	3,334	3,669	4,461	5,722	7,227	9,069
All other sampled institutions	474,893	494,707	530,030	535,639	538,369	572,659	634,085	642,462

e = estimated.

i = imputed.

NA = not available.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$25 million in nonfederally financed R&D expenditures.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2003.