

TABLE 14. Federally financed R&D expenditures at historically black colleges and universities, 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	254,338	248,688	216,510	227,616	270,212	308,744	338,016	353,476
Science	209,270	207,549	188,897	202,204	241,891	280,978	312,369	321,765
Computer sciences	13,855	12,445	13,780	12,795	18,562	12,100	12,005	10,737
Environmental sciences	11,134	11,926	8,182	9,310	10,817	9,440	20,927	36,442
Atmospheric sciences	825	1,766	1,818	3,991	1,541	2,872	10,357	24,335
Earth sciences	721	1,623	1,042	1,798	3,900	3,753	3,551	3,753
Oceanography	91	79	383	823	1,381	1,875	3,611	1,389
Environmental sciences, nec	9,497	8,458	4,939	2,698	3,995	940	3,408	6,965
Life sciences	121,976	123,460	109,349	121,781	144,236	178,037	205,514	202,392
Agricultural sciences	50,303	47,640	40,446	43,682	48,884	64,176	80,533	56,110
Biological sciences	49,229	53,175	42,388	44,857	58,771	71,006	73,374	77,030
Medical sciences	20,730	18,904	22,886	26,841	31,590	39,655	42,315	55,078
Life sciences, nec	1,714	3,741	3,629	6,401	4,991	3,200	9,292	14,174
Mathematical sciences	4,328	2,530	2,747	4,364	4,220	4,990	7,571	6,475
Physical sciences	43,101	41,314	43,851	36,250	39,981	40,902	39,728	37,072
Astronomy	7,246	4,371	4,209	3,873	1,938	1,683	2,145	1,683
Chemistry	14,014	18,752	21,215	12,850	13,226	13,835	15,418	16,003
Physics	21,511	17,979	17,920	19,521	23,913	21,900	20,853	18,745
Physical sciences, nec	330	212	507	6	904	3,484	1,312	641
Psychology	1,025	979	1,777	1,324	4,490	5,321	4,581	4,823
Social sciences	7,151	5,506	5,270	8,114	9,909	8,498	8,247	10,255
Economics	1,258	1,063	1,171	1,118	1,926	1,677	1,793	1,606
Political sciences	457	254	134	508	402	113	228	40
Sociology	2,177	2,006	1,490	3,374	3,515	3,396	3,040	3,050
Social sciences, nec	3,259	2,183	2,475	3,114	4,066	3,312	3,186	5,559
Sciences, nec	6,700	9,389	3,941	8,266	9,676	21,690	13,796	13,569
Engineering	45,068	41,139	27,613	25,412	28,321	27,766	25,647	31,711
Aeronautical/astronautical engineering	2,433	2,370	3,619	3,530	3,509	2,171	2,752	3,546
Bioengineering/biomedical engineering	159	183	56	567	469	136	110	144
Chemical engineering	4,511	3,668	2,166	2,752	3,090	2,452	2,505	2,547
Civil engineering	3,781	3,139	2,844	2,246	2,679	4,037	3,613	2,681
Electrical engineering	8,492	7,730	5,553	5,290	6,795	8,118	6,833	7,222
Mechanical engineering	15,077	14,657	7,423	6,189	6,673	5,798	4,635	7,311
Metallurgical/materials engineering	3,269	2,370	302	162	0	25	0	0
Engineering, nec	7,346	7,022	5,650	4,676	5,106	5,029	5,199	8,260

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.