

Table B-17. Non-Federal R&D expenditures at doctorate-granting institutions, by source of funds, science and engineering field, and control: fiscal years 1993, 1999, and 2000

[Dollars in thousands]

Source and field	Total			Public			Private		
	1993	1999	2000	1993	1999	2000	1993	1999	2000
Total	7,866,964	11,268,594	12,396,849	6,108,692	8,832,999	9,758,080	1,758,272	2,435,595	2,638,769
	Source of funds								
State and local government	1,527,053	1,952,958	2,159,563	1,386,401	1,777,505	1,966,452	140,652	175,453	193,111
Industry	1,332,045	2,003,667	2,145,038	874,783	1,320,454	1,423,133	457,262	683,213	721,905
Institutional funds	3,540,677	5,349,213	5,870,744	2,946,733	4,529,991	4,955,447	593,944	819,222	915,297
All other sources	1,467,189	1,962,756	2,221,504	900,775	1,205,049	1,413,048	566,414	757,707	808,456
	Field								
Engineering	1,273,522	1,790,188	1,955,448	1,022,550	1,510,464	1,641,597	250,972	279,724	313,851
Aeronautical and astronautical	52,488	77,100	75,973	36,346	67,068	63,327	16,142	10,032	12,646
Bioengineering/bio- medical	--	63,187	80,150	--	49,360	62,786	--	13,827	17,364
Chemical	130,145	169,324	178,608	96,034	135,728	141,537	34,111	33,596	37,071
Civil	210,411	307,102	357,808	186,338	274,706	324,502	24,073	32,396	33,306
Electrical	235,181	363,687	414,579	174,888	295,364	330,952	60,293	68,323	83,627
Mechanical	168,612	230,336	242,464	130,397	188,922	199,483	38,215	41,414	42,981
Metallurgical and materials	147,983	166,438	172,289	120,647	137,370	143,516	27,336	29,068	28,773
Other, n.e.c.	328,702	413,014	433,577	277,900	361,946	375,494	50,802	51,068	58,083
All sciences	6,593,442	9,478,406	10,441,401	5,086,142	7,322,535	8,116,483	1,507,300	2,155,871	2,324,918
Physical sciences	596,955	718,606	771,129	474,930	606,898	647,845	122,025	111,708	123,284
Astronomy	93,073	111,446	108,688	75,220	102,118	99,705	17,853	9,328	8,983
Chemistry	224,612	288,340	317,342	174,409	233,140	255,086	50,203	55,200	62,256
Physics	223,553	272,608	294,481	175,919	237,390	252,362	47,634	35,218	42,119
Other, n.e.c.	55,717	46,212	50,618	49,382	34,250	40,692	6,335	11,962	9,926
Environmental sciences	429,907	563,333	614,776	384,914	509,028	553,792	44,993	54,305	60,984
Atmospheric	48,966	65,008	65,313	46,286	60,347	59,704	2,680	4,661	5,609
Earth sciences	166,439	212,516	225,694	148,201	189,056	198,322	18,238	23,460	27,372
Oceanography	121,545	187,542	201,436	114,094	177,243	193,219	7,451	10,299	8,217
Other, n.e.c.	92,957	98,267	122,333	76,333	82,382	102,547	16,624	15,885	19,786
Mathematical sciences	64,314	99,561	106,889	53,107	83,121	88,370	11,207	16,440	18,519
Computer sciences	180,744	267,938	289,449	123,782	194,268	215,207	56,962	73,670	74,242
Life sciences	4,433,297	6,631,993	7,375,075	3,396,449	5,001,593	5,611,117	1,036,848	1,630,400	1,763,958
Agricultural sciences	1,098,665	1,464,578	1,582,537	1,068,026	1,427,618	1,541,806	30,639	36,960	40,731
Biological sciences	1,207,891	1,796,680	1,942,704	901,517	1,334,793	1,436,399	306,374	461,887	506,305
Medical sciences	1,951,448	3,141,860	3,554,065	1,302,030	2,075,717	2,408,607	649,418	1,066,143	1,145,458
Other, n.e.c.	175,293	228,875	295,769	124,876	163,465	224,305	50,417	65,410	71,464
Psychology	111,659	149,857	162,853	82,076	121,369	130,834	29,583	28,488	32,019
Social sciences	544,168	762,101	787,154	408,912	605,595	621,414	135,256	156,506	165,740
Economics	152,204	173,962	163,552	119,691	147,328	135,741	32,513	26,634	27,811
Political science	106,351	145,130	163,392	64,737	93,341	107,738	41,614	51,789	55,654
Sociology	89,090	142,898	157,490	68,171	114,578	122,112	20,919	28,320	35,378
Other, n.e.c.	196,523	300,111	302,720	156,313	250,348	255,823	40,210	49,763	46,897
Other sciences, n.e.c.	232,398	285,017	334,076	161,972	200,663	247,904	70,426	84,354	86,172

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

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

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000