

**Table B-47. Total and federally financed R&D expenditures in engineering  
at universities and colleges: fiscal years 1996-1999**

[Dollars in thousands]

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Institution and ranking	Total				Federally financed			
	1999	1998	1997	1996	1999	1998	1997	1996
Total, all institutions .....	4,257,121	4,068,713	3,847,314	3,706,948	2,438,273	2,353,638	2,258,757	2,232,174
1 Johns Hopkins U <sup>1</sup> .....	225,813	216,973	204,860	213,465	221,320	212,747	200,568	209,128
2 Georgia Institute of Tech .....	172,053	165,472	164,359	149,412	73,638	72,542	76,996	76,917
3 MA Institute of Tech .....	153,789	178,664	166,049	164,816	110,676	127,064	125,617	112,703
4 Pennsylvania State U .....	138,455	142,907	130,431	138,718	80,195	85,368	79,149	90,452
5 University of Michigan .....	131,570	109,219	113,193	108,668	83,573	68,083	67,125	65,291
6 Stanford University .....	114,272	116,364	116,322	101,741	98,864	102,752	104,139	89,558
7 Texas A&M University .....	108,249	108,306	96,936	97,848	31,065	27,986	31,835	32,278
8 U CA Berkeley .....	107,062	99,697	88,331	69,000	51,323	48,225	37,062	35,130
9 U TX at Austin .....	95,987	81,547	108,658	101,222	61,383	46,499	73,615	65,877
10 U of Illinois Urbana-Cham .....	91,373	87,557	63,113	61,712	53,912	51,751	38,292	35,736
Total, 1st 10 institutions .....	1,338,623	1,306,706	1,252,252	1,206,602	865,949	843,017	834,398	813,070
11 NC State University .....	80,586	80,278	70,033	61,709	27,008	33,161	26,624	27,946
12 Ohio State University .....	77,090	70,275	65,260	61,403	20,467	18,760	18,521	18,412
13 U MD at College Park .....	76,548	67,267	67,188	65,537	42,645	38,734	33,368	33,374
14 Purdue University .....	70,106	68,096	65,009	62,490	36,509	34,899	34,032	32,428
15 U WI-Madison .....	57,663	56,512	55,671	53,094	34,501	34,042	34,233	32,616
16 VA Polytech Inst & St U .....	53,530	48,844	49,254	39,562	25,584	25,000	27,629	22,086
17 Cornell University .....	49,641	44,687	44,522	44,724	31,243	28,416	27,116	29,517
18 U CA San Diego .....	47,725	46,169	33,055	31,373	25,273	27,585	19,434	23,959
19 New Mexico State Univ .....	47,632	46,187	47,136	42,742	38,257	37,487	39,249	36,132
20 University of Florida .....	46,186	48,621	38,296	32,000	20,227	21,735	17,426	16,988
Total, 1st 20 institutions .....	1,945,330	1,883,642	1,787,676	1,701,236	1,167,663	1,142,836	1,112,030	1,086,528
21 U CA Los Angeles .....	46,108	42,967	34,411	28,509	29,527	28,171	22,732	21,352
22 University of Arizona .....	43,094	42,394	22,777	20,896	25,320	24,232	12,231	12,466
23 Northwestern University .....	42,618	42,636	30,502	28,402	30,446	27,047	17,076	17,925
24 U of Southern California .....	42,148	38,686	42,701	36,933	32,688	30,530	32,964	30,032
25 University of Rochester .....	41,864	38,158	36,633	31,104	36,235	34,243	31,597	27,679
26 California Inst of Tech .....	40,470	35,630	32,158	29,238	37,675	31,536	29,158	26,507
27 Iowa State University .....	40,019	40,370	41,721	42,150	13,207	14,229	17,942	19,036
28 Princeton University .....	39,080	35,805	35,120	36,447	22,316	20,707	21,719	22,847
29 Carnegie Mellon U .....	38,676	34,363	30,575	32,827	24,272	23,142	20,330	19,500
30 University of Minnesota .....	38,564	37,595	38,689	34,080	24,055	24,122	24,508	21,388
Total, 1st 30 institutions .....	2,357,971	2,272,246	2,132,963	2,021,822	1,443,404	1,400,795	1,342,287	1,305,260
31 Louisiana State U System .....	37,781	35,605	36,918	34,767	15,326	13,535	13,844	12,889
32 U CA Santa Barbara .....	37,147	34,985	34,363	37,759	27,670	26,427	25,746	32,039
33 U of Washington .....	34,889	34,277	32,716	31,787	21,875	21,927	20,333	17,843
34 Arizona State University .....	34,378	32,745	27,720	28,147	13,841	12,501	10,755	9,826
35 University of Dayton .....	33,386	41,418	40,719	37,150	28,403	34,141	33,438	30,375
36 Utah State University .....	32,083	33,933	25,469	24,219	27,360	29,337	18,843	17,793
37 Mississippi State U .....	30,713	22,862	17,868	18,056	20,914	15,833	13,863	13,058
38 Clemson University .....	30,583	26,584	26,549	26,066	8,331	8,315	8,876	8,636
39 SUNY at Buffalo .....	29,946	27,690	22,156	23,367	14,579	14,129	13,538	15,074
40 U CA Davis .....	29,528	27,726	19,880	17,349	10,069	10,216	6,996	8,187
Total, 1st 40 institutions .....	2,688,405	2,590,071	2,417,321	2,300,489	1,631,772	1,587,156	1,508,519	1,470,980
41 Rutgers the State U NJ .....	29,097	25,908	21,065	24,686	12,867	11,517	10,772	11,645
42 Rensselaer Polytech Inst .....	28,275	23,963	27,369	26,694	14,857	11,925	15,900	17,267
43 U of Tennessee System .....	27,772	27,827	31,024	27,444	11,676	12,855	13,301	11,854
44 University of Kentucky .....	27,478	25,174	21,118	19,565	10,140	9,871	10,408	7,283
45 University of New Mexico .....	26,998	27,243	30,964	36,001	21,305	20,093	22,742	23,927
46 University of Delaware .....	26,908	23,408	22,717	17,369	11,701	10,647	10,574	9,468
47 Case Western Reserve U .....	26,239	28,340	28,436	25,625	17,695	18,166	19,105	16,825
48 University of Colorado .....	26,187	28,935	31,608	30,788	15,925	16,824	17,669	16,142
49 University of Cincinnati .....	25,453	21,569	18,705	17,898	12,801	11,992	10,894	10,952
50 University of Virginia .....	24,276	22,490	19,678	19,355	16,824	14,551	13,103	13,284
Total, 1st 50 institutions .....	2,957,088	2,844,928	2,670,005	2,545,914	1,777,563	1,725,597	1,652,987	1,609,627

See explanatory information and SOURCE at end of table.

**Table B-47. Total and federally financed R&D expenditures in engineering  
at universities and colleges: fiscal years 1996-1999**

[Dollars in thousands]

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Institution and ranking	Total				Federally financed			
	1999	1998	1997	1996	1999	1998	1997	1996
51 University of Connecticut .....	23,793	24,166	34,110	34,200	6,041	5,564	5,971	7,253
52 CA St U Long Beach .....	23,439 i	13,961 i	4,394 e	4,394 i	8,987 i	6,381 i	3,775 e	3,775 i
53 Lehigh University .....	22,190	20,354	20,065	27,915	9,152	8,842	10,204	17,526
54 U of Nebraska at Lincoln .....	22,112	20,029 i	19,732	15,424	4,257	3,771 i	3,715	3,295
55 University of Utah .....	21,816	19,174	18,968	18,482	13,405	12,197	12,338	12,866
56 U of South Carolina .....	21,578	17,116	12,003	18,469	12,595	10,545	7,534	12,632
57 West Virginia University .....	20,601	18,923	14,102	13,042	10,188	9,472	7,636	7,986
58 Auburn University .....	20,575	17,239	17,287	18,579	11,392	10,644	11,017	12,270
59 U of Iowa .....	20,409	21,888	18,169	19,965	8,495	8,642	7,118	8,885
60 U of Missouri Columbia .....	20,312	16,606	16,712	13,235	6,105	4,254	4,131	3,290
Total, 1st 60 institutions .....	3,173,913	3,034,384	2,845,547	2,729,619	1,868,180	1,805,909	1,726,426	1,699,405
61 NJ Inst of Technology .....	19,714	19,714	19,510	17,937	11,162	11,162	12,138	11,203
62 Michigan Tech University .....	18,896	16,959	15,714	14,801	9,581	8,166	8,140	7,492
63 U of Missouri Rolla .....	18,277	15,086	14,573	13,896	6,141	5,439	5,754	5,762
64 University of Houston .....	17,661	19,097	23,311	25,212	5,423	7,783	8,718	11,920
65 Drexel University .....	17,351	12,867	13,317	12,650	10,620	8,025	8,230	8,685
66 U of Alabama Huntsville .....	16,887	14,387	12,149	14,156	8,556	7,260	6,603	8,862
67 NM Inst Mining & Tech .....	16,835	15,526	14,451	13,890	7,807	5,878	7,018	4,513
68 Michigan State University .....	16,673	17,837	18,764	17,733	4,913	5,096	5,987	5,254
69 Texas Tech University .....	16,384	16,221	13,498	10,294	6,861	6,628	5,092	3,223
70 Boston University .....	16,110	14,969	12,878	8,639	14,767	10,610	9,361	6,508
Total, 1st 70 institutions .....	3,348,701	3,197,047	3,003,712	2,878,827	1,954,011	1,881,956	1,803,467	1,772,827
71 Columbia U in City of NY .....	15,645	14,901	14,114	12,866	13,450	11,438	9,254	7,663
72 University of Oklahoma .....	15,592	14,008	15,554	15,564	3,176	3,264	4,066	4,380
73 U MA Amherst .....	15,146	16,264	14,212	10,685	5,747	5,894	5,100	5,294
74 University of IL Chicago .....	15,107	12,979	11,892	10,546	5,696	5,007	4,451	4,740
75 Oklahoma State University ...	14,655	12,899	11,294	19,411	5,706	5,604	5,355	9,277
76 Duke University .....	14,650	13,710	12,327	10,666	11,002	10,155	8,005	7,015
77 Colorado School of Mines .....	14,578	14,296	13,486	14,406	5,967	4,977	5,522	7,028
78 Oregon State University .....	14,440	14,178	14,133	17,305	9,648	9,364	8,922	11,552
79 Washington State U .....	14,288	12,321	10,525	10,576	7,727	6,982	5,447	5,982
80 Mercer University .....	13,928	11,561	10,397 i	10,451	11,608	11,140	9,856 i	9,939
Total, 1st 80 institutions .....	3,496,730	3,334,164	3,131,646	3,011,303	2,033,738	1,955,781	1,869,445	1,845,697
81 U of Pennsylvania .....	13,911	12,785	11,740	12,564	10,598	10,123	8,609	9,514
82 Colorado State University .....	13,670	17,998	16,207	17,406	6,430	8,653	8,267	7,940
83 Kansas State University .....	13,356	12,972	12,825	11,376	4,526	5,110	5,231	4,755
84 Univ of Alabama, The .....	13,241	11,474	11,377	10,084	9,939	8,518	7,249	6,356
85 Northeastern University .....	13,118	11,274	8,280	7,617	9,835	8,960	6,318	6,252
86 University of Kansas .....	13,085	13,751	10,076	8,108	5,799	7,674	4,664	3,771
87 Woods Hole Oceanogr Inst ...	12,999	12,016	15,891	14,313	9,297	9,096	12,389	11,486
88 U of South Florida .....	12,902	15,728	16,671	16,501	5,106	6,284	5,458	6,612
89 U CA Irvine .....	12,461	11,658	10,709	13,048	4,787	4,288	4,474	6,411
90 Wichita State University .....	11,369	10,531	9,223	8,004	1,723	1,686	1,677	1,265
Total, 1st 90 institutions .....	3,626,842	3,464,351	3,254,645	3,130,324	2,101,778	2,026,173	1,933,781	1,910,059

See explanatory information and SOURCE at end of table.

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at universities and colleges: fiscal years 1996-1999**

[Dollars in thousands]

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Institution and ranking	Total				Federally financed			
	1999	1998	1997	1996	1999	1998	1997	1996
91 Florida State University .....	11,237	3,170	2,650	1,635	7,431	1,966	1,798	889
92 SUNY at Stony Brook .....	11,047	10,083	8,856	7,600	6,410	6,498	5,325	4,197
93 Wayne State University .....	10,823	10,633	10,768	9,439	2,925	2,613	3,025	2,875
94 University of Idaho .....	10,635	8,878	8,685 i	8,477	3,243	1,413	1,851 i	1,751
95 Florida International U .....	10,359	8,906	8,648	8,396	8,984	7,470	7,253	7,034
96 Old Dominion University .....	10,056	7,933	6,446	6,267	6,196	5,542	4,021	3,927
97 Florida Atlantic U .....	10,035	8,643	6,485	7,018	8,146	6,920	5,399	4,788
98 Vanderbilt University .....	9,764	7,529	8,441	8,903	6,595	4,669	6,426	6,586
99 U Arkansas Main .....	9,638	11,576	9,220	9,096	3,896	4,714	3,816	3,980
100 Ohio University .....	9,548	9,236	9,984	10,174	5,188	4,949	5,150	4,827
Total, 1st 100 institutions .....	3,729,984	3,550,938	3,334,828	3,207,329	2,160,792	2,072,927	1,977,845	1,950,913
Total, all other sampled institutions .....	527,137	517,775	512,486	499,619	277,481	280,711	280,912	281,261

<sup>1</sup> Johns Hopkins University includes Applied Physics Laboratory.

**NOTE:** Because of rounding, detail may not add to totals.

**KEY:** -- = not available  
e = estimated  
i = imputed

**SOURCE:** National Science Foundation/Division of Science Resources Studies, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 1999