

Table B-12. R&D expenditures at private universities and colleges, by source of funds and science and engineering field: fiscal years 1988-95

[Dollars in thousands]

Source and field	1995	1994	1993	1992	1991	1990	1989	1988
Total	7,194,252	6,922,573	6,574,467	6,269,633	5,845,493	5,524,502	5,165,249	4,692,679
Source of funds								
Federal Government	5,238,442	5,023,235	4,784,680	4,492,167	4,181,388	4,013,653	3,795,929	3,479,934
State and local governments	173,066	148,591	142,478	137,856	142,488	133,357	123,208	110,644
Industry	486,425	472,041	465,844	436,061	415,325	394,153	361,921	325,789
Institutional funds	644,577	634,686	607,392	639,628	581,952	497,964	451,382	400,245
All other sources	651,742	644,020	574,073	563,921	524,340	485,375	432,809	376,067
Field								
Engineering, total	1,070,110	1,068,302	1,043,106	1,027,720	947,229	894,635	842,086	760,922
Aeronautical and astronautical	95,503	93,447	86,912	76,786	71,387	68,552	66,454	56,007
Chemical	90,471	87,839	87,997	87,809	89,631	75,095	73,032	60,214
Civil	69,084	69,896	67,126	65,411	58,123	55,245	52,454	53,525
Electrical	282,402	278,774	279,267	278,576	261,472	259,943	236,497	210,198
Mechanical	170,012	195,312	189,612	174,183	156,549	146,552	136,085	119,387
Metallurgical and materials ¹	75,177	71,112	78,375	83,090	75,251	73,767	--	--
Other, n.e.c.	287,461	271,922	253,817	261,865	234,816	215,481	277,564	261,591
All sciences, total	6,124,142	5,854,271	5,531,361	5,241,913	4,898,264	4,629,867	4,323,163	3,931,757
Physical sciences	784,945	763,604	750,729	765,679	719,568	683,385	632,047	617,197
Astronomy	91,291	83,337	83,924	83,788	68,292	56,601	41,372	38,403
Chemistry	247,880	245,564	241,112	238,047	228,624	232,287	217,391	203,129
Physics	390,204	380,485	368,070	361,169	353,844	332,140	321,031	314,880
Other, n.e.c.	55,570	54,219	57,623	82,675	68,808	62,357	52,253	60,785
Environmental sciences	292,646	300,998	286,083	276,184	268,668	256,135	263,438	225,299
Atmospheric	35,329	42,561	35,000	32,896	30,590	30,677	33,722	26,808
Earth sciences	108,139	105,667	101,817	103,592	100,586	94,354	91,423	81,992
Oceanography	50,231	53,730	85,021	82,451	81,681	76,898	85,927	71,132
Other, n.e.c.	98,947	99,040	64,245	57,245	55,811	54,206	52,366	45,367
Mathematical sciences	114,223	115,695	114,434	102,205	94,910	92,974	94,100	90,088
Computer sciences	340,265	323,594	313,439	271,514	261,351	264,932	263,595	237,778
Life sciences	4,104,625	3,878,423	3,621,654	3,426,429	3,200,932	2,999,858	2,750,291	2,489,025
Agricultural sciences	56,098	54,181	47,454	45,338	50,375	48,126	48,308	43,709
Biological sciences	1,409,975	1,368,593	1,297,435	1,235,461	1,123,763	1,079,032	997,128	916,575
Medical sciences	2,400,910	2,255,633	2,094,506	1,982,407	1,879,948	1,735,488	1,588,417	1,419,872
Other, n.e.c.	237,641	200,015	182,259	163,223	146,846	137,212	116,438	108,869
Psychology	104,566	107,072	106,796	101,745	87,449	83,135	77,062	72,490
Social sciences	255,538	249,343	232,523	219,784	184,122	177,734	177,322	148,730
Economics	42,083	44,619	44,106	46,988	47,981	50,432	49,937	43,382
Political science	66,287	65,518	63,121	61,443	44,687	39,419	42,049	34,192
Sociology	50,098	51,730	48,486	46,807	43,824	38,055	39,580	36,559
Other, n.e.c.	97,070	87,476	76,810	64,546	47,630	49,828	45,756	34,597
Other sciences, n.e.c.	127,335	115,542	105,703	78,373	81,264	71,714	65,308	51,150

¹ Data for metallurgical and materials engineering were not collected separately prior to fiscal year 1990.

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

KEY: -- = not available
n.e.c. = not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Scientific and Engineering Expenditures at Universities and Colleges, Fiscal Year 1995