TABLE 11. Federally financed R&D expenditures at private universities and colleges, by science and engineering field: FY 1997–2004

(Dollars in thousands)

Field	1997	1998	1999	2000	2001	2002	2003	2004
All federal R&D expenditures	5,744,047	6,078,916	6,385,815	6,882,041	7,504,701	8,468,854	9,444,587	10,430,296
Science	4,860,339	5,166,232	5,460,993	5,936,582	6,483,989	7,292,276	8,111,474	8,985,691
Computer sciences	296,603	283,118	297,855	277,345	308,837	373,364	389,261	421,634
Environmental sciences	259,031	288,499	278,087	281,262	280,069	300,900	328,478	384,339
Atmospheric sciences	29,775	37,501	46,837	48,040	47,714	47,631	56,823	75,329
Earth sciences	96,745	111,386	99,554	89,542	85,897	94,547	101,565	118,935
Oceanography	42,099	48,381	80,750	81,193	83,298	95,656	100,918	110,142
Environmental sciences, nec	90,412	91,231	50,946	62,487	63,160	63,066	69,172	79,933
Life sciences	3,201,214	3,460,356	3,716,603	4,207,282	4,698,167	5,323,488	5,971,510	6,635,626
Agricultural sciences	26,494	25,216	17,250	18,442	22,587	23,671	27,995	31,004
Biological sciences	1,153,792	1,265,604	1,367,482	1,519,095	1,674,622	1,858,463	2,048,179	2,267,478
Medical sciences	1,881,000	2,012,882	2,166,225	2,484,856	2,810,086	3,224,479	3,650,947	4,077,880
Life sciences, nec	139,928	156,654	165,646	184,889	190,872	216,875	244,389	259,264
Mathematical sciences	95,025	98,420	100,141	106,166	106,812	109,744	117,722	132,362
Physical sciences	737,146	758,447	806,416	776,896	790,293	829,855	926,502	1,006,852
Astronomy	84,543	77,945	143,836	132,059	121,182	121,732	116,087	130,573
Chemistry	201,818	225,456	234,436	219,832	220,834	228,869	253,149	282,640
Physics	386,732	388,480	355,882	354,572	367,233	384,369	435,487	463,003
Physical sciences, nec	64,053	66,566	72,262	70,433	81,044	94,885	121,779	130,636
Psychology	72,795	82,739	89,752	102,218	115,854	136,489	158,435	171,992
Social sciences	114,271	114,723	116,631	124,799	134,038	144,427	141,526	152,178
Economics	24,941	26,455	21,754	20,614	18,447	18,163	20,428	22,862
Political sciences	24,361	24,677	24,476	31,710	35,240	40,888	37,237	47,025
Sociology	32,762	33,343	37,533	39,641	38,222	42,349	43,804	45,620
Social sciences, nec	32,207	30,248	32,868	32,834	42,129	43,027	40,057	36,671
Sciences, nec	84,254	79,930	55,508	60,614	49,919	74,009	78,040	80,708
Engineering	883,708	912,684	924,822	945,459	1,020,712	1,176,578	1,333,113	1,444,605
Aeronautical/astronautical engineering	82,561	74,087	61,866	65,479	78,990	88,210	98,903	105,098
Bioengineering/biomedical engineering	18,406	30,148	42,671	49,452	57,072	70,348	97,403	117,132
Chemical engineering	52,205	52,306	60,341	65,548	73,342	78,134	80,437	85,206
Civil engineering	45,183	40,660	48,640	56,079	59,980	71,923	76,953	80,726
Electrical engineering	247,209	259,500	235,051	248,584	263,271	294,595	329,258	337,745
Mechanical engineering	143,506	158,575	165,184	164,898	176,257	201,350	214,223	233,483
Metallurgical/materials engineering	74,054	75,468	77,228	74,600	71,818	83,128	101,377	113,904
Engineering, nec	220,584	221,940	233,841	220,819	239,982	288,890	334,559	371,311

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 2004.