

**Table B-15. 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
<b>Total</b> .....	19,615,731	27,069,321	29,596,635	13,122,931	18,320,354	20,164,555	6,492,800	8,748,967	9,432,080
	Source of funds								
Federal Government .....	11,748,767	15,800,727	17,199,786	7,014,239	9,487,355	10,406,475	4,734,528	6,313,372	6,793,311
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 .....	3,103,783	4,189,370	4,475,944	2,069,383	2,989,688	3,231,886	1,034,400	1,199,682	1,244,058
Aeronautical and astronautical .....	207,053	250,497	240,677	120,268	179,021	167,756	86,785	71,476	72,921
Bioengineering/bio-medical .....	--	134,984	169,621	--	78,792	103,675	--	56,192	65,946
Chemical .....	272,060	347,285	372,132	184,558	253,584	270,425	87,502	93,701	101,707
Civil .....	360,628	520,466	587,120	294,006	439,658	502,214	66,622	80,808	84,906
Electrical .....	686,192	1,004,842	1,098,410	408,731	702,431	773,776	277,461	302,411	324,634
Mechanical .....	473,169	609,582	617,379	286,670	404,718	411,519	186,499	204,864	205,860
Metallurgical and materials .....	297,658	382,015	396,412	219,602	275,875	293,171	78,056	106,140	103,241
Other, n.e.c. ....	807,023	939,699	994,193	555,548	655,609	709,350	251,475	284,090	284,843
All sciences .....	16,511,948	22,879,951	25,120,691	11,053,548	15,330,666	16,932,669	5,458,400	7,549,285	8,188,022
Physical sciences .....	2,068,533	2,524,658	2,629,914	1,338,651	1,629,049	1,746,858	729,882	895,609	883,056
Astronomy .....	257,295	387,285	389,240	174,083	234,842	247,977	83,212	152,443	141,263
Chemistry .....	707,370	873,160	920,968	477,860	598,288	646,110	229,510	274,872	274,858
Physics .....	915,084	1,114,866	1,164,424	554,963	730,656	777,795	360,121	384,210	386,629
Other, n.e.c. ....	188,784	149,347	155,282	131,745	65,263	74,976	57,039	84,084	80,306
Environmental sciences ..	1,274,945	1,638,368	1,718,179	992,891	1,308,830	1,381,269	282,054	329,538	336,910
Atmospheric .....	206,215	284,790	285,841	172,958	234,514	233,092	33,257	50,276	52,749
Earth sciences .....	403,353	521,692	544,067	302,711	400,087	431,264	100,642	121,605	112,803
Oceanography .....	441,229	583,087	612,593	356,429	492,140	523,353	84,800	90,947	89,240
Other, n.e.c. ....	224,148	248,799	275,678	160,793	182,089	193,560	63,355	66,710	82,118
Mathematical sciences ...	259,192	300,960	325,720	148,313	188,382	205,426	110,879	112,578	120,294
Computer sciences .....	597,016	831,047	850,308	285,240	461,325	500,499	311,776	369,722	349,809
Life sciences .....	10,750,640	15,485,185	17,331,692	7,156,356	10,163,459	11,387,292	3,594,284	5,321,726	5,944,400
Agricultural sciences .....	1,522,235	1,975,916	2,121,246	1,477,181	1,925,122	2,065,290	45,054	50,794	55,956
Biological sciences .....	3,484,926	4,968,542	5,542,352	2,207,696	3,154,843	3,536,151	1,277,230	1,813,699	2,006,201
Medical sciences .....	5,316,035	7,995,398	8,990,581	3,224,876	4,767,407	5,364,163	2,091,159	3,227,991	3,626,418
Other, n.e.c. ....	427,444	545,329	677,513	246,603	316,087	421,688	180,841	229,242	255,825
Psychology .....	333,684	449,646	501,039	232,421	334,778	371,549	101,263	114,868	129,490
Social sciences .....	872,655	1,219,919	1,264,418	644,540	951,764	978,589	228,115	268,155	285,829
Economics .....	225,964	262,186	250,712	182,597	214,181	202,547	43,367	48,005	48,165
Political science .....	148,673	198,301	224,438	86,470	122,181	138,192	62,203	76,120	86,246
Sociology .....	176,993	259,406	289,726	130,510	195,662	216,203	46,483	63,744	73,523
Other, n.e.c. ....	321,025	500,026	499,542	244,963	419,740	421,647	76,062	80,286	77,895
Other sciences, n.e.c. ....	355,283	430,168	499,421	255,136	293,079	361,187	100,147	137,089	138,234

**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