

TABLE 7. R&D expenditures at public universities and colleges, by source of funds and science and engineering field: FY 1996–2003
(Dollars in thousands)

Source and field	1996	1997	1998	1999	2000	2001	2002	2003
All R&D expenditures	15,587,457	16,424,522	17,478,696	18,659,556	20,512,338	22,406,117	24,874,147	27,355,031
Source of funds								
Federal government	8,466,207	8,570,877	9,072,312	9,716,099	10,653,651	11,719,356	13,392,351	15,295,157
State and local government	1,649,937	1,741,778	1,773,264	1,844,360	2,004,958	2,084,909	2,254,472	2,363,629
Industry	1,076,406	1,175,763	1,279,648	1,339,691	1,439,676	1,478,647	1,470,117	1,459,446
Institutional funds	3,418,439	3,888,182	4,215,200	4,544,478	4,987,925	5,593,243	6,013,971	6,402,377
All other sources	976,468	1,047,922	1,138,272	1,214,928	1,426,128	1,529,962	1,743,236	1,834,422
Field								
Science	12,999,238	13,737,584	14,612,139	15,612,400	17,217,777	18,766,188	20,895,335	23,080,131
Computer sciences	336,211	349,682	398,657	488,767	526,609	572,690	666,045	825,854
Environmental sciences	1,193,776	1,225,620	1,284,009	1,357,833	1,424,307	1,491,026	1,652,421	1,777,855
Atmospheric sciences	192,863	213,054	228,106	236,304	234,125	246,696	286,214	330,530
Earth sciences	331,527	334,796	380,881	421,657	447,624	443,779	518,992	593,568
Oceanography	483,769	487,361	490,213	512,844	543,480	583,823	611,976	655,338
Environmental sciences, nec	185,617	190,409	184,809	187,028	199,078	216,728	235,239	198,419
Life sciences	8,432,354	8,983,666	9,638,543	10,268,407	11,484,713	12,612,941	14,090,755	15,601,505
Agricultural sciences	1,858,203	1,905,748	1,930,706	1,979,307	2,115,751	2,252,328	2,373,100	2,470,974
Biological sciences	2,459,203	2,621,833	2,889,083	3,201,436	3,587,051	3,707,346	4,159,068	4,720,977
Medical sciences	3,815,982	4,138,098	4,494,943	4,767,245	5,351,854	6,154,637	6,956,170	7,696,699
Life sciences, nec	298,966	317,987	323,811	320,419	430,057	498,630	602,417	712,855
Mathematical sciences	174,349	178,214	196,137	195,130	215,046	234,498	259,316	289,039
Physical sciences	1,445,711	1,501,868	1,586,415	1,677,097	1,803,767	1,874,485	2,033,152	2,182,370
Astronomy	187,024	188,049	206,684	230,722	244,294	244,189	267,652	261,423
Chemistry	541,621	557,719	587,930	623,243	673,222	715,317	826,235	886,278
Physics	592,151	628,276	647,426	755,085	809,553	831,957	851,410	933,020
Physical sciences, nec	124,915	127,824	144,375	68,047	76,698	83,022	87,855	101,649
Psychology	280,748	298,747	333,273	344,669	381,672	434,070	498,062	568,145
Social sciences	840,293	854,273	873,359	971,883	1,000,433	1,129,251	1,250,008	1,334,513
Economics	225,592	206,754	208,011	217,311	205,916	229,306	240,428	270,644
Political sciences	113,309	110,892	109,471	122,315	139,216	151,892	152,759	178,536
Sociology	176,058	197,006	194,785	202,841	223,818	249,756	299,062	293,078
Social sciences, nec	325,334	339,621	361,092	429,416	431,483	498,297	557,759	592,255
Sciences, nec	295,796	345,514	301,746	308,614	381,230	417,227	445,576	500,850
Engineering	2,588,219	2,686,938	2,866,557	3,047,156	3,294,561	3,639,929	3,978,812	4,274,900
Aeronautical/astronautical engineering	138,742	154,599	155,112	188,634	179,401	244,810	239,945	283,154
Bioengineering/biomedical engineering	NA	52,227	62,102	79,067	106,507	134,764	184,945	185,513
Chemical engineering	226,818	237,034	245,193	254,752	272,616	300,274	317,451	335,072
Civil engineering	381,681	399,490	425,828	447,661	509,503	563,072	605,049	654,910
Electrical engineering	584,823	626,078	714,152	712,885	785,191	815,664	921,943	991,434
Mechanical engineering	349,516	332,315	368,121	414,864	419,293	453,940	521,920	544,196
Metallurgical/materials engineering	259,650	289,409	281,720	277,709	296,003	345,897	351,944	408,524
Engineering, nec	646,989	595,786	614,329	671,584	726,047	781,508	835,615	872,097

NA = not available.

nec = not elsewhere classified.

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

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