

**Table B-16. Federally financed R&D expenditures at doctorate-granting institutions, by science and engineering field, and control: fiscal years 1993, 1999, and 2000**

[Dollars in thousands]

Field	Total			Public			Private		
	1993	1999	2000	1993	1999	2000	1993	1999	2000
Total .....	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
Engineering .....	1,830,261	2,399,182	2,520,496	1,046,833	1,479,224	1,590,289	783,428	919,958	930,207
Aeronautical and astronautical .....	154,565	173,397	164,704	83,922	111,953	104,429	70,643	61,444	60,275
Bioengineering/bio- medical .....	--	71,797	89,471	--	29,432	40,889	--	42,365	48,582
Chemical .....	141,915	177,961	193,524	88,524	117,856	128,888	53,391	60,105	64,636
Civil .....	150,217	213,364	229,312	107,668	164,952	177,712	42,549	48,412	51,600
Electrical .....	451,011	641,155	683,831	233,843	407,067	442,824	217,168	234,088	241,007
Mechanical .....	304,557	379,246	374,915	156,273	215,796	212,036	148,284	163,450	162,879
Metallurgical and materials .....	149,675	215,577	224,123	98,955	138,505	149,655	50,720	77,072	74,468
Other, n.e.c. ....	478,321	526,685	560,616	277,648	293,663	333,856	200,673	233,022	226,760
All sciences .....	9,918,506	13,401,545	14,679,290	5,967,406	8,008,131	8,816,186	3,951,100	5,393,414	5,863,104
Physical sciences .....	1,471,578	1,806,052	1,858,785	863,721	1,022,151	1,099,013	607,857	783,901	759,772
Astronomy .....	164,222	275,839	280,552	98,863	132,724	148,272	65,359	143,115	132,280
Chemistry .....	482,758	584,820	603,626	303,451	365,148	391,024	179,307	219,672	212,602
Physics .....	691,531	842,258	869,943	379,044	493,266	525,433	312,487	348,992	344,510
Other, n.e.c. ....	133,067	103,135	104,664	82,363	31,013	34,284	50,704	72,122	70,380
Environmental sciences .....	845,038	1,075,035	1,103,403	607,977	799,802	827,477	237,061	275,233	275,926
Atmospheric .....	157,249	219,782	220,528	126,672	174,167	173,388	30,577	45,615	47,140
Earth sciences .....	236,914	309,176	318,373	154,510	211,031	232,942	82,404	98,145	85,431
Oceanography .....	319,684	395,545	411,157	242,335	314,897	330,134	77,349	80,648	81,023
Other, n.e.c. ....	131,191	150,532	153,345	84,460	99,707	91,013	46,731	50,825	62,332
Mathematical sciences .....	194,878	201,399	218,831	95,206	105,261	117,056	99,672	96,138	101,775
Computer sciences .....	416,272	563,109	560,859	161,458	267,057	285,292	254,814	296,052	275,567
Life sciences .....	6,317,343	8,853,192	9,956,617	3,759,907	5,161,866	5,776,175	2,557,436	3,691,326	4,180,442
Agricultural sciences .....	423,570	511,338	538,709	409,155	497,504	523,484	14,415	13,834	15,225
Biological sciences .....	2,277,035	3,171,862	3,599,648	1,306,179	1,820,050	2,099,752	970,856	1,351,812	1,499,896
Medical sciences .....	3,364,587	4,853,538	5,436,516	1,922,846	2,691,690	2,955,556	1,441,741	2,161,848	2,480,960
Other, n.e.c. ....	252,151	316,454	381,744	121,727	152,622	197,383	130,424	163,832	184,361
Psychology .....	222,025	299,789	338,186	150,345	213,409	240,715	71,680	86,380	97,471
Social sciences .....	328,487	457,818	477,264	235,628	346,169	357,175	92,859	111,649	120,089
Economics .....	73,760	88,224	87,160	62,906	66,853	66,806	10,854	21,371	20,354
Political science .....	42,322	53,171	61,046	21,733	28,840	30,454	20,589	24,331	30,592
Sociology .....	87,903	116,508	132,236	62,339	81,084	94,091	25,564	35,424	38,145
Other, n.e.c. ....	124,502	199,915	196,822	88,650	169,392	165,824	35,852	30,523	30,998
Other sciences, n.e.c. ....	122,885	145,151	165,345	93,164	92,416	113,283	29,721	52,735	52,062

**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