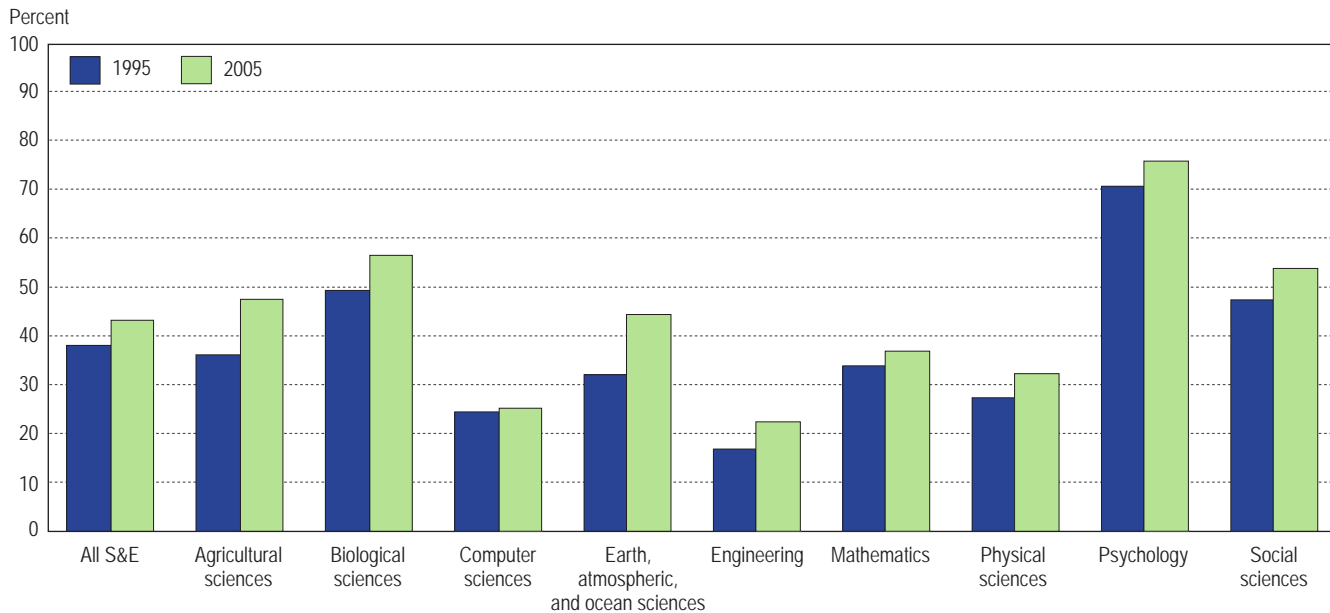


FIGURE D-1. Female share of S&E graduate students, by field: 1995 and 2005

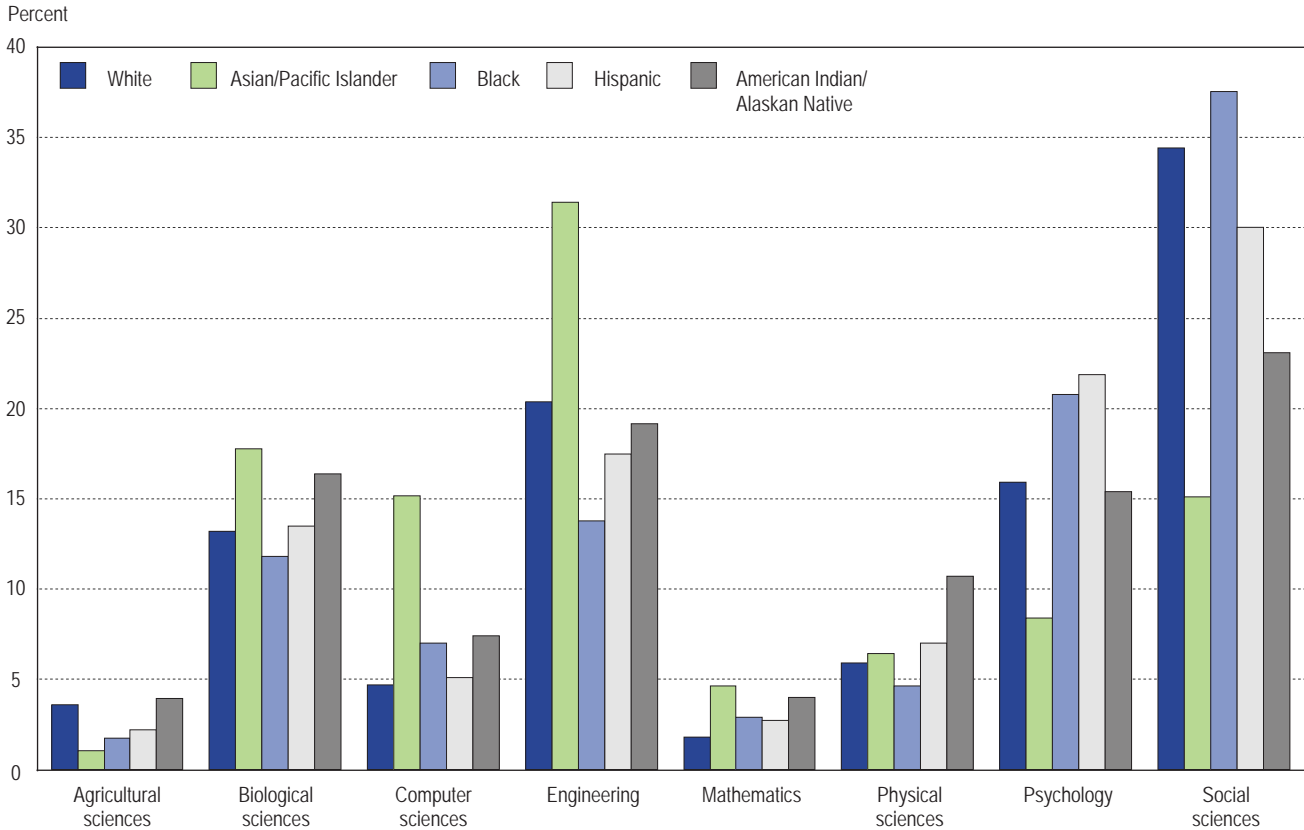


SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1995 and 2005.

Women constituted a greater percentage of graduate students in S&E in 2005 (43%) than in 1995 (38%).

- Women accounted for more than half of all graduate students in some science fields. In 2005, women made up 76% of the graduate students in psychology, 56% in biological sciences, and 54% in social sciences.
- Women accounted for 22% of graduate students in engineering and 25% of graduate students in computer sciences in 2005.
- Roughly 35%–45% of the graduate students in most other science fields were female.
- Women made the most gains between 1995 and 2005 in agricultural sciences and earth, atmospheric, and ocean sciences and the least gain in computer sciences.

FIGURE D-2. Field distribution of S&E graduate students, by race/ethnicity: 2005



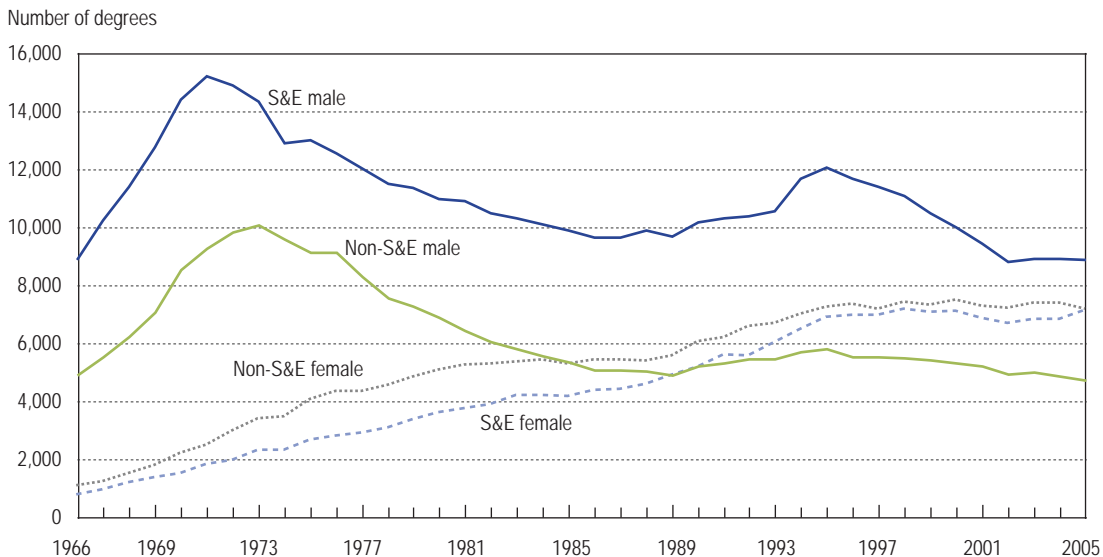
NOTES: Data are for U.S. citizens and permanent residents only. Physical sciences include earth, atmospheric, and ocean sciences.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2005.

Asian/Pacific Islander S&E graduate students are distributed among S&E fields differently from graduate students of other groups.

- In 2005, 50% or more of black, Hispanic, and American Indian/Alaska Native graduate students and 39% of white students were in psychology or social sciences, compared to 24% of Asian/Pacific Islander students.
- Larger percentages of Asian/Pacific Islander graduate students than of other groups were in computer sciences and engineering.

FIGURE F-1. Doctoral degrees awarded in S&E and non-S&E fields to U.S. citizens and permanent residents, by sex: 1966-2005

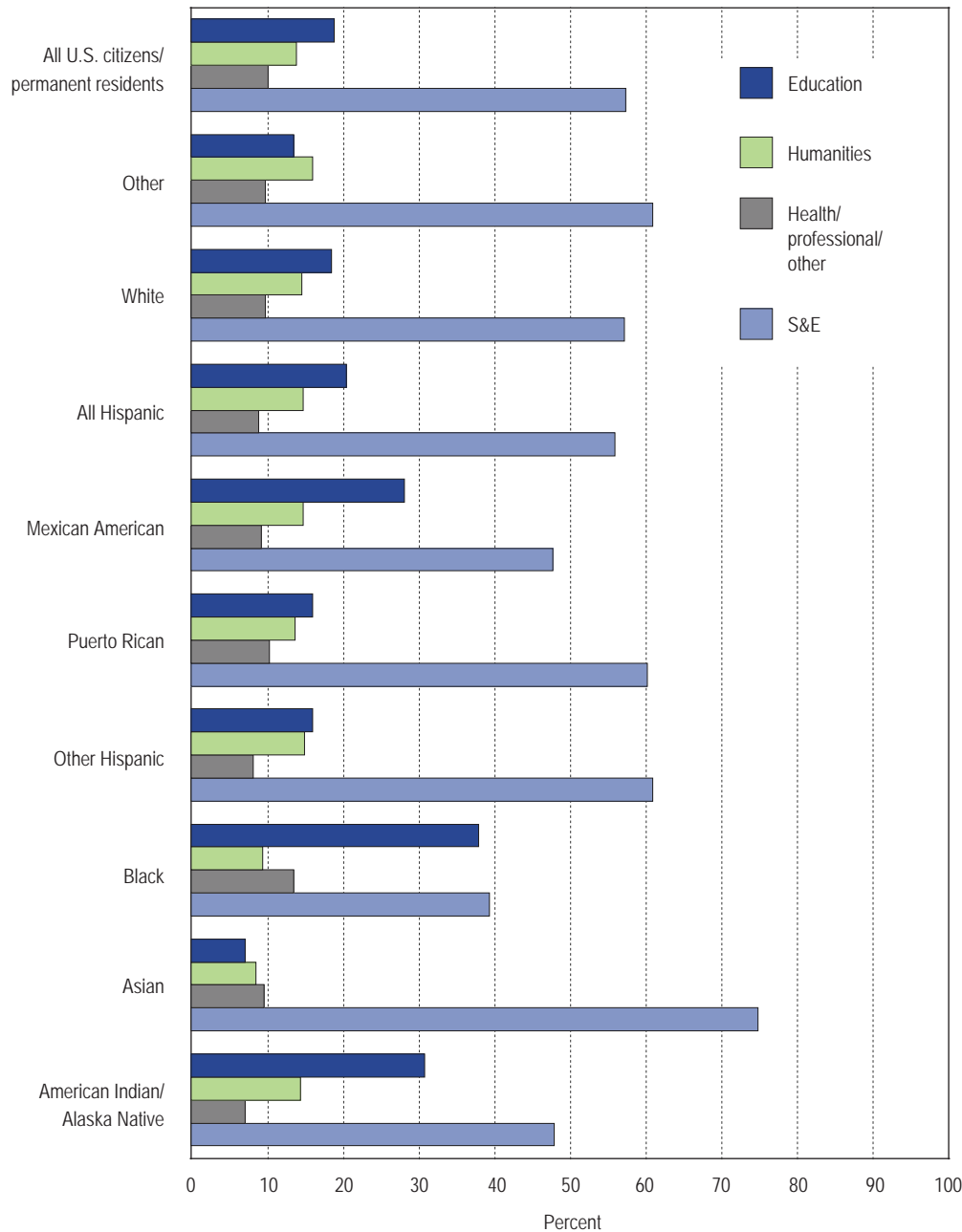


SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1966-2005.

Both the number of U.S. citizen and permanent resident women earning doctoral degrees and their percentage of total awards in S&E and non-S&E fields rose between 1966 and 2005.

- The number of U.S. citizen and permanent resident women earning S&E doctorates rose from 785 in 1966 to 6,913 in 1995 and remained at approximately 7,000 doctorates per year through 2005.
- The number of U.S. citizen and permanent resident men earning S&E doctoral degrees dropped from 1971 through the late 1980s and again from 1995 through 2002.
- By 2005, women earned 45% of S&E and 61% of non-S&E doctoral degrees to U.S. citizens and permanent residents, up from 8% and 18%, respectively, in 1966.

FIGURE F-2. Field distribution of S&E and non-S&E doctoral degrees awarded to U.S. citizens and permanent residents, by race/ethnicity: 2005



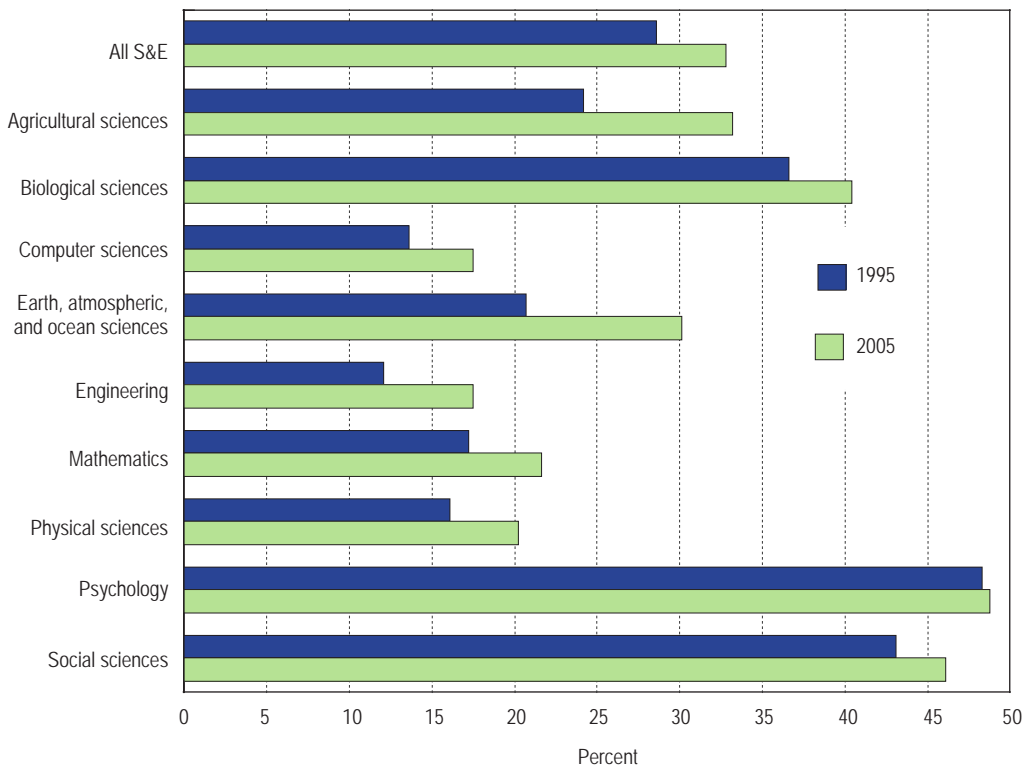
NOTE: Hispanic total includes Puerto Rican, Mexican American, and other Hispanic.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2005.

The proportion of all doctorates earned in S&E fields varies considerably across racial/ethnic groups.

- More than half of all doctorates awarded to U.S. citizens and permanent residents were earned in S&E fields in 2005.
- Among blacks, more than half of the doctorates earned in 2005 were in non-S&E fields, primarily education.
- In contrast, 75% of doctorates earned by Asians were in S&E fields and 7% were in education in 2005.

FIGURE G-1. Female share of S&E postdoctoral fellows, by field: 1995 and 2005



SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1995 and 2005.

Women accounted for one-third of S&E postdocs in S&E in 2005, up from 29% in 1995.

- Almost half (49%) of psychology postdocs, 46% of social sciences postdocs, and 40% of biological sciences postdocs were women.
- Roughly 20% or less of postdocs in computer sciences, engineering, mathematics, and physical sciences were women.

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
All S&E graduate students	404,856	411,182	413,536	429,242	454,847	474,694	476,195	478,782
Science	304,818	309,491	309,424	319,749	335,179	347,317	352,629	358,309
Agricultural sciences	12,168	12,312	12,023	12,235	12,698	13,197	13,445	13,123
Biological sciences	56,695	56,959	56,282	57,639	61,088	64,701	66,548	68,449
Anatomy	785	749	795	735	906	908	897	938
Biochemistry	5,148	5,101	4,966	4,917	5,190	5,552	5,612	5,814
Biology	14,277	13,989	13,407	13,352	13,822	14,770	15,458	15,668
Biometry and epidemiology	3,514	3,704	3,615	3,817	4,071	4,439	4,674	4,805
Biophysics	737	710	751	877	953	1,032	1,180	1,183
Botany	2,042	1,974	1,904	1,921	1,973	1,901	1,831	1,860
Cell and molecular biology	4,379	4,637	4,820	4,911	5,375	5,689	5,830	6,177
Ecology	1,670	1,704	1,762	1,888	1,967	2,230	2,185	2,165
Entomology and parasitology	1,168	1,145	1,104	1,170	1,191	1,206	1,241	1,126
Genetics	1,727	1,783	1,712	1,841	1,909	2,073	2,129	2,155
Microbiology, immunology, and virology	4,773	4,815	4,814	4,798	5,208	5,256	5,375	5,401
Nutrition	4,486	4,508	4,413	4,429	4,539	4,695	4,771	4,817
Pathology	1,580	1,580	1,531	1,637	1,613	1,541	1,540	1,576
Pharmacology	2,730	2,757	2,963	3,140	3,234	3,357	3,122	3,114
Physiology	2,151	2,083	2,015	1,967	2,076	2,328	2,409	2,399
Zoology	1,586	1,523	1,445	1,411	1,349	1,301	1,236	1,264
Other	3,942	4,197	4,265	4,828	5,712	6,423	7,058	7,987
Computer sciences	38,027	42,478	47,350	52,196	55,269	53,696	50,016	48,046
Earth, atmospheric, and ocean sciences	14,258	14,083	13,941	13,841	14,240	14,620	15,131	14,827
Atmospheric	965	913	963	924	1,036	1,150	1,086	1,146
Earth	6,687	6,637	6,596	6,544	6,712	6,889	7,358	7,212
Ocean	2,562	2,624	2,668	2,585	2,618	2,695	2,801	2,760
Other	4,044	3,909	3,714	3,788	3,874	3,886	3,886	3,709
Mathematics and statistics	16,485	16,257	15,650	16,651	18,163	19,465	19,931	20,210
Mathematics/applied mathematics	13,827	13,521	12,823	13,569	14,702	15,569	15,964	16,106
Statistics	2,658	2,736	2,827	3,082	3,461	3,896	3,967	4,104
Physical sciences	30,575	30,691	30,385	31,038	32,341	34,298	35,761	36,396
Astronomy	820	832	888	916	990	1,080	1,119	1,191
Chemistry	18,482	18,416	18,105	18,366	19,045	20,049	20,776	21,122
Physics	10,809	10,869	10,841	11,248	11,701	12,555	13,298	13,472
Other	464	574	551	508	605	614	568	611
Psychology	52,557	51,727	50,466	50,467	51,165	52,211	54,218	57,412
Clinical	12,733	12,798	12,488	12,488	12,609	13,118	13,771	14,283
General	17,098	16,238	15,624	15,837	15,159	15,580	16,276	16,786
Nonclinical	22,726	22,691	22,354	22,142	23,397	23,513	24,171	26,343
Social sciences	84,053	84,984	83,327	85,682	90,215	95,129	97,579	99,846
Agricultural economics	1,995	2,014	2,079	2,161	2,187	2,318	2,195	2,118
Anthropology (cultural and social)	7,577	7,633	7,626	7,491	7,481	7,789	7,826	7,706
Economics	10,701	10,562	10,748	11,408	12,009	12,316	12,318	11,805
Geography	4,326	4,250	4,036	4,304	4,383	4,721	4,809	4,772
History and philosophy of science	508	557	532	571	663	737	994	965
Linguistics	2,935	2,799	2,674	2,744	2,875	3,028	2,941	3,187
Political science and public administration	30,828	31,372	31,131	31,805	34,934	36,880	39,270	41,106
Sociology	9,058	8,966	8,652	8,812	8,946	9,127	8,874	9,037
Other	16,125	16,831	15,849	16,386	16,737	18,213	18,352	19,150
Engineering	100,038	101,691	104,112	109,493	119,668	127,377	123,566	120,473
Aerospace	3,137	3,349	3,407	3,451	3,685	4,048	4,089	4,170
Agricultural	975	986	943	947	952	1,058	1,041	1,059
Biomedical	2,855	3,069	3,197	3,599	4,338	5,301	5,807	6,067
Chemical	7,093	6,883	7,056	6,913	7,414	7,516	7,452	7,173
Civil	16,517	16,226	16,451	16,665	17,713	18,890	18,561	18,050
Electrical	31,384	31,822	33,611	36,100	39,948	41,763	38,995	37,444
Engineering science/physics	1,701	1,627	1,632	1,798	2,121	2,240	2,198	1,951
Industrial/manufacturing	11,221	11,803	12,119	12,940	14,033	14,313	13,852	13,614
Mechanical	14,696	14,956	15,235	15,852	17,139	18,393	17,852	17,387

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Metallurgical and materials	4,680	4,481	4,377	4,721	4,992	5,131	5,059	5,160
Mining	304	328	287	240	267	278	308	279
Nuclear	821	830	792	801	795	885	971	1,013
Petroleum	571	642	627	656	766	849	845	808
Other	4,083	4,689	4,378	4,810	5,505	6,712	6,536	6,298
U.S. citizens and permanent residents	302,879	301,254	290,711	294,711	309,235	327,358	332,624	339,550
Science	240,630	241,066	234,000	237,740	247,873	259,965	266,168	272,912
Agricultural sciences	9,514	9,774	9,612	9,722	10,085	10,601	10,750	10,474
Biological sciences	45,359	45,770	44,521	45,205	47,262	49,865	50,755	52,047
Anatomy	630	596	618	559	707	705	718	750
Biochemistry	3,695	3,646	3,377	3,332	3,459	3,655	3,615	3,725
Biology	12,197	11,997	11,353	11,159	11,377	12,201	12,678	12,674
Biometry and epidemiology	2,835	2,953	2,794	2,914	2,972	3,243	3,462	3,603
Biophysics	571	556	547	614	654	713	805	808
Botany	1,436	1,386	1,320	1,347	1,355	1,317	1,229	1,195
Cell and molecular biology	3,482	3,739	3,789	3,778	4,113	4,257	4,205	4,489
Ecology	1,498	1,530	1,576	1,694	1,749	1,958	1,913	1,916
Entomology and parasitology	877	843	824	895	908	920	938	844
Genetics	1,331	1,400	1,335	1,408	1,485	1,558	1,577	1,590
Microbiology, immunology, and virology	3,813	3,872	3,879	3,794	4,011	4,113	4,147	4,181
Nutrition	3,415	3,444	3,297	3,269	3,377	3,495	3,599	3,674
Pathology	1,292	1,285	1,230	1,344	1,314	1,210	1,224	1,236
Pharmacology	2,154	2,188	2,338	2,492	2,554	2,584	2,318	2,261
Physiology	1,713	1,629	1,569	1,536	1,622	1,807	1,890	1,933
Zoology	1,396	1,364	1,271	1,210	1,130	1,121	1,054	1,053
Other	3,024	3,342	3,404	3,860	4,475	5,008	5,383	6,115
Computer sciences	23,605	25,323	25,088	26,142	28,203	29,420	28,286	27,555
Earth, atmospheric, and ocean sciences	11,759	11,563	11,249	11,059	11,472	11,845	12,344	12,066
Atmospheric	710	639	659	639	730	869	819	863
Earth	5,443	5,413	5,294	5,189	5,333	5,456	5,906	5,785
Ocean	2,029	2,108	2,142	2,071	2,152	2,206	2,304	2,270
Other	3,577	3,403	3,154	3,160	3,257	3,314	3,315	3,148
Mathematics and statistics	11,064	10,330	9,593	10,167	11,139	12,057	12,560	12,814
Mathematics/applied mathematics	9,447	8,861	8,146	8,722	9,488	10,264	10,667	10,856
Statistics	1,617	1,469	1,447	1,445	1,651	1,793	1,893	1,958
Physical sciences	19,837	19,559	18,730	18,835	19,251	20,213	21,206	21,780
Astronomy	607	593	617	633	687	747	749	828
Chemistry	12,457	12,331	11,883	11,797	11,792	12,210	12,685	12,905
Physics	6,379	6,140	5,757	5,991	6,259	6,744	7,280	7,506
Other	394	495	473	414	513	512	492	541
Psychology	50,371	49,488	48,203	47,946	48,308	49,099	51,045	54,384
Clinical	12,370	12,402	12,098	12,060	12,014	12,499	13,337	13,794
General	16,403	15,518	14,812	14,903	14,177	14,472	14,901	15,635
Nonclinical	21,598	21,568	21,293	20,983	22,117	22,128	22,807	24,955
Social sciences	69,121	69,259	67,004	68,664	72,153	76,865	79,222	81,792
Agricultural economics	1,091	1,089	1,065	1,109	1,141	1,221	1,202	1,162
Anthropology (cultural and social)	6,838	6,810	6,797	6,722	6,634	6,967	6,966	6,861
Economics	5,461	5,029	4,941	5,124	5,389	5,699	5,736	5,428
Geography	3,767	3,652	3,408	3,579	3,636	3,937	4,019	3,991
History and philosophy of science	441	498	463	501	595	668	925	886
Linguistics	1,912	1,837	1,714	1,782	1,893	2,065	1,936	2,257
Political science and public administration	27,276	27,453	26,972	27,582	30,280	32,003	34,318	36,234
Sociology	7,949	7,790	7,397	7,505	7,625	7,782	7,606	7,738
Other	14,386	15,101	14,247	14,760	14,960	16,523	16,514	17,235
Engineering	62,249	60,188	56,711	56,971	61,362	67,393	66,456	66,638
Aerospace	1,720	1,817	1,894	1,805	1,999	2,361	2,401	2,528
Agricultural	556	562	546	530	529	568	556	538
Biomedical	2,140	2,218	2,248	2,470	2,822	3,397	3,675	3,928

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Chemical	4,208	3,869	3,726	3,418	3,701	3,753	3,768	3,690
Civil	11,555	10,801	10,306	10,072	10,553	11,458	11,436	11,417
Electrical	17,459	16,517	15,315	15,534	16,579	18,118	16,878	16,706
Engineering science/physics	1,149	1,093	955	1,054	1,239	1,230	1,187	1,096
Industrial/manufacturing	7,869	8,073	7,574	7,607	8,318	8,845	8,783	9,065
Mechanical	9,046	8,760	8,097	8,183	8,604	9,643	9,766	9,744
Metallurgical and materials	2,670	2,438	2,265	2,385	2,482	2,546	2,501	2,518
Mining	228	219	155	136	165	167	189	161
Nuclear	527	498	457	445	464	532	616	674
Petroleum	123	148	265	267	298	174	194	192
Other	2,999	3,175	2,908	3,065	3,609	4,601	4,506	4,381
White	220,667	216,750	205,569	206,027	213,144	222,709	225,039	226,137
Science	176,569	174,687	166,486	167,568	172,585	179,240	181,804	183,301
Agricultural sciences	8,093	8,383	8,152	8,147	8,486	8,799	8,936	8,662
Biological sciences	34,323	34,319	33,255	33,193	34,568	35,809	36,057	36,635
Anatomy	484	447	470	440	507	503	491	523
Biochemistry	2,742	2,665	2,532	2,373	2,509	2,515	2,573	2,582
Biology	9,122	8,929	8,447	8,309	8,468	8,921	9,152	9,120
Biometry and epidemiology	1,911	2,022	1,851	1,920	1,964	2,155	2,237	2,227
Biophysics	377	383	374	425	460	502	586	562
Botany	1,210	1,189	1,133	1,122	1,087	1,065	968	966
Cell and molecular biology	2,626	2,773	2,708	2,628	2,816	2,860	2,876	2,986
Ecology	1,325	1,363	1,360	1,466	1,507	1,634	1,597	1,593
Entomology and parasitology	778	757	733	764	794	800	816	713
Genetics	1,063	1,022	977	1,029	1,084	1,107	1,132	1,164
Microbiology, immunology, and virology	2,849	2,791	2,799	2,658	2,814	2,832	2,865	2,857
Nutrition	2,647	2,667	2,566	2,445	2,546	2,575	2,569	2,604
Pathology	961	926	906	962	937	834	863	879
Pharmacology	1,568	1,589	1,731	1,779	1,795	1,809	1,567	1,514
Physiology	1,220	1,119	1,064	1,035	1,086	1,210	1,218	1,264
Zoology	1,216	1,240	1,147	1,088	1,006	985	932	922
Other	2,224	2,437	2,457	2,750	3,188	3,502	3,615	4,159
Computer sciences	13,948	14,377	14,468	15,057	15,962	17,260	16,954	16,595
Earth, atmospheric, and ocean sciences	10,098	10,007	9,812	9,573	9,799	9,963	10,342	10,120
Atmospheric	601	552	557	547	623	713	663	697
Earth	4,776	4,796	4,720	4,603	4,639	4,691	5,111	5,010
Ocean	1,732	1,815	1,872	1,769	1,845	1,871	1,933	1,896
Other	2,989	2,844	2,663	2,654	2,692	2,688	2,635	2,517
Mathematics and statistics	8,097	7,659	6,955	7,386	7,923	8,414	8,859	8,915
Mathematics/applied mathematics	6,899	6,560	5,905	6,313	6,758	7,130	7,601	7,661
Statistics	1,198	1,099	1,050	1,073	1,165	1,284	1,258	1,254
Physical sciences	15,218	15,037	14,343	14,248	14,620	15,107	15,725	16,327
Astronomy	507	511	523	527	570	610	631	677
Chemistry	9,484	9,394	9,028	8,977	8,926	8,955	9,170	9,463
Physics	4,967	4,840	4,514	4,485	4,789	5,209	5,600	5,765
Other	260	292	278	259	335	333	324	422
Psychology	37,622	36,267	33,801	33,578	33,473	33,587	33,655	34,479
Clinical	9,353	9,212	8,662	8,361	8,185	8,472	8,636	8,618
General	12,302	11,548	10,582	10,639	10,200	10,115	10,154	10,707
Nonclinical	15,967	15,507	14,557	14,578	15,088	15,000	14,865	15,154
Social sciences	49,170	48,638	45,700	46,386	47,754	50,301	51,276	51,568
Agricultural economics	860	881	866	888	914	998	965	912
Anthropology (cultural and social)	5,549	5,440	5,311	5,190	5,153	5,316	5,258	5,077
Economics	3,828	3,595	3,448	3,504	3,567	3,780	3,854	3,713
Geography	3,211	3,131	2,906	3,048	3,068	3,255	3,314	3,255
History and philosophy of science	380	424	386	414	426	514	700	679
Linguistics	1,404	1,375	1,237	1,293	1,335	1,418	1,349	1,540
Political science and public administration	18,526	18,317	17,401	17,635	18,785	19,525	20,566	21,115

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Sociology	5,455	5,304	4,982	5,095	5,081	5,132	5,030	5,032
Other	9,957	10,171	9,163	9,319	9,425	10,363	10,240	10,245
Engineering	44,098	42,063	39,083	38,459	40,559	43,469	43,235	42,836
Aerospace	1,391	1,437	1,451	1,434	1,512	1,747	1,791	1,844
Agricultural	434	454	429	402	427	464	463	441
Biomedical	1,592	1,633	1,602	1,668	1,894	2,163	2,314	2,424
Chemical	3,124	2,805	2,627	2,417	2,565	2,554	2,666	2,561
Civil	8,665	8,088	7,759	7,492	7,707	8,333	8,270	8,139
Electrical	10,729	9,897	8,982	8,876	9,121	9,709	9,444	9,144
Engineering science/physics	843	787	673	717	893	928	865	793
Industrial/manufacturing	5,764	5,761	5,329	5,255	5,668	5,680	5,484	5,632
Mechanical	6,657	6,491	6,005	5,932	6,254	6,883	6,998	6,898
Metallurgical and materials	2,079	1,935	1,751	1,839	1,882	1,909	1,815	1,859
Mining	151	162	133	115	136	138	157	121
Nuclear	449	424	382	364	383	439	492	534
Petroleum	101	124	110	112	121	125	123	114
Other	2,119	2,065	1,850	1,836	1,996	2,397	2,353	2,332
Asian/Pacific Islander	26,726	27,570	25,058	26,584	29,332	31,921	30,881	30,852
Science	18,714	19,409	17,784	18,577	19,948	21,151	21,097	21,185
Agricultural sciences	315	310	250	262	286	316	329	300
Biological sciences	4,439	4,476	4,246	4,710	4,835	5,158	5,300	5,461
Anatomy	64	71	74	63	92	91	100	92
Biochemistry	527	541	423	477	412	466	444	458
Biology	817	793	721	725	731	819	905	877
Biometry and epidemiology	357	387	424	444	497	488	554	581
Biophysics	90	100	101	129	119	126	113	131
Botany	82	73	73	94	119	108	94	76
Cell and molecular biology	467	496	508	527	584	601	563	668
Ecology	50	45	42	47	43	55	51	53
Entomology and parasitology	37	19	24	46	27	29	34	28
Genetics	128	161	109	147	168	193	185	182
Microbiology, immunology, and virology	444	412	417	479	467	492	487	487
Nutrition	269	255	224	254	246	299	304	338
Pathology	166	180	155	181	188	183	181	159
Pharmacology	299	288	289	365	374	341	305	307
Physiology	265	276	268	288	309	331	383	372
Zoology	48	33	27	32	29	31	40	35
Other	329	346	367	412	430	505	557	617
Computer sciences	5,219	6,144	5,332	5,427	5,953	5,767	5,118	4,671
Earth, atmospheric, and ocean sciences	424	400	351	341	355	363	436	415
Atmospheric	55	41	41	26	31	54	59	58
Earth	153	144	132	139	149	126	149	136
Ocean	62	67	64	51	64	48	69	65
Other	154	148	114	125	111	135	159	156
Mathematics and statistics	1,174	1,002	948	985	1,184	1,364	1,335	1,419
Mathematics/applied mathematics	939	799	742	826	958	1,124	1,032	1,062
Statistics	235	203	206	159	226	240	303	357
Physical sciences	1,760	1,682	1,524	1,458	1,424	1,619	1,735	1,706
Astronomy	32	31	33	36	44	53	38	46
Chemistry	1,179	1,133	1,079	983	950	1,103	1,170	1,135
Physics	528	490	393	422	405	431	502	503
Other	21	28	19	17	25	32	25	22
Psychology	2,019	2,038	2,063	2,176	2,186	2,376	2,447	2,569
Clinical	553	579	569	578	554	610	671	672
General	703	675	712	739	674	793	813	869
Nonclinical	763	784	782	859	958	973	963	1,028

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Social sciences	3,364	3,357	3,070	3,218	3,725	4,188	4,397	4,644
Agricultural economics	54	53	30	29	39	39	45	43
Anthropology (cultural and social)	241	256	260	253	252	283	294	305
Economics	611	597	476	495	584	655	618	593
Geography	87	101	85	99	114	140	144	153
History and philosophy of science	22	20	20	21	28	29	48	36
Linguistics	187	148	106	154	183	215	176	247
Political science and public administration	1,180	1,163	1,206	1,225	1,489	1,622	1,803	1,975
Sociology	405	398	352	360	375	443	394	401
Other	577	621	535	582	661	762	875	891
Engineering	8,012	8,161	7,274	8,007	9,384	10,770	9,784	9,667
Aerospace	140	153	206	138	186	207	212	251
Agricultural	44	41	38	45	40	36	47	37
Biomedical	267	308	361	426	495	643	742	802
Chemical	469	486	501	494	566	557	468	508
Civil	1,104	931	744	771	855	1,024	997	1,006
Electrical	3,443	3,491	3,119	3,454	4,079	4,606	3,823	3,788
Engineering science/physics	187	170	103	123	161	152	163	143
Industrial/manufacturing	643	784	628	686	878	1,023	949	1,046
Mechanical	973	1,008	804	945	912	1,035	1,015	987
Metallurgical and materials	272	240	246	244	298	316	346	315
Mining	57	50	11	12	21	5	6	6
Nuclear	36	22	24	27	31	30	42	47
Petroleum	7	11	38	39	44	12	24	21
Other	370	466	451	603	818	1,124	950	710
Black	19,651	20,273	20,834	21,459	22,672	24,174	24,684	25,346
Science	16,830	17,308	17,857	18,544	19,598	20,962	21,285	21,876
Agricultural sciences	344	310	292	327	375	460	394	417
Biological sciences	2,141	2,218	2,241	2,351	2,479	2,757	2,893	2,980
Anatomy	30	31	31	20	37	37	50	48
Biochemistry	143	140	144	129	123	159	156	169
Biology	741	744	745	755	690	796	783	791
Biometry and epidemiology	174	188	164	176	201	229	263	282
Biophysics	18	17	17	17	18	17	23	24
Botany	28	22	16	24	29	26	18	17
Cell and molecular biology	126	114	135	143	160	168	186	176
Ecology	17	22	24	26	24	43	27	28
Entomology and parasitology	11	17	14	15	17	15	11	14
Genetics	51	55	57	56	60	75	68	70
Microbiology, immunology, and virology	172	186	191	178	218	245	244	255
Nutrition	213	218	208	231	252	246	294	270
Pathology	44	49	44	51	52	56	59	67
Pharmacology	136	151	147	169	173	185	193	184
Physiology	95	78	102	98	94	102	105	97
Zoology	14	16	13	10	16	11	11	12
Other	128	170	189	253	315	347	402	476
Computer sciences	1,355	1,485	1,512	1,709	1,898	1,951	1,802	1,761
Earth, atmospheric, and ocean sciences	202	213	220	227	266	270	261	262
Atmospheric	8	7	18	19	25	32	36	30
Earth	59	62	56	57	64	75	84	82
Ocean	25	28	28	31	36	35	30	37
Other	110	116	118	120	141	128	111	113
Mathematics and statistics	613	594	572	590	626	655	696	721
Mathematics/applied mathematics	561	543	509	525	546	561	583	617
Statistics	52	51	63	65	80	94	113	104
Physical sciences	913	903	918	875	893	939	995	1,008
Astronomy	9	9	9	12	10	9	10	10
Chemistry	635	633	650	631	636	663	713	694

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Physics	242	234	235	211	220	236	248	272
Other	27	27	24	21	27	31	24	32
Psychology	3,813	3,749	4,214	4,347	4,491	4,692	5,001	5,251
Clinical	725	710	756	740	786	853	894	874
General	1,507	1,405	1,463	1,489	1,532	1,573	1,828	1,682
Nonclinical	1,581	1,634	1,995	2,118	2,173	2,266	2,279	2,695
Social sciences	7,449	7,836	7,888	8,118	8,570	9,238	9,243	9,476
Agricultural economics	70	84	80	76	83	78	52	65
Anthropology (cultural and social)	266	291	270	274	248	276	272	277
Economics	317	291	317	314	322	363	382	319
Geography	108	92	86	114	112	141	150	160
History and philosophy of science	12	14	14	16	24	25	30	42
Linguistics	46	49	44	47	44	49	47	64
Political science and public administration	3,795	4,097	4,073	4,264	4,632	4,849	4,968	5,000
Sociology	1,114	1,061	984	1,001	1,032	1,080	1,032	1,086
Other	1,721	1,857	2,020	2,012	2,073	2,377	2,310	2,463
Engineering	2,821	2,965	2,977	2,915	3,074	3,212	3,399	3,470
Aerospace	34	52	57	45	51	59	68	73
Agricultural	32	27	26	30	27	30	23	25
Biomedical	81	100	111	118	141	156	191	192
Chemical	185	147	168	167	160	173	169	146
Civil	410	450	448	431	453	428	453	456
Electrical	874	886	830	812	846	812	850	843
Engineering science/physics	39	35	34	33	36	42	38	36
Industrial/manufacturing	465	541	557	591	616	685	714	764
Mechanical	412	375	396	354	358	382	369	411
Metallurgical and materials	75	92	94	107	112	110	105	102
Mining	1	1	5	1	1	2	5	3
Nuclear	13	15	17	13	11	12	20	21
Petroleum	5	5	7	4	6	11	21	31
Other	195	239	227	209	256	310	373	367
Hispanic	15,487	16,520	17,203	17,974	19,634	21,244	22,277	23,481
Science	12,587	13,596	14,185	14,791	16,173	17,265	18,113	19,391
Agricultural sciences	391	422	440	425	406	490	524	506
Biological sciences	2,053	2,185	2,183	2,338	2,585	2,830	2,998	3,146
Anatomy	15	26	24	21	38	42	38	41
Biochemistry	141	152	144	171	184	229	212	243
Biology	691	676	708	700	786	807	832	876
Biometry and epidemiology	159	164	167	149	170	196	195	193
Biophysics	14	17	14	20	20	28	30	37
Botany	54	47	36	42	47	38	63	49
Cell and molecular biology	122	153	157	181	213	225	242	280
Ecology	43	41	51	58	59	54	65	71
Entomology and parasitology	26	27	31	39	35	41	38	47
Genetics	53	59	57	68	67	61	62	63
Microbiology, immunology, and virology	187	201	196	220	243	272	295	307
Nutrition	172	186	152	162	167	201	245	204
Pathology	42	56	54	67	62	63	61	58
Pharmacology	88	92	112	116	127	134	143	145
Physiology	70	84	65	60	66	81	94	104
Zoology	36	31	28	29	28	32	28	36
Other	140	173	187	235	273	326	355	392
Computer sciences	754	865	863	894	1,004	1,101	1,143	1,202
Earth, atmospheric, and ocean sciences	370	400	355	397	413	484	537	507
Atmospheric	13	7	12	15	16	21	27	36
Earth	137	154	136	155	163	187	217	206
Ocean	108	132	113	137	131	158	161	150
Other	112	107	94	90	103	118	132	115

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Mathematics and statistics	454	447	460	482	542	604	625	633
Mathematics/applied mathematics	404	399	413	442	494	538	551	565
Statistics	50	48	47	40	48	66	74	68
Physical sciences	832	895	844	896	981	1,094	1,232	1,240
Astronomy	12	13	17	17	17	25	23	27
Chemistry	562	618	602	629	668	750	837	821
Physics	226	229	202	239	274	297	343	358
Other	32	35	23	11	22	22	29	34
Psychology	3,228	3,567	4,145	4,309	4,655	4,680	4,800	5,119
Clinical	1,119	1,182	1,403	1,492	1,588	1,624	1,737	1,761
General	911	931	969	1,006	926	987	1,035	1,186
Nonclinical	1,198	1,454	1,773	1,811	2,141	2,069	2,028	2,172
Social sciences	4,505	4,815	4,895	5,050	5,587	5,982	6,254	7,038
Agricultural economics	42	36	39	40	30	42	50	54
Anthropology (cultural and social)	344	327	368	383	409	436	453	470
Economics	276	247	238	306	332	369	359	336
Geography	98	111	103	107	123	151	143	153
History and philosophy of science	12	22	17	18	55	38	56	60
Linguistics	150	135	142	126	140	136	148	163
Political science and public administration	1,989	2,166	2,303	2,223	2,587	2,749	3,012	3,370
Sociology	602	641	607	608	655	664	636	664
Other	992	1,130	1,078	1,239	1,256	1,397	1,397	1,768
Engineering	2,900	2,924	3,018	3,183	3,461	3,979	4,164	4,090
Aerospace	76	80	80	71	92	119	118	116
Agricultural	15	17	23	28	22	14	8	13
Biomedical	80	85	91	101	114	155	180	192
Chemical	179	182	182	180	206	249	249	240
Civil	723	701	776	747	778	846	898	896
Electrical	812	769	717	825	941	1,094	1,097	1,090
Engineering science/physics	42	44	36	40	47	49	45	43
Industrial/manufacturing	364	426	439	469	477	562	629	579
Mechanical	389	388	366	407	450	537	566	575
Metallurgical and materials	84	75	84	80	79	98	99	106
Mining	4	2	2	3	3	3	10	9
Nuclear	22	28	30	34	26	31	28	38
Petroleum	6	5	59	63	57	13	15	17
Other	104	122	133	135	169	209	222	176
American Indian/Alaska Native	1,607	1,553	1,602	1,683	1,734	1,879	1,863	2,124
Science	1,371	1,311	1,394	1,456	1,490	1,575	1,585	1,695
Agricultural sciences	71	69	56	58	76	77	82	76
Biological sciences	191	186	189	205	210	236	249	278
Anatomy	3	3	4	3	2	4	2	2
Biochemistry	13	6	8	15	8	11	10	15
Biology	51	59	58	52	50	56	54	68
Biometry and epidemiology	7	7	11	11	14	16	15	15
Biophysics	1	1	1	1	2	1	7	3
Botany	3	4	3	9	10	10	10	8
Cell and molecular biology	11	9	13	11	12	14	18	23
Ecology	5	5	5	8	6	10	12	11
Entomology and parasitology	3	1	1	2	5	4	6	9
Genetics	4	4	6	7	7	12	13	10
Microbiology, immunology, and virology	18	15	21	13	24	14	18	16
Nutrition	16	15	13	15	14	13	9	15
Pathology	10	7	6	11	3	3	5	8
Pharmacology	6	14	8	10	15	19	21	20
Physiology	10	8	3	7	8	11	13	12
Zoology	9	7	7	8	6	8	7	10
Other	21	21	21	22	24	30	29	33

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Computer sciences	92	74	80	87	83	104	92	100
Earth, atmospheric, and ocean sciences	84	63	61	70	81	63	67	61
Atmospheric	2	2	3	4	4	5	4	3
Earth	36	26	27	32	36	26	33	29
Ocean	16	12	10	12	11	8	11	11
Other	30	23	21	22	30	24	19	18
Mathematics and statistics	34	30	25	38	24	25	39	38
Mathematics/applied mathematics	30	26	20	34	20	24	39	34
Statistics	4	4	5	4	4	1	0	4
Physical sciences	64	69	75	81	83	79	78	82
Astronomy	2	2	1	0	2	3	3	5
Chemistry	46	53	61	62	58	51	54	53
Physics	14	13	12	19	22	24	18	20
Other	2	1	1	0	1	1	3	4
Psychology	311	300	360	334	320	324	324	334
Clinical	112	93	104	92	101	107	92	88
General	93	96	124	104	87	93	104	99
Nonclinical	106	111	132	138	132	124	128	147
Social sciences	524	520	548	583	613	667	654	726
Agricultural economics	5	7	7	4	4	7	26	23
Anthropology (cultural and social)	119	105	109	102	89	99	106	123
Economics	16	13	17	21	28	31	30	19
Geography	13	14	20	28	26	22	24	34
History and philosophy of science	1	2	2	2	2	5	7	5
Linguistics	9	15	13	13	12	16	17	17
Political science and public administration	172	177	175	192	217	241	219	251
Sociology	68	66	68	66	68	65	56	62
Other	121	121	137	155	167	181	169	192
Engineering	236	242	208	227	244	304	278	429
Aerospace	7	8	8	8	11	15	16	13
Agricultural	4	1	3	3	2	2	1	3
Biomedical	7	8	5	5	6	7	15	13
Chemical	21	16	20	13	21	19	27	24
Civil	43	56	39	43	58	65	51	52
Electrical	33	47	37	45	39	63	54	54
Engineering science/physics	7	6	8	9	9	11	11	9
Industrial/manufacturing	34	39	41	43	34	52	48	51
Mechanical	25	33	27	32	32	42	24	28
Metallurgical and materials	33	10	5	8	11	8	6	5
Mining	0	0	1	0	3	4	1	0
Nuclear	2	2	1	0	2	1	3	3
Petroleum	2	0	1	1	1	0	0	0
Other	18	16	12	17	15	15	21	174
Other race/ethnicity	18,741	18,588	20,445	20,984	22,719	25,431	27,880	31,610
Science	14,559	14,755	16,294	16,804	18,079	19,772	22,284	25,464
Agricultural sciences	300	280	422	503	456	459	485	513
Biological sciences	2,212	2,386	2,407	2,408	2,585	3,075	3,258	3,547
Anatomy	34	18	15	12	31	28	37	44
Biochemistry	129	142	126	167	223	275	220	258
Biology	775	796	674	618	652	802	952	942
Biometry and epidemiology	227	185	177	214	126	159	198	305
Biophysics	71	38	40	22	35	39	46	51
Botany	59	51	59	56	63	70	76	79
Cell and molecular biology	130	194	268	288	328	389	320	356
Ecology	58	54	94	89	110	162	161	160
Entomology and parasitology	22	22	21	29	30	31	33	33
Genetics	32	99	129	101	99	110	117	101
Microbiology, immunology, and virology	143	267	255	246	245	258	238	259

Women, Minorities, and Persons with Disabilities in Science and Engineering

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Nutrition	98	103	134	162	152	161	178	243
Pathology	69	67	65	72	72	71	55	65
Pharmacology	57	54	51	53	70	96	89	91
Physiology	53	64	67	48	59	72	77	84
Zoology	73	37	49	43	45	54	36	38
Other	182	195	183	188	245	298	425	438
Computer sciences	2,237	2,378	2,833	2,968	3,303	3,237	3,177	3,226
Earth, atmospheric, and ocean sciences	581	480	450	451	558	702	701	701
Atmospheric	31	30	28	28	31	44	30	39
Earth	282	231	223	203	282	351	312	322
Ocean	86	54	55	71	65	86	100	111
Other	182	165	144	149	180	221	259	229
Mathematics and statistics	692	598	633	686	840	995	1,006	1,088
Mathematics/applied mathematics	614	534	557	582	712	887	861	917
Statistics	78	64	76	104	128	108	145	171
Physical sciences	1,050	973	1,026	1,277	1,250	1,375	1,441	1,417
Astronomy	45	27	34	41	44	47	44	63
Chemistry	551	500	463	515	554	688	741	739
Physics	402	334	401	615	549	547	569	588
Other	52	112	128	106	103	93	87	27
Psychology	3,378	3,567	3,620	3,202	3,183	3,440	4,818	6,632
Clinical	508	626	604	797	800	833	1,307	1,781
General	887	863	962	926	758	911	967	1,092
Nonclinical	1,983	2,078	2,054	1,479	1,625	1,696	2,544	3,759
Social sciences	4,109	4,093	4,903	5,309	5,904	6,489	7,398	8,340
Agricultural economics	60	28	43	72	71	57	64	65
Anthropology (cultural and social)	319	391	479	520	483	557	583	609
Economics	413	286	445	484	556	501	493	448
Geography	250	203	208	183	193	228	244	236
History and philosophy of science	14	16	24	30	60	57	84	64
Linguistics	116	115	172	149	179	231	199	226
Political science and public administration	1,614	1,533	1,814	2,043	2,570	3,017	3,750	4,523
Sociology	305	320	404	375	414	398	458	493
Other	1,018	1,201	1,314	1,453	1,378	1,443	1,523	1,676
Engineering	4,182	3,833	4,151	4,180	4,640	5,659	5,596	6,146
Aerospace	72	87	92	109	147	214	196	231
Agricultural	27	22	27	22	11	22	14	19
Biomedical	113	84	78	152	172	273	233	305
Chemical	230	233	228	147	183	201	189	211
Civil	610	575	540	588	702	762	767	868
Electrical	1,568	1,427	1,630	1,522	1,553	1,834	1,610	1,787
Engineering science/physics	31	51	101	132	93	48	65	72
Industrial/manufacturing	599	522	580	563	645	843	959	993
Mechanical	590	465	499	513	598	764	794	845
Metallurgical and materials	127	86	85	107	100	105	130	131
Mining	15	4	3	5	1	15	10	22
Nuclear	5	7	3	7	11	19	31	31
Petroleum	2	3	50	48	69	13	11	9
Other	193	267	235	265	355	546	587	622
Temporary residents	101,977	109,928	122,825	134,531	145,612	147,336	143,571	139,232
Sciences	64,188	68,425	75,424	82,009	87,306	87,352	86,461	85,397
Agricultural sciences	2,654	2,538	2,411	2,513	2,613	2,596	2,695	2,649
Biological sciences	11,336	11,189	11,761	12,434	13,826	14,836	15,793	16,402
Anatomy	155	153	177	176	199	203	179	188
Biochemistry	1,453	1,455	1,589	1,585	1,731	1,897	1,997	2,089
Biology	2,080	1,992	2,054	2,193	2,445	2,569	2,780	2,994
Biometry and epidemiology	679	751	821	903	1,099	1,196	1,212	1,202
Biophysics	166	154	204	263	299	319	375	375

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Botany	606	588	584	574	618	584	602	665
Cell and molecular biology	897	898	1,031	1,133	1,262	1,432	1,625	1,688
Ecology	172	174	186	194	218	272	272	249
Entomology and parasitology	291	302	280	275	283	286	303	282
Genetics	396	383	377	433	424	515	552	565
Microbiology, immunology, and virology	960	943	935	1,004	1,197	1,143	1,228	1,220
Nutrition	1,071	1,064	1,116	1,160	1,162	1,200	1,172	1,143
Pathology	288	295	301	293	299	331	316	340
Pharmacology	576	569	625	648	680	773	804	853
Physiology	438	454	446	431	454	521	519	466
Zoology	190	159	174	201	219	180	182	211
Other	918	855	861	968	1,237	1,415	1,675	1,872
Computer sciences	14,422	17,155	22,262	26,054	27,066	24,276	21,730	20,491
Earth, atmospheric, and ocean sciences	2,499	2,520	2,692	2,782	2,768	2,775	2,787	2,761
Atmospheric	255	274	304	285	306	281	267	283
Earth	1,244	1,224	1,302	1,355	1,379	1,433	1,452	1,427
Ocean	533	516	526	514	466	489	497	490
Other	467	506	560	628	617	572	571	561
Mathematics and statistics	5,421	5,927	6,057	6,484	7,024	7,408	7,371	7,396
Mathematics/applied mathematics	4,380	4,660	4,677	4,847	5,214	5,305	5,297	5,250
Statistics	1,041	1,267	1,380	1,637	1,810	2,103	2,074	2,146
Physical sciences	10,738	11,132	11,655	12,203	13,090	14,085	14,555	14,616
Astronomy	213	239	271	283	303	333	370	363
Chemistry	6,025	6,085	6,222	6,569	7,253	7,839	8,091	8,217
Physics	4,430	4,729	5,084	5,257	5,442	5,811	6,018	5,966
Other	70	79	78	94	92	102	76	70
Psychology	2,186	2,239	2,263	2,521	2,857	3,112	3,173	3,028
Clinical	363	396	390	428	595	619	434	489
General	695	720	812	934	982	1,108	1,375	1,151
Nonclinical	1,128	1,123	1,061	1,159	1,280	1,385	1,364	1,388
Social sciences	14,932	15,725	16,323	17,018	18,062	18,264	18,357	18,054
Agricultural economics	904	925	1,014	1,052	1,046	1,097	993	956
Anthropology (cultural and social)	739	823	829	769	847	822	860	845
Economics	5,240	5,533	5,807	6,284	6,620	6,617	6,582	6,377
Geography	559	598	628	725	747	784	790	781
History and philosophy of science	67	59	69	70	68	69	69	79
Linguistics	1,023	962	960	962	982	963	1,005	930
Political science and public administration	3,552	3,919	4,159	4,223	4,654	4,877	4,952	4,872
Sociology	1,109	1,176	1,255	1,307	1,321	1,345	1,268	1,299
Other	1,739	1,730	1,602	1,626	1,777	1,690	1,838	1,915
Engineering	37,789	41,503	47,401	52,522	58,306	59,984	57,110	53,835
Aerospace	1,417	1,532	1,513	1,646	1,686	1,687	1,688	1,642
Agricultural	419	424	397	417	423	490	485	521
Biomedical	715	851	949	1,129	1,516	1,904	2,132	2,139
Chemical	2,885	3,014	3,330	3,495	3,713	3,763	3,684	3,483
Civil	4,962	5,425	6,145	6,593	7,160	7,432	7,125	6,633
Electrical	13,925	15,305	18,296	20,566	23,369	23,645	22,117	20,738
Engineering science/physics	552	534	677	744	882	1,010	1,011	855
Industrial/manufacturing	3,352	3,730	4,545	5,333	5,715	5,468	5,069	4,549
Mechanical	5,650	6,196	7,138	7,669	8,535	8,750	8,086	7,643
Metallurgical and materials	2,010	2,043	2,112	2,336	2,510	2,585	2,558	2,642
Mining	76	109	132	104	102	111	119	118
Nuclear	294	332	335	356	331	353	355	339
Petroleum	448	494	362	389	468	675	651	616
Other	1,084	1,514	1,470	1,745	1,896	2,111	2,030	1,917

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary residents include all racial/ethnic groups.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1998–2005.

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
All female S&E graduate students	163,427	168,396	170,479	177,430	188,628	198,434	202,082	206,663
Science	144,439	148,509	149,733	155,173	163,661	170,847	174,810	179,785
Agricultural sciences	4,852	5,049	5,088	5,343	5,653	6,026	6,258	6,202
Biological sciences	28,953	29,621	29,807	31,049	33,411	35,883	37,278	38,503
Anatomy	342	345	367	352	451	466	467	466
Biochemistry	2,229	2,266	2,231	2,223	2,422	2,595	2,643	2,818
Biology	7,213	7,143	7,006	7,189	7,514	8,158	8,617	8,631
Biometry/epidemiology	2,153	2,323	2,241	2,427	2,552	2,771	2,867	3,009
Biophysics	209	213	231	262	306	339	434	408
Botany	1,011	982	986	974	1,019	996	974	985
Cell/molecular biology	2,141	2,360	2,494	2,521	2,791	3,006	3,095	3,290
Ecology	830	881	916	979	1,039	1,208	1,192	1,210
Entomology/parasitology	414	406	442	480	492	537	565	520
Genetics	983	1,016	973	1,046	1,112	1,216	1,283	1,309
Microbiology, immunology, and virology	2,371	2,450	2,432	2,495	2,808	2,933	3,053	3,082
Nutrition	3,413	3,431	3,379	3,436	3,512	3,658	3,721	3,791
Pathology	804	804	829	895	906	910	911	947
Pharmacology	1,325	1,343	1,516	1,658	1,773	1,818	1,693	1,713
Physiology	886	898	882	911	994	1,144	1,229	1,255
Zoology	694	670	642	667	638	645	640	636
Other	1,935	2,090	2,240	2,534	3,082	3,483	3,894	4,433
Computer sciences	10,802	12,545	14,080	15,302	16,025	14,816	13,277	12,061
Earth, atmospheric, and ocean sciences	5,568	5,725	5,753	5,892	6,247	6,538	6,932	6,888
Atmospheric	234	242	268	298	333	374	363	388
Earth	2,315	2,400	2,455	2,483	2,613	2,764	3,059	3,043
Ocean	1,162	1,222	1,267	1,255	1,309	1,392	1,509	1,481
Other	1,857	1,861	1,763	1,856	1,992	2,008	2,001	1,976
Mathematics and statistics	5,988	6,043	5,780	6,270	6,886	7,289	7,497	7,437
Mathematics/applied mathematics	4,895	4,862	4,508	4,818	5,239	5,406	5,613	5,560
Statistics	1,093	1,181	1,272	1,452	1,647	1,883	1,884	1,877
Physical sciences	8,753	8,915	9,115	9,336	10,066	10,778	11,300	11,726
Astronomy	230	225	267	265	302	345	355	394
Chemistry	6,564	6,617	6,756	6,855	7,325	7,839	8,232	8,423
Physics	1,780	1,876	1,910	2,042	2,201	2,366	2,501	2,669
Other	179	197	182	174	238	228	212	240
Psychology	37,462	37,271	36,872	37,318	37,728	38,816	40,226	43,419
Clinical	9,173	9,285	9,283	9,399	9,467	9,955	10,623	11,012
General	11,847	11,387	11,027	11,283	10,676	10,998	11,107	12,061
Nonclinical	16,442	16,599	16,562	16,636	17,585	17,863	18,496	20,346
Social sciences	42,061	43,340	43,238	44,663	47,645	50,701	52,042	53,549
Agricultural economics	680	715	789	835	844	900	854	873
Anthropology (cultural and social)	4,556	4,644	4,685	4,562	4,617	4,870	4,973	4,924
Economics	3,464	3,499	3,765	3,995	4,268	4,508	4,485	4,254
Geography	1,663	1,703	1,627	1,801	1,843	2,028	2,008	2,013
History and philosophy of science	193	212	219	244	301	312	414	440
Linguistics	1,953	1,833	1,744	1,793	1,891	2,005	1,927	2,055
Political science and public administration	14,961	15,573	15,927	16,501	18,619	19,842	20,978	22,086
Sociology	5,696	5,739	5,580	5,732	5,768	5,901	5,794	5,800
Other	8,895	9,422	8,902	9,200	9,494	10,335	10,609	11,104
Engineering	18,988	19,887	20,746	22,257	24,967	27,587	27,272	26,878
Aerospace	382	423	469	485	516	603	600	607
Agricultural	260	269	282	300	288	315	311	323
Biomedical	853	986	1,056	1,238	1,513	1,944	2,183	2,297
Chemical	1,727	1,733	1,875	1,829	1,995	2,100	2,106	2,079
Civil	4,102	4,157	4,277	4,503	4,905	5,398	5,441	5,395
Electrical	4,872	5,133	5,536	6,212	7,270	7,794	7,201	6,788
Engineering science/physics	331	319	342	363	430	465	465	419
Industrial/manufacturing	2,452	2,659	2,713	2,808	3,076	3,266	3,230	3,287
Mechanical	1,762	1,788	1,832	1,944	2,083	2,354	2,456	2,410

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Metallurgical/materials	1,130	1,084	1,041	1,173	1,251	1,331	1,321	1,348
Mining	55	55	46	36	37	42	42	39
Nuclear	134	144	156	157	148	182	196	211
Petroleum	55	82	87	91	107	129	134	121
Other	873	1,055	1,034	1,118	1,348	1,664	1,586	1,554
U.S. citizens and permanent residents	133,389	135,431	133,688	136,696	144,260	152,431	156,068	161,178
Science	121,008	123,050	121,633	124,269	130,455	136,985	140,810	145,875
Agricultural sciences	4,006	4,194	4,241	4,406	4,641	4,988	5,167	5,115
Biological sciences	23,503	24,180	23,964	24,669	26,258	27,976	28,756	29,621
Anatomy	284	279	294	278	367	365	382	375
Biochemistry	1,596	1,604	1,511	1,463	1,600	1,681	1,692	1,783
Biology	6,192	6,166	5,979	6,060	6,242	6,767	7,075	6,988
Biometry/epidemiology	1,818	1,947	1,808	1,915	1,940	2,073	2,169	2,308
Biophysics	164	170	175	187	221	231	296	272
Botany	732	725	717	701	716	703	666	656
Cell/molecular biology	1,715	1,886	1,931	1,908	2,095	2,214	2,180	2,355
Ecology	758	807	831	895	947	1,072	1,062	1,092
Entomology/parasitology	334	322	357	395	396	432	448	412
Genetics	786	844	792	837	894	942	975	982
Microbiology, immunology, and virology	1,907	1,968	1,963	1,951	2,177	2,299	2,337	2,384
Nutrition	2,707	2,745	2,648	2,672	2,756	2,908	2,963	3,043
Pathology	671	678	698	758	752	728	750	775
Pharmacology	1,043	1,064	1,197	1,308	1,382	1,377	1,247	1,236
Physiology	702	710	693	698	770	880	966	1,008
Zoology	616	602	560	579	540	556	552	538
Other	1,478	1,663	1,810	2,064	2,463	2,748	2,996	3,414
Computer sciences	6,577	7,412	7,406	7,643	8,206	8,051	7,374	6,814
Earth, atmospheric, and ocean sciences	4,805	4,868	4,857	4,911	5,235	5,496	5,857	5,797
Atmospheric	146	137	166	192	216	267	260	274
Earth	2,021	2,069	2,100	2,098	2,181	2,287	2,557	2,529
Ocean	980	1,038	1,065	1,049	1,124	1,196	1,291	1,274
Other	1,658	1,624	1,526	1,572	1,714	1,746	1,749	1,720
Mathematics and statistics	4,205	3,982	3,661	3,927	4,379	4,533	4,808	4,759
Mathematics/applied mathematics	3,563	3,367	3,034	3,299	3,653	3,777	3,994	3,926
Statistics	642	615	627	628	726	756	814	833
Physical sciences	5,833	5,862	5,832	5,859	6,178	6,523	6,782	7,147
Astronomy	181	172	197	191	229	253	258	302
Chemistry	4,441	4,477	4,477	4,453	4,583	4,819	5,014	5,198
Physics	1,062	1,047	999	1,075	1,162	1,249	1,324	1,430
Other	149	166	159	140	204	202	186	217
Psychology	36,074	35,822	35,361	35,574	35,963	36,859	38,302	41,294
Clinical	8,923	9,005	8,977	9,065	9,094	9,565	10,292	10,623
General	11,461	10,952	10,527	10,676	10,113	10,346	10,459	11,328
Nonclinical	15,690	15,865	15,857	15,833	16,756	16,948	17,551	19,343
Social sciences	36,005	36,730	36,311	37,280	39,595	42,559	43,764	45,328
Agricultural economics	390	393	413	423	428	467	477	488
Anthropology (cultural and social)	4,169	4,196	4,220	4,141	4,157	4,414	4,483	4,449
Economics	1,808	1,719	1,815	1,835	1,938	2,075	2,018	1,844
Geography	1,454	1,466	1,383	1,508	1,523	1,691	1,673	1,684
History and philosophy of science	170	194	189	219	274	290	389	414
Linguistics	1,297	1,233	1,130	1,161	1,237	1,378	1,269	1,437
Political science and public administration	13,537	13,932	14,128	14,598	16,382	17,544	18,636	19,781
Sociology	5,098	5,074	4,857	4,947	4,985	5,108	5,044	5,032
Other	8,082	8,523	8,176	8,448	8,671	9,592	9,775	10,199
Engineering	12,381	12,381	12,055	12,427	13,805	15,446	15,258	15,303
Aerospace	224	255	282	275	300	390	377	400
Agricultural	154	164	185	196	183	191	183	177
Biomedical	663	730	766	870	1,017	1,306	1,435	1,559

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Chemical	1,059	1,020	1,054	985	1,086	1,094	1,128	1,114
Civil	3,046	2,955	2,909	2,957	3,209	3,552	3,562	3,598
Electrical	2,518	2,389	2,246	2,380	2,668	2,962	2,588	2,557
Engineering science/physics	220	215	195	209	252	235	254	235
Industrial/manufacturing	1,869	2,003	1,896	1,890	2,114	2,261	2,238	2,230
Mechanical	1,153	1,141	1,051	1,117	1,164	1,366	1,437	1,408
Metallurgical/materials	677	618	581	622	668	702	690	688
Mining	51	43	32	32	30	30	33	30
Nuclear	88	87	95	88	87	115	123	143
Petroleum	15	17	40	40	40	24	33	28
Other	644	744	723	766	987	1,218	1,177	1,136
White	94,933	94,940	91,787	92,768	96,538	100,572	102,024	102,827
Science	86,767	87,076	84,161	85,167	88,479	91,680	93,166	94,146
Agricultural sciences	3,334	3,527	3,526	3,600	3,816	4,061	4,191	4,146
Biological sciences	17,454	17,808	17,677	17,846	18,968	19,749	20,027	20,420
Anatomy	221	209	229	222	259	265	252	264
Biochemistry	1,144	1,158	1,123	1,017	1,140	1,122	1,173	1,183
Biology	4,486	4,459	4,342	4,389	4,554	4,816	4,975	4,893
Biometry/epidemiology	1,199	1,326	1,179	1,256	1,301	1,370	1,406	1,439
Biophysics	111	117	121	135	161	164	210	182
Botany	605	613	612	582	567	562	506	510
Cell/molecular biology	1,272	1,364	1,353	1,296	1,389	1,433	1,421	1,485
Ecology	673	709	709	763	807	883	881	905
Entomology/parasitology	291	283	310	341	345	371	387	339
Genetics	637	627	593	623	678	695	725	742
Microbiology, immunology, and virology	1,382	1,387	1,390	1,353	1,501	1,550	1,585	1,607
Nutrition	2,100	2,124	2,074	2,009	2,086	2,138	2,112	2,153
Pathology	501	490	526	555	547	513	534	544
Pharmacology	734	737	864	901	940	941	820	818
Physiology	492	484	478	465	506	576	595	632
Zoology	533	539	497	521	486	493	485	472
Other	1,073	1,182	1,277	1,418	1,701	1,857	1,960	2,252
Computer sciences	3,198	3,521	3,629	3,778	3,962	4,039	3,854	3,627
Earth, atmospheric, and ocean sciences	4,065	4,134	4,200	4,211	4,410	4,541	4,822	4,794
Atmospheric	108	111	126	156	175	211	204	216
Earth	1,753	1,810	1,870	1,851	1,878	1,934	2,172	2,170
Ocean	829	885	921	897	954	1,002	1,072	1,063
Other	1,375	1,328	1,283	1,307	1,403	1,394	1,374	1,345
Mathematics and statistics	3,040	2,861	2,601	2,799	3,046	3,061	3,294	3,177
Mathematics/applied mathematics	2,586	2,431	2,177	2,356	2,556	2,545	2,774	2,674
Statistics	454	430	424	443	490	516	520	503
Physical sciences	4,170	4,165	4,167	4,164	4,497	4,592	4,718	5,017
Astronomy	145	146	163	154	182	199	206	237
Chemistry	3,176	3,182	3,173	3,171	3,315	3,336	3,403	3,553
Physics	759	739	741	755	863	921	981	1,058
Other	90	98	90	84	137	136	128	169
Psychology	26,707	26,072	24,442	24,553	24,655	24,900	25,083	25,714
Clinical	6,617	6,577	6,320	6,156	6,084	6,378	6,562	6,547
General	8,514	8,068	7,394	7,474	7,167	7,130	7,173	7,623
Nonclinical	11,576	11,427	10,728	10,923	11,404	11,392	11,348	11,544
Social sciences	24,799	24,988	23,919	24,216	25,125	26,737	27,177	27,251
Agricultural economics	295	309	331	331	325	369	353	350
Anthropology (cultural and social)	3,359	3,310	3,262	3,148	3,191	3,330	3,332	3,231
Economics	1,227	1,150	1,218	1,200	1,231	1,330	1,281	1,182
Geography	1,239	1,242	1,161	1,263	1,262	1,363	1,334	1,339
History and philosophy of science	149	163	158	182	197	218	295	308
Linguistics	934	901	801	830	869	929	892	987
Political science and public administration	8,645	8,763	8,550	8,690	9,479	10,012	10,464	10,784

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Sociology	3,509	3,506	3,299	3,395	3,334	3,368	3,342	3,239
Other	5,442	5,644	5,139	5,177	5,237	5,818	5,884	5,831
Engineering	8,166	7,864	7,626	7,601	8,059	8,892	8,858	8,681
Aerospace	175	198	218	210	217	279	256	272
Agricultural	114	125	128	127	129	142	143	136
Biomedical	472	508	532	562	635	792	868	911
Chemical	704	643	663	610	653	635	676	664
Civil	2,206	2,098	2,118	2,111	2,228	2,499	2,498	2,467
Electrical	1,234	1,099	981	1,011	1,028	1,036	968	907
Engineering science/physics	150	137	134	138	170	179	173	152
Industrial/manufacturing	1,272	1,315	1,211	1,162	1,249	1,323	1,261	1,212
Mechanical	791	749	687	728	743	904	924	862
Metallurgical/materials	506	443	426	449	468	482	489	482
Mining	37	33	29	29	25	27	25	22
Nuclear	71	66	69	64	63	87	84	96
Petroleum	9	13	15	10	11	12	14	14
Other	425	437	415	390	440	495	479	484
Asian/Pacific Islander	10,830	11,524	10,654	11,395	12,667	13,859	13,802	13,956
Science	8,996	9,515	8,870	9,324	10,011	10,743	10,832	11,037
Agricultural sciences	155	167	138	147	150	165	193	161
Biological sciences	2,350	2,377	2,253	2,539	2,646	2,894	3,040	3,146
Anatomy	25	29	23	29	51	45	56	41
Biochemistry	244	235	192	211	191	219	212	239
Biology	454	438	384	410	401	477	528	519
Biometry/epidemiology	246	268	290	305	328	323	343	377
Biophysics	18	29	29	35	38	43	50	54
Botany	48	48	51	55	69	66	58	53
Cell/molecular biology	244	274	262	272	305	320	332	381
Ecology	29	27	26	29	30	38	29	34
Entomology/parasitology	17	10	15	19	12	15	17	15
Genetics	66	82	56	73	81	93	90	88
Microbiology, immunology, and virology	234	216	220	244	253	276	277	272
Nutrition	212	199	168	201	196	250	260	283
Pathology	82	86	72	94	98	105	110	99
Pharmacology	149	142	151	197	200	183	169	162
Physiology	97	106	102	133	149	153	192	190
Zoology	22	18	14	15	13	17	25	21
Other	163	170	198	217	231	271	292	318
Computer sciences	1,920	2,318	2,009	1,987	2,143	1,973	1,660	1,430
Earth, atmospheric, and ocean sciences	186	192	172	170	197	200	229	218
Atmospheric	17	8	16	11	15	20	24	17
Earth	57	66	60	55	70	63	79	61
Ocean	26	36	35	30	37	31	42	38
Other	86	82	61	74	75	86	84	102
Mathematics and statistics	470	437	417	433	531	625	600	632
Mathematics/applied mathematics	369	328	307	346	412	493	439	441
Statistics	101	109	110	87	119	132	161	191
Physical sciences	610	636	573	542	531	649	683	704
Astronomy	15	13	14	15	18	17	15	17
Chemistry	485	495	473	432	411	510	536	549
Physics	96	117	76	88	93	109	121	130
Other	14	11	10	7	9	13	11	8
Psychology	1,468	1,502	1,531	1,628	1,633	1,800	1,885	2,004
Clinical	426	453	453	468	451	506	562	559
General	514	503	520	552	489	562	576	628
Nonclinical	528	546	558	608	693	732	747	817

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Social sciences	1,837	1,886	1,777	1,878	2,180	2,437	2,542	2,742
Agricultural economics	25	18	13	15	20	19	29	27
Anthropology (cultural and social)	167	183	192	186	174	189	205	216
Economics	225	240	212	202	258	293	282	257
Geography	45	54	46	57	59	78	78	77
History and philosophy of science	9	9	9	10	16	17	20	20
Linguistics	133	114	78	106	135	160	128	171
Political science and public administration	632	634	680	704	855	935	1,016	1,170
Sociology	262	254	235	240	255	307	269	274
Other	339	380	312	358	408	439	515	530
Engineering	1,834	2,009	1,784	2,071	2,656	3,116	2,970	2,919
Aerospace	21	21	26	27	31	36	51	62
Agricultural	13	15	19	22	17	16	16	14
Biomedical	86	105	125	163	207	258	311	347
Chemical	148	176	165	160	204	205	183	211
Civil	313	316	238	279	298	366	375	400
Electrical	709	704	662	728	972	1,164	980	938
Engineering science/physics	44	43	19	25	43	36	43	41
Industrial/manufacturing	156	198	164	194	267	285	278	299
Mechanical	138	179	130	168	169	174	197	212
Metallurgical/materials	75	85	73	78	102	99	96	96
Mining	13	10	1	1	2	2	1	2
Nuclear	8	6	5	8	7	9	14	16
Petroleum	4	1	1	4	6	3	7	2
Other	106	150	156	214	331	463	418	279
Black	11,331	11,708	12,536	13,076	13,763	14,718	14,885	15,693
Science	10,452	10,732	11,509	12,095	12,701	13,677	13,756	14,593
Agricultural sciences	176	151	153	201	213	266	241	245
Biological sciences	1,377	1,457	1,481	1,559	1,667	1,899	2,029	2,058
Anatomy	17	19	21	14	24	22	34	29
Biochemistry	76	76	81	76	73	96	97	101
Biology	481	482	502	507	459	543	536	521
Biometry/epidemiology	118	130	118	127	139	166	193	209
Biophysics	8	8	7	7	8	8	10	10
Botany	18	14	9	13	17	14	12	13
Cell/molecular biology	67	65	76	80	92	113	123	115
Ecology	8	11	11	13	15	27	19	20
Entomology/parasitology	6	8	8	6	8	10	9	10
Genetics	34	35	32	33	40	55	53	55
Microbiology, immunology, and virology	111	124	123	121	153	173	161	171
Nutrition	169	176	167	185	200	208	245	218
Pathology	30	35	31	32	33	35	43	53
Pharmacology	85	96	91	110	119	115	126	119
Physiology	58	51	60	56	58	67	69	65
Zoology	10	11	8	5	9	6	7	6
Other	81	116	136	174	220	241	292	343
Computer sciences	591	670	668	766	835	823	707	712
Earth, atmospheric, and ocean sciences	99	101	100	102	131	140	141	152
Atmospheric	3	4	9	7	10	12	14	13
Earth	24	31	24	25	27	35	43	43
Ocean	15	14	14	15	23	26	22	27
Other	57	52	53	55	71	67	62	69
Mathematics and statistics	274	270	273	270	286	282	331	350
Mathematics/applied mathematics	254	248	239	241	250	243	280	300
Statistics	20	22	34	29	36	39	51	50
Physical sciences	432	402	425	413	407	431	454	482
Astronomy	3	3	4	4	4	5	6	5
Chemistry	332	318	342	341	332	349	380	396

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Physics	83	70	67	53	52	57	57	67
Other	14	11	12	15	19	20	11	14
Psychology	2,926	2,844	3,343	3,479	3,545	3,758	3,757	4,298
Clinical	560	545	593	592	633	706	724	716
General	1,137	1,052	1,137	1,166	1,188	1,209	1,184	1,334
Nonclinical	1,229	1,247	1,613	1,721	1,724	1,843	1,849	2,248
Social sciences	4,577	4,837	5,066	5,305	5,617	6,078	6,096	6,296
Agricultural economics	25	35	38	35	41	38	28	38
Anthropology (cultural and social)	184	209	196	216	189	215	216	225
Economics	126	133	155	151	137	154	158	141
Geography	43	44	39	53	57	80	85	83
History and philosophy of science	4	7	6	9	11	9	10	20
Linguistics	32	36	31	32	27	35	31	43
Political science and public administration	2,339	2,530	2,628	2,796	3,042	3,239	3,260	3,323
Sociology	727	688	659	685	709	737	735	775
Other	1,097	1,155	1,314	1,328	1,404	1,571	1,573	1,648
Engineering	879	976	1,027	981	1,062	1,041	1,129	1,100
Aerospace	7	8	8	4	6	9	14	15
Agricultural	12	7	11	18	16	16	14	12
Biomedical	42	49	58	60	74	88	113	103
Chemical	80	79	79	89	81	78	74	60
Civil	133	173	178	158	182	155	162	161
Electrical	194	200	201	192	201	183	194	189
Engineering science/physics	7	7	13	10	7	6	12	10
Industrial/manufacturing	208	232	247	242	264	266	273	282
Mechanical	104	88	104	81	79	86	91	90
Metallurgical/materials	31	43	43	46	51	51	48	49
Mining	0	0	1	0	0	0	0	0
Nuclear	4	8	11	6	6	8	12	13
Petroleum	0	0	0	1	0	1	4	4
Other	57	82	73	74	95	94	118	112
Hispanic	7,645	8,324	8,935	9,460	10,446	11,061	11,675	12,532
Science	6,958	7,622	8,197	8,618	9,485	10,004	10,576	11,435
Agricultural sciences	180	213	217	215	209	239	257	263
Biological sciences	1,129	1,217	1,220	1,329	1,465	1,612	1,746	1,827
Anatomy	4	11	10	8	14	16	21	18
Biochemistry	69	70	70	84	88	110	108	126
Biology	376	358	378	387	437	454	488	505
Biometry/epidemiology	110	117	113	103	99	118	119	114
Biophysics	1	2	2	3	3	6	9	10
Botany	28	25	16	19	24	18	41	28
Cell/molecular biology	60	77	89	97	123	129	129	159
Ecology	20	26	33	40	37	34	39	40
Entomology/parasitology	8	11	13	18	19	25	20	25
Genetics	28	34	33	44	39	37	34	33
Microbiology, immunology, and virology	103	107	107	120	139	155	173	189
Nutrition	145	155	127	134	147	164	191	166
Pathology	23	28	29	36	34	33	28	31
Pharmacology	45	52	62	63	73	79	75	78
Physiology	27	40	26	26	28	36	53	59
Zoology	18	10	12	13	8	10	14	16
Other	64	94	100	134	153	188	204	230
Computer sciences	195	212	246	244	271	286	285	273
Earth, atmospheric, and ocean sciences	168	200	169	201	222	261	302	281
Atmospheric	2	3	4	7	6	8	12	12
Earth	54	70	56	78	81	100	111	105
Ocean	60	70	59	65	71	86	91	82
Other	52	57	50	51	64	67	88	82

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Mathematics and statistics	178	177	150	160	207	223	230	215
Mathematics/applied mathematics	153	158	136	147	187	196	203	196
Statistics	25	19	14	13	20	27	27	19
Physical sciences	307	346	337	357	376	416	489	489
Astronomy	2	3	3	5	8	11	13	15
Chemistry	247	289	287	292	307	339	396	393
Physics	43	41	40	58	53	60	71	69
Other	15	13	7	2	8	6	9	12
Psychology	2,347	2,610	3,106	3,261	3,527	3,549	3,668	3,941
Clinical	858	922	1,080	1,159	1,228	1,245	1,370	1,382
General	635	653	705	726	659	719	751	876
Nonclinical	854	1,035	1,321	1,376	1,640	1,585	1,547	1,683
Social sciences	2,454	2,647	2,752	2,851	3,208	3,418	3,599	4,146
Agricultural economics	21	17	16	18	13	18	23	26
Anthropology (cultural and social)	195	198	220	224	243	260	293	299
Economics	98	88	78	102	118	134	123	111
Geography	34	47	46	48	52	64	65	67
History and philosophy of science	4	8	6	6	18	16	26	31
Linguistics	117	100	103	93	95	93	85	108
Political science and public administration	1,087	1,187	1,294	1,291	1,530	1,582	1,761	1,991
Sociology	359	379	373	366	394	407	375	390
Other	539	623	616	703	745	844	848	1,123
Engineering	687	702	738	842	961	1,057	1,099	1,097
Aerospace	9	10	13	17	23	26	22	16
Agricultural	5	5	12	17	14	8	4	10
Biomedical	27	35	28	31	36	57	64	75
Chemical	65	54	69	72	84	106	117	110
Civil	219	203	236	239	274	282	282	293
Electrical	120	138	99	142	175	204	184	208
Engineering science/physics	12	15	10	11	8	5	6	7
Industrial/manufacturing	117	135	141	167	175	179	211	187
Mechanical	57	52	49	65	83	96	114	108
Metallurgical/materials	30	26	24	26	28	38	31	32
Mining	0	0	1	2	2	0	5	4
Nuclear	4	5	8	9	9	7	7	10
Petroleum	1	2	16	17	11	6	6	6
Other	21	22	32	27	39	43	46	31
American Indian/Alaska Native	810	809	868	875	924	989	1,010	1,165
Science	747	742	798	810	855	904	932	990
Agricultural sciences	26	23	22	23	40	39	47	45
Biological sciences	103	106	110	110	123	147	157	164
Anatomy	2	2	1	0	1	3	2	1
Biochemistry	4	4	3	6	3	6	7	5
Biology	27	32	36	25	28	34	32	39
Biometry/epidemiology	5	5	9	9	10	13	13	10
Biophysics	1	1	1	1	1	0	3	1
Botany	2	4	3	5	6	6	6	4
Cell/molecular biology	7	8	11	10	10	11	12	15
Ecology	3	2	3	5	4	6	9	8
Entomology/parasitology	2	1	1	1	1	1	3	5
Genetics	3	3	5	6	6	8	10	6
Microbiology, immunology, and virology	9	4	5	3	10	5	9	9
Nutrition	13	13	12	15	13	12	7	13
Pathology	3	1	1	2	0	2	5	7
Pharmacology	4	10	4	3	7	8	11	9
Physiology	5	5	2	4	7	8	9	9
Zoology	3	3	4	3	3	4	4	4
Other	10	8	9	12	13	20	15	19

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Computer sciences	24	24	30	29	31	36	30	33
Earth, atmospheric, and ocean sciences	40	31	28	33	36	33	27	31
Atmospheric	0	0	0	1	0	0	0	0
Earth	18	13	10	15	18	12	11	13
Ocean	7	5	4	6	6	6	9	9
Other	15	13	14	11	12	15	7	9
Mathematics and statistics	18	18	10	16	6	7	13	15
Mathematics/applied mathematics	15	15	6	14	6	7	13	13
Statistics	3	3	4	2	0	0	0	2
Physical sciences	23	29	21	27	28	25	28	34
Astronomy	1	1	0	0	1	2	2	4
Chemistry	18	23	18	23	20	18	20	21
Physics	4	5	3	4	7	5	5	7
Other	0	0	0	0	0	0	1	2
Psychology	224	212	257	251	237	229	235	243
Clinical	84	63	72	69	73	75	61	57
General	68	70	87	80	73	71	79	77
Nonclinical	72	79	98	102	91	83	95	109
Social sciences	289	299	320	321	354	388	395	425
Agricultural economics	3	1	1	0	2	2	15	15
Anthropology (cultural and social)	70	60	60	56	52	64	66	78
Economics	5	9	11	9	12	15	17	9
Geography	5	5	7	10	7	4	11	14
History and philosophy of science	0	1	2	2	1	2	3	4
Linguistics	7	10	8	9	8	10	9	6
Political science and public administration	84	91	90	99	119	133	138	147
Sociology	45	40	48	41	39	39	31	35
Other	70	82	93	95	114	119	105	117
Engineering	63	67	70	65	69	85	78	175
Aerospace	0	0	2	2	2	4	3	2
Agricultural	2	0	2	2	2	2	0	1
Biomedical	2	1	1	1	2	3	5	6
Chemical	8	5	11	8	8	6	13	7
Civil	12	13	10	14	18	23	16	14
Electrical	8	11	11	6	12	14	11	7
Engineering science/physics	1	1	2	2	3	4	5	4
Industrial/manufacturing	11	16	14	13	7	15	11	16
Mechanical	5	8	9	9	9	7	6	7
Metallurgical/materials	6	5	2	2	2	2	0	0
Mining	0	0	0	0	1	1	0	0
Nuclear	1	1	1	0	0	0	0	0
Petroleum	0	0	0	0	0	0	0	0
Other	7	6	5	6	3	4	8	111
Other race/ethnicity	7,840	8,126	8,908	9,122	9,922	11,232	12,672	15,005
Science	7,088	7,363	8,098	8,255	8,924	9,977	11,548	13,674
Agricultural sciences	135	113	185	220	213	218	238	255
Biological sciences	1,090	1,215	1,223	1,286	1,389	1,675	1,757	2,006
Anatomy	15	9	10	5	18	14	17	22
Biochemistry	59	61	42	69	105	128	95	129
Biology	368	397	337	342	363	443	516	511
Biometry/epidemiology	140	101	99	115	63	83	95	159
Biophysics	25	13	15	6	10	10	14	15
Botany	31	21	26	27	33	37	43	48
Cell/molecular biology	65	98	140	153	176	208	163	200
Ecology	25	32	49	45	54	84	85	85
Entomology/parasitology	10	9	10	10	11	10	12	18
Genetics	18	63	73	58	50	54	63	58
Microbiology, immunology, and virology	68	130	118	110	121	140	132	136

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Nutrition	68	78	100	128	114	136	148	210
Pathology	32	38	39	39	40	40	30	41
Pharmacology	26	27	25	34	43	51	46	50
Physiology	23	24	25	14	22	40	48	53
Zoology	30	21	25	22	21	26	17	19
Other	87	93	90	109	145	171	233	252
Computer sciences	649	667	824	839	964	894	838	739
Earth, atmospheric, and ocean sciences	247	210	188	194	239	321	336	321
Atmospheric	16	11	11	10	10	16	6	16
Earth	115	79	80	74	107	143	141	137
Ocean	43	28	32	36	33	45	55	55
Other	73	92	65	74	89	117	134	113
Mathematics and statistics	225	219	210	249	303	335	340	370
Mathematics/applied mathematics	186	187	169	195	242	293	285	302
Statistics	39	32	41	54	61	42	55	68
Physical sciences	291	284	309	356	339	410	410	421
Astronomy	15	6	13	13	16	19	16	24
Chemistry	183	170	184	194	198	267	279	286
Physics	77	75	72	117	94	97	89	99
Other	16	33	40	32	31	27	26	12
Psychology	2,402	2,582	2,682	2,402	2,366	2,623	3,674	5,094
Clinical	378	445	459	621	625	655	1,013	1,362
General	593	606	684	678	537	655	696	790
Nonclinical	1,431	1,531	1,539	1,103	1,204	1,313	1,965	2,942
Social sciences	2,049	2,073	2,477	2,709	3,111	3,501	3,955	4,468
Agricultural economics	21	13	14	24	27	21	29	32
Anthropology (cultural and social)	194	236	290	311	308	356	371	400
Economics	127	99	141	171	182	149	157	144
Geography	88	74	84	77	86	102	100	104
History and philosophy of science	4	6	8	10	31	28	35	31
Linguistics	74	72	109	91	103	151	124	122
Political science and public administration	750	727	886	1,018	1,357	1,643	1,997	2,366
Sociology	196	207	243	220	254	250	292	319
Other	595	639	702	787	763	801	850	950
Engineering	752	763	810	867	998	1,255	1,124	1,331
Aerospace	12	18	15	15	21	36	31	33
Agricultural	8	12	13	10	5	7	6	4
Biomedical	34	32	22	53	63	108	74	117
Chemical	54	63	67	46	56	64	65	62
Civil	163	152	129	156	209	227	229	263
Electrical	253	237	292	301	280	361	251	308
Engineering science/physics	6	12	17	23	21	5	15	21
Industrial/manufacturing	105	107	119	112	152	193	204	234
Mechanical	58	65	72	66	81	99	105	129
Metallurgical/materials	29	16	13	21	17	30	26	29
Mining	1	0	0	0	0	0	2	2
Nuclear	0	1	1	1	2	4	6	8
Petroleum	1	1	8	8	12	2	2	2
Other	28	47	42	55	79	119	108	119
Temporary residents	30,038	32,965	36,791	40,734	44,368	46,003	46,014	45,485
Science	23,431	25,459	28,100	30,904	33,206	33,862	34,000	33,910
Agricultural sciences	846	855	847	937	1,012	1,038	1,091	1,087
Biological sciences	5,450	5,441	5,843	6,380	7,153	7,907	8,522	8,882
Anatomy	58	66	73	74	84	101	85	91
Biochemistry	633	662	720	760	822	914	951	1,035
Biology	1,021	977	1,027	1,129	1,272	1,391	1,542	1,643
Biometry/epidemiology	335	376	433	512	612	698	698	701
Biophysics	45	43	56	75	85	108	138	136

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Botany	279	257	269	273	303	293	308	329
Cell/molecular biology	426	474	563	613	696	792	915	935
Ecology	72	74	85	84	92	136	130	118
Entomology/parasitology	80	84	85	85	96	105	117	108
Genetics	197	172	181	209	218	274	308	327
Microbiology, immunology, and virology	464	482	469	544	631	634	716	698
Nutrition	706	686	731	764	756	750	758	748
Pathology	133	126	131	137	154	182	161	172
Pharmacology	282	279	319	350	391	441	446	477
Physiology	184	188	189	213	224	264	263	247
Zoology	78	68	82	88	98	89	88	98
Other	457	427	430	470	619	735	898	1,019
Computer sciences	4,225	5,133	6,674	7,659	7,819	6,765	5,903	5,247
Earth, atmospheric, and ocean sciences	763	857	896	981	1,012	1,042	1,075	1,091
Atmospheric	88	105	102	106	117	107	103	114
Earth	294	331	355	385	432	477	502	514
Ocean	182	184	202	206	185	196	218	207
Other	199	237	237	284	278	262	252	256
Mathematics and statistics	1,783	2,061	2,119	2,343	2,507	2,756	2,689	2,678
Mathematics/applied mathematics	1,332	1,495	1,474	1,519	1,586	1,629	1,619	1,634
Statistics	451	566	645	824	921	1,127	1,070	1,044
Physical sciences	2,920	3,053	3,283	3,477	3,888	4,255	4,518	4,579
Astronomy	49	53	70	74	73	92	97	92
Chemistry	2,123	2,140	2,279	2,402	2,742	3,020	3,218	3,225
Physics	718	829	911	967	1,039	1,117	1,177	1,239
Other	30	31	23	34	34	26	26	23
Psychology	1,388	1,449	1,511	1,744	1,765	1,957	1,924	2,125
Clinical	250	280	306	334	373	390	331	389
General	386	435	500	607	563	652	648	733
Nonclinical	752	734	705	803	829	915	945	1,003
Social sciences	6,056	6,610	6,927	7,383	8,050	8,142	8,278	8,221
Agricultural economics	290	322	376	412	416	433	377	385
Anthropology (cultural and social)	387	448	465	421	460	456	490	475
Economics	1,656	1,780	1,950	2,160	2,330	2,433	2,467	2,410
Geography	209	237	244	293	320	337	335	329
History and philosophy of science	23	18	30	25	27	22	25	26
Linguistics	656	600	614	632	654	627	658	618
Political science and public administration	1,424	1,641	1,799	1,903	2,237	2,298	2,342	2,305
Sociology	598	665	723	785	783	793	750	768
Other	813	899	726	752	823	743	834	905
Engineering	6,607	7,506	8,691	9,830	11,162	12,141	12,014	11,575
Aerospace	158	168	187	210	216	213	223	207
Agricultural	106	105	97	104	105	124	128	146
Biomedical	190	256	290	368	496	638	748	738
Chemical	668	713	821	844	909	1,006	978	965
Civil	1,056	1,202	1,368	1,546	1,696	1,846	1,879	1,797
Electrical	2,354	2,744	3,290	3,832	4,602	4,832	4,613	4,231
Engineering science/physics	111	104	147	154	178	230	211	184
Industrial/manufacturing	583	656	817	918	962	1,005	992	1,057
Mechanical	609	647	781	827	919	988	1,019	1,002
Metallurgical/materials	453	466	460	551	583	629	631	660
Mining	4	12	14	4	7	12	9	9
Nuclear	46	57	61	69	61	67	73	68
Petroleum	40	65	47	51	67	105	101	93
Other	229	311	311	352	361	446	409	418

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary residents include all racial/ethnic groups.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1998–2005.

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
All male S&E graduate students	241,429	242,786	243,057	251,812	266,219	276,260	274,113	272,119
Science	160,379	160,982	159,691	164,576	171,518	176,470	177,819	178,524
Agricultural sciences	7,316	7,263	6,935	6,892	7,045	7,171	7,187	6,921
Biological sciences	27,742	27,338	26,475	26,590	27,677	28,818	29,270	29,946
Anatomy	443	404	428	383	455	442	430	472
Biochemistry	2,919	2,835	2,735	2,694	2,768	2,957	2,969	2,996
Biology	7,064	6,846	6,401	6,163	6,308	6,612	6,841	7,037
Biometry/epidemiology	1,361	1,381	1,374	1,390	1,519	1,668	1,807	1,796
Biophysics	528	497	520	615	647	693	746	775
Botany	1,031	992	918	947	954	905	857	875
Cell/molecular biology	2,238	2,277	2,326	2,390	2,584	2,683	2,735	2,887
Ecology	840	823	846	909	928	1,022	993	955
Entomology/parasitology	754	739	662	690	699	669	676	606
Genetics	744	767	739	795	797	857	846	846
Microbiology, immunology, and virology	2,402	2,365	2,382	2,303	2,400	2,323	2,322	2,319
Nutrition	1,073	1,077	1,034	993	1,027	1,037	1,050	1,026
Pathology	776	776	702	742	707	631	629	629
Pharmacology	1,405	1,414	1,447	1,482	1,461	1,539	1,429	1,401
Physiology	1,265	1,185	1,133	1,056	1,082	1,184	1,180	1,144
Zoology	892	853	803	744	711	656	596	628
Other	2,007	2,107	2,025	2,294	2,630	2,940	3,164	3,554
Computer sciences	27,225	29,933	33,270	36,894	39,244	38,880	36,739	35,985
Earth, atmospheric, and ocean sciences	8,690	8,358	8,188	7,949	7,993	8,082	8,199	7,939
Atmospheric	731	671	695	626	703	776	723	758
Earth	4,372	4,237	4,141	4,061	4,099	4,125	4,299	4,169
Ocean	1,400	1,402	1,401	1,330	1,309	1,303	1,292	1,279
Other	2,187	2,048	1,951	1,932	1,882	1,878	1,885	1,733
Mathematics and statistics	10,497	10,214	9,870	10,381	11,277	12,176	12,434	12,773
Mathematics/applied mathematics	8,932	8,659	8,315	8,751	9,463	10,163	10,351	10,546
Statistics	1,565	1,555	1,555	1,630	1,814	2,013	2,083	2,227
Physical sciences	21,822	21,776	21,270	21,702	22,275	23,520	24,461	24,670
Astronomy	590	607	621	651	688	735	764	797
Chemistry	11,918	11,799	11,349	11,511	11,720	12,210	12,544	12,699
Physics	9,029	8,993	8,931	9,206	9,500	10,189	10,797	10,803
Other	285	377	369	334	367	386	356	371
Psychology	15,095	14,456	13,594	13,149	13,437	13,395	13,992	13,993
Clinical	3,560	3,513	3,205	3,089	3,142	3,163	3,148	3,271
General	5,251	4,851	4,597	4,554	4,483	4,582	5,169	4,725
Nonclinical	6,284	6,092	5,792	5,506	5,812	5,650	5,675	5,997
Social sciences	41,992	41,644	40,089	41,019	42,570	44,428	45,537	46,297
Agricultural economics	1,315	1,299	1,290	1,326	1,343	1,418	1,341	1,245
Anthropology (cultural and social)	3,021	2,989	2,941	2,929	2,864	2,919	2,853	2,782
Economics	7,237	7,063	6,983	7,413	7,741	7,808	7,833	7,551
Geography	2,663	2,547	2,409	2,503	2,540	2,693	2,801	2,759
History and philosophy of science	315	345	313	327	362	425	580	525
Linguistics	982	966	930	951	984	1,023	1,014	1,132
Political science and public administration	15,867	15,799	15,204	15,304	16,315	17,038	18,292	19,020
Sociology	3,362	3,227	3,072	3,080	3,178	3,226	3,080	3,237
Other	7,230	7,409	6,947	7,186	7,243	7,878	7,743	8,046
Engineering	81,050	81,804	83,366	87,236	94,701	99,790	96,294	93,595
Aerospace	2,755	2,926	2,938	2,966	3,169	3,445	3,489	3,563
Agricultural	715	717	661	647	664	743	730	736
Biomedical	2,002	2,083	2,141	2,361	2,825	3,357	3,624	3,770
Chemical	5,366	5,150	5,181	5,084	5,419	5,416	5,346	5,094
Civil	12,415	12,069	12,174	12,162	12,808	13,492	13,120	12,655
Electrical	26,512	26,689	28,075	29,888	32,678	33,969	31,794	30,656
Engineering science/physics	1,370	1,308	1,290	1,435	1,691	1,775	1,733	1,532
Industrial/manufacturing	8,769	9,144	9,406	10,132	10,957	11,047	10,622	10,327
Mechanical	12,934	13,168	13,403	13,908	15,056	16,039	15,396	14,977

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Metallurgical/materials	3,550	3,397	3,336	3,548	3,741	3,800	3,738	3,812
Mining	249	273	241	204	230	236	266	240
Nuclear	687	686	636	644	647	703	775	802
Petroleum	516	560	540	565	659	720	711	687
Other	3,210	3,634	3,344	3,692	4,157	5,048	4,950	4,744
U.S. citizens and permanent residents	169,490	165,823	157,023	158,015	164,975	174,927	176,556	178,372
Science	119,622	118,016	112,367	113,471	117,418	122,980	125,358	127,037
Agricultural sciences	5,508	5,580	5,371	5,316	5,444	5,613	5,583	5,359
Biological sciences	21,856	21,590	20,557	20,536	21,004	21,889	21,999	22,426
Anatomy	346	317	324	281	340	340	336	375
Biochemistry	2,099	2,042	1,866	1,869	1,859	1,974	1,923	1,942
Biology	6,005	5,831	5,374	5,099	5,135	5,434	5,603	5,686
Biometry/epidemiology	1,017	1,006	986	999	1,032	1,170	1,293	1,295
Biophysics	407	386	372	427	433	482	509	536
Botany	704	661	603	646	639	614	563	539
Cell/molecular biology	1,767	1,853	1,858	1,870	2,018	2,043	2,025	2,134
Ecology	740	723	745	799	802	886	851	824
Entomology/parasitology	543	521	467	500	512	488	490	432
Genetics	545	556	543	571	591	616	602	608
Microbiology, immunology, and virology	1,906	1,904	1,916	1,843	1,834	1,814	1,810	1,797
Nutrition	708	699	649	597	621	587	636	631
Pathology	621	607	532	586	562	482	474	461
Pharmacology	1,111	1,124	1,141	1,184	1,172	1,207	1,071	1,025
Physiology	1,011	919	876	838	852	927	924	925
Zoology	780	762	711	631	590	565	502	515
Other	1,546	1,679	1,594	1,796	2,012	2,260	2,387	2,701
Computer sciences	17,028	17,911	17,682	18,499	19,997	21,369	20,912	20,741
Earth, atmospheric, and ocean sciences	6,954	6,695	6,392	6,148	6,237	6,349	6,487	6,269
Atmospheric	564	502	493	447	514	602	559	589
Earth	3,422	3,344	3,194	3,091	3,152	3,169	3,349	3,256
Ocean	1,049	1,070	1,077	1,022	1,028	1,010	1,013	996
Other	1,919	1,779	1,628	1,588	1,543	1,568	1,566	1,428
Mathematics and statistics	6,859	6,348	5,932	6,240	6,760	7,524	7,752	8,055
Mathematics/applied mathematics	5,884	5,494	5,112	5,423	5,835	6,487	6,673	6,930
Statistics	975	854	820	817	925	1,037	1,079	1,125
Physical sciences	14,004	13,697	12,898	12,976	13,073	13,690	14,424	14,633
Astronomy	426	421	420	442	458	494	491	526
Chemistry	8,016	7,854	7,406	7,344	7,209	7,391	7,671	7,707
Physics	5,317	5,093	4,758	4,916	5,097	5,495	5,956	6,076
Other	245	329	314	274	309	310	306	324
Psychology	14,297	13,666	12,842	12,372	12,345	12,240	12,743	13,090
Clinical	3,447	3,397	3,121	2,995	2,920	2,934	3,045	3,171
General	4,942	4,566	4,285	4,227	4,064	4,126	4,442	4,307
Nonclinical	5,908	5,703	5,436	5,150	5,361	5,180	5,256	5,612
Social sciences	33,116	32,529	30,693	31,384	32,558	34,306	35,458	36,464
Agricultural economics	701	696	652	686	713	754	725	674
Anthropology (cultural and social)	2,669	2,614	2,577	2,581	2,477	2,553	2,483	2,412
Economics	3,653	3,310	3,126	3,289	3,451	3,624	3,718	3,584
Geography	2,313	2,186	2,025	2,071	2,113	2,246	2,346	2,307
History and philosophy of science	271	304	274	282	321	378	536	472
Linguistics	615	604	584	621	656	687	667	820
Political science and public administration	13,739	13,521	12,844	12,984	13,898	14,459	15,682	16,453
Sociology	2,851	2,716	2,540	2,558	2,640	2,674	2,562	2,706
Other	6,304	6,578	6,071	6,312	6,289	6,931	6,739	7,036
Engineering	49,868	47,807	44,656	44,544	47,557	51,947	51,198	51,335
Aerospace	1,496	1,562	1,612	1,530	1,699	1,971	2,024	2,128
Agricultural	402	398	361	334	346	377	373	361
Biomedical	1,477	1,488	1,482	1,600	1,805	2,091	2,240	2,369

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Chemical	3,149	2,849	2,672	2,433	2,615	2,659	2,640	2,576
Civil	8,509	7,846	7,397	7,115	7,344	7,906	7,874	7,819
Electrical	14,941	14,128	13,069	13,154	13,911	15,156	14,290	14,149
Engineering science/physics	929	878	760	845	987	995	933	861
Industrial/manufacturing	6,000	6,070	5,678	5,717	6,204	6,584	6,545	6,835
Mechanical	7,893	7,619	7,046	7,066	7,440	8,277	8,329	8,336
Metallurgical/materials	1,993	1,820	1,684	1,763	1,814	1,844	1,811	1,830
Mining	177	176	123	104	135	137	156	131
Nuclear	439	411	362	357	377	417	493	531
Petroleum	108	131	225	227	258	150	161	164
Other	2,355	2,431	2,185	2,299	2,622	3,383	3,329	3,245
White	125,734	121,810	113,782	113,259	116,606	122,137	123,015	123,310
Science	89,802	87,611	82,325	82,401	84,106	87,560	88,638	89,155
Agricultural sciences	4,759	4,856	4,626	4,547	4,670	4,738	4,745	4,516
Biological sciences	16,869	16,511	15,578	15,347	15,600	16,060	16,030	16,215
Anatomy	263	238	241	218	248	238	239	259
Biochemistry	1,598	1,507	1,409	1,356	1,369	1,393	1,400	1,399
Biology	4,636	4,470	4,105	3,920	3,914	4,105	4,177	4,227
Biometry/epidemiology	712	696	672	664	663	785	831	788
Biophysics	266	266	253	290	299	338	376	380
Botany	605	576	521	540	520	503	462	456
Cell/molecular biology	1,354	1,409	1,355	1,332	1,427	1,427	1,455	1,501
Ecology	652	654	651	703	700	751	716	688
Entomology/parasitology	487	474	423	423	449	429	429	374
Genetics	426	395	384	406	406	412	407	422
Microbiology, immunology, and virology	1,467	1,404	1,409	1,305	1,313	1,282	1,280	1,250
Nutrition	547	543	492	436	460	437	457	451
Pathology	460	436	380	407	390	321	329	335
Pharmacology	834	852	867	878	855	868	747	696
Physiology	728	635	586	570	580	634	623	632
Zoology	683	701	650	567	520	492	447	450
Other	1,151	1,255	1,180	1,332	1,487	1,645	1,655	1,907
Computer sciences	10,750	10,856	10,839	11,279	12,000	13,221	13,100	12,968
Earth, atmospheric, and ocean sciences	6,033	5,873	5,612	5,362	5,389	5,422	5,520	5,326
Atmospheric	493	441	431	391	448	502	459	481
Earth	3,023	2,986	2,850	2,752	2,761	2,757	2,939	2,840
Ocean	903	930	951	872	891	869	861	833
Other	1,614	1,516	1,380	1,347	1,289	1,294	1,261	1,172
Mathematics and statistics	5,057	4,798	4,354	4,587	4,877	5,353	5,565	5,738
Mathematics/applied mathematics	4,313	4,129	3,728	3,957	4,202	4,585	4,827	4,987
Statistics	744	669	626	630	675	768	738	751
Physical sciences	11,048	10,872	10,176	10,084	10,123	10,515	11,007	11,310
Astronomy	362	365	360	373	388	411	425	440
Chemistry	6,308	6,212	5,855	5,806	5,611	5,619	5,767	5,910
Physics	4,208	4,101	3,773	3,730	3,926	4,288	4,619	4,707
Other	170	194	188	175	198	197	196	253
Psychology	10,915	10,195	9,359	9,025	8,818	8,687	8,572	8,765
Clinical	2,736	2,635	2,342	2,205	2,101	2,094	2,074	2,071
General	3,788	3,480	3,188	3,165	3,033	2,985	2,981	3,084
Nonclinical	4,391	4,080	3,829	3,655	3,684	3,608	3,517	3,610
Social sciences	24,371	23,650	21,781	22,170	22,629	23,564	24,099	24,317
Agricultural economics	565	572	535	557	589	629	612	562
Anthropology (cultural and social)	2,190	2,130	2,049	2,042	1,962	1,986	1,926	1,846
Economics	2,601	2,445	2,230	2,304	2,336	2,450	2,573	2,531
Geography	1,972	1,889	1,745	1,785	1,806	1,892	1,980	1,916
History and philosophy of science	231	261	228	232	229	296	405	371
Linguistics	470	474	436	463	466	489	457	553
Political science and public administration	9,881	9,554	8,851	8,945	9,306	9,513	10,102	10,331

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Sociology	1,946	1,798	1,683	1,700	1,747	1,764	1,688	1,793
Other	4,515	4,527	4,024	4,142	4,188	4,545	4,356	4,414
Engineering	35,932	34,199	31,457	30,858	32,500	34,577	34,377	34,155
Aerospace	1,216	1,239	1,233	1,224	1,295	1,468	1,535	1,572
Agricultural	320	329	301	275	298	322	320	305
Biomedical	1,120	1,125	1,070	1,106	1,259	1,371	1,446	1,513
Chemical	2,420	2,162	1,964	1,807	1,912	1,919	1,990	1,897
Civil	6,459	5,990	5,641	5,381	5,479	5,834	5,772	5,672
Electrical	9,495	8,798	8,001	7,865	8,093	8,673	8,476	8,237
Engineering science/physics	693	650	539	579	723	749	692	641
Industrial/manufacturing	4,492	4,446	4,118	4,093	4,419	4,357	4,223	4,420
Mechanical	5,866	5,742	5,318	5,204	5,511	5,979	6,074	6,036
Metallurgical/materials	1,573	1,492	1,325	1,390	1,414	1,427	1,326	1,377
Mining	114	129	104	86	111	111	132	99
Nuclear	378	358	313	300	320	352	408	438
Petroleum	92	111	95	102	110	113	109	100
Other	1,694	1,628	1,435	1,446	1,556	1,902	1,874	1,848
Asian/Pacific Islander	15,896	16,046	14,404	15,189	16,665	18,062	17,079	16,896
Science	9,718	9,894	8,914	9,253	9,937	10,408	10,265	10,148
Agricultural sciences	160	143	112	115	136	151	136	139
Biological sciences	2,089	2,099	1,993	2,171	2,189	2,264	2,260	2,315
Anatomy	39	42	51	34	41	46	44	51
Biochemistry	283	306	231	266	221	247	232	219
Biology	363	355	337	315	330	342	377	358
Biometry/epidemiology	111	119	134	139	169	165	211	204
Biophysics	72	71	72	94	81	83	63	77
Botany	34	25	22	39	50	42	36	23
Cell/molecular biology	223	222	246	255	279	281	231	287
Ecology	21	18	16	18	13	17	22	19
Entomology/parasitology	20	9	9	27	15	14	17	13
Genetics	62	79	53	74	87	100	95	94
Microbiology, immunology, and virology	210	196	197	235	214	216	210	215
Nutrition	57	56	56	53	50	49	44	55
Pathology	84	94	83	87	90	78	71	60
Pharmacology	150	146	138	168	174	158	136	145
Physiology	168	170	166	155	160	178	191	182
Zoology	26	15	13	17	16	14	15	14
Other	166	176	169	195	199	234	265	299
Computer sciences	3,299	3,826	3,323	3,440	3,810	3,794	3,458	3,241
Earth, atmospheric, and ocean sciences	238	208	179	171	158	163	207	197
Atmospheric	38	33	25	15	16	34	35	41
Earth	96	78	72	84	79	63	70	75
Ocean	36	31	29	21	27	17	27	27
Other	68	66	53	51	36	49	75	54
Mathematics and statistics	704	565	531	552	653	739	735	787
Mathematics/applied mathematics	570	471	435	480	546	631	593	621
Statistics	134	94	96	72	107	108	142	166
Physical sciences	1,150	1,046	951	916	893	970	1,052	1,002
Astronomy	17	18	19	21	26	36	23	29
Chemistry	694	638	606	551	539	593	634	586
Physics	432	373	317	334	312	322	381	373
Other	7	17	9	10	16	19	14	14
Psychology	551	536	532	548	553	576	562	565
Clinical	127	126	116	110	103	104	109	113
General	189	172	192	187	185	231	237	241
Nonclinical	235	238	224	251	265	241	216	211

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Social sciences	1,527	1,471	1,293	1,340	1,545	1,751	1,855	1,902
Agricultural economics	29	35	17	14	19	20	16	16
Anthropology (cultural and social)	74	73	68	67	78	94	89	89
Economics	386	357	264	293	326	362	336	336
Geography	42	47	39	42	55	62	66	76
History and philosophy of science	13	11	11	11	12	12	28	16
Linguistics	54	34	28	48	48	55	48	76
Political science and public administration	548	529	526	521	634	687	787	805
Sociology	143	144	117	120	120	136	125	127
Other	238	241	223	224	253	323	360	361
Engineering	6,178	6,152	5,490	5,936	6,728	7,654	6,814	6,748
Aerospace	119	132	180	111	155	171	161	189
Agricultural	31	26	19	23	23	20	31	23
Biomedical	181	203	236	263	288	385	431	455
Chemical	321	310	336	334	362	352	285	297
Civil	791	615	506	492	557	658	622	606
Electrical	2,734	2,787	2,457	2,726	3,107	3,442	2,843	2,850
Engineering science/physics	143	127	84	98	118	116	120	102
Industrial/manufacturing	487	586	464	492	611	738	671	747
Mechanical	835	829	674	777	743	861	818	775
Metallurgical/materials	197	155	173	166	196	217	250	219
Mining	44	40	10	11	19	3	5	4
Nuclear	28	16	19	19	24	21	28	31
Petroleum	3	10	37	35	38	9	17	19
Other	264	316	295	389	487	661	532	431
Black	8,320	8,565	8,298	8,383	8,909	9,456	9,799	9,653
Science	6,378	6,576	6,348	6,449	6,897	7,285	7,529	7,283
Agricultural sciences	168	159	139	126	162	194	153	172
Biological sciences	764	761	760	792	812	858	864	922
Anatomy	13	12	10	6	13	15	16	19
Biochemistry	67	64	63	53	50	63	59	68
Biology	260	262	243	248	231	253	247	270
Biometry/epidemiology	56	58	46	49	62	63	70	73
Biophysics	10	9	10	10	10	9	13	14
Botany	10	8	7	11	12	12	6	4
Cell/molecular biology	59	49	59	63	68	55	63	61
Ecology	9	11	13	13	9	16	8	8
Entomology/parasitology	5	9	6	9	9	5	2	4
Genetics	17	20	25	23	20	20	15	15
Microbiology, immunology, and virology	61	62	68	57	65	72	83	84
Nutrition	44	42	41	46	52	38	49	52
Pathology	14	14	13	19	19	21	16	14
Pharmacology	51	55	56	59	54	70	67	65
Physiology	37	27	42	42	36	35	36	32
Zoology	4	5	5	5	7	5	4	6
Other	47	54	53	79	95	106	110	133
Computer sciences	764	815	844	943	1,063	1,128	1,095	1,049
Earth, atmospheric, and ocean sciences	103	112	120	125	135	130	120	110
Atmospheric	5	3	9	12	15	20	22	17
Earth	35	31	32	32	37	40	41	39
Ocean	10	14	14	16	13	9	8	10
Other	53	64	65	65	70	61	49	44
Mathematics and statistics	339	324	299	320	340	373	365	371
Mathematics/applied mathematics	307	295	270	284	296	318	303	317
Statistics	32	29	29	36	44	55	62	54
Physical sciences	481	501	493	462	486	508	541	526
Astronomy	6	6	5	8	6	4	4	5
Chemistry	303	315	308	290	304	314	333	298

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Physics	159	164	168	158	168	179	191	205
Other	13	16	12	6	8	11	13	18
Psychology	887	905	871	868	946	934	1,244	953
Clinical	165	165	163	148	153	147	170	158
General	370	353	326	323	344	364	644	348
Nonclinical	352	387	382	397	449	423	430	447
Social sciences	2,872	2,999	2,822	2,813	2,953	3,160	3,147	3,180
Agricultural economics	45	49	42	41	42	40	24	27
Anthropology (cultural and social)	82	82	74	58	59	61	56	52
Economics	191	158	162	163	185	209	224	178
Geography	65	48	47	61	55	61	65	77
History and philosophy of science	8	7	8	7	13	16	20	22
Linguistics	14	13	13	15	17	14	16	21
Political science and public administration	1,456	1,567	1,445	1,468	1,590	1,610	1,708	1,677
Sociology	387	373	325	316	323	343	297	311
Other	624	702	706	684	669	806	737	815
Engineering	1,942	1,989	1,950	1,934	2,012	2,171	2,270	2,370
Aerospace	27	44	49	41	45	50	54	58
Agricultural	20	20	15	12	11	14	9	13
Biomedical	39	51	53	58	67	68	78	89
Chemical	105	68	89	78	79	95	95	86
Civil	277	277	270	273	271	273	291	295
Electrical	680	686	629	620	645	629	656	654
Engineering science/physics	32	28	21	23	29	36	26	26
Industrial/manufacturing	257	309	310	349	352	419	441	482
Mechanical	308	287	292	273	279	296	278	321
Metallurgical/materials	44	49	51	61	61	59	57	53
Mining	1	1	4	1	1	2	5	3
Nuclear	9	7	6	7	5	4	8	8
Petroleum	5	5	7	3	6	10	17	27
Other	138	157	154	135	161	216	255	255
Hispanic	7,842	8,196	8,268	8,514	9,188	10,183	10,602	10,949
Science	5,629	5,974	5,988	6,173	6,688	7,261	7,537	7,956
Agricultural sciences	211	209	223	210	197	251	267	243
Biological sciences	924	968	963	1,009	1,120	1,218	1,252	1,319
Anatomy	11	15	14	13	24	26	17	23
Biochemistry	72	82	74	87	96	119	104	117
Biology	315	318	330	313	349	353	344	371
Biometry/epidemiology	49	47	54	46	71	78	76	79
Biophysics	13	15	12	17	17	22	21	27
Botany	26	22	20	23	23	20	22	21
Cell/molecular biology	62	76	68	84	90	96	113	121
Ecology	23	15	18	18	22	20	26	31
Entomology/parasitology	18	16	18	21	16	16	18	22
Genetics	25	25	24	24	28	24	28	30
Microbiology, immunology, and virology	84	94	89	100	104	117	122	118
Nutrition	27	31	25	28	20	37	54	38
Pathology	19	28	25	31	28	30	33	27
Pharmacology	43	40	50	53	54	55	68	67
Physiology	43	44	39	34	38	45	41	45
Zoology	18	21	16	16	20	22	14	20
Other	76	79	87	101	120	138	151	162
Computer sciences	559	653	617	650	733	815	858	929
Earth, atmospheric, and ocean sciences	202	200	186	196	191	223	235	226
Atmospheric	11	4	8	8	10	13	15	24
Earth	83	84	80	77	82	87	106	101
Ocean	48	62	54	72	60	72	70	68
Other	60	50	44	39	39	51	44	33

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Mathematics and statistics	276	270	310	322	335	381	395	418
Mathematics/applied mathematics	251	241	277	295	307	342	348	369
Statistics	25	29	33	27	28	39	47	49
Physical sciences	525	549	507	539	605	678	743	751
Astronomy	10	10	14	12	9	14	10	12
Chemistry	315	329	315	337	361	411	441	428
Physics	183	188	162	181	221	237	272	289
Other	17	22	16	9	14	16	20	22
Psychology	881	957	1,039	1,048	1,128	1,131	1,132	1,178
Clinical	261	260	323	333	360	379	367	379
General	276	278	264	280	267	268	284	310
Nonclinical	344	419	452	435	501	484	481	489
Social sciences	2,051	2,168	2,143	2,199	2,379	2,564	2,655	2,892
Agricultural economics	21	19	23	22	17	24	27	28
Anthropology (cultural and social)	149	129	148	159	166	176	160	171
Economics	178	159	160	204	214	235	236	225
Geography	64	64	57	59	71	87	78	86
History and philosophy of science	8	14	11	12	37	22	30	29
Linguistics	33	35	39	33	45	43	63	55
Political science and public administration	902	979	1,009	932	1,057	1,167	1,251	1,379
Sociology	243	262	234	242	261	257	261	274
Other	453	507	462	536	511	553	549	645
Engineering	2,213	2,222	2,280	2,341	2,500	2,922	3,065	2,993
Aerospace	67	70	67	54	69	93	96	100
Agricultural	10	12	11	11	8	6	4	3
Biomedical	53	50	63	70	78	98	116	117
Chemical	114	128	113	108	122	143	132	130
Civil	504	498	540	508	504	564	616	603
Electrical	692	631	618	683	766	890	913	882
Engineering science/physics	30	29	26	29	39	44	39	36
Industrial/manufacturing	247	291	298	302	302	383	418	392
Mechanical	332	336	317	342	367	441	452	467
Metallurgical/materials	54	49	60	54	51	60	68	74
Mining	4	2	1	1	1	3	5	5
Nuclear	18	23	22	25	17	24	21	28
Petroleum	5	3	43	46	46	7	9	11
Other	83	100	101	108	130	166	176	145
American Indian/Alaska Native	797	744	734	808	810	890	853	959
Science	624	569	596	646	635	671	653	705
Agricultural sciences	45	46	34	35	36	38	35	31
Biological sciences	88	80	79	95	87	89	92	114
Anatomy	1	1	3	3	1	1	0	1
Biochemistry	9	2	5	9	5	5	3	10
Biology	24	27	22	27	22	22	22	29
Biometry/epidemiology	2	2	2	2	4	3	2	5
Biophysics	0	0	0	0	1	1	4	2
Botany	1	0	0	4	4	4	4	4
Cell/molecular biology	4	1	2	1	2	3	6	8
Ecology	2	3	2	3	2	4	3	3
Entomology/parasitology	1	0	0	1	4	3	3	4
Genetics	1	1	1	1	1	4	3	4
Microbiology, immunology, and virology	9	11	16	10	14	9	9	7
Nutrition	3	2	1	0	1	1	2	2
Pathology	7	6	5	9	3	1	0	1
Pharmacology	2	4	4	7	8	11	10	11
Physiology	5	3	1	3	1	3	4	3
Zoology	6	4	3	5	3	4	3	6
Other	11	13	12	10	11	10	14	14

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Computer sciences	68	50	50	58	52	68	62	67
Earth, atmospheric, and ocean sciences	44	32	33	37	45	30	40	30
Atmospheric	2	2	3	3	4	5	4	3
Earth	18	13	17	17	18	14	22	16
Ocean	9	7	6	6	5	2	2	2
Other	15	10	7	11	18	9	12	9
Mathematics and statistics	16	12	15	22	18	18	26	23
Mathematics/applied mathematics	15	11	14	20	14	17	26	21
Statistics	1	1	1	2	4	1	0	2
Physical sciences	41	40	54	54	55	54	50	48
Astronomy	1	1	1	0	1	1	1	1
Chemistry	28	30	43	39	38	33	34	32
Physics	10	8	9	15	15	19	13	13
Other	2	1	1	0	1	1	2	2
Psychology	87	88	103	83	83	95	89	91
Clinical	28	30	32	23	28	32	31	31
General	25	26	37	24	14	22	25	22
Nonclinical	34	32	34	36	41	41	33	38
Social sciences	235	221	228	262	259	279	259	301
Agricultural economics	2	6	6	4	2	5	11	8
Anthropology (cultural and social)	49	45	49	46	37	35	40	45
Economics	11	4	6	12	16	16	13	10
Geography	8	9	13	18	19	18	13	20
History and philosophy of science	1	1	0	0	1	3	4	1
Linguistics	2	5	5	4	4	6	8	11
Political science and public administration	88	86	85	93	98	108	81	104
Sociology	23	26	20	25	29	26	25	27
Other	51	39	44	60	53	62	64	75
Engineering	173	175	138	162	175	219	200	254
Aerospace	7	8	6	6	9	11	13	11
Agricultural	2	1	1	1	0	0	1	2
Biomedical	5	7	4	4	4	4	10	7
Chemical	13	11	9	5	13	13	14	17
Civil	31	43	29	29	40	42	35	38
Electrical	25	36	26	39	27	49	43	47
Engineering science/physics	6	5	6	7	6	7	6	5
Industrial/manufacturing	23	23	27	30	27	37	37	35
Mechanical	20	25	18	23	23	35	18	21
Metallurgical/materials	27	5	3	6	9	6	6	5
Mining	0	0	1	0	2	3	1	0
Nuclear	1	1	0	0	2	1	3	3
Petroleum	2	0	1	1	1	0	0	0
Other	11	10	7	11	12	11	13	63
Other race/ethnicity	10,901	10,462	11,537	11,862	12,797	14,199	15,208	16,605
Science	7,471	7,392	8,196	8,549	9,155	9,795	10,736	11,790
Agricultural sciences	165	167	237	283	243	241	247	258
Biological sciences	1,122	1,171	1,184	1,122	1,196	1,400	1,501	1,541
Anatomy	19	9	5	7	13	14	20	22
Biochemistry	70	81	84	98	118	147	125	129
Biology	407	399	337	276	289	359	436	431
Biometry/epidemiology	87	84	78	99	63	76	103	146
Biophysics	46	25	25	16	25	29	32	36
Botany	28	30	33	29	30	33	33	31
Cell/molecular biology	65	96	128	135	152	181	157	156
Ecology	33	22	45	44	56	78	76	75
Entomology/parasitology	12	13	11	19	19	21	21	15
Genetics	14	36	56	43	49	56	54	43
Microbiology, immunology, and virology	75	137	137	136	124	118	106	123

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Nutrition	30	25	34	34	38	25	30	33
Pathology	37	29	26	33	32	31	25	24
Pharmacology	31	27	26	19	27	45	43	41
Physiology	30	40	42	34	37	32	29	31
Zoology	43	16	24	21	24	28	19	19
Other	95	102	93	79	100	127	192	186
Computer sciences	1,588	1,711	2,009	2,129	2,339	2,343	2,339	2,487
Earth, atmospheric, and ocean sciences	334	270	262	257	319	381	365	380
Atmospheric	15	19	17	18	21	28	24	23
Earth	167	152	143	129	175	208	171	185
Ocean	43	26	23	35	32	41	45	56
Other	109	73	79	75	91	104	125	116
Mathematics and statistics	467	379	423	437	537	660	666	718
Mathematics/applied mathematics	428	347	388	387	470	594	576	615
Statistics	39	32	35	50	67	66	90	103
Physical sciences	759	689	717	921	911	965	1,031	996
Astronomy	30	21	21	28	28	28	28	39
Chemistry	368	330	279	321	356	421	462	453
Physics	325	259	329	498	455	450	480	489
Other	36	79	88	74	72	66	61	15
Psychology	976	985	938	800	817	817	1,144	1,538
Clinical	130	181	145	176	175	178	294	419
General	294	257	278	248	221	256	271	302
Nonclinical	552	547	515	376	421	383	579	817
Social sciences	2,060	2,020	2,426	2,600	2,793	2,988	3,443	3,872
Agricultural economics	39	15	29	48	44	36	35	33
Anthropology (cultural and social)	125	155	189	209	175	201	212	209
Economics	286	187	304	313	374	352	336	304
Geography	162	129	124	106	107	126	144	132
History and philosophy of science	10	10	16	20	29	29	49	33
Linguistics	42	43	63	58	76	80	75	104
Political science and public administration	864	806	928	1,025	1,213	1,374	1,753	2,157
Sociology	109	113	161	155	160	148	166	174
Other	423	562	612	666	615	642	673	726
Engineering	3,430	3,070	3,341	3,313	3,642	4,404	4,472	4,815
Aerospace	60	69	77	94	126	178	165	198
Agricultural	19	10	14	12	6	15	8	15
Biomedical	79	52	56	99	109	165	159	188
Chemical	176	170	161	101	127	137	124	149
Civil	447	423	411	432	493	535	538	605
Electrical	1,315	1,190	1,338	1,221	1,273	1,473	1,359	1,479
Engineering science/physics	25	39	84	109	72	43	50	51
Industrial/manufacturing	494	415	461	451	493	650	755	759
Mechanical	532	400	427	447	517	665	689	716
Metallurgical/materials	98	70	72	86	83	75	104	102
Mining	14	4	3	5	1	15	8	20
Nuclear	5	6	2	6	9	15	25	23
Petroleum	1	2	42	40	57	11	9	7
Other	165	220	193	210	276	427	479	503
Temporary residents	71,939	76,963	86,034	93,797	101,244	101,333	97,557	93,747
Science	40,757	42,966	47,324	51,105	54,100	53,490	52,461	51,487
Agricultural sciences	1,808	1,683	1,564	1,576	1,601	1,558	1,604	1,562
Biological sciences	5,886	5,748	5,918	6,054	6,673	6,929	7,271	7,520
Anatomy	97	87	104	102	115	102	94	97
Biochemistry	820	793	869	825	909	983	1,046	1,054
Biology	1,059	1,015	1,027	1,064	1,173	1,178	1,238	1,351
Biometry/epidemiology	344	375	388	391	487	498	514	501
Biophysics	121	111	148	188	214	211	237	239

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Botany	327	331	315	301	315	291	294	336
Cell/molecular biology	471	424	468	520	566	640	710	753
Ecology	100	100	101	110	126	136	142	131
Entomology/parasitology	211	218	195	190	187	181	186	174
Genetics	199	211	196	224	206	241	244	238
Microbiology, immunology, and virology	496	461	466	460	566	509	512	522
Nutrition	365	378	385	396	406	450	414	395
Pathology	155	169	170	156	145	149	155	168
Pharmacology	294	290	306	298	289	332	358	376
Physiology	254	266	257	218	230	257	256	219
Zoology	112	91	92	113	121	91	94	113
Other	461	428	431	498	618	680	777	853
Computer sciences	10,197	12,022	15,588	18,395	19,247	17,511	15,827	15,244
Earth, atmospheric, and ocean sciences	1,736	1,663	1,796	1,801	1,756	1,733	1,712	1,670
Atmospheric	167	169	202	179	189	174	164	169
Earth	950	893	947	970	947	956	950	913
Ocean	351	332	324	308	281	293	279	283
Other	268	269	323	344	339	310	319	305
Mathematics and statistics	3,638	3,866	3,938	4,141	4,517	4,652	4,682	4,718
Mathematics/applied mathematics	3,048	3,165	3,203	3,328	3,628	3,676	3,678	3,616
Statistics	590	701	735	813	889	976	1,004	1,102
Physical sciences	7,818	8,079	8,372	8,726	9,202	9,830	10,037	10,037
Astronomy	164	186	201	209	230	241	273	271
Chemistry	3,902	3,945	3,943	4,167	4,511	4,819	4,873	4,992
Physics	3,712	3,900	4,173	4,290	4,403	4,694	4,841	4,727
Other	40	48	55	60	58	76	50	47
Psychology	798	790	752	777	1,092	1,155	1,249	903
Clinical	113	116	84	94	222	229	103	100
General	309	285	312	327	419	456	727	418
Nonclinical	376	389	356	356	451	470	419	385
Social sciences	8,876	9,115	9,396	9,635	10,012	10,122	10,079	9,833
Agricultural economics	614	603	638	640	630	664	616	571
Anthropology (cultural and social)	352	375	364	348	387	366	370	370
Economics	3,584	3,753	3,857	4,124	4,290	4,184	4,115	3,967
Geography	350	361	384	432	427	447	455	452
History and philosophy of science	44	41	39	45	41	47	44	53
Linguistics	367	362	346	330	328	336	347	312
Political science and public administration	2,128	2,278	2,360	2,320	2,417	2,579	2,610	2,567
Sociology	511	511	532	522	538	552	518	531
Other	926	831	876	874	954	947	1,004	1,010
Engineering	31,182	33,997	38,710	42,692	47,144	47,843	45,096	42,260
Aerospace	1,259	1,364	1,326	1,436	1,470	1,474	1,465	1,435
Agricultural	313	319	300	313	318	366	357	375
Biomedical	525	595	659	761	1,020	1,266	1,384	1,401
Chemical	2,217	2,301	2,509	2,651	2,804	2,757	2,706	2,518
Civil	3,906	4,223	4,777	5,047	5,464	5,586	5,246	4,836
Electrical	11,571	12,561	15,006	16,734	18,767	18,813	17,504	16,507
Engineering science/physics	441	430	530	590	704	780	800	671
Industrial/manufacturing	2,769	3,074	3,728	4,415	4,753	4,463	4,077	3,492
Mechanical	5,041	5,549	6,357	6,842	7,616	7,762	7,067	6,641
Metallurgical/materials	1,557	1,577	1,652	1,785	1,927	1,956	1,927	1,982
Mining	72	97	118	100	95	99	110	109
Nuclear	248	275	274	287	270	286	282	271
Petroleum	408	429	315	338	401	570	550	523
Other	855	1,203	1,159	1,393	1,535	1,665	1,621	1,499

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary residents include all racial/ethnic groups.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1998–2005.

TABLE D-4. First-time enrollment of full-time S&E graduate students, by field and sex: 1998–2005

Field and sex	1998	1999	2000	2001	2002	2003	2004	2005
S&E	74,373	75,447	78,332	82,411	86,827	89,331	86,580	89,183
Science	55,112	54,934	56,141	59,105	62,220	64,902	64,555	66,810
Agricultural sciences	2,299	2,253	2,335	2,338	2,320	2,424	2,316	2,260
Biological sciences	11,335	10,959	10,955	11,608	12,127	12,719	12,796	12,896
Anatomy	180	161	198	159	193	178	180	213
Biochemistry	1,022	896	929	851	880	958	907	930
Biology	2,498	2,521	2,282	2,376	2,532	2,610	2,740	2,826
Biometry/epidemiology	815	825	837	953	1,001	1,022	986	1,069
Biophysics	158	118	128	162	166	223	210	174
Botany	409	363	357	315	335	307	336	316
Cell/molecular biology	903	867	977	993	1,085	1,125	1,140	1,186
Ecology	261	251	280	348	317	345	302	314
Entomology/parasitology	233	179	185	202	203	175	211	153
Genetics	397	427	380	382	362	373	441	365
Microbiology, immunology, and virology	857	904	823	884	914	909	889	868
Nutrition	940	834	830	906	890	895	843	863
Pathology	279	320	276	320	294	256	277	248
Pharmacology	513	487	549	507	554	552	510	466
Physiology	654	608	570	615	633	760	731	678
Zoology	274	263	230	247	231	258	212	199
Other	942	935	1,124	1,388	1,537	1,773	1,881	2,028
Computer sciences	5,758	6,677	8,431	9,077	9,037	8,134	7,783	8,258
Earth, atmospheric, and ocean sciences	2,859	2,746	2,649	2,794	3,085	3,104	2,926	2,777
Atmospheric	189	203	222	205	213	268	228	228
Earth	1,348	1,296	1,230	1,383	1,437	1,412	1,336	1,327
Ocean	471	474	479	511	533	567	534	463
Other	851	773	718	695	902	857	828	759
Mathematics and statistics	3,334	3,271	3,419	3,686	3,918	4,185	4,252	4,196
Mathematics/applied mathematics	2,721	2,650	2,757	2,892	3,114	3,266	3,365	3,263
Statistics	613	621	662	794	804	919	887	933
Physical sciences	5,932	6,004	5,829	6,011	6,280	6,841	6,603	6,657
Astronomy	162	171	183	193	194	225	210	190
Chemistry	3,682	3,672	3,482	3,651	3,746	3,983	3,862	3,904
Physics	2,046	2,074	2,101	2,102	2,231	2,543	2,442	2,458
Other	42	87	63	65	109	90	89	105
Psychology	8,590	8,305	7,545	7,691	8,420	8,858	9,478	10,377
Clinical	2,001	1,992	1,829	1,731	1,898	1,986	2,251	2,318
General	3,060	2,745	2,534	2,652	2,657	3,009	2,979	3,416
Nonclinical	3,529	3,568	3,182	3,308	3,865	3,863	4,248	4,643
Social sciences	15,005	14,719	14,978	15,900	17,033	18,637	18,401	19,389
Agricultural economics	417	482	455	496	575	536	523	557
Anthropology (cultural and social)	1,219	1,193	1,157	1,119	1,177	1,279	1,187	1,257
Economics	2,352	2,355	2,508	2,562	2,843	2,921	2,686	2,676
Geography	805	830	784	872	812	915	860	898
History and philosophy of science	89	91	78	72	97	107	107	138
Linguistics	493	422	454	495	466	588	570	633
Political science and public administration	4,953	4,837	5,142	5,562	6,241	6,950	7,348	7,810
Sociology	1,428	1,307	1,300	1,431	1,535	1,543	1,359	1,504
Other	3,249	3,202	3,100	3,291	3,287	3,798	3,761	3,916
Engineering	19,261	20,513	22,191	23,306	24,607	24,429	22,025	22,373
Aerospace	717	727	775	767	712	845	834	804
Agricultural	175	212	188	192	201	197	177	190
Biomedical	675	724	915	884	1,125	1,327	1,274	1,267
Chemical	1,503	1,491	1,595	1,541	1,616	1,600	1,392	1,293
Civil	3,785	3,726	3,840	3,820	4,107	4,363	4,175	4,057
Electrical	5,741	6,369	7,195	7,882	8,221	7,834	6,633	6,987
Engineering science/physics	308	255	299	339	404	392	361	317
Industrial/manufacturing	1,547	1,851	2,005	2,216	2,238	2,029	1,724	1,674
Mechanical	2,923	3,119	3,269	3,583	3,709	3,476	3,129	3,225

TABLE D-4. First-time enrollment of full-time S&E graduate students, by field and sex: 1998–2005

Field and sex	1998	1999	2000	2001	2002	2003	2004	2005
Metallurgical/materials	900	892	1,005	975	1,044	958	926	992
Mining	44	45	48	40	41	73	64	58
Nuclear	153	150	163	164	149	177	192	193
Petroleum	132	149	149	153	198	166	151	161
Other	658	803	745	750	842	992	993	1,155
Female	30,494	31,113	32,155	34,229	37,023	38,824	38,192	39,351
Science	26,630	26,860	27,336	29,181	31,334	32,778	32,815	34,009
Agricultural sciences	1,043	1,018	1,156	1,172	1,160	1,247	1,167	1,204
Biological sciences	6,038	5,944	6,118	6,647	7,012	7,357	7,538	7,439
Anatomy	92	77	115	90	110	106	100	103
Biochemistry	463	413	451	434	457	461	465	494
Biology	1,297	1,349	1,224	1,339	1,455	1,501	1,611	1,534
Biometry/epidemiology	508	521	535	627	613	627	605	671
Biophysics	40	41	43	45	75	85	79	62
Botany	224	188	195	171	199	168	197	185
Cell/molecular biology	449	455	516	526	572	622	627	639
Ecology	123	138	153	199	173	220	174	199
Entomology/parasitology	84	64	101	92	91	88	107	73
Genetics	256	262	245	244	239	254	294	261
Microbiology, immunology, and virology	458	487	443	514	535	530	549	512
Nutrition	722	649	650	717	714	724	692	709
Pathology	157	175	173	202	184	168	177	158
Pharmacology	274	270	293	291	329	309	280	252
Physiology	258	251	257	291	296	391	385	359
Zoology	133	123	108	132	127	134	125	104
Other	500	481	616	733	843	969	1,071	1,124
Computer sciences	1,517	1,797	2,234	2,389	2,308	2,017	1,864	1,952
Earth, atmospheric, and ocean sciences	1,264	1,278	1,211	1,315	1,459	1,559	1,442	1,420
Atmospheric	49	71	68	87	73	100	90	85
Earth	547	543	513	586	612	655	607	650
Ocean	242	244	254	271	278	331	310	251
Other	426	420	376	371	496	473	435	434
Mathematics and statistics	1,238	1,257	1,282	1,442	1,525	1,606	1,571	1,489
Mathematics/applied mathematics	965	961	945	1,030	1,131	1,175	1,160	1,077
Statistics	273	296	337	412	394	431	411	412
Physical sciences	1,724	1,921	1,899	1,924	2,220	2,342	2,271	2,270
Astronomy	46	46	62	53	76	85	71	70
Chemistry	1,294	1,434	1,401	1,395	1,624	1,667	1,653	1,599
Physics	371	409	408	450	462	555	504	548
Other	13	32	28	26	58	35	43	53
Psychology	6,172	6,022	5,601	5,848	6,390	6,694	7,175	7,922
Clinical	1,435	1,485	1,410	1,303	1,477	1,552	1,748	1,811
General	2,140	1,902	1,820	1,962	1,928	2,188	2,116	2,455
Nonclinical	2,597	2,635	2,371	2,583	2,985	2,954	3,311	3,656
Social sciences	7,634	7,623	7,835	8,444	9,260	9,956	9,787	10,313
Agricultural economics	157	193	195	203	254	225	214	249
Anthropology (cultural and social)	724	734	710	702	771	843	786	828
Economics	847	810	976	936	1,107	1,102	1,006	960
Geography	317	363	321	378	354	389	365	376
History and philosophy of science	38	41	31	31	43	43	45	73
Linguistics	329	275	286	327	304	380	375	413
Political science and public administration	2,418	2,503	2,634	2,962	3,496	3,736	3,900	4,151
Sociology	922	852	857	957	1,010	1,020	886	953
Other	1,882	1,852	1,825	1,948	1,921	2,218	2,210	2,310
Engineering	3,864	4,253	4,819	5,048	5,689	6,046	5,377	5,342
Aerospace	89	96	127	111	120	131	150	128
Agricultural	52	82	67	71	67	71	68	61
Biomedical	217	241	345	323	459	519	521	493

TABLE D-4. First-time enrollment of full-time S&E graduate students, by field and sex: 1998–2005

Field and sex	1998	1999	2000	2001	2002	2003	2004	2005
Chemical	386	382	398	400	474	501	412	402
Civil	1,015	1,066	1,175	1,098	1,238	1,441	1,321	1,280
Electrical	926	1,112	1,247	1,558	1,712	1,666	1,281	1,327
Engineering science/physics	68	48	72	71	89	99	89	74
Industrial/manufacturing	313	349	459	443	476	530	453	462
Mechanical	350	390	432	478	482	516	461	477
Metallurgical/materials	251	248	243	262	297	261	258	273
Mining	9	10	11	7	9	14	5	7
Nuclear	29	35	43	40	26	40	51	48
Petroleum	15	21	25	23	34	31	31	24
Other	144	173	175	163	206	226	276	286
Male	43,879	44,334	46,177	48,182	49,804	50,507	48,388	49,832
Science	28,482	28,074	28,805	29,924	30,886	32,124	31,740	32,801
Agricultural sciences	1,256	1,235	1,179	1,166	1,160	1,177	1,149	1,056
Biological sciences	5,297	5,015	4,837	4,961	5,115	5,362	5,258	5,457
Anatomy	88	84	83	69	83	72	80	110
Biochemistry	559	483	478	417	423	497	442	436
Biology	1,201	1,172	1,058	1,037	1,077	1,109	1,129	1,292
Biometry/epidemiology	307	304	302	326	388	395	381	398
Biophysics	118	77	85	117	91	138	131	112
Botany	185	175	162	144	136	139	139	131
Cell/molecular biology	454	412	461	467	513	503	513	547
Ecology	138	113	127	149	144	125	128	115
Entomology/parasitology	149	115	84	110	112	87	104	80
Genetics	141	165	135	138	123	119	147	104
Microbiology, immunology, and virology	399	417	380	370	379	379	340	356
Nutrition	218	185	180	189	176	171	151	154
Pathology	122	145	103	118	110	88	100	90
Pharmacology	239	217	256	216	225	243	230	214
Physiology	396	357	313	324	337	369	346	319
Zoology	141	140	122	115	104	124	87	95
Other	442	454	508	655	694	804	810	904
Computer sciences	4,241	4,880	6,197	6,688	6,729	6,117	5,919	6,306
Earth, atmospheric, and ocean sciences	1,595	1,468	1,438	1,479	1,626	1,545	1,484	1,357
Atmospheric	140	132	154	118	140	168	138	143
Earth	801	753	717	797	825	757	729	677
Ocean	229	230	225	240	255	236	224	212
Other	425	353	342	324	406	384	393	325
Mathematics and statistics	2,096	2,014	2,137	2,244	2,393	2,579	2,681	2,707
Mathematics/applied mathematics	1,756	1,689	1,812	1,862	1,983	2,091	2,205	2,186
Statistics	340	325	325	382	410	488	476	521
Physical sciences	4,208	4,083	3,930	4,087	4,060	4,499	4,332	4,387
Astronomy	116	125	121	140	118	140	139	120
Chemistry	2,388	2,238	2,081	2,256	2,122	2,316	2,209	2,305
Physics	1,675	1,665	1,693	1,652	1,769	1,988	1,938	1,910
Other	29	55	35	39	51	55	46	52
Psychology	2,418	2,283	1,944	1,843	2,030	2,164	2,303	2,455
Clinical	566	507	419	428	421	434	503	507
General	920	843	714	690	729	821	863	961
Nonclinical	932	933	811	725	880	909	937	987
Social sciences	7,371	7,096	7,143	7,456	7,773	8,681	8,614	9,076
Agricultural economics	260	289	260	293	321	311	309	308
Anthropology (cultural and social)	495	459	447	417	406	436	401	429
Economics	1,505	1,545	1,532	1,626	1,736	1,819	1,680	1,716
Geography	488	467	463	494	458	526	495	522
History and philosophy of science	51	50	47	41	54	64	62	65
Linguistics	164	147	168	168	162	208	195	220
Political science and public administration	2,535	2,334	2,508	2,600	2,745	3,214	3,448	3,659

TABLE D-4. First-time enrollment of full-time S&E graduate students, by field and sex: 1998–2005

Field and sex	1998	1999	2000	2001	2002	2003	2004	2005
Sociology	506	455	443	474	525	523	473	551
Other	1,367	1,350	1,275	1,343	1,366	1,580	1,551	1,606
Engineering	15,397	16,260	17,372	18,258	18,918	18,383	16,648	17,031
Aerospace	628	631	648	656	592	714	684	676
Agricultural	123	130	121	121	134	126	109	129
Biomedical	458	483	570	561	666	808	753	774
Chemical	1,117	1,109	1,197	1,141	1,142	1,099	980	891
Civil	2,770	2,660	2,665	2,722	2,869	2,922	2,854	2,777
Electrical	4,815	5,257	5,948	6,324	6,509	6,168	5,352	5,660
Engineering science/physics	240	207	227	268	315	293	272	243
Industrial/manufacturing	1,234	1,502	1,546	1,773	1,762	1,499	1,271	1,212
Mechanical	2,573	2,729	2,837	3,105	3,227	2,960	2,668	2,748
Metallurgical/materials	649	644	762	713	747	697	668	719
Mining	35	35	37	33	32	59	59	51
Nuclear	124	115	120	124	123	137	141	145
Petroleum	117	128	124	130	164	135	120	137
Other	514	630	570	587	636	766	717	869

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1998–2005.

TABLE D-5. First-time enrollment of full-time S&E graduate students, by field, citizenship, and race/ethnicity: 2000–2005

Field, citizenship, and race/ethnicity	2000	2001	2002	2003	2004	2005
S&E	78,332	82,411	86,827	89,331	86,580	89,183
Science	56,141	59,105	62,220	64,902	64,555	66,810
Agricultural sciences	2,335	2,338	2,320	2,424	2,316	2,260
Biological sciences	10,955	11,608	12,127	12,719	12,796	12,896
Anatomy	198	159	193	178	180	213
Biochemistry	929	851	880	958	907	930
Biology	2,282	2,376	2,532	2,610	2,740	2,826
Biometry/epidemiology	837	953	1,001	1,022	986	1,069
Biophysics	128	162	166	223	210	174
Botany	357	315	335	307	336	316
Cell/molecular biology	977	993	1,085	1,125	1,140	1,186
Ecology	280	348	317	345	302	314
Entomology/parasitology	185	202	203	175	211	153
Genetics	380	382	362	373	441	365
Microbiology, immunology, and virology	823	884	914	909	889	868
Nutrition	830	906	890	895	843	863
Pathology	276	320	294	256	277	248
Pharmacology	549	507	554	552	510	466
Physiology	570	615	633	760	731	678
Zoology	230	247	231	258	212	199
Other	1,124	1,388	1,537	1,773	1,881	2,028
Computer sciences	8,431	9,077	9,037	8,134	7,783	8,258
Earth, atmospheric, and ocean sciences	2,649	2,794	3,085	3,104	2,926	2,777
Atmospheric	222	205	213	268	228	228
Earth	1,230	1,383	1,437	1,412	1,336	1,327
Ocean	479	511	533	567	534	463
Other	718	695	902	857	828	759
Mathematics and statistics	3,419	3,686	3,918	4,185	4,252	4,196
Mathematics/applied mathematics	2,757	2,892	3,114	3,266	3,365	3,263
Statistics	662	794	804	919	887	933
Physical sciences	5,829	6,011	6,280	6,841	6,603	6,657
Astronomy	183	193	194	225	210	190
Chemistry	3,482	3,651	3,746	3,983	3,862	3,904
Physics	2,101	2,102	2,231	2,543	2,442	2,458
Other	63	65	109	90	89	105
Psychology	7,545	7,691	8,420	8,858	9,478	10,377
Clinical	1,829	1,731	1,898	1,986	2,251	2,318
General	2,534	2,652	2,657	3,009	2,979	3,416
Nonclinical	3,182	3,308	3,865	3,863	4,248	4,643
Social sciences	14,978	15,900	17,033	18,637	18,401	19,389
Agricultural economics	455	496	575	536	523	557
Anthropology (cultural and social)	1,157	1,119	1,177	1,279	1,187	1,257
Economics	2,508	2,562	2,843	2,921	2,686	2,676
Geography	784	872	812	915	860	898
History and philosophy of science	78	72	97	107	107	138
Linguistics	454	495	466	588	570	633
Political science and public administration	5,142	5,562	6,241	6,950	7,348	7,810
Sociology	1,300	1,431	1,535	1,543	1,359	1,504
Other	3,100	3,291	3,287	3,798	3,761	3,916
Engineering	22,191	23,306	24,607	24,429	22,025	22,373
Aerospace	775	767	712	845	834	804
Agricultural	188	192	201	197	177	190
Biomedical	915	884	1,125	1,327	1,274	1,267
Chemical	1,595	1,541	1,616	1,600	1,392	1,293
Civil	3,840	3,820	4,107	4,363	4,175	4,057
Electrical	7,195	7,882	8,221	7,834	6,633	6,987
Engineering science/physics	299	339	404	392	361	317
Industrial/manufacturing	2,005	2,216	2,238	2,029	1,724	1,674

TABLE D-5. First-time enrollment of full-time S&E graduate students, by field, citizenship, and race/ethnicity: 2000–2005

Field, citizenship, and race/ethnicity	2000	2001	2002	2003	2004	2005
Mechanical	3,269	3,583	3,709	3,476	3,129	3,225
Metallurgical/materials	1,005	975	1,044	958	926	992
Mining	48	40	41	73	64	58
Nuclear	163	164	149	177	192	193
Petroleum	149	153	198	166	151	161
Other	745	750	842	992	993	1,155
U.S. citizens and permanent residents	46,316	48,232	54,653	59,669	58,966	60,469
Science	37,698	39,543	43,880	47,390	47,768	49,547
Agricultural sciences	1,916	1,845	1,856	1,971	1,870	1,828
Biological sciences	8,355	8,772	9,263	9,763	9,828	9,932
Anatomy	162	134	168	138	156	188
Biochemistry	577	530	561	627	564	601
Biology	1,837	1,883	2,052	2,139	2,263	2,256
Biometry/epidemiology	583	693	648	706	709	779
Biophysics	88	104	117	154	146	128
Botany	244	224	226	231	218	208
Cell/molecular biology	748	715	814	822	827	880
Ecology	241	303	280	291	261	282
Entomology/parasitology	146	144	163	142	163	118
Genetics	307	293	298	283	341	284
Microbiology, immunology, and virology	640	660	686	718	671	681
Nutrition	603	668	673	678	616	656
Pathology	215	266	248	194	227	198
Pharmacology	382	350	417	415	385	323
Physiology	475	519	552	640	645	596
Zoology	195	216	194	221	182	161
Other	912	1,070	1,166	1,364	1,454	1,593
Computer sciences	2,414	2,621	3,534	3,891	3,651	3,664
Earth, atmospheric, and ocean sciences	2,082	2,210	2,550	2,573	2,469	2,288
Atmospheric	147	140	159	220	186	173
Earth	986	1,091	1,179	1,129	1,102	1,088
Ocean	374	426	447	485	476	376
Other	575	553	765	739	705	651
Mathematics and statistics	1,849	2,030	2,311	2,527	2,637	2,571
Mathematics/applied mathematics	1,532	1,717	1,952	2,106	2,227	2,171
Statistics	317	313	359	421	410	400
Physical sciences	3,323	3,325	3,775	4,095	4,039	4,154
Astronomy	123	135	137	150	145	144
Chemistry	2,151	2,125	2,292	2,442	2,400	2,468
Physics	1,009	1,025	1,270	1,442	1,420	1,448
Other	40	40	76	61	74	94
Psychology	7,060	7,167	7,902	8,285	8,960	9,838
Clinical	1,751	1,634	1,806	1,898	2,170	2,231
General	2,342	2,455	2,466	2,794	2,777	3,221
Nonclinical	2,967	3,078	3,630	3,593	4,013	4,386
Social sciences	10,699	11,573	12,689	14,285	14,314	15,272
Agricultural economics	231	250	353	321	319	343
Anthropology (cultural and social)	996	985	1,028	1,142	1,068	1,145
Economics	976	1,025	1,206	1,373	1,270	1,236
Geography	626	703	675	741	731	759
History and philosophy of science	65	62	90	95	97	115
Linguistics	257	294	305	405	381	440
Political science and public administration	3,870	4,291	4,949	5,561	6,002	6,489
Sociology	1,062	1,163	1,302	1,340	1,204	1,320
Other	2,616	2,800	2,781	3,307	3,242	3,425
Engineering	8,618	8,689	10,773	12,279	11,198	10,922
Aerospace	374	348	396	536	537	508
Agricultural	111	106	118	118	96	94

Women, Minorities, and Persons with Disabilities in Science and Engineering

TABLE D-5. First-time enrollment of full-time S&E graduate students, by field, citizenship, and race/ethnicity: 2000–2005

Field, citizenship, and race/ethnicity	2000	2001	2002	2003	2004	2005
Biomedical	593	554	710	879	841	821
Chemical	659	616	765	856	733	629
Civil	2,009	1,989	2,250	2,595	2,591	2,492
Electrical	1,901	1,985	2,679	3,127	2,458	2,430
Engineering science/physics	136	164	228	231	225	177
Industrial/manufacturing	596	600	789	840	759	697
Mechanical	1,238	1,384	1,692	1,847	1,690	1,673
Metallurgical/materials	413	410	502	479	454	482
Mining	28	27	27	38	37	35
Nuclear	78	76	99	114	138	143
Petroleum	56	52	47	25	46	26
Other	426	378	471	594	593	715
White	33,868	34,664	38,769	41,619	40,628	41,096
Science	27,874	28,737	31,480	33,551	33,019	33,866
Agricultural sciences	1,670	1,560	1,571	1,638	1,528	1,457
Biological sciences	6,222	6,368	6,789	6,928	6,811	6,735
Anatomy	120	117	121	96	107	125
Biochemistry	415	380	423	417	401	381
Biology	1,430	1,396	1,593	1,580	1,607	1,582
Biometry/epidemiology	364	448	417	460	418	473
Biophysics	59	69	75	118	104	85
Botany	214	195	190	186	168	176
Cell/molecular biology	536	473	551	546	538	578
Ecology	210	254	234	238	217	236
Entomology/parasitology	126	118	150	122	140	100
Genetics	233	217	228	205	261	214
Microbiology, immunology, and virology	461	478	481	506	452	447
Nutrition	499	536	544	529	456	510
Pathology	161	195	182	130	176	140
Pharmacology	281	230	280	261	245	217
Physiology	283	334	340	416	383	325
Zoology	173	195	171	192	160	125
Other	657	733	809	926	978	1,021
Computer sciences	1,481	1,578	2,046	2,399	2,163	2,241
Earth, atmospheric, and ocean sciences	1,836	1,935	2,164	2,175	2,069	1,932
Atmospheric	124	125	142	190	155	141
Earth	882	979	1,004	984	955	955
Ocean	339	360	385	410	407	316
Other	491	471	633	591	552	520
Mathematics and statistics	1,384	1,569	1,722	1,848	1,912	1,865
Mathematics/applied mathematics	1,162	1,321	1,465	1,546	1,633	1,591
Statistics	222	248	257	302	279	274
Physical sciences	2,587	2,557	2,935	3,113	3,034	3,175
Astronomy	98	115	113	118	126	115
Chemistry	1,666	1,621	1,781	1,817	1,762	1,878
Physics	788	790	985	1,128	1,092	1,107
Other	35	31	56	50	54	75
Psychology	5,274	5,251	5,793	5,971	6,088	6,515
Clinical	1,318	1,171	1,309	1,352	1,482	1,461
General	1,728	1,822	1,863	2,047	1,991	2,250
Nonclinical	2,228	2,258	2,621	2,572	2,615	2,804
Social sciences	7,420	7,919	8,460	9,479	9,414	9,946
Agricultural economics	197	213	300	262	262	268
Anthropology (cultural and social)	778	768	776	859	787	845
Economics	687	700	770	894	870	889
Geography	546	605	590	626	604	612
History and philosophy of science	54	53	68	69	73	92

TABLE D-5. First-time enrollment of full-time S&E graduate students, by field, citizenship, and race/ethnicity: 2000–2005

Field, citizenship, and race/ethnicity	2000	2001	2002	2003	2004	2005
Linguistics	195	220	231	290	274	294
Political science and public administration	2,466	2,799	3,068	3,476	3,731	3,964
Sociology	748	804	876	905	830	897
Other	1,749	1,757	1,781	2,098	1,983	2,085
Engineering	5,994	5,927	7,289	8,068	7,609	7,230
Aerospace	285	295	308	394	408	354
Agricultural	89	85	100	92	78	75
Biomedical	411	354	455	538	488	501
Chemical	455	434	510	576	556	432
Civil	1,542	1,470	1,701	1,970	1,962	1,863
Electrical	1,121	1,144	1,480	1,617	1,383	1,318
Engineering science/physics	96	112	171	178	166	122
Industrial/manufacturing	355	392	514	512	452	404
Mechanical	950	983	1,244	1,322	1,242	1,222
Metallurgical/materials	323	321	383	338	349	359
Mining	25	22	24	35	29	27
Nuclear	63	65	85	95	110	116
Petroleum	13	6	10	17	27	13
Other	266	244	304	384	359	424
Asian/Pacific Islander	4,061	4,300	5,376	5,808	5,628	5,721
Science	2,906	3,042	3,596	3,855	4,018	4,163
Agricultural sciences	39	51	50	55	59	64
Biological sciences	883	927	990	1,126	1,235	1,209
Anatomy	18	10	16	19	17	22
Biochemistry	78	69	53	103	80	89
Biology	128	105	125	154	183	181
Biometry/epidemiology	83	111	100	110	126	122
Biophysics	22	23	22	18	23	20
Botany	14	13	12	22	17	11
Cell/molecular biology	103	95	116	114	135	140
Ecology	7	8	7	9	10	11
Entomology/parasitology	5	8	2	7	8	2
Genetics	31	27	34	39	28	21
Microbiology, immunology, and virology	56	71	80	77	102	76
Nutrition	40	55	48	57	50	58
Pathology	23	32	35	27	26	21
Pharmacology	52	54	50	57	53	42
Physiology	125	133	156	165	194	200
Zoology	4	4	5	8	10	10
Other	94	109	129	140	173	183
Computer sciences	551	553	830	736	656	637
Earth, atmospheric, and ocean sciences	58	71	79	66	85	77
Atmospheric	4	6	5	16	7	9
Earth	26	29	36	15	30	24
Ocean	9	14	14	8	14	11
Other	19	22	24	27	34	33
Mathematics and statistics	176	181	234	269	288	278
Mathematics/applied mathematics	132	152	180	213	220	209
Statistics	44	29	54	56	68	69
Physical sciences	275	241	237	297	318	340
Astronomy	7	6	9	11	6	8
Chemistry	189	153	151	201	223	223
Physics	78	78	68	79	82	103
Other	1	4	9	6	7	6

Women, Minorities, and Persons with Disabilities in Science and Engineering

TABLE D-5. First-time enrollment of full-time S&E graduate students, by field, citizenship, and race/ethnicity: 2000–2005

Field, citizenship, and race/ethnicity	2000	2001	2002	2003	2004	2005
Psychology	341	330	357	394	466	491
Clinical	97	83	88	97	111	121
General	109	118	114	155	164	177
Nonclinical	135	129	155	142	191	193
Social sciences	583	688	819	912	911	1,067
Agricultural economics	3	7	10	11	13	11
Anthropology (cultural and social)	36	36	42	44	31	53
Economics	85	110	142	162	149	142
Geography	16	27	18	29	27	31
History and philosophy of science	3	1	5	5	5	5
Linguistics	17	28	26	35	28	46
Political science and public administration	253	283	340	349	387	498
Sociology	47	59	74	78	58	78
Other	123	137	162	199	213	203
Engineering	1,155	1,258	1,780	1,953	1,610	1,558
Aerospace	42	23	41	50	46	61
Agricultural	5	11	11	13	14	11
Biomedical	103	111	146	154	195	175
Chemical	101	94	130	131	79	87
Civil	153	180	211	218	225	203
Electrical	422	444	743	864	582	582
Engineering science/physics	21	33	39	31	38	27
Industrial/manufacturing	74	75	119	132	86	100
Mechanical	112	177	195	208	171	171
Metallurgical/materials	46	36	69	73	55	59
Mining	1	5	1	2	2	2
Nuclear	8	3	3	7	9	7
Petroleum	11	12	8	2	10	2
Other	56	54	64	68	98	71
Black	2,908	3,020	3,341	3,584	3,869	3,988
Science	2,446	2,617	2,858	3,080	3,353	3,464
Agricultural sciences	51	65	64	105	74	104
Biological sciences	386	472	457	503	619	616
Anatomy	9	1	7	3	7	11
Biochemistry	27	20	19	33	23	34
Biology	88	137	106	114	166	164
Biometry/epidemiology	33	45	52	41	58	63
Biophysics	2	3	4	4	3	2
Botany	6	3	6	1	1	2
Cell/molecular biology	26	34	31	31	44	35
Ecology	2	3	3	8	5	1
Entomology/parasitology	3	5	1	2	2	2
Genetics	14	13	9	13	16	13
Microbiology, immunology, and virology	35	35	36	40	41	45
Nutrition	23	29	28	27	46	34
Pathology	9	12	9	13	10	6
Pharmacology	19	32	33	34	47	28
Physiology	23	21	16	19	22	21
Zoology	4	2	5	0	1	1
Other	63	77	92	120	127	154
Computer sciences	130	142	191	207	226	207
Earth, atmospheric, and ocean sciences	31	38	49	51	38	48
Atmospheric	2	1	5	2	7	8
Earth	7	10	16	15	8	9

TABLE D-5. First-time enrollment of full-time S&E graduate students, by field, citizenship, and race/ethnicity: 2000–2005

Field, citizenship, and race/ethnicity	2000	2001	2002	2003	2004	2005
Ocean	3	10	10	8	5	13
Other	19	17	18	26	18	18
Mathematics and statistics	105	87	118	130	142	134
Mathematics/applied mathematics	93	77	102	105	118	120
Statistics	12	10	16	25	24	14
Physical sciences	146	161	168	186	194	168
Astronomy	3	1	2	2	3	1
Chemistry	110	121	114	131	136	109
Physics	32	38	50	52	50	55
Other	1	1	2	1	5	3
Psychology	530	530	562	581	656	756
Clinical	115	99	116	120	131	129
General	201	217	184	222	223	292
Nonclinical	214	214	262	239	302	335
Social sciences	1,067	1,122	1,249	1,317	1,404	1,431
Agricultural economics	18	15	26	18	14	25
Anthropology (cultural and social)	40	28	34	42	43	43
Economics	61	38	58	75	78	62
Geography	13	20	18	18	20	21
History and philosophy of science	1	0	3	3	3	3
Linguistics	5	3	3	9	13	16
Political science and public administration	542	529	591	596	685	702
Sociology	95	147	161	176	143	152
Other	292	342	355	380	405	407
Engineering	462	403	483	504	516	524
Aerospace	14	4	8	9	18	12
Agricultural	5	5	5	5	2	1
Biomedical	26	29	32	35	50	38
Chemical	36	31	36	37	30	28
Civil	79	72	59	47	84	74
Electrical	108	108	130	136	121	124
Engineering science/physics	2	2	7	4	3	7
Industrial/manufacturing	72	50	79	76	73	70
Mechanical	58	60	66	70	58	69
Metallurgical/materials	23	20	23	22	8	15
Mining	0	0	0	0	1	1
Nuclear	4	0	1	3	4	4
Petroleum	0	0	1	2	6	9
Other	35	22	36	58	58	72
Hispanic	2,331	2,626	3,020	3,313	3,425	3,816
Science	1,872	2,146	2,468	2,634	2,776	3,167
Agricultural sciences	75	65	69	78	93	86
Biological sciences	385	487	524	537	545	631
Anatomy	8	3	8	10	13	11
Biochemistry	28	35	39	38	28	42
Biology	82	126	110	121	119	152
Biometry/epidemiology	38	32	48	56	57	54
Biophysics	1	7	3	5	9	6
Botany	2	4	4	6	14	6
Cell/molecular biology	40	46	61	42	51	57
Ecology	6	11	11	5	10	13
Entomology/parasitology	8	7	3	5	6	9
Genetics	7	16	12	4	13	10
Microbiology, immunology, and virology	36	47	53	61	44	58

Women, Minorities, and Persons with Disabilities in Science and Engineering

TABLE D-5. First-time enrollment of full-time S&E graduate students, by field, citizenship, and race/ethnicity: 2000–2005

Field, citizenship, and race/ethnicity	2000	2001	2002	2003	2004	2005
Nutrition	18	19	24	38	33	19
Pathology	7	16	8	13	7	14
Pharmacology	20	25	33	22	17	21
Physiology	19	12	22	15	29	27
Zoology	4	6	4	5	4	11
Other	61	75	81	91	91	121
Computer sciences	56	70	102	121	140	150
Earth, atmospheric, and ocean sciences	65	67	90	87	92	89
Atmospheric	3	2	2	3	8	10
Earth	29	24	43	29	36	31
Ocean	14	26	25	33	27	19
Other	19	15	20	22	21	29
Mathematics and statistics	73	87	88	97	96	115
Mathematics/applied mathematics	60	77	77	84	80	101
Statistics	13	10	11	13	16	14
Physical sciences	136	153	193	217	209	208
Astronomy	4	3	4	6	5	7
Chemistry	96	117	129	147	126	130
Physics	34	31	55	62	76	67
Other	2	2	5	2	2	4
Psychology	403	416	556	585	637	748
Clinical	114	124	149	166	194	195
General	142	111	135	162	159	233
Nonclinical	147	181	272	257	284	320
Social sciences	679	801	846	912	964	1,140
Agricultural economics	5	9	8	12	12	16
Anthropology (cultural and social)	52	65	77	71	80	77
Economics	36	63	62	73	60	51
Geography	18	11	16	25	22	38
History and philosophy of science	0	3	5	4	2	5
Linguistics	17	17	20	18	27	30
Political science and public administration	277	298	335	348	437	507
Sociology	87	83	99	102	81	89
Other	187	252	224	259	243	327
Engineering	459	480	552	679	649	649
Aerospace	11	7	14	25	27	28
Agricultural	7	3	0	2	0	5
Biomedical	21	18	23	37	37	38
Chemical	39	31	52	71	44	44
Civil	139	155	139	175	148	157
Electrical	87	93	144	157	162	157
Engineering science/physics	4	4	4	9	5	7
Industrial/manufacturing	52	34	41	43	73	51
Mechanical	60	84	86	108	96	102
Metallurgical/materials	9	14	13	20	18	14
Mining	1	0	0	0	2	2
Nuclear	3	7	5	5	4	8
Petroleum	16	18	10	2	2	1
Other	10	12	21	25	31	35
American Indian/Alaska Native	248	296	272	318	343	336
Science	218	258	232	267	300	297
Agricultural sciences	11	11	16	15	20	14
Biological sciences	33	42	29	56	45	44
Anatomy	1	1	0	3	0	0

TABLE D-5. First-time enrollment of full-time S&E graduate students, by field, citizenship, and race/ethnicity: 2000–2005

Field, citizenship, and race/ethnicity	2000	2001	2002	2003	2004	2005
Biochemistry	2	1	1	5	3	4
Biology	9	9	4	9	10	12
Biometry/epidemiology	4	5	3	5	2	4
Biophysics	0	0	0	0	3	0
Botany	0	1	0	1	1	0
Cell/molecular biology	2	4	3	2	4	6
Ecology	1	3	2	2	2	1
Entomology/parasitology	1	0	0	1	0	0
Genetics	2	2	2	1	3	1
Microbiology, immunology, and virology	4	2	4	3	3	2
Nutrition	0	2	2	3	2	3
Pathology	0	0	0	2	0	2
Pharmacology	2	2	3	7	5	1
Physiology	1	4	3	3	1	1
Zoology	1	2	0	3	1	2
Other	3	4	2	6	5	5
Computer sciences	3	11	11	13	13	11
Earth, atmospheric, and ocean sciences	13	17	17	7	19	13
Atmospheric	1	2	1	1	2	0
Earth	7	8	5	3	6	10
Ocean	1	2	3	1	4	1
Other	4	5	8	2	7	2
Mathematics and statistics	5	5	3	5	9	6
Mathematics/applied mathematics	4	4	3	5	9	6
Statistics	1	1	0	0	0	0
Physical sciences	12	15	20	14	16	16
Astronomy	1	0	2	1	0	1
Chemistry	9	12	10	11	12	10
Physics	2	3	8	1	3	4
Other	0	0	0	1	1	1
Psychology	40	50	49	57	61	44
Clinical	9	14	17	17	19	12
General	14	13	17	19	18	12
Nonclinical	17	23	15	21	24	20
Social sciences	101	107	87	100	117	149
Agricultural economics	1	0	2	1	5	6
Anthropology (cultural and social)	16	16	6	20	17	29
Economics	4	7	6	4	1	5
Geography	2	4	4	2	4	9
History and philosophy of science	0	0	0	1	0	1
Linguistics	0	5	3	3	6	6
Political science and public administration	27	31	21	32	41	43
Sociology	14	12	7	8	7	9
Other	37	32	38	29	36	41
Engineering	30	38	40	51	43	39
Aerospace	3	1	1	7	1	3
Agricultural	1	0	0	0	0	0
Biomedical	0	1	2	1	5	2
Chemical	1	4	9	2	3	3
Civil	12	7	11	7	11	9
Electrical	4	5	5	13	6	6
Engineering science/physics	2	2	2	5	1	2
Industrial/manufacturing	3	8	0	4	5	5
Mechanical	4	6	6	8	8	4

TABLE D-5. First-time enrollment of full-time S&E graduate students, by field, citizenship, and race/ethnicity: 2000–2005

Field, citizenship, and race/ethnicity	2000	2001	2002	2003	2004	2005
Metallurgical/materials	0	1	0	2	0	1
Mining	0	0	2	0	0	0
Nuclear	0	0	0	0	1	1
Petroleum	0	0	0	0	0	0
Other	0	3	2	2	2	3
Other race/ethnicity	2,900	3,326	3,875	5,027	5,073	5,512
Science	2,382	2,743	3,246	4,003	4,302	4,590
Agricultural sciences	70	93	86	80	96	103
Biological sciences	446	476	474	613	573	697
Anatomy	6	2	16	7	12	19
Biochemistry	27	25	26	31	29	51
Biology	100	110	114	161	178	165
Biometry/epidemiology	61	52	28	34	48	63
Biophysics	4	2	13	9	4	15
Botany	8	8	14	15	17	13
Cell/molecular biology	41	63	52	87	55	64
Ecology	15	24	23	29	17	20
Entomology/parasitology	3	6	7	5	7	5
Genetics	20	18	13	21	20	25
Microbiology, immunology, and virology	48	27	32	31	29	53
Nutrition	23	27	27	24	29	32
Pathology	15	11	14	9	8	15
Pharmacology	8	7	18	34	18	14
Physiology	24	15	15	22	16	22
Zoology	9	7	9	13	6	12
Other	34	72	53	81	80	109
Computer sciences	193	267	354	415	453	418
Earth, atmospheric, and ocean sciences	79	82	151	187	166	129
Atmospheric	13	4	4	8	7	5
Earth	35	41	75	83	67	59
Ocean	8	14	10	25	19	16
Other	23	23	62	71	73	49
Mathematics and statistics	106	101	146	178	190	173
Mathematics/applied mathematics	81	86	125	153	167	144
Statistics	25	15	21	25	23	29
Physical sciences	167	198	222	268	268	247
Astronomy	10	10	7	12	5	12
Chemistry	81	101	107	135	141	118
Physics	75	85	104	120	117	112
Other	1	2	4	1	5	5
Psychology	472	590	585	697	1,052	1,284
Clinical	98	143	127	146	233	313
General	148	174	153	189	222	257
Nonclinical	226	273	305	362	597	714
Social sciences	849	936	1,228	1,565	1,504	1,539
Agricultural economics	7	6	7	17	13	17
Anthropology (cultural and social)	74	72	93	106	110	98
Economics	103	107	168	165	112	87
Geography	31	36	29	41	54	48
History and philosophy of science	7	5	9	13	14	9
Linguistics	23	21	22	50	33	48
Political science and public administration	305	351	594	760	721	775
Sociology	71	58	85	71	85	95
Other	228	280	221	342	362	362

TABLE D-5. First-time enrollment of full-time S&E graduate students, by field, citizenship, and race/ethnicity: 2000–2005

Field, citizenship, and race/ethnicity	2000	2001	2002	2003	2004	2005
Engineering	518	583	629	1,024	771	922
Aerospace	19	18	24	51	37	50
Agricultural	4	2	2	6	2	2
Biomedical	32	41	52	114	66	67
Chemical	27	22	28	39	21	35
Civil	84	105	129	178	161	186
Electrical	159	191	177	340	204	243
Engineering science/physics	11	11	5	4	12	12
Industrial/manufacturing	40	41	36	73	70	67
Mechanical	54	74	95	131	115	105
Metallurgical/materials	12	18	14	24	24	34
Mining	1	0	0	1	3	3
Nuclear	0	1	5	4	10	7
Petroleum	16	16	18	2	1	1
Other	59	43	44	57	45	110
Temporary residents	32,016	34,179	32,174	29,662	27,614	28,714
Science	18,443	19,562	18,340	17,512	16,787	17,263
Agricultural sciences	419	493	464	453	446	432
Biological sciences	2,600	2,836	2,864	2,956	2,968	2,964
Anatomy	36	25	25	40	24	25
Biochemistry	352	321	319	331	343	329
Biology	445	493	480	471	477	570
Biometry/epidemiology	254	260	353	316	277	290
Biophysics	40	58	49	69	64	46
Botany	113	91	109	76	118	108
Cell/molecular biology	229	278	271	303	313	306
Ecology	39	45	37	54	41	32
Entomology/parasitology	39	58	40	33	48	35
Genetics	73	89	64	90	100	81
Microbiology, immunology, and virology	183	224	228	191	218	187
Nutrition	227	238	217	217	227	207
Pathology	61	54	46	62	50	50
Pharmacology	167	157	137	137	125	143
Physiology	95	96	81	120	86	82
Zoology	35	31	37	37	30	38
Other	212	318	371	409	427	435
Computer sciences	6,017	6,456	5,503	4,243	4,132	4,594
Earth, atmospheric, and ocean sciences	567	584	535	531	457	489
Atmospheric	75	65	54	48	42	55
Earth	244	292	258	283	234	239
Ocean	105	85	86	82	58	87
Other	143	142	137	118	123	108
Mathematics and statistics	1,570	1,656	1,607	1,658	1,615	1,625
Mathematics/applied mathematics	1,225	1,175	1,162	1,160	1,138	1,092
Statistics	345	481	445	498	477	533
Physical sciences	2,506	2,686	2,505	2,746	2,564	2,503
Astronomy	60	58	57	75	65	46
Chemistry	1,331	1,526	1,454	1,541	1,462	1,436
Physics	1,092	1,077	961	1,101	1,022	1,010
Other	23	25	33	29	15	11
Psychology	485	524	518	573	518	539
Clinical	78	97	92	88	81	87
General	192	197	191	215	202	195
Nonclinical	215	230	235	270	235	257

TABLE D-5. First-time enrollment of full-time S&E graduate students, by field, citizenship, and race/ethnicity: 2000–2005

Field, citizenship, and race/ethnicity	2000	2001	2002	2003	2004	2005
Social sciences	4,279	4,327	4,344	4,352	4,087	4,117
Agricultural economics	224	246	222	215	204	214
Anthropology (cultural and social)	161	134	149	137	119	112
Economics	1,532	1,537	1,637	1,548	1,416	1,440
Geography	158	169	137	174	129	139
History and philosophy of science	13	10	7	12	10	23
Linguistics	197	201	161	183	189	193
Political science and public administration	1,272	1,271	1,292	1,389	1,346	1,321
Sociology	238	268	233	203	155	184
Other	484	491	506	491	519	491
Engineering	13,573	14,617	13,834	12,150	10,827	11,451
Aerospace	401	419	316	309	297	296
Agricultural	77	86	83	79	81	96
Biomedical	322	330	415	448	433	446
Chemical	936	925	851	744	659	664
Civil	1,831	1,831	1,857	1,768	1,584	1,565
Electrical	5,294	5,897	5,542	4,707	4,175	4,557
Engineering science/physics	163	175	176	161	136	140
Industrial/manufacturing	1,409	1,616	1,449	1,189	965	977
Mechanical	2,031	2,199	2,017	1,629	1,439	1,552
Metallurgical/materials	592	565	542	479	472	510
Mining	20	13	14	35	27	23
Nuclear	85	88	50	63	54	50
Petroleum	93	101	151	141	105	135
Other	319	372	371	398	400	440

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2000–2005.

Women, Minorities, and Persons with Disabilities in Science and Engineering

TABLE D-6. Black U.S.-citizen and permanent-resident S&E graduate students in all institutions and HBCUs, by field and sex: 2005

Field	All institutions			HBCUs			Black students in HBCUs		
	Both sexes	Female	Male	Both sexes	Female	Male	Both sexes	Female	Male
	Number						Percent		
S&E	25,346	15,693	9,653	4,217	2,713	1,504	16.6	17.3	15.6
Science	21,876	14,593	7,283	3,823	2,593	1,230	17.5	17.8	16.9
Agricultural sciences	417	245	172	185	109	76	44.4	44.5	44.2
Biological sciences	2,980	2,058	922	539	366	173	18.1	17.8	18.8
Anatomy	48	29	19	10	6	4	20.8	20.7	21.1
Biochemistry	169	101	68	22	15	7	13.0	14.9	10.3
Biology	791	521	270	255	181	74	32.2	34.7	27.4
Biometry and epidemiology	282	209	73	0	0	0	0.0	0.0	0.0
Biophysics	24	10	14	0	0	0	0.0	0.0	0.0
Botany	17	13	4	0	0	0	0.0	0.0	0.0
Cell and molecular biology	176	115	61	0	0	0	0.0	0.0	0.0
Ecology	28	20	8	0	0	0	0.0	0.0	0.0
Entomology and parasitology	14	10	4	0	0	0	0.0	0.0	0.0
Genetics	70	55	15	22	16	6	31.4	29.1	40.0
Microbiology, immunology, and virology	255	171	84	42	28	14	16.5	16.4	16.7
Nutrition	270	218	52	80	60	20	29.6	27.5	38.5
Pathology	67	53	14	0	0	0	0.0	0.0	0.0
Pharmacology	184	119	65	37	19	18	20.1	16.0	27.7
Physiology	97	65	32	20	11	9	20.6	16.9	28.1
Zoology	12	6	6	0	0	0	0.0	0.0	0.0
Other	476	343	133	51	30	21	10.7	8.7	15.8
Computer sciences	1,761	712	1,049	193	82	111	11.0	11.5	10.6
Earth, atmospheric, and ocean sciences	262	152	110	57	30	27	21.8	19.7	24.5
Atmospheric	30	13	17	14	6	8	46.7	46.2	47.1
Earth	82	43	39	0	0	0	0.0	0.0	0.0
Ocean	37	27	10	0	0	0	0.0	0.0	0.0
Other	113	69	44	43	24	19	38.1	34.8	43.2
Mathematics and statistics	721	350	371	125	65	60	17.3	18.6	16.2
Mathematics/applied mathematics	617	300	317	125	65	60	20.3	21.7	18.9
Statistics	104	50	54	0	0	0	0.0	0.0	0.0
Physical sciences	1,008	482	526	226	110	116	22.4	22.8	22.1
Astronomy	10	5	5	0	0	0	0.0	0.0	0.0
Chemistry	694	396	298	123	79	44	17.7	19.9	14.8
Physics	272	67	205	103	31	72	37.9	46.3	35.1
Other	32	14	18	0	0	0	0.0	0.0	0.0
Psychology	5,251	4,298	953	912	770	142	17.4	17.9	14.9
Clinical	874	716	158	0	0	0	0.0	0.0	0.0
General	1,682	1,334	348	434	367	67	25.8	27.5	19.3
Nonclinical	2,695	2,248	447	478	403	75	17.7	17.9	16.8
Social sciences	9,476	6,296	3,180	1,586	1,061	525	16.7	16.9	16.5
Agricultural economics	65	38	27	14	8	6	21.5	21.1	22.2
Anthropology (cultural and social)	277	225	52	0	0	0	0.0	0.0	0.0
Economics	319	141	178	15	7	8	4.7	5.0	4.5
Geography	160	83	77	0	0	0	0.0	0.0	0.0
History and philosophy of science	42	20	22	1	1	0	2.4	5.0	0.0
Linguistics	64	43	21	0	0	0	0.0	0.0	0.0
Political science and public administration	5,000	3,323	1,677	846	562	284	16.9	16.9	16.9
Sociology	1,086	775	311	178	130	48	16.4	16.8	15.4
Other	2,463	1,648	815	532	353	179	21.6	21.4	22.0
Engineering	3,470	1,100	2,370	394	120	274	11.4	10.9	11.6
Aerospace	73	15	58	0	0	0	0.0	0.0	0.0
Agricultural	25	12	13	0	0	0	0.0	0.0	0.0
Biomedical	192	103	89	0	0	0	0.0	0.0	0.0
Chemical	146	60	86	5	1	4	3.4	1.7	4.7
Civil	456	161	295	57	28	29	12.5	17.4	9.8
Electrical	843	189	654	59	14	45	7.0	7.4	6.9
Engineering sciences/physics	36	10	26	0	0	0	0.0	0.0	0.0

Women, Minorities, and Persons with Disabilities in Science and Engineering

TABLE D-6. Black U.S.-citizen and permanent-resident S&E graduate students in all institutions and HBCUs, by field and sex: 2005

Field	All institutions			HBCUs			Black students in HBCUs		
	Both sexes	Female	Male	Both sexes	Female	Male	Both sexes	Female	Male
	Number						Percent		
Industrial/manufacturing	764	282	482	53	22	31	6.9	7.8	6.4
Mechanical	411	90	321	45	3	42	10.9	3.3	13.1
Metallurgical and materials	102	49	53	9	3	6	8.8	6.1	11.3
Mining	3	0	3	0	0	0	0.0	0.0	0.0
Nuclear	21	13	8	0	0	0	0.0	0.0	0.0
Petroleum	31	4	27	0	0	0	0.0	0.0	0.0
Other	367	112	255	166	49	117	45.2	43.8	45.9

HBCUs = historically black colleges and universities

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2005.

TABLE D-10. Enrollment status of S&E graduate students, by field and sex: 2005

Field	All graduate students			Female			Male		
	Total	Full time	Part time	Total	Full time	Part time	Total	Full time	Part time
S&E	478,782	341,778	137,004	206,663	146,154	60,509	272,119	195,624	76,495
Science	358,309	257,403	100,906	179,785	126,696	53,089	178,524	130,707	47,817
Agricultural sciences	13,123	9,710	3,413	6,202	4,699	1,503	6,921	5,011	1,910
Biological sciences	68,449	57,651	10,798	38,503	32,074	6,429	29,946	25,577	4,369
Anatomy	938	844	94	466	411	55	472	433	39
Biochemistry	5,814	5,470	344	2,818	2,655	163	2,996	2,815	181
Biology	15,668	11,913	3,755	8,631	6,508	2,123	7,037	5,405	1,632
Biometry and epidemiology	4,805	3,417	1,388	3,009	2,188	821	1,796	1,229	567
Biophysics	1,183	1,120	63	408	388	20	775	732	43
Botany	1,860	1,667	193	985	884	101	875	783	92
Cell and molecular biology	6,177	5,770	407	3,290	3,036	254	2,887	2,734	153
Ecology	2,165	1,600	565	1,210	889	321	955	711	244
Entomology and parasitology	1,126	943	183	520	444	76	606	499	107
Genetics	2,155	2,063	92	1,309	1,259	50	846	804	42
Microbiology, immunology, and virology	5,401	5,074	327	3,082	2,881	201	2,319	2,193	126
Nutrition	4,817	3,424	1,393	3,791	2,672	1,119	1,026	752	274
Pathology	1,576	1,358	218	947	818	129	629	540	89
Pharmacology	3,114	2,905	209	1,713	1,594	119	1,401	1,311	90
Physiology	2,399	2,187	212	1,255	1,159	96	1,144	1,028	116
Zoology	1,264	1,094	170	636	557	79	628	537	91
Other	7,987	6,802	1,185	4,433	3,731	702	3,554	3,071	483
Computer sciences	48,046	28,317	19,729	12,061	6,628	5,433	35,985	21,689	14,296
Earth, atmospheric, and ocean sciences	14,827	11,370	3,457	6,888	5,264	1,624	7,939	6,106	1,833
Atmospheric	1,146	1,002	144	388	345	43	758	657	101
Earth	7,212	5,537	1,675	3,043	2,363	680	4,169	3,174	995
Ocean	2,760	2,198	562	1,481	1,144	337	1,279	1,054	225
Other	3,709	2,633	1,076	1,976	1,412	564	1,733	1,221	512
Mathematics and statistics	20,210	15,261	4,949	7,437	5,180	2,257	12,773	10,081	2,692
Mathematics/applied mathematics	16,106	12,051	4,055	5,560	3,712	1,848	10,546	8,339	2,207
Statistics	4,104	3,210	894	1,877	1,468	409	2,227	1,742	485
Physical sciences	36,396	32,386	4,010	11,726	10,336	1,390	24,670	22,050	2,620
Astronomy	1,191	1,129	62	394	373	21	797	756	41
Chemistry	21,122	18,760	2,362	8,423	7,424	999	12,699	11,336	1,363
Physics	13,472	12,210	1,262	2,669	2,404	265	10,803	9,806	997
Other	611	287	324	240	135	105	371	152	219
Psychology	57,412	38,957	18,455	43,419	29,082	14,337	13,993	9,875	4,118
Clinical	14,283	10,531	3,752	11,012	8,082	2,930	3,271	2,449	822
General	16,786	12,091	4,695	12,061	8,520	3,541	4,725	3,571	1,154
Nonclinical	26,343	16,335	10,008	20,346	12,480	7,866	5,997	3,855	2,142
Social sciences	99,846	63,751	36,095	53,549	33,433	20,116	46,297	30,318	15,979
Agricultural economics	2,118	1,822	296	873	761	112	1,245	1,061	184
Anthropology (cultural and social)	7,706	5,833	1,873	4,924	3,727	1,197	2,782	2,106	676
Economics	11,805	9,715	2,090	4,254	3,465	789	7,551	6,250	1,301
Geography	4,772	3,196	1,576	2,013	1,374	639	2,759	1,822	937
History and philosophy of science	965	582	383	440	267	173	525	315	210
Linguistics	3,187	2,519	668	2,055	1,599	456	1,132	920	212
Political science and public administration	41,106	22,243	18,863	22,086	11,543	10,543	19,020	10,700	8,320
Sociology	9,037	6,633	2,404	5,800	4,191	1,609	3,237	2,442	795
Other	19,150	11,208	7,942	11,104	6,506	4,598	8,046	4,702	3,344
Engineering	120,473	84,375	36,098	26,878	19,458	7,420	93,595	64,917	28,678
Aerospace	4,170	3,241	929	607	462	145	3,563	2,779	784
Agricultural	1,059	855	204	323	272	51	736	583	153
Biomedical	6,067	5,254	813	2,297	2,025	272	3,770	3,229	541
Chemical	7,173	6,139	1,034	2,079	1,776	303	5,094	4,363	731
Civil	18,050	13,118	4,932	5,395	4,108	1,287	12,655	9,010	3,645
Electrical	37,444	25,843	11,601	6,788	4,759	2,029	30,656	21,084	9,572
Engineering sciences/physics	1,951	1,613	338	419	352	67	1,532	1,261	271
Industrial/manufacturing	13,614	6,113	7,501	3,287	1,605	1,682	10,327	4,508	5,819

TABLE D-10. Enrollment status of S&E graduate students, by field and sex: 2005

Field	All graduate students			Female			Male		
	Total	Full time	Part time	Total	Full time	Part time	Total	Full time	Part time
Mechanical	17,387	12,178	5,209	2,410	1,732	678	14,977	10,446	4,531
Metallurgical and materials	5,160	4,507	653	1,348	1,188	160	3,812	3,319	493
Mining	279	212	67	39	29	10	240	183	57
Nuclear	1,013	840	173	211	170	41	802	670	132
Petroleum	808	631	177	121	104	17	687	527	160
Other	6,298	3,831	2,467	1,554	876	678	4,744	2,955	1,789

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2005.

TABLE D-11. Enrollment status of S&E graduate students, by field, citizenship, and race/ethnicity: 2005

Field and enrollment status	U.S. citizens and permanent residents								
	S&E graduate students	American						Other/ unknown	Temporary resident
		White	Asian/ Pacific Islander	Black	Hispanic	Alaska Native	Indian/ Alaska		
S&E	478,782	226,137	30,852	25,346	23,481	2,124	31,610	139,232	
Full time	341,778	152,242	20,055	14,228	14,940	1,298	18,640	120,375	
Part time	137,004	73,895	10,797	11,118	8,541	826	12,970	18,857	
Science	358,309	183,301	21,185	21,876	19,391	1,695	25,464	85,397	
Full time	257,403	126,467	14,594	12,259	12,536	1,139	15,470	74,938	
Part time	100,906	56,834	6,591	9,617	6,855	556	9,994	10,459	
Agricultural sciences	13,123	8,662	300	417	506	76	513	2,649	
Full time	9,710	5,995	230	310	374	50	355	2,396	
Part time	3,413	2,667	70	107	132	26	158	253	
Biological sciences	68,449	36,635	5,461	2,980	3,146	278	3,547	16,402	
Full time	57,651	29,899	4,648	2,317	2,617	223	2,698	15,249	
Part time	10,798	6,736	813	663	529	55	849	1,153	
Anatomy	938	523	92	48	41	2	44	188	
Full time	844	462	90	41	38	2	38	173	
Part time	94	61	2	7	3	0	6	15	
Biochemistry	5,814	2,582	458	169	243	15	258	2,089	
Full time	5,470	2,398	428	156	228	14	238	2,008	
Part time	344	184	30	13	15	1	20	81	
Biology	15,668	9,120	877	791	876	68	942	2,994	
Full time	11,913	6,660	666	532	654	53	646	2,702	
Part time	3,755	2,460	211	259	222	15	296	292	
Biometry and epidemiology	4,805	2,227	581	282	193	15	305	1,202	
Full time	3,417	1,490	358	187	130	12	235	1,005	
Part time	1,388	737	223	95	63	3	70	197	
Biophysics	1,183	562	131	24	37	3	51	375	
Full time	1,120	524	118	20	36	3	50	369	
Part time	63	38	13	4	1	0	1	6	
Botany	1,860	966	76	17	49	8	79	665	
Full time	1,667	836	67	16	43	4	69	632	
Part time	193	130	9	1	6	4	10	33	
Cell and molecular biology	6,177	2,986	668	176	280	23	356	1,688	
Full time	5,770	2,783	623	164	263	20	303	1,614	
Part time	407	203	45	12	17	3	53	74	
Ecology	2,165	1,593	53	28	71	11	160	249	
Full time	1,600	1,159	38	18	51	9	117	208	
Part time	565	434	15	10	20	2	43	41	
Entomology and parasitology	1,126	713	28	14	47	9	33	282	
Full time	943	562	23	12	44	4	28	270	
Part time	183	151	5	2	3	5	5	12	
Genetics	2,155	1,164	182	70	63	10	101	565	
Full time	2,063	1,109	176	67	62	10	95	544	
Part time	92	55	6	3	1	0	6	21	
Microbiology, immunology, and virology	5,401	2,857	487	255	307	16	259	1,220	
Full time	5,074	2,647	462	229	298	14	238	1,186	
Part time	327	210	25	26	9	2	21	34	
Nutrition	4,817	2,604	338	270	204	15	243	1,143	
Full time	3,424	1,746	236	169	122	9	142	1,000	
Part time	1,393	858	102	101	82	6	101	143	
Pathology	1,576	879	159	67	58	8	65	340	
Full time	1,358	743	134	62	48	6	48	317	
Part time	218	136	25	5	10	2	17	23	
Pharmacology	3,114	1,514	307	184	145	20	91	853	
Full time	2,905	1,408	284	155	137	20	79	822	
Part time	209	106	23	29	8	0	12	31	

TABLE D-11. Enrollment status of S&E graduate students, by field, citizenship, and race/ethnicity: 2005

Field and enrollment status	U.S. citizens and permanent residents								
	S&E graduate students	American						Other/ unknown	Temporary resident
		White	Asian/ Pacific Islander	Black	Hispanic	Indian/ Alaska Native			
Physiology	2,399	1,264	372	97	104	12	84	466	
Full time	2,187	1,127	354	88	91	12	70	445	
Part time	212	137	18	9	13	0	14	21	
Zoology	1,264	922	35	12	36	10	38	211	
Full time	1,094	789	35	11	30	7	36	186	
Part time	170	133	0	1	6	3	2	25	
Other	7,987	4,159	617	476	392	33	438	1,872	
Full time	6,802	3,456	556	390	342	24	266	1,768	
Part time	1,185	703	61	86	50	9	172	104	
Computer sciences	48,046	16,595	4,671	1,761	1,202	100	3,226	20,491	
Full time	28,317	7,727	2,040	765	495	41	1,230	16,019	
Part time	19,729	8,868	2,631	996	707	59	1,996	4,472	
Earth, atmospheric, and ocean sciences	14,827	10,120	415	262	507	61	701	2,761	
Full time	11,370	7,400	329	170	408	47	533	2,483	
Part time	3,457	2,720	86	92	99	14	168	278	
Atmospheric	1,146	697	58	30	36	3	39	283	
Full time	1,002	595	48	27	34	3	32	263	
Part time	144	102	10	3	2	0	7	20	
Earth	7,212	5,010	136	82	206	29	322	1,427	
Full time	5,537	3,679	102	48	153	22	252	1,281	
Part time	1,675	1,331	34	34	53	7	70	146	
Ocean	2,760	1,896	65	37	150	11	111	490	
Full time	2,198	1,427	54	29	136	9	79	464	
Part time	562	469	11	8	14	2	32	26	
Other	3,709	2,517	156	113	115	18	229	561	
Full time	2,633	1,699	125	66	85	13	170	475	
Part time	1,076	818	31	47	30	5	59	86	
Mathematics and statistics	20,210	8,915	1,419	721	633	38	1,088	7,396	
Full time	15,261	6,154	917	415	380	25	688	6,682	
Part time	4,949	2,761	502	306	253	13	400	714	
Mathematics	16,106	7,661	1,062	617	565	34	917	5,250	
Full time	12,051	5,298	682	357	325	23	581	4,785	
Part time	4,055	2,363	380	260	240	11	336	465	
Statistics	4,104	1,254	357	104	68	4	171	2,146	
Full time	3,210	856	235	58	55	2	107	1,897	
Part time	894	398	122	46	13	2	64	249	
Physical sciences	36,396	16,327	1,706	1,008	1,240	82	1,417	14,616	
Full time	32,386	14,225	1,423	784	1,054	70	1,135	13,695	
Part time	4,010	2,102	283	224	186	12	282	921	
Astronomy	1,191	677	46	10	27	5	63	363	
Full time	1,129	635	42	10	25	5	56	356	
Part time	62	42	4	0	2	0	7	7	
Chemistry	21,122	9,463	1,135	694	821	53	739	8,217	
Full time	18,760	8,359	923	532	724	46	574	7,602	
Part time	2,362	1,104	212	162	97	7	165	615	
Physics	13,472	5,765	503	272	358	20	588	5,966	
Full time	12,210	5,061	444	229	296	16	491	5,673	
Part time	1,262	704	59	43	62	4	97	293	
Other	611	422	22	32	34	4	27	70	
Full time	287	170	14	13	9	3	14	64	
Part time	324	252	8	19	25	1	13	6	
Psychology	57,412	34,479	2,569	5,251	5,119	334	6,632	3,028	
Full time	38,957	23,954	1,794	2,857	3,505	242	4,140	2,465	
Part time	18,455	10,525	775	2,394	1,614	92	2,492	563	

TABLE D-11. Enrollment status of S&E graduate students, by field, citizenship, and race/ethnicity: 2005

Field and enrollment status	U.S. citizens and permanent residents								
	S&E graduate students	American						Other/ unknown	Temporary resident
		White	Asian/ Pacific Islander	Black	Hispanic	Indian/ Alaska Native			
Clinical	14,283	8,618	672	874	1,761	88	1,781	489	
Full time	10,531	6,378	488	601	1,353	71	1,240	400	
Part time	3,752	2,240	184	273	408	17	541	89	
General	16,786	10,707	869	1,682	1,186	99	1,092	1,151	
Full time	12,091	7,903	654	957	785	66	734	992	
Part time	4,695	2,804	215	725	401	33	358	159	
Nonclinical	26,343	15,154	1,028	2,695	2,172	147	3,759	1,388	
Full time	16,335	9,673	652	1,299	1,367	105	2,166	1,073	
Part time	10,008	5,481	376	1,396	805	42	1,593	315	
Social sciences	99,846	51,568	4,644	9,476	7,038	726	8,340	18,054	
Full time	63,751	31,113	3,213	4,641	3,703	441	4,691	15,949	
Part time	36,095	20,455	1,431	4,835	3,335	285	3,649	2,105	
Agricultural economics	2,118	912	43	65	54	23	65	956	
Full time	1,822	734	39	49	47	13	54	886	
Part time	296	178	4	16	7	10	11	70	
Anthropology (cultural and social)	7,706	5,077	305	277	470	123	609	845	
Full time	5,833	3,745	243	220	352	88	434	751	
Part time	1,873	1,332	62	57	118	35	175	94	
Economics	11,805	3,713	593	319	336	19	448	6,377	
Full time	9,715	2,695	442	208	214	15	331	5,810	
Part time	2,090	1,018	151	111	122	4	117	567	
Geography	4,772	3,255	153	160	153	34	236	781	
Full time	3,196	2,065	107	90	104	18	158	654	
Part time	1,576	1,190	46	70	49	16	78	127	
History and philosophy of science	965	679	36	42	60	5	64	79	
Full time	582	381	31	21	28	3	41	77	
Part time	383	298	5	21	32	2	23	2	
Linguistics	3,187	1,540	247	64	163	17	226	930	
Full time	2,519	1,179	178	44	110	17	147	844	
Part time	668	361	69	20	53	0	79	86	
Political science/public administration	41,106	21,115	1,975	5,000	3,370	251	4,523	4,872	
Full time	22,243	10,979	1,231	2,121	1,461	124	2,187	4,140	
Part time	18,863	10,136	744	2,879	1,909	127	2,336	732	
Sociology	9,037	5,032	401	1,086	664	62	493	1,299	
Full time	6,633	3,659	314	650	458	39	368	1,145	
Part time	2,404	1,373	87	436	206	23	125	154	
Other	19,150	10,245	891	2,463	1,768	192	1,676	1,915	
Full time	11,208	5,676	628	1,238	929	124	971	1,642	
Part time	7,942	4,569	263	1,225	839	68	705	273	
Engineering	120,473	42,836	9,667	3,470	4,090	429	6,146	53,835	
Full time	84,375	25,775	5,461	1,969	2,404	159	3,170	45,437	
Part time	36,098	17,061	4,206	1,501	1,686	270	2,976	8,398	
Aerospace	4,170	1,844	251	73	116	13	231	1,642	
Full time	3,241	1,313	173	47	80	8	142	1,478	
Part time	929	531	78	26	36	5	89	164	
Agricultural	1,059	441	37	25	13	3	19	521	
Full time	855	311	33	19	11	1	17	463	
Part time	204	130	4	6	2	2	2	58	
Biomedical	6,067	2,424	802	192	192	13	305	2,139	
Full time	5,254	2,099	686	169	151	12	268	1,869	
Part time	813	325	116	23	41	1	37	270	

TABLE D-11. Enrollment status of S&E graduate students, by field, citizenship, and race/ethnicity: 2005

Field and enrollment status	U.S. citizens and permanent residents								
	S&E graduate students	American						Other/ unknown	Temporary resident
		White	Asian/ Pacific Islander	Black	Hispanic	Indian/ Alaska Native			
Chemical	7,173	2,561	508	146	240	24	211	3,483	
Full time	6,139	2,056	390	116	204	23	147	3,203	
Part time	1,034	505	118	30	36	1	64	280	
Civil	18,050	8,139	1,006	456	896	52	868	6,633	
Full time	13,118	5,441	617	273	590	32	522	5,643	
Part time	4,932	2,698	389	183	306	20	346	990	
Electrical	37,444	9,144	3,788	843	1,090	54	1,787	20,738	
Full time	25,843	4,961	2,004	462	578	26	774	17,038	
Part time	11,601	4,183	1,784	381	512	28	1,013	3,700	
Engineering sciences/physics	1,951	793	143	36	43	9	72	855	
Full time	1,613	594	119	22	29	9	54	786	
Part time	338	199	24	14	14	0	18	69	
Industrial/manufacturing	13,614	5,632	1,046	764	579	51	993	4,549	
Full time	6,113	1,500	310	255	210	15	282	3,541	
Part time	7,501	4,132	736	509	369	36	711	1,008	
Mechanical	17,387	6,898	987	411	575	28	845	7,643	
Full time	12,178	4,117	582	282	331	20	405	6,441	
Part time	5,209	2,781	405	129	244	8	440	1,202	
Metallurgical and materials	5,160	1,859	315	102	106	5	131	2,642	
Full time	4,507	1,534	274	80	81	4	93	2,441	
Part time	653	325	41	22	25	1	38	201	
Mining	279	121	6	3	9	0	22	118	
Full time	212	82	3	3	6	0	17	101	
Part time	67	39	3	0	3	0	5	17	
Nuclear	1,013	534	47	21	38	3	31	339	
Full time	840	407	37	17	26	3	25	325	
Part time	173	127	10	4	12	0	6	14	
Petroleum	808	114	21	31	17	0	9	616	
Full time	631	59	10	19	11	0	4	528	
Part time	177	55	11	12	6	0	5	88	
Other	6,298	2,332	710	367	176	174	622	1,917	
Full time	3,831	1,301	223	205	96	6	420	1,580	
Part time	2,467	1,031	487	162	80	168	202	337	

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary residents include all racial/ethnic groups.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2005.

TABLE D-12. Primary source of support for full-time S&E graduate students, by sex and field: 2005

Sex and field	All sources	Federal support										Other outside support				
		Total	DOD	DOE	HHS			NASA	NSF	USDA	Other	Institutional support	United States		Self-support	
					Total	NIH	Other						Total	Foreign		
S&E	341,778	74,604	8,628	4,376	23,881	22,719	1,162	2,671	20,215	3,283	11,550	142,085	24,472	22,062	2,410	100,617
Science	257,403	53,355	3,307	2,456	21,627	20,651	976	1,395	13,353	2,950	8,267	112,379	14,677	13,139	1,538	76,992
Agricultural sciences	9,710	2,343	24	53	84	74	10	49	211	1,278	644	3,987	1,460	1,355	105	1,920
Biological sciences	57,651	22,165	360	253	16,153	15,634	519	94	2,358	1,094	1,853	23,352	3,945	3,687	258	8,189
Anatomy	844	281	4	0	216	213	3	1	13	2	45	358	60	54	6	145
Biochemistry	5,470	2,880	49	47	2,329	2,246	83	7	225	32	191	1,832	413	399	14	345
Biology	11,913	2,890	56	33	1,548	1,505	43	25	787	76	365	6,637	586	550	36	1,800
Biometry/epidemiology	3,417	1,287	11	0	1,070	997	73	2	49	3	152	917	164	142	22	1,049
Biophysics	1,120	556	5	23	452	441	11	1	63	1	11	370	128	125	3	66
Botany	1,667	521	4	34	33	27	6	5	177	198	70	895	142	128	14	109
Cell/molecular biology	5,770	2,890	38	18	2,409	2,307	102	10	207	51	157	2,087	419	393	26	374
Ecology	1,600	444	5	8	19	18	1	6	204	46	156	851	95	86	9	210
Entomology/parasitology	943	292	5	1	25	20	5	0	38	172	51	440	147	140	7	64
Genetics	2,063	1,084	11	5	928	896	32	1	86	27	26	539	171	169	2	269
Microbiology, immunology, and virology	5,074	2,650	57	27	2,299	2,252	47	12	122	39	94	1,773	385	371	14	266
Nutrition	3,424	703	6	1	230	195	35	6	13	357	90	1,176	298	281	17	1,247
Pathology	1,358	526	20	0	431	428	3	1	14	33	27	432	143	92	51	257
Pharmacology	2,905	1,614	42	4	1,398	1,384	14	1	33	8	128	815	242	232	10	234
Physiology	2,187	754	3	0	660	647	13	2	29	4	56	648	119	116	3	666
Zoology	1,094	303	9	2	44	44	0	1	119	9	119	668	79	77	2	44
Other	6,802	2,490	35	50	2,062	2,014	48	13	179	36	115	2,914	354	332	22	1,044
Computer sciences	28,317	5,367	1,405	156	327	289	38	95	2,819	21	544	9,028	1,680	1,480	200	12,242
Earth, atmospheric, and ocean sciences	11,370	3,309	154	166	34	22	12	458	1,505	73	919	5,026	955	859	96	2,080
Atmospheric	1,002	529	28	32	0	0	0	140	203	4	122	304	53	49	4	116
Earth	5,537	1,497	25	99	3	2	1	220	849	24	277	2,847	398	349	49	795
Ocean	2,198	782	73	16	9	9	0	54	332	9	289	805	286	263	23	325
Other	2,633	501	28	19	22	11	11	44	121	36	231	1,070	218	198	20	844
Mathematics and statistics	15,261	1,756	187	69	165	155	10	24	1,028	35	248	10,143	443	360	83	2,919
Mathematics/applied mathematics	12,051	1,357	165	65	55	54	1	23	831	12	206	8,266	319	243	76	2,109
Statistics	3,210	399	22	4	110	101	9	1	197	23	42	1,877	124	117	7	810
Physical sciences	32,386	11,217	892	1,695	2,622	2,468	154	580	4,168	40	1,220	17,138	2,188	2,095	93	1,843
Astronomy	1,129	509	10	16	27	27	0	193	215	0	48	501	89	84	5	30
Chemistry	18,760	6,028	378	524	2,377	2,238	139	78	1,994	35	642	10,364	1,459	1,423	36	909
Physics	12,210	4,660	504	1,155	214	199	15	308	1,947	5	527	6,187	636	584	52	727
Other	287	20	0	0	4	4	0	1	12	0	3	86	4	4	0	177
Psychology	38,957	3,702	150	30	1,847	1,705	142	12	394	18	1,251	13,843	1,420	1,390	30	19,992
Clinical	10,531	828	24	5	396	356	40	0	6	0	397	2,820	443	438	5	6,440
General	12,091	1,523	49	21	879	801	78	8	265	7	294	5,554	479	464	15	4,535
Nonclinical	16,335	1,351	77	4	572	548	24	4	123	11	560	5,469	498	488	10	9,017
Social sciences	63,751	3,496	135	34	395	304	91	83	870	391	1,588	29,862	2,586	1,913	673	27,807
Agricultural economics	1,822	420	1	7	2	2	0	0	7	276	127	814	120	102	18	468
Anthropology (cultural and social)	5,833	372	4	1	37	28	9	2	163	0	165	3,382	245	226	19	1,834

Women, Minorities, and Persons with Disabilities in Science and Engineering

TABLE D-12. Primary source of support for full-time S&E graduate students, by sex and field: 2005

Sex and field	All sources	Federal support										Other outside support			Self-support	
		Total	DOD	DOE	HHS			NASA	NSF	USDA	Other	Institutional support	United States			
					Total	NIH	Other						Total	Foreign		
Economics	9,715	376	22	1	40	39	1	0	136	40	137	5,804	408	199	209	3,127
Geography	3,196	466	12	6	17	14	3	70	152	29	180	1,684	143	130	13	903
History and philosophy of science	582	22	1	0	1	1	0	0	17	0	3	369	14	14	0	177
Linguistics	2,519	141	6	0	24	21	3	0	55	0	56	1,452	112	98	14	814
Political science and public administration	22,243	768	73	14	54	17	37	11	142	8	466	8,568	782	527	255	12,125
Sociology	6,633	431	5	1	166	147	19	0	119	26	114	4,179	222	203	19	1,801
Other	11,208	500	11	4	54	35	19	0	79	12	340	3,610	540	414	126	6,558
Engineering	84,375	21,249	5,321	1,920	2,254	2,068	186	1,276	6,862	333	3,283	29,706	9,795	8,923	872	23,625
Aerospace	3,241	1,216	557	42	16	15	1	382	136	1	82	972	281	244	37	772
Agricultural	855	253	13	6	10	7	3	7	25	121	71	377	126	113	13	99
Biomedical	5,254	1,639	87	18	1,137	1,122	15	32	252	5	108	1,661	679	648	31	1,275
Chemical	6,139	2,097	204	365	274	236	38	90	851	46	267	2,343	920	870	50	779
Civil	13,118	2,000	180	92	60	32	28	68	652	64	884	5,323	1,169	1,055	114	4,626
Electrical	25,843	6,036	1,929	236	360	314	46	244	2,501	23	743	8,334	3,058	2,793	265	8,415
Engineering science/physics	1,613	593	164	78	55	46	9	20	234	1	41	654	177	159	18	189
Industrial/manufacturing	6,113	950	342	46	68	56	12	52	291	9	142	2,147	574	514	60	2,442
Mechanical	12,178	3,114	703	342	186	159	27	258	1,055	19	551	4,671	1,399	1,268	131	2,994
Metallurgical/materials	4,507	1,587	364	319	36	31	5	58	639	7	164	1,612	775	705	70	533
Mining	212	40	1	17	1	0	1	2	4	1	14	110	15	13	2	47
Nuclear	840	368	48	231	12	12	0	10	10	0	57	234	112	100	12	126
Petroleum	631	97	0	86	0	0	0	2	4	3	2	180	224	185	39	130
Other	3,831	1,259	729	42	39	38	1	51	208	33	157	1,088	286	256	30	1,198
Female	146,154	28,512	1,515	1,065	12,294	11,710	584	773	6,585	1,514	4,766	61,156	8,370	7,733	637	48,116
Science	126,696	23,884	766	696	11,583	11,046	537	513	4,888	1,414	4,024	53,988	6,311	5,844	467	42,513
Agricultural sciences	4,699	1,035	9	19	45	39	6	13	109	547	293	2,049	648	611	37	967
Biological sciences	32,074	11,981	193	130	8,778	8,500	278	42	1,254	615	969	13,088	1,971	1,858	113	5,034
Anatomy	411	137	3	0	109	109	0	0	4	1	20	190	23	23	0	61
Biochemistry	2,655	1,397	22	18	1,154	1,112	42	2	104	16	81	878	193	188	5	187
Biology	6,508	1,565	36	19	837	823	14	10	427	40	196	3,650	271	255	16	1,022
Biometry/epidemiology	2,188	805	8	0	687	632	55	1	20	3	86	594	93	87	6	696
Biophysics	388	192	1	7	152	149	3	0	29	0	3	145	36	36	0	15
Botany	884	264	2	18	15	12	3	2	91	97	39	492	72	70	2	56
Cell/molecular biology	3,036	1,547	21	9	1,300	1,240	60	3	110	25	79	1,106	198	183	15	185
Ecology	889	239	3	3	11	10	1	5	123	25	69	494	40	38	2	116
Entomology/parasitology	444	132	3	1	13	11	2	0	16	75	24	214	64	62	2	34
Genetics	1,259	640	9	4	537	519	18	1	51	15	23	330	89	88	1	200
Microbiology, immunology, and virology	2,881	1,476	36	16	1,276	1,254	22	5	69	19	55	1,035	211	203	8	159
Nutrition	2,672	512	3	1	177	154	23	4	10	255	62	927	190	178	12	1,043
Pathology	818	301	10	0	244	243	1	1	9	21	16	256	74	51	23	187
Pharmacology	1,594	906	18	3	791	782	9	0	18	1	75	435	134	129	5	119
Physiology	1,159	404	2	0	351	345	6	1	14	2	34	353	68	65	3	334

Women, Minorities, and Persons with Disabilities in Science and Engineering

TABLE D-12. Primary source of support for full-time S&E graduate students, by sex and field: 2005

Sex and field	All sources	Federal support										Other outside support			Self-support	
		Total	DOD	DOE	HHS			NASA	NSF	USDA	Other	Institutional support	United States			
					Total	NIH	Other						Total	Foreign		
Zoology	557	151	4	0	24	24	0	0	66	4	53	345	39	38	1	22
Other	3,731	1,313	12	31	1,100	1,081	19	7	93	16	54	1,644	176	164	12	598
Computer sciences	6,628	1,031	183	33	75	66	9	18	602	3	117	2,104	337	290	47	3,156
Earth, atmospheric, and ocean sciences	5,264	1,474	60	69	23	16	7	204	667	31	420	2,381	400	366	34	1,009
Atmospheric	345	184	6	11	0	0	0	60	63	2	42	115	16	14	2	30
Earth	2,363	654	11	38	2	1	1	98	373	11	121	1,240	152	135	17	317
Ocean	1,144	394	33	10	8	8	0	31	180	2	130	434	136	128	8	180
Other	1,412	242	10	10	13	7	6	15	51	16	127	592	96	89	7	482
Mathematics and statistics	5,180	588	34	28	80	72	8	9	328	16	93	3,364	153	132	21	1,075
Mathematics/applied mathematics	3,712	400	24	27	21	21	0	9	242	4	73	2,510	98	81	17	704
Statistics	1,468	188	10	1	59	51	8	0	86	12	20	854	55	51	4	371
Physical sciences	10,336	3,421	178	390	1,049	981	68	186	1,258	13	347	5,630	667	650	17	618
Astronomy	373	169	1	1	9	9	0	71	75	0	12	171	21	19	2	12
Chemistry	7,424	2,360	108	185	994	934	60	34	790	12	237	4,163	525	517	8	376
Physics	2,404	882	69	204	45	37	8	81	385	1	97	1,255	118	111	7	149
Other	135	10	0	0	1	1	0	0	8	0	1	41	3	3	0	81
Psychology	29,082	2,551	73	21	1,275	1,171	104	6	230	14	932	9,984	1,008	996	12	15,539
Clinical	8,082	614	13	5	308	278	30	0	4	0	284	2,125	336	331	5	5,007
General	8,520	988	20	15	590	532	58	3	154	6	200	3,868	303	298	5	3,361
Nonclinical	12,480	949	40	1	377	361	16	3	72	8	448	3,991	369	367	2	7,171
Social sciences	33,433	1,803	36	6	258	201	57	35	440	175	853	15,388	1,127	941	186	15,115
Agricultural economics	761	191	1	2	0	0	0	0	3	121	64	350	41	38	3	179
Anthropology (cultural and social)	3,727	251	2	0	31	22	9	1	106	0	111	2,133	155	145	10	1,188
Economics	3,465	137	0	1	18	18	0	0	53	17	48	2,138	107	67	40	1,083
Geography	1,374	189	5	2	7	5	2	26	51	11	87	743	58	53	5	384
History and philosophy of science	267	11	0	0	1	1	0	0	8	0	2	171	9	9	0	76
Linguistics	1,599	76	3	0	8	7	1	0	29	0	36	936	69	64	5	518
Political science and public administration	11,543	379	16	1	32	13	19	8	77	6	239	4,195	313	245	68	6,656
Sociology	4,191	294	3	0	120	106	14	0	79	16	76	2,636	136	126	10	1,125
Other	6,506	275	6	0	41	29	12	0	34	4	190	2,086	239	194	45	3,906
Engineering	19,458	4,628	749	369	711	664	47	260	1,697	100	742	7,168	2,059	1,889	170	5,603
Aerospace	462	145	37	4	3	3	0	58	35	0	8	153	49	43	6	115
Agricultural	272	84	6	1	6	3	3	3	7	44	17	128	38	36	2	22
Biomedical	2,025	606	28	4	421	416	5	8	106	2	37	643	267	256	11	509
Chemical	1,776	606	40	95	90	80	10	23	262	18	78	708	254	241	13	208
Civil	4,108	637	37	33	21	14	7	26	229	17	274	1,716	285	256	29	1,470
Electrical	4,759	1,032	273	34	75	65	10	50	479	3	118	1,564	490	444	46	1,673
Engineering science/physics	352	140	20	13	16	14	2	6	69	0	16	145	27	19	8	40
Industrial/manufacturing	1,605	203	55	9	15	13	2	11	80	2	31	611	145	135	10	646

Women, Minorities, and Persons with Disabilities in Science and Engineering

TABLE D-12. Primary source of support for full-time S&E graduate students, by sex and field: 2005

Sex and field	All sources	Federal support										Other outside support			Self-support	
		Total	DOD	DOE	HHS			NASA	NSF	USDA	Other	Institutional support	United States			
					Total	NIH	Other						Total	Foreign		
Mechanical	1,732	435	92	35	33	26	7	35	178	1	61	690	186	175	11	421
Metallurgical/materials	1,188	417	76	77	12	11	1	21	187	3	41	438	200	180	20	133
Mining	29	4	0	1	0	0	0	0	2	0	1	13	0	0	0	12
Nuclear	170	62	6	40	5	5	0	2	3	0	6	57	29	23	6	22
Petroleum	104	20	0	17	0	0	0	1	0	2	0	32	32	30	2	20
Other	876	237	79	6	14	14	0	16	60	8	54	270	57	51	6	312
Male	195,624	46,092	7,113	3,311	11,587	11,009	578	1,898	13,630	1,769	6,784	80,929	16,102	14,329	1,773	52,501
Science	130,707	29,471	2,541	1,760	10,044	9,605	439	882	8,465	1,536	4,243	58,391	8,366	7,295	1,071	34,479
Agricultural sciences	5,011	1,308	15	34	39	35	4	36	102	731	351	1,938	812	744	68	953
Biological sciences	25,577	10,184	167	123	7,375	7,134	241	52	1,104	479	884	10,264	1,974	1,829	145	3,155
Anatomy	433	144	1	0	107	104	3	1	9	1	25	168	37	31	6	84
Biochemistry	2,815	1,483	27	29	1,175	1,134	41	5	121	16	110	954	220	211	9	158
Biology	5,405	1,325	20	14	711	682	29	15	360	36	169	2,987	315	295	20	778
Biometry/epidemiology	1,229	482	3	0	383	365	18	1	29	0	66	323	71	55	16	353
Biophysics	732	364	4	16	300	292	8	1	34	1	8	225	92	89	3	51
Botany	783	257	2	16	18	15	3	3	86	101	31	403	70	58	12	53
Cell/molecular biology	2,734	1,343	17	9	1,109	1,067	42	7	97	26	78	981	221	210	11	189
Ecology	711	205	2	5	8	8	0	1	81	21	87	357	55	48	7	94
Entomology/parasitology	499	160	2	0	12	9	3	0	22	97	27	226	83	78	5	30
Genetics	804	444	2	1	391	377	14	0	35	12	3	209	82	81	1	69
Microbiology, immunology, and virology	2,193	1,174	21	11	1,023	998	25	7	53	20	39	738	174	168	6	107
Nutrition	752	191	3	0	53	41	12	2	3	102	28	249	108	103	5	204
Pathology	540	225	10	0	187	185	2	0	5	12	11	176	69	41	28	70
Pharmacology	1,311	708	24	1	607	602	5	1	15	7	53	380	108	103	5	115
Physiology	1,028	350	1	0	309	302	7	1	15	2	22	295	51	51	0	332
Zoology	537	152	5	2	20	20	0	1	53	5	66	323	40	39	1	22
Other	3,071	1,177	23	19	962	933	29	6	86	20	61	1,270	178	168	10	446
Computer sciences	21,689	4,336	1,222	123	252	223	29	77	2,217	18	427	6,924	1,343	1,190	153	9,086
Earth, atmospheric, and ocean sciences	6,106	1,835	94	97	11	6	5	254	838	42	499	2,645	555	493	62	1,071
Atmospheric	657	345	22	21	0	0	0	80	140	2	80	189	37	35	2	86
Earth	3,174	843	14	61	1	1	0	122	476	13	156	1,607	246	214	32	478
Ocean	1,054	388	40	6	1	1	0	23	152	7	159	371	150	135	15	145
Other	1,221	259	18	9	9	4	5	29	70	20	104	478	122	109	13	362
Mathematics and statistics	10,081	1,168	153	41	85	83	2	15	700	19	155	6,779	290	228	62	1,844
Mathematics/applied mathematics	8,339	957	141	38	34	33	1	14	589	8	133	5,756	221	162	59	1,405
Statistics	1,742	211	12	3	51	50	1	1	111	11	22	1,023	69	66	3	439
Physical sciences	22,050	7,796	714	1,305	1,573	1,487	86	394	2,910	27	873	11,508	1,521	1,445	76	1,225
Astronomy	756	340	9	15	18	18	0	122	140	0	36	330	68	65	3	18
Chemistry	11,336	3,668	270	339	1,383	1,304	79	44	1,204	23	405	6,201	934	906	28	533

Women, Minorities, and Persons with Disabilities in Science and Engineering

TABLE D-12. Primary source of support for full-time S&E graduate students, by sex and field: 2005

Sex and field	All sources	Federal support										Other outside support			Self-support	
		Total	DOD	DOE	HHS			NASA	NSF	USDA	Other	Institutional support	United States			
					Total	NIH	Other						Total	Foreign		
Physics	9,806	3,778	435	951	169	162	7	227	1,562	4	430	4,932	518	473	45	578
Other	152	10	0	0	3	3	0	1	4	0	2	45	1	1	0	96
Psychology	9,875	1,151	77	9	572	534	38	6	164	4	319	3,859	412	394	18	4,453
Clinical	2,449	214	11	0	88	78	10	0	2	0	113	695	107	107	0	1,433
General	3,571	535	29	6	289	269	20	5	111	1	94	1,686	176	166	10	1,174
Nonclinical	3,855	402	37	3	195	187	8	1	51	3	112	1,478	129	121	8	1,846
Social sciences	30,318	1,693	99	28	137	103	34	48	430	216	735	14,474	1,459	972	487	12,692
Agricultural economics	1,061	229	0	5	2	2	0	0	4	155	63	464	79	64	15	289
Anthropology (cultural and social)	2,106	121	2	1	6	6	0	1	57	0	54	1,249	90	81	9	646
Economics	6,250	239	22	0	22	21	1	0	83	23	89	3,666	301	132	169	2,044
Geography	1,822	277	7	4	10	9	1	44	101	18	93	941	85	77	8	519
History and philosophy of science	315	11	1	0	0	0	0	0	9	0	1	198	5	5	0	101
Linguistics	920	65	3	0	16	14	2	0	26	0	20	516	43	34	9	296
Political science and public administration	10,700	389	57	13	22	4	18	3	65	2	227	4,373	469	282	187	5,469
Sociology	2,442	137	2	1	46	41	5	0	40	10	38	1,543	86	77	9	676
Other	4,702	225	5	4	13	6	7	0	45	8	150	1,524	301	220	81	2,652
Engineering	64,917	16,621	4,572	1,551	1,543	1,404	139	1,016	5,165	233	2,541	22,538	7,736	7,034	702	18,022
Aerospace	2,779	1,071	520	38	13	12	1	324	101	1	74	819	232	201	31	657
Agricultural	583	169	7	5	4	4	0	4	18	77	54	249	88	77	11	77
Biomedical	3,229	1,033	59	14	716	706	10	24	146	3	71	1,018	412	392	20	766
Chemical	4,363	1,491	164	270	184	156	28	67	589	28	189	1,635	666	629	37	571
Civil	9,010	1,363	143	59	39	18	21	42	423	47	610	3,607	884	799	85	3,156
Electrical	21,084	5,004	1,656	202	285	249	36	194	2,022	20	625	6,770	2,568	2,349	219	6,742
Engineering science/physics	1,261	453	144	65	39	32	7	14	165	1	25	509	150	140	10	149
Industrial/manufacturing	4,508	747	287	37	53	43	10	41	211	7	111	1,536	429	379	50	1,796
Mechanical	10,446	2,679	611	307	153	133	20	223	877	18	490	3,981	1,213	1,093	120	2,573
Metallurgical/materials	3,319	1,170	288	242	24	20	4	37	452	4	123	1,174	575	525	50	400
Mining	183	36	1	16	1	0	1	2	2	1	13	97	15	13	2	35
Nuclear	670	306	42	191	7	7	0	8	7	0	51	177	83	77	6	104
Petroleum	527	77	0	69	0	0	0	1	4	1	2	148	192	155	37	110
Other	2,955	1,022	650	36	25	24	1	35	148	25	103	818	229	205	24	886

DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NIH = National Institutes of Health; NSF = National Science Foundation; USDA = U.S. Department of Agriculture

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2005.

TABLE F-1. S&E doctoral degrees awarded, by field: 1998–2005

Field	1998	1999	2000	2001	2002	2003	2004	2005
All S&E	27,273	25,931	25,966	25,496	24,582	25,274	26,272	27,974
Science	21,352	20,601	20,643	19,988	19,505	19,995	20,497	21,570
Agricultural sciences	1,109	1,065	1,037	975	1,009	1,060	1,045	1,038
Biological sciences	5,846	5,581	5,853	5,693	5,690	5,693	5,939	6,368
Computer sciences	927	856	860	825	807	866	948	1,136
Earth, atmospheric, and ocean sciences	765	723	694	660	689	683	686	713
Atmospheric sciences	125	124	143	116	117	139	126	144
Earth sciences	504	452	387	393	426	374	420	420
Ocean sciences	136	147	164	151	146	170	140	149
Mathematics and statistics	1,177	1,083	1,050	1,007	919	993	1,076	1,203
Physical sciences	3,800	3,562	3,378	3,364	3,185	3,289	3,338	3,647
Astronomy	206	159	185	186	141	167	165	186
Chemistry	2,216	2,132	1,989	1,981	1,921	2,041	1,987	2,127
Physics	1,378	1,271	1,204	1,197	1,123	1,081	1,186	1,334
Psychology	3,673	3,668	3,616	3,385	3,197	3,273	3,327	3,327
Social sciences	4,055	4,063	4,155	4,079	4,009	4,138	4,138	4,138
Anthropology	459	488	482	450	521	505	565	499
Area and ethnic studies	114	109	127	146	122	106	133	110
Economics	1,157	1,075	1,086	1,081	1,026	1,050	1,069	1,184
History of science	44	50	42	40	47	46	48	43
Linguistics	220	251	230	230	193	224	254	211
Political science and public administration	958	1,016	986	984	938	1,024	946	990
Sociology	579	572	637	577	566	612	599	555
Other	524	502	565	571	596	571	524	546
Engineering	5,921	5,330	5,323	5,508	5,077	5,279	5,775	6,404
Aerospace engineering	241	206	214	203	209	200	201	219
Chemical engineering	776	674	726	730	705	648	725	875
Civil engineering	650	584	556	595	627	673	673	757
Electrical engineering	1,595	1,478	1,543	1,577	1,393	1,465	1,650	1,852
Industrial engineering	229	211	176	206	230	214	217	222
Materials engineering	565	469	451	497	396	474	511	540
Mechanical engineering	1,022	855	864	953	827	814	852	978
Other	843	853	793	747	690	791	946	961

NOTE: Totals include those with unknown gender and will not equal the sum of female and male in tables F-2 and F-3.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1998–2005.

TABLE F-2. S&E doctoral degrees awarded to women, by field: 1998–2005

Field	1998	1999	2000	2001	2002	2003	2004	2005	1998	2005
	Number								Percent	
All S&E	9,348	9,081	9,393	9,286	9,163	9,517	9,856	10,533	34.3	37.7
Science	8,575	8,293	8,555	8,356	8,272	8,606	8,835	9,359	40.2	43.4
Agricultural sciences	328	311	317	339	319	374	399	376	29.6	36.2
Biological sciences	2,536	2,394	2,622	2,550	2,545	2,604	2,756	3,105	43.4	48.8
Computer sciences	159	157	141	155	166	176	199	225	17.2	19.8
Earth, atmospheric, and ocean sciences	198	185	196	198	211	213	238	243	25.9	34.1
Atmospheric sciences	30	22	33	28	31	39	46	51	24.0	35.4
Earth sciences	127	112	108	115	121	104	132	127	25.2	30.2
Ocean sciences	41	51	55	55	59	70	60	65	30.1	43.6
Mathematics and statistics	297	277	259	276	266	264	305	326	25.2	27.1
Physical sciences	917	825	827	828	847	891	865	972	24.1	26.7
Astronomy	45	33	40	41	27	40	46	49	21.8	26.3
Chemistry	695	632	624	627	644	655	636	723	31.4	34.0
Physics	177	160	163	160	176	196	183	200	12.8	15.0
Psychology	2,456	2,449	2,410	2,260	2,132	2,231	2,246	2,264	66.9	68.0
Social sciences	1,684	1,695	1,783	1,750	1,786	1,853	1,827	1,848	41.5	44.7
Anthropology	262	274	276	263	305	308	311	285	57.1	57.1
Area and ethnic studies	63	59	67	97	70	73	78	59	55.3	53.6
Economics	312	291	293	306	281	303	315	355	27.0	30.0
History of science	20	18	17	8	12	23	12	16	45.5	37.2
Linguistics	123	148	135	136	115	133	150	137	55.9	64.9
Political science and public administration	364	356	364	330	395	398	346	409	38.0	41.3
Sociology	317	342	376	337	345	361	353	344	54.7	62.0
Other	223	207	255	273	263	254	262	243	42.6	44.5
Engineering	773	788	838	930	891	911	1,021	1,174	13.1	18.3
Aerospace engineering	15	17	21	28	24	27	24	29	6.2	13.2
Chemical engineering	140	123	152	180	176	154	173	210	18.0	24.0
Civil engineering	100	89	88	111	121	126	134	176	15.4	23.2
Electrical engineering	156	155	195	204	163	181	227	249	9.8	13.4
Industrial engineering	40	42	35	45	67	55	43	41	17.5	18.5
Materials engineering	84	88	83	105	80	101	91	120	14.9	22.2
Mechanical engineering	93	96	96	91	96	88	95	120	9.1	12.3
Other	145	178	168	166	164	179	234	229	17.2	23.8

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1998–2005.

TABLE F-3. S&E doctoral degrees awarded to men, by field: 1998–2005

Field	1998	1999	2000	2001	2002	2003	2004	2005
All S&E	17,809	16,734	16,519	16,166	15,369	15,757	16,415	17,405
Science	12,699	12,230	12,060	11,598	11,197	11,389	11,661	12,190
Agricultural sciences	780	749	718	629	683	686	646	659
Biological sciences	3,295	3,170	3,225	3,134	3,143	3,089	3,183	3,257
Computer sciences	765	692	717	668	638	690	749	909
Earth, atmospheric, and ocean sciences	563	535	495	461	478	470	448	470
Atmospheric sciences	93	101	108	87	86	100	80	93
Earth sciences	376	338	278	278	305	270	288	293
Ocean sciences	94	96	109	96	87	100	80	84
Mathematics and statistics	873	803	790	731	650	729	771	875
Physical sciences	2,865	2,722	2,546	2,531	2,334	2,398	2,472	2,672
Astronomy	161	126	145	145	114	127	119	137
Chemistry	1,509	1,493	1,361	1,350	1,276	1,386	1,350	1,403
Physics	1,195	1,103	1,040	1,036	944	885	1003	1,132
Psychology	1,205	1,209	1,203	1,121	1,060	1,042	1,081	1,062
Social sciences	2,353	2,350	2,366	2,323	2,211	2,285	2,311	2,286
Anthropology	194	214	206	187	216	197	254	213
Area and ethnic studies	51	48	60	49	52	33	55	51
Economics	841	781	790	773	738	747	754	827
History of science	24	32	25	32	35	23	36	27
Linguistics	96	99	95	94	78	91	104	73
Political science and public administration	593	655	620	650	540	626	600	581
Sociology	260	228	260	240	221	251	246	211
Other	294	293	310	298	331	317	262	303
Engineering	5,110	4,504	4,459	4,568	4,172	4,368	4,754	5,215
Aerospace engineering	225	188	191	174	185	173	177	190
Chemical engineering	630	550	571	547	527	494	552	662
Civil engineering	544	495	466	483	505	547	539	580
Electrical engineering	1,428	1,310	1,338	1,372	1,223	1,284	1,423	1,598
Industrial engineering	188	169	140	160	162	159	174	178
Materials engineering	477	376	367	392	315	373	420	419
Mechanical engineering	923	751	767	860	729	726	757	858
Other	695	665	619	580	526	612	712	730

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1998–2005.

TABLE F-4. Top baccalaureate institutions of S&E doctorate recipients, by sex: 2001–2005

Academic institution	Doctorates	Academic institution	Doctorates
Female, all institutions	48,355	Male, all institutions	81,112
Foreign	11,695	Foreign	30,387
Unknown	4,180	Unknown	7,556
Top 50 U.S.	11,518	Top 50 U.S.	16,870
University of California-Berkeley	556	University of California-Berkeley	913
Cornell University all campuses	473	Cornell University all campuses	668
University of Michigan at Ann Arbor	454	University of Illinois at Urbana-Champaign	610
University of California-Los Angeles	384	Massachusetts Institute of Technology	581
University of California-San Diego	333	Brigham Young University main campus	578
Harvard University	316	Pennsylvania State University main campus	567
University of Illinois at Urbana-Champaign	312	Harvard University	563
University of Texas at Austin	312	University of Michigan at Ann Arbor	512
Massachusetts Institute of Technology	302	University of Texas at Austin	482
University of California-Davis	297	University of Wisconsin-Madison	435
University of Wisconsin-Madison	292	University of California-Los Angeles	426
University of Florida	274	Virginia Polytechnic Institute and State University	403
Pennsylvania State University main campus	269	University of California-Davis	390
Stanford University	268	University of Florida	375
Brown University	241	University of California-San Diego	372
University of Maryland at College Park	241	Purdue University main campus	371
Texas A&M University Main Campus	233	Texas A&M University main campus	364
Rutgers the State University of New Jersey New Brunswick	230	Stanford University	348
University of Pennsylvania	225	Princeton University	323
Yale University	225	Rutgers the State University of New Jersey New Brunswick	309
University of Virginia main campus	221	University of Washington-Seattle	309
Michigan State University	218	University of Minnesota-Twin Cities	303
Princeton University	217	University of Virginia main campus	297
Duke University	214	Georgia Institute of Technology main campus	290
University of Washington-Seattle	201	University of Maryland at College Park	286
University of California-Santa Cruz	199	University of Colorado at Boulder	285
Boston University	189	Michigan State University	280
University of Arizona	188	University of Arizona	277
University of Colorado at Boulder	185	Yale University	277
University of North Carolina at Chapel Hill	185	Duke University	271
University of Minnesota-Twin Cities	182	Ohio State University main campus	265
University of California-Santa Barbara	180	California Institute of Technology	258
University of Chicago	180	Brown University	256
Wellesley College	179	North Carolina State University at Raleigh	240
Indiana University at Bloomington	175	University of Chicago	238
Smith College	174	University of Pennsylvania	238
Northwestern University	171	University of California-Santa Cruz	237
Virginia Polytechnic Institute and State University	171	Carnegie Mellon University	230
Purdue University main campus	170	Johns Hopkins University	229
College of William and Mary	168	Northwestern University	216
University of California-Irvine	167	Rensselaer Polytechnic Institute	216
Ohio State University main campus	166	Iowa State University	213
Columbia University in the City of New York	159	University of California-Santa Barbara	212
Dartmouth College	151	SUNY at Buffalo	199
University of Massachusetts at Amherst	150	Columbia University in the City of New York	198
New York University	148	University of North Carolina at Chapel Hill	198
Oberlin College	147	University of Utah	195
Wesleyan University	146	Rice University	191
University of Puerto Rico Rio Piedras Campus	144	University of Rochester	190
SUNY at Binghamton	136	University of California-Irvine	186
Other U.S.	20,962	Other U.S.	26,299

NOTE: Institutions with the same number of doctorate recipients are listed alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates, 2001–2005.

TABLE F-5. Field distribution of doctorate recipients, by race/ethnicity and citizenship: 2005

Race/ethnicity and citizenship	All fields	All S&E	Science	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Non-S&E	
														Number
All doctorate recipients	43,354	27,974	21,570	1,038	6,368	1,136	713	1,203	3,647	3,327	4,138	6,404	15,380	
U.S. citizen	26,312	14,912	12,913	527	4,141	405	421	480	1,768	2,811	2,360	1,999	11,400	
Permanent resident	1,600	1,112	827	30	255	68	21	61	132	80	180	285	488	
Temporary resident	12,824	10,404	6,650	415	1,677	599	233	602	1,550	210	1,364	3,754	2,420	
Unknown citizenship	2,618	1,546	1,180	66	295	64	38	60	197	226	234	366	1,072	
White	24,704	14,825	12,570	569	3,720	481	460	640	1,946	2,377	2,377	2,255	9,879	
U.S. citizen	20,845	11,848	10,327	473	3,248	305	374	387	1,442	2,243	1,855	1,521	8,997	
Permanent resident	627	425	342	13	89	22	10	26	59	43	80	83	202	
Temporary resident	3,166	2,505	1,865	81	376	153	75	226	439	81	434	640	661	
Unknown citizenship	66	47	36	2	7	1	1	1	6	10	8	11	19	
Asian ^a	10,222	8,349	5,139	231	1,652	492	130	380	1,179	232	843	3,210	1,873	
U.S. citizen	1,493	1,114	872	13	409	52	11	38	140	110	99	242	379	
Permanent resident	688	519	356	9	127	40	7	28	56	21	68	163	169	
Temporary resident	8,003	6,688	3,898	209	1,113	399	112	314	979	99	673	2,790	1,315	
Unknown citizenship	38	28	13	0	3	1	0	0	4	2	3	15	10	
Black	2,178	945	798	40	206	21	11	38	87	175	220	147	1,233	
U.S. citizen	1,688	640	555	13	142	15	6	16	47	159	157	85	1,048	
Permanent resident	107	65	50	3	16	0	0	6	8	5	12	15	42	
Temporary resident	380	238	192	24	48	6	5	16	32	10	51	46	142	
Unknown citizenship	3	2	1	0	0	0	0	0	0	1	0	1	1	
Hispanic	2,272	1,452	1,192	109	329	31	50	56	124	198	295	260	820	
U.S. citizen	1,294	722	649	14	207	9	15	23	69	178	134	73	572	
Permanent resident	132	77	61	4	20	3	3	1	5	10	15	16	55	
Temporary resident	842	651	480	91	101	19	32	32	50	9	146	171	191	
Unknown citizenship	4	2	2	0	1	0	0	0	0	1	0	0	2	
American Indian/Alaska Native	142	69	59	3	12	1	4	0	5	15	19	10	73	
U.S. citizen	139	66	58	3	12	1	4	0	4	15	19	8	73	
Permanent resident	1	1	0	0	0	0	0	0	0	0	0	1	0	
Temporary resident	2	2	1	0	0	0	0	0	1	0	0	1	0	
Unknown citizenship	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other/unknown race/ethnicity ^b	3,836	2,334	1,812	86	449	110	58	89	306	330	384	522	1,502	
U.S. citizen	853	522	452	11	123	23	11	16	66	106	96	70	331	
Permanent resident	45	25	18	1	3	3	1	0	4	1	5	7	20	
Temporary resident	431	320	214	10	39	22	9	14	49	11	60	106	111	
Unknown citizenship	2,507	1,467	1,128	64	284	62	37	59	187	212	223	339	1,040	
	Percent distribution													
All doctorate recipients	100.0	64.5	49.8	2.4	14.7	2.6	1.6	2.8	8.4	7.7	9.5	14.8	35.5	
U.S. citizen	100.0	56.7	49.1	2.0	15.7	1.5	1.6	1.8	6.7	10.7	9.0	7.6	43.3	

TABLE F-5. Field distribution of doctorate recipients, by race/ethnicity and citizenship: 2005

Race/ethnicity and citizenship	All fields	All S&E	Science	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Non-S&E
Permanent resident	100.0	69.5	51.7	1.9	15.9	4.3	1.3	3.8	8.3	5.0	11.3	17.8	30.5
Temporary resident	100.0	81.1	51.9	3.2	13.1	4.7	1.8	4.7	12.1	1.6	10.6	29.3	18.9
Unknown citizenship	100.0	59.1	45.1	2.5	11.3	2.4	1.5	2.3	7.5	8.6	8.9	14.0	40.9
White	100.0	60.0	50.9	2.3	15.1	1.9	1.9	2.6	7.9	9.6	9.6	9.1	40.0
U.S. citizen	100.0	56.8	49.5	2.3	15.6	1.5	1.8	1.9	6.9	10.8	8.9	7.3	43.2
Permanent resident	100.0	67.8	54.5	2.1	14.2	3.5	1.6	4.1	9.4	6.9	12.8	13.2	32.2
Temporary resident	100.0	79.1	58.9	2.6	11.9	4.8	2.4	7.1	13.9	2.6	13.7	20.2	20.9
Unknown citizenship	100.0	71.2	54.5	3.0	10.6	1.5	1.5	1.5	9.1	15.2	12.1	16.7	28.8
Asian ^a	100.0	81.7	50.3	2.3	16.2	4.8	1.3	3.7	11.5	2.3	8.2	31.4	18.3
U.S. citizen	100.0	74.6	58.4	0.9	27.4	3.5	0.7	2.5	9.4	7.4	6.6	16.2	25.4
Permanent resident	100.0	75.4	51.7	1.3	18.5	5.8	1.0	4.1	8.1	3.1	9.9	23.7	24.6
Temporary resident	100.0	83.6	48.7	2.6	13.9	5.0	1.4	3.9	12.2	1.2	8.4	34.9	16.4
Unknown citizenship	100.0	73.7	34.2	0.0	7.9	2.6	0.0	0.0	10.5	5.3	7.9	39.5	26.3
Black	100.0	43.4	36.6	1.8	9.5	1.0	0.5	1.7	4.0	8.0	10.1	6.7	56.6
U.S. citizen	100.0	37.9	32.9	0.8	8.4	0.9	0.4	0.9	2.8	9.4	9.3	5.0	62.1
Permanent resident	100.0	60.7	46.7	2.8	15.0	0.0	0.0	5.6	7.5	4.7	11.2	14.0	39.3
Temporary resident	100.0	62.6	50.5	6.3	12.6	1.6	1.3	4.2	8.4	2.6	13.4	12.1	37.4
Unknown citizenship	100.0	66.7	33.3	0.0	0.0	0.0	0.0	0.0	0.0	33.3	0.0	33.3	33.3
Hispanic	100.0	63.9	52.5	4.8	14.5	1.4	2.2	2.5	5.5	8.7	13.0	11.4	36.1
U.S. citizen	100.0	55.8	50.2	1.1	16.0	0.7	1.2	1.8	5.3	13.8	10.4	5.6	44.2
Permanent resident	100.0	58.3	46.2	3.0	15.2	2.3	2.3	0.8	3.8	7.6	11.4	12.1	41.7
Temporary resident	100.0	77.3	57.0	10.8	12.0	2.3	3.8	3.8	5.9	1.1	17.3	20.3	22.7
Unknown citizenship	100.0	50.0	50.0	0.0	25.0	0.0	0.0	0.0	0.0	25.0	0.0	0.0	50.0
American Indian/Alaska Native	100.0	48.6	41.5	2.1	8.5	0.7	2.8	0.0	3.5	10.6	13.4	7.0	51.4
U.S. citizen	100.0	47.5	41.7	2.2	8.6	0.7	2.9	0.0	2.9	10.8	13.7	5.8	52.5
Permanent resident	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0
Temporary resident	100.0	100.0	50.0	0.0	0.0	0.0	0.0	0.0	50.0	0.0	0.0	50.0	0.0
Unknown citizenship	100.0	na	na	na	na	na	na	na	na	na	na	na	na
Other/unknown race/ethnicity ^b	100.0	60.8	47.2	2.2	11.7	2.9	1.5	2.3	8.0	8.6	10.0	13.6	39.2
U.S. citizen	100.0	61.2	53.0	1.3	14.4	2.7	1.3	1.9	7.7	12.4	11.3	8.2	38.8
Permanent resident	100.0	55.6	40.0	2.2	6.7	6.7	2.2	0.0	8.9	2.2	11.1	15.6	44.4
Temporary resident	100.0	74.2	49.7	2.3	9.0	5.1	2.1	3.2	11.4	2.6	13.9	24.6	25.8
Unknown citizenship	100.0	58.5	45.0	2.6	11.3	2.5	1.5	2.4	7.5	8.5	8.9	13.5	41.5

na = not applicable; no nonzero values in this cell.

^a Excludes Native Hawaiian/other Pacific Islander per revised Office of Management and Budget guidelines.^b This category was expanded to include Native Hawaiian/other Pacific Islander and respondents choosing multiple races (excluding those selecting Hispanic ethnicity).

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2005.

TABLE F-6. S&E doctorates awarded to U.S. citizens and permanent residents, by field and race/ethnicity: 1998–2005

Field and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
All S&E	18,288	17,569	17,116	16,319	15,511	15,733	15,744	16,024
White	14,011	13,721	13,443	12,725	11,911	12,023	12,031	12,273
Asian ^a	2,156	1,932	1,707	1,632	1,616	1,528	1,494	1,633
Black	643	715	710	701	687	664	751	705
Hispanic	757	722	730	669	723	744	718	799
American Indian/Alaska Native	96	114	88	73	69	73	60	67
Other/unknown race/ethnicity ^b	625	365	438	519	505	701	690	547
Science	15,241	14,678	14,543	13,867	13,346	13,555	13,557	13,740
White	11,841	11,610	11,553	10,972	10,433	10,463	10,484	10,669
Asian ^a	1,599	1,419	1,267	1,205	1,208	1,181	1,140	1,228
Black	562	617	629	609	602	587	657	605
Hispanic	647	639	648	578	625	640	630	710
American Indian/Alaska Native	83	102	80	67	63	61	54	58
Other/unknown race/ethnicity ^b	509	291	366	436	415	623	592	470
Agricultural sciences	591	561	559	506	492	562	566	557
White	454	456	452	430	417	465	470	486
Asian ^a	55	50	36	25	29	26	31	22
Black	21	27	22	14	13	22	20	16
Hispanic	35	16	29	26	21	25	16	18
American Indian/Alaska Native	9	1	5	0	2	4	4	3
Other/unknown race/ethnicity ^b	17	11	15	11	10	20	25	12
Biological sciences	4,319	4,123	4,268	4,248	4,113	4,059	4,196	4,396
White	3,249	3,128	3,307	3,258	3,119	3,059	3,188	3,337
Asian ^a	663	608	539	547	561	530	490	536
Black	111	116	118	139	124	108	149	158
Hispanic	169	174	174	165	182	176	192	227
American Indian/Alaska Native	12	20	17	15	12	11	14	12
Other/unknown race/ethnicity ^b	115	77	113	124	115	175	163	126
Computer sciences	563	493	458	424	420	446	447	473
White	413	356	337	322	291	308	320	327
Asian ^a	91	87	76	62	86	81	72	92
Black	14	19	18	15	17	17	17	15
Hispanic	15	14	14	8	14	11	13	12
American Indian/Alaska Native	4	1	1	1	2	2	2	1
Other/unknown race/ethnicity ^b	26	16	12	16	10	27	23	26
Earth, atmospheric, ocean sciences	533	471	474	411	433	451	438	442
White	443	387	411	354	374	379	379	384
Asian ^a	45	35	23	27	24	22	11	18
Black	5	11	4	5	5	13	7	6
Hispanic	17	20	16	9	14	15	11	18
American Indian/Alaska Native	3	6	4	0	0	2	4	4
Other/unknown race/ethnicity ^b	20	12	16	16	16	20	26	12
Atmospheric sciences	85	77	86	61	68	78	71	86
White	69	63	73	51	59	65	62	76
Asian ^a	9	9	6	5	5	7	5	3
Black	2	2	1	0	1	3	1	3
Hispanic	1	3	2	1	2	0	0	3
American Indian/Alaska Native	0	0	0	0	0	0	1	1
Other/unknown race/ethnicity ^b	4	0	4	4	1	3	2	0
Earth sciences	349	295	271	260	263	256	271	256
White	291	242	235	224	231	222	225	220
Asian ^a	29	20	13	18	11	10	6	12
Black	3	6	1	2	3	4	5	2
Hispanic	10	11	8	7	6	4	10	9
American Indian/Alaska Native	3	6	4	0	0	1	3	3
Other/unknown race/ethnicity ^b	13	10	10	9	12	15	22	10

TABLE F-6. S&E doctorates awarded to U.S. citizens and permanent residents, by field and race/ethnicity: 1998–2005

Field and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Ocean sciences	99	99	117	90	102	117	96	100
White	83	82	103	79	84	92	92	88
Asian ^a	7	6	4	4	8	5	0	3
Black	0	3	2	3	1	6	1	1
Hispanic	6	6	6	1	6	11	1	6
American Indian/Alaska Native	0	0	0	0	0	1	0	0
Other/unknown race/ethnicity ^b	3	2	2	3	3	2	2	2
Mathematics and statistics	673	605	574	526	443	517	511	541
White	528	506	464	428	370	407	399	413
Asian ^a	72	56	70	50	28	51	54	66
Black	16	12	14	19	14	16	10	22
Hispanic	27	15	15	15	12	17	26	24
American Indian/Alaska Native	3	1	2	2	3	2	0	0
Other/unknown race/ethnicity ^b	27	15	9	12	16	24	22	16
Physical sciences	2,442	2,265	2,072	2,035	1,923	1,951	1,858	1,900
White	1,901	1,829	1,674	1,636	1,533	1,537	1,468	1,501
Asian ^a	334	252	202	200	193	184	164	196
Black	56	66	61	55	67	55	60	55
Hispanic	54	63	77	65	63	72	62	74
American Indian/Alaska Native	9	9	9	12	7	2	5	4
Other/unknown race/ethnicity ^b	88	46	49	67	60	101	99	70
Astronomy	147	117	139	124	106	130	115	120
White	120	109	115	104	86	104	93	100
Asian ^a	13	3	13	6	11	8	8	7
Black	1	2	1	1	1	1	0	2
Hispanic	2	1	3	7	4	3	6	3
American Indian/Alaska Native	1	1	1	1	0	0	0	0
Other/unknown race/ethnicity ^b	10	1	6	5	4	14	8	8
Chemistry	1,471	1,406	1,241	1,233	1,228	1,266	1,184	1,213
White	1,129	1,090	988	974	986	1,003	922	956
Asian ^a	210	183	121	126	122	112	112	125
Black	45	56	44	42	44	42	47	41
Hispanic	34	46	51	43	38	45	43	55
American Indian/Alaska Native	7	5	7	11	5	2	4	2
Other/unknown race/ethnicity ^b	46	26	30	37	33	62	56	34
Physics	824	742	692	678	589	555	559	567
White	652	630	571	558	461	430	453	445
Asian ^a	111	66	68	68	60	64	44	64
Black	10	8	16	12	22	12	13	12
Hispanic	18	16	23	15	21	24	13	16
American Indian/Alaska Native	1	3	1	0	2	0	1	2
Other/unknown race/ethnicity ^b	32	19	13	25	23	25	35	28
Psychology	3,274	3,293	3,230	2,977	2,793	2,855	2,788	2,891
White	2,646	2,701	2,606	2,410	2,228	2,260	2,137	2,286
Asian ^a	113	132	145	114	120	119	152	131
Black	158	172	189	172	170	169	206	164
Hispanic	208	216	211	169	184	170	172	188
American Indian/Alaska Native	31	35	22	17	15	22	12	15
Other/unknown race/ethnicity ^b	118	37	57	95	76	115	109	107

TABLE F-6. S&E doctorates awarded to U.S. citizens and permanent residents, by field and race/ethnicity: 1998–2005

Field and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Social sciences	2,846	2,867	2,908	2,740	2,729	2,714	2,753	2,540
White	2,207	2,247	2,302	2,134	2,101	2,048	2,123	1,935
Asian ^a	226	199	176	180	167	168	166	167
Black	181	194	203	190	192	187	188	169
Hispanic	122	121	112	121	135	154	138	149
American Indian/Alaska Native	12	29	20	20	22	16	13	19
Other/unknown race/ethnicity ^b	98	77	95	95	112	141	125	101
Anthropology	380	400	411	369	430	422	471	392
White	298	330	337	290	333	310	364	306
Asian ^a	18	18	19	19	14	18	23	22
Black	10	15	21	13	24	24	17	23
Hispanic	21	12	13	20	25	34	37	19
American Indian/Alaska Native	5	8	5	8	7	2	2	3
Other/unknown race/ethnicity ^b	28	17	16	19	27	34	28	19
Area and ethnic studies	104	94	118	132	103	93	119	98
White	79	69	93	99	74	60	75	64
Asian ^a	2	4	5	4	2	5	5	5
Black	17	13	11	17	13	12	12	11
Hispanic	4	3	5	5	6	8	12	11
American Indian/Alaska Native	1	3	1	2	2	2	3	2
Other/unknown race/ethnicity ^b	1	2	3	5	6	6	12	5
Economics	583	543	501	464	426	408	401	385
White	429	417	395	359	328	313	309	292
Asian ^a	88	65	48	59	56	55	42	43
Black	23	28	22	13	13	11	24	10
Hispanic	27	21	22	18	16	17	11	27
American Indian/Alaska Native	0	1	1	2	0	1	0	1
Other/unknown race/ethnicity ^b	16	11	13	13	13	11	15	12
History of science	36	42	35	39	40	36	42	33
White	32	36	32	31	38	31	33	26
Asian ^a	0	3	0	3	0	0	2	2
Black	0	1	1	1	0	0	1	1
Hispanic	1	0	1	2	1	1	2	2
American Indian/Alaska Native	0	0	0	0	0	0	0	0
Other/unknown race/ethnicity ^b	3	2	1	2	1	4	4	2
Linguistics	136	156	119	124	108	114	136	115
White	103	123	98	97	84	86	105	93
Asian ^a	22	13	11	9	10	12	14	11
Black	4	4	1	6	3	0	3	1
Hispanic	6	13	5	5	7	9	9	4
American Indian/Alaska Native	0	1	0	0	0	1	0	0
Other/unknown race/ethnicity ^b	1	2	4	7	4	6	5	6
Political science and public administration	791	806	802	751	732	766	732	723
White	632	641	637	587	576	595	575	572
Asian ^a	43	45	38	36	33	30	38	33
Black	55	59	61	71	63	70	64	56
Hispanic	35	31	28	23	36	32	31	35
American Indian/Alaska Native	3	7	4	5	3	7	2	4
Other/unknown race/ethnicity ^b	23	23	34	29	21	32	22	23
Sociology	443	459	515	471	478	487	467	425
White	345	346	383	351	350	348	359	302
Asian ^a	24	30	32	27	29	22	28	30
Black	40	45	57	44	47	47	37	41
Hispanic	15	26	26	38	25	40	27	34
American Indian/Alaska Native	3	4	6	2	7	0	2	4
Other/unknown race/ethnicity ^b	16	8	11	9	20	30	14	14

TABLE F-6. S&E doctorates awarded to U.S. citizens and permanent residents, by field and race/ethnicity: 1998–2005

Field and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Other	373	367	407	390	412	388	385	369
White	289	285	327	320	318	305	303	280
Asian ^a	29	21	23	23	23	26	14	21
Black	32	29	29	25	29	23	30	26
Hispanic	13	15	12	10	19	13	9	17
American Indian/Alaska Native	0	5	3	1	3	3	4	5
Other/unknown race/ethnicity ^b	10	12	13	11	20	18	25	20
Engineering	3,047	2,891	2,573	2,452	2,165	2,178	2,187	2,284
White	2,170	2,111	1,890	1,753	1,478	1,560	1,547	1,604
Asian ^a	557	513	440	427	408	347	354	405
Black	81	98	81	92	85	77	94	100
Hispanic	110	83	82	91	98	104	88	89
American Indian/Alaska Native	13	12	8	6	6	12	6	9
Other/unknown race/ethnicity ^b	116	74	72	83	90	78	98	77
Aerospace engineering	153	112	127	102	92	80	77	98
White	126	97	107	79	74	66	60	74
Asian ^a	13	13	11	12	11	7	9	9
Black	1	1	4	1	2	1	1	2
Hispanic	5	0	3	5	3	4	3	6
American Indian/Alaska Native	0	0	0	0	0	0	0	1
Other/unknown race/ethnicity ^b	8	1	2	5	2	2	4	6
Chemical engineering	374	371	383	362	335	292	314	331
White	275	286	280	273	223	210	218	237
Asian ^a	65	58	70	53	70	46	58	46
Black	3	11	8	17	12	9	10	14
Hispanic	13	7	18	7	16	16	12	21
American Indian/Alaska Native	3	2	1	1	1	1	2	0
Other/unknown race/ethnicity ^b	15	7	6	11	13	10	14	13
Civil engineering	297	312	261	270	248	269	224	252
White	217	241	194	194	185	217	156	191
Asian ^a	38	46	43	38	29	20	34	33
Black	9	6	6	11	13	9	7	9
Hispanic	16	12	9	9	9	13	20	11
American Indian/Alaska Native	0	2	1	0	0	1	3	0
Other/unknown race/ethnicity ^b	17	5	8	18	12	9	4	8
Electrical engineering	805	766	649	564	506	502	500	566
White	523	510	444	368	304	296	314	352
Asian ^a	206	172	141	137	131	134	109	144
Black	23	30	21	22	16	21	33	31
Hispanic	31	30	22	22	31	23	15	15
American Indian/Alaska Native	3	1	0	1	0	5	1	3
Other/unknown race/ethnicity ^b	19	23	21	14	24	23	28	21
Industrial engineering	101	99	77	89	81	71	77	76
White	72	80	59	54	56	47	56	49
Asian ^a	11	7	11	22	10	14	10	15
Black	8	7	4	6	4	3	3	8
Hispanic	7	4	0	3	6	4	3	2
American Indian/Alaska Native	0	0	0	0	1	0	0	0
Other/unknown race/ethnicity ^b	3	1	3	4	4	3	5	2
Materials engineering	313	261	244	225	175	200	211	194
White	225	184	190	165	123	154	160	148
Asian ^a	55	53	34	37	33	23	31	28
Black	10	7	5	6	5	4	6	5
Hispanic	8	8	8	9	7	13	7	10
American Indian/Alaska Native	2	2	0	1	1	0	0	0
Other/unknown race/ethnicity ^b	13	7	7	7	6	6	7	3

TABLE F-6. S&E doctorates awarded to U.S. citizens and permanent residents, by field and race/ethnicity: 1998–2005

Field and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Mechanical engineering	517	464	396	428	343	333	298	323
White	371	336	279	302	227	246	210	237
Asian ^a	91	88	72	75	70	51	47	50
Black	13	12	18	17	17	9	17	11
Hispanic	19	9	12	21	12	13	10	13
American Indian/Alaska Native	2	2	3	1	1	1	0	4
Other/unknown race/ethnicity ^b	21	17	12	12	16	13	14	8
Other	487	506	436	412	385	431	486	444
White	361	377	337	318	286	324	373	316
Asian ^a	78	76	58	53	54	52	56	80
Black	14	24	15	12	16	21	17	20
Hispanic	11	13	10	15	14	18	18	11
American Indian/Alaska Native	3	3	3	2	2	4	0	1
Other/unknown race/ethnicity ^b	20	13	13	12	13	12	22	16

^a Includes Native Hawaiians/other Pacific Islanders through 2000 but excludes them in 2001-2005 per revised Office of Management and Budget guidelines.

^b Includes only those with unknown race/ethnicity through 2000. In 2001, this category was expanded to include Native Hawaiians/other Pacific Islanders and respondents choosing multiple races (excluding those selecting an Hispanic ethnicity).

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1998–2005.

TABLE F-7. Top baccalaureate institutions of black S&E doctorate recipients: 2001–2005

Academic institution	Doctorates
All institutions	4,467
Foreign institutions	967
Unknown	168
Top 50 U.S.	1,401
Howard University	96
Spelman College	75
Hampton University	69
Florida Agricultural and Mechanical University	58
Morehouse College	52
North Carolina Agricultural & Technical State University	41
Southern University A&M College at Baton Rouge	41
Xavier University of Louisiana	38
Harvard University	37
University of Maryland at College Park	35
Morgan State University	34
Jackson State University	33
Tuskegee University	33
University of California-Berkeley	32
Massachusetts Institute of Technology	31
Yale University	31
University of Michigan at Ann Arbor	30
University of North Carolina at Chapel Hill	26
Prairie View A&M University	24
University of Illinois at Urbana-Champaign	24
University of Virginia main campus	24
Princeton University	23
Brown University	21
Clark Atlanta University	21
University of Maryland Baltimore County	21
Alabama Agricultural and Mechanical University	20
Georgia Institute of Technology main campus	20
Norfolk State University	20
Stanford University	20
Tougaloo College	20
University of California-Los Angeles	20
University of Pennsylvania	20
Cornell University all campuses	19
Fisk University	19
North Carolina State University at Raleigh	19
Duke University	18
Louisiana State University and Agricultural & Mechanical College	18
Purdue University main campus	18
Tulane University	18
CUNY City College	17
Oakwood College	17
Pennsylvania State University main campus	17
Texas A&M University main campus	17
University of South Carolina at Columbia	17
University of Texas at Austin	17
Alabama State University	16
Grambling State University	16
North Carolina Central University	16
Tennessee State University	16
University of Florida	16
Other U.S.	1,931

NOTE: Institutions with the same number of doctorate recipients are listed alphabetically.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2001–2005.

TABLE F-8. Top baccalaureate institutions of Hispanic S&E doctorate recipients: 2001–2005

Academic institution	Doctorates
All institutions	6,506
Foreign	2,758
Unknown	375
Top 51 U.S.	1,871
University of Puerto Rico Rio Piedras campus	230
University of Puerto Rico Mayaguez campus	144
University of California-Berkeley	102
University of Texas at Austin	65
Florida International University	64
University of California-Los Angeles	63
University of Florida	62
Massachusetts Institute of Technology	54
University of California-San Diego	47
University of Miami	45
University of Texas at El Paso	44
University of California-Davis	43
Cornell University all campuses	42
Texas A&M University main campus	40
University of California-Irvine	40
University of New Mexico all campuses	38
Harvard University	37
Stanford University	36
New Mexico State University all campuses	34
University of Michigan at Ann Arbor	32
University of Illinois at Urbana-Champaign	31
Rutgers the State University of New Jersey New Brunswick	29
University of Arizona	29
Princeton University	28
University of California-Santa Cruz	28
University of Texas at San Antonio	25
University of California-Santa Barbara	24
University of Puerto Rico Humacao University College	23
University of Houston	22
California State Polytechnic University-San Luis Obispo	21
Florida State University	21
California State University-Long Beach	20
San Diego State University	20
Arizona State University main campus	19
CUNY City College	19
Columbia University in the City of New York	19
San Francisco State University	18
St Mary's University	18
University of Maryland at College Park	18
California State University-Los Angeles	16
University of Colorado at Boulder	16
California Institute of Technology	15
California State University-Northridge	15
University of California-Riverside	15
University of Puerto Rico Cayey University College	15
University of South Florida	15
Brown University	14
New York University	14
Pennsylvania State University main campus	14
SUNY at Binghamton	14
University of Southern California	14
Other U.S.	1,502

NOTE: Institutions with the same number of doctorate recipients are listed alphabetically.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2001–2005.

TABLE F-9. Top baccalaureate institutions of American Indian/Alaska Native S&E doctorate recipients: 2001–2005

Academic institution	Doctorates
All institutions	360
Foreign	19
Unknown	14
Top 24 U.S.	92
University of Oklahoma, Norman campus	7
Oklahoma State University all campuses	6
University of Central Oklahoma	6
University of Florida	6
University of Washington-Seattle	6
Dartmouth College	4
University of California-Davis	4
University of Michigan at Ann Arbor	4
University of North Dakota all campuses	4
Arizona State University main campus	3
Baylor University	3
Colorado State University	3
East Central University	3
Pennsylvania State University main campus	3
San Jose State University	3
University of Akron all campuses	3
University of California-San Diego	3
University of California-Santa Barbara	3
University of Houston	3
University of New Mexico all campuses	3
University of Oregon	3
University of Texas at Austin	3
University of Tulsa	3
University of Utah	3
Other U.S.	235

NOTE: Institutions with the same number of doctorate recipients are listed alphabetically.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2001–2005.

TABLE F-10. Top baccalaureate institutions of Asian S&E doctorate recipients:
2001–2005

Academic institution	Doctorates
All institutions	34,917
Foreign	27,186
Unknown	1,334
Top 50 U.S.	3,896
University of California-Berkeley	474
University of California-Los Angeles	240
Massachusetts Institute of Technology	236
Harvard University	188
Cornell University all campuses	174
Stanford University	138
University of California-Davis	113
University of California-San Diego	109
University of Texas at Austin	107
University of Michigan at Ann Arbor	97
University of California-Irvine	96
University of Illinois at Urbana-Champaign	95
California Institute of Technology	84
University of Chicago	78
University of Maryland at College Park	78
Princeton University	73
University of Pennsylvania	73
University of Wisconsin-Madison	70
Yale University	70
University of Washington-Seattle	68
Rutgers the State University of New Jersey New Brunswick	65
Johns Hopkins University	64
Northwestern University	61
Columbia University in the City of New York	60
Brown University	52
SUNY at Stony Brook all campuses	51
Carnegie Mellon University	47
University of Minnesota-Twin Cities	46
University of Southern California	46
Boston University	45
University of Hawaii at Manoa	43
New York University	41
Purdue University main campus	41
Rice University	40
University of Rochester	40
University of Virginia main campus	40
Duke University	39
Ohio State University main campus	39
Pennsylvania State University main campus	39
Rensselaer Polytechnic Institute	37
University of Florida	33
Iowa State University	32
Wellesley College	32
Washington University	31
Brandeis University	30
Texas A&M University main campus	30
Pomona College	28
University of Arizona	28
University of California-Riverside	28
Georgia Institute of Technology main campus	27
Other U.S.	2,501

NOTE: Institutions with the same number of doctorate recipients are listed alphabetically.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2001–2005.

Women, Minorities, and Persons with Disabilities in Science and Engineering

TABLE F-11. S&E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race/ethnicity: 1998-2005

Field, sex, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
All S&E	18,288	17,569	17,116	16,319	15,511	15,733	15,744	16,024
Female	7,184	7,073	7,134	6,872	6,702	6,830	6,853	7,138
Male	11,087	10,496	9,980	9,447	8,808	8,903	8,891	8,884
Unknown	17	0	2	0	1	0	0	2
White	14,011	13,721	13,443	12,725	11,911	12,023	12,031	12,273
Female	5,497	5,458	5,511	5,250	5,038	5,131	5,098	5,319
Male	8,514	8,263	7,932	7,475	6,872	6,892	6,933	6,954
Unknown	0	0	0	0	1	0	0	0
Asian ^a	2,156	1,932	1,707	1,632	1,616	1,528	1,494	1,633
Female	767	715	680	683	677	645	677	745
Male	1,383	1,217	1,027	949	939	883	817	887
Unknown	6	0	0	0	0	0	0	1
Black	643	715	710	701	687	664	751	705
Female	351	368	391	373	371	378	422	395
Male	292	347	319	328	316	286	329	310
Hispanic	757	722	730	669	723	744	718	799
Female	326	362	350	333	379	366	363	406
Male	431	360	379	336	344	378	355	393
Unknown	0	0	1	0	0	0	0	0
American Indian/Alaska Native	96	114	88	73	69	73	60	67
Female	42	55	45	32	33	39	27	32
Male	54	59	43	41	36	34	33	35
Other/unknown race/ethnicity ^b	625	365	438	519	505	701	690	547
Female	201	115	157	201	204	271	266	241
Male	413	250	280	318	301	430	424	305
Unknown	11	0	1	0	0	0	0	1
Science	15,241	14,678	14,543	13,867	13,346	13,555	13,557	13,740
Female	6,732	6,580	6,642	6,392	6,259	6,389	6,381	6,660
Male	8,498	8,098	7,899	7,475	7,086	7,166	7,176	7,079
Unknown	11	0	2	0	1	0	0	1
White	11,841	11,610	11,553	10,972	10,433	10,463	10,484	10,669
Female	5,190	5,106	5,177	4,932	4,761	4,830	4,781	5,024
Male	6,651	6,504	6,376	6,040	5,671	5,633	5,703	5,645
Unknown	0	0	0	0	1	0	0	0
Asian ^a	1,599	1,419	1,267	1,205	1,208	1,181	1,140	1,228
Female	670	630	570	584	579	564	593	645
Male	926	789	697	621	629	617	547	582
Unknown	3	0	0	0	0	0	0	1
Black	562	617	629	609	602	587	657	605
Female	329	344	367	348	343	359	388	369
Male	233	273	262	261	259	228	269	236
Hispanic	647	639	648	578	625	640	630	710
Female	313	339	337	310	354	343	342	377
Male	334	300	310	268	271	297	288	333
Unknown	0	0	1	0	0	0	0	0
American Indian/Alaska Native	83	102	80	67	63	61	54	58
Female	38	53	41	30	33	36	25	31
Male	45	49	39	37	30	25	29	27
Other/unknown race/ethnicity ^b	509	291	366	436	415	623	592	470
Female	192	108	150	188	189	257	252	214
Male	309	183	215	248	226	366	340	256
Unknown	8	0	1	0	0	0	0	0
Agricultural sciences	591	561	559	506	492	562	566	557
Female	205	185	195	195	181	200	226	224
Male	386	376	364	311	310	362	340	333
Unknown	0	0	0	0	1	0	0	0

TABLE F-11. S&E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race/ethnicity: 1998-2005

Field, sex, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
White	454	456	452	430	417	465	470	486
Female	154	147	158	157	150	157	171	181
Male	300	309	294	273	266	308	299	305
Unknown	0	0	0	0	1	0	0	0
Asian ^a	55	50	36	25	29	26	31	22
Female	25	19	12	13	15	16	23	13
Male	30	31	24	12	14	10	8	9
Black	21	27	22	14	13	22	20	16
Female	5	9	11	6	5	8	11	12
Male	16	18	11	8	8	14	9	4
Hispanic	35	16	29	26	21	25	16	18
Female	13	7	11	14	8	11	11	10
Male	22	9	18	12	13	14	5	8
American Indian/Alaska Native	9	1	5	0	2	4	4	3
Female	2	0	1	0	0	1	2	2
Male	7	1	4	0	2	3	2	1
Other/unknown race/ethnicity ^b	17	11	15	11	10	20	25	12
Female	6	3	2	5	3	7	8	6
Male	11	8	13	6	7	13	17	6
Biological sciences	4,319	4,123	4,268	4,248	4,113	4,059	4,196	4,396
Female	1,925	1,864	1,988	1,973	1,918	1,918	2,006	2,168
Male	2,392	2,259	2,280	2,275	2,195	2,141	2,190	2,227
Unknown	2	0	0	0	0	0	0	1
White	3,249	3,128	3,307	3,258	3,119	3,059	3,188	3,337
Female	1,438	1,402	1,510	1,488	1,392	1,449	1,467	1,607
Male	1,811	1,726	1,797	1,770	1,727	1,610	1,721	1,730
Asian ^a	663	608	539	547	561	530	490	536
Female	292	276	263	267	290	254	260	284
Male	370	332	276	280	271	276	230	251
Unknown	1	0	0	0	0	0	0	1
Black	111	116	118	139	124	108	149	158
Female	70	66	74	84	67	64	89	100
Male	41	50	44	55	57	44	60	58
Hispanic	169	174	174	165	182	176	192	227
Female	79	76	92	77	114	80	108	113
Male	90	98	82	88	68	96	84	114
American Indian/Alaska Native	12	20	17	15	12	11	14	12
Female	6	10	7	7	6	8	4	6
Male	6	10	10	8	6	3	10	6
Other/unknown race/ethnicity ^b	115	77	113	124	115	175	163	126
Female	40	34	42	50	49	63	78	58
Male	74	43	71	74	66	112	85	68
Unknown	1	0	0	0	0	0	0	0
Computer sciences	563	493	458	424	420	446	447	473
Female	123	106	86	98	97	99	102	105
Male	439	387	372	326	323	347	345	368
Unknown	1	0	0	0	0	0	0	0
White	413	356	337	322	291	308	320	327
Female	84	71	62	60	59	65	70	61
Male	329	285	275	262	232	243	250	266
Asian ^a	91	87	76	62	86	81	72	92
Female	23	19	15	20	26	17	19	27
Male	68	68	61	42	60	64	53	65
Black	14	19	18	15	17	17	17	15
Female	8	10	5	10	7	5	5	8

TABLE F-11. S&E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race/ethnicity: 1998-2005

Field, sex, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Male	6	9	13	5	10	12	12	7
Hispanic	15	14	14	8	14	11	13	12
Female	1	3	3	4	2	5	3	3
Male	14	11	11	4	12	6	10	9
American Indian/Alaska Native	4	1	1	1	2	2	2	1
Female	0	1	0	0	0	0	0	0
Male	4	0	1	1	2	2	2	1
Other/unknown race/ethnicity ^b	26	16	12	16	10	27	23	26
Female	7	2	1	4	3	7	5	6
Male	18	14	11	12	7	20	18	20
Unknown	1	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	533	471	474	411	433	451	438	442
Female	157	135	145	138	163	153	175	164
Male	376	336	329	273	270	298	263	278
White	443	387	411	354	374	379	379	384
Female	133	110	124	122	140	123	152	138
Male	310	277	287	232	234	256	227	246
Asian ^a	45	35	23	27	24	22	11	18
Female	13	10	9	7	10	8	4	9
Male	32	25	14	20	14	14	7	9
Black	5	11	4	5	5	13	7	6
Female	1	4	1	2	0	7	1	1
Male	4	7	3	3	5	6	6	5
Hispanic	17	20	16	9	14	15	11	18
Female	6	4	3	5	2	6	5	8
Male	11	16	13	4	12	9	6	10
American Indian/Alaska Native	3	6	4	0	0	2	4	4
Female	1	3	1	0	0	1	0	3
Male	2	3	3	0	0	1	4	1
Other/unknown race/ethnicity ^b	20	12	16	16	16	20	26	12
Female	3	4	7	2	11	8	13	5
Male	17	8	9	14	5	12	13	7
Mathematics and statistics	673	605	574	526	443	517	511	541
Female	199	192	164	155	135	152	154	151
Male	473	413	409	371	308	365	357	390
Unknown	1	0	1	0	0	0	0	0
White	528	506	464	428	370	407	399	413
Female	150	159	126	120	112	110	125	106
Male	378	347	338	308	258	297	274	307
Asian ^a	72	56	70	50	28	51	54	66
Female	27	20	21	17	5	24	17	28
Male	45	36	49	33	23	27	37	38
Black	16	12	14	19	14	16	10	22
Female	7	6	7	7	8	5	3	7
Male	9	6	7	12	6	11	7	15
Hispanic	27	15	15	15	12	17	26	24
Female	7	5	7	5	4	7	7	6
Male	20	10	8	10	8	10	19	18

Women, Minorities, and Persons with Disabilities in Science and Engineering

TABLE F-11. S&E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race/ethnicity: 1998-2005

Field, sex, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
American Indian/Alaska Native	3	1	2	2	3	2	0	0
Female	2	0	1	1	1	1	0	0
Male	1	1	1	1	2	1	0	0
Other/unknown race/ethnicity ^b	27	15	9	12	16	24	22	16
Female	6	2	2	5	5	5	2	4
Male	20	13	6	7	11	19	20	12
Unknown	1	0	1	0	0	0	0	0
Physical sciences	2,442	2,265	2,072	2,035	1,923	1,951	1,858	1,900
Female	599	547	540	523	530	561	502	562
Male	1,841	1,718	1,532	1,512	1,393	1,390	1,356	1,338
Unknown	2	0	0	0	0	0	0	0
White	1,901	1,829	1,674	1,636	1,533	1,537	1,468	1501
Female	442	391	414	391	409	421	382	430
Male	1,459	1,438	1,260	1,245	1,124	1,116	1,086	1071
Asian ^a	334	252	202	200	193	184	164	196
Female	103	93	70	73	61	72	53	66
Male	229	159	132	127	132	112	111	130
Unknown	2	0	0	0	0	0	0	0
Black	56	66	61	55	67	55	60	55
Female	31	29	21	20	28	19	25	17
Male	25	37	40	35	39	36	35	38
Hispanic	54	63	77	65	63	72	62	74
Female	11	22	25	22	22	23	24	32
Male	43	41	52	43	41	49	38	42
American Indian/Alaska Native	9	9	9	12	7	2	5	4
Female	1	3	2	2	0	1	1	0
Male	8	6	7	10	7	1	4	4
Other/unknown race/ethnicity ^b	88	46	49	67	60	101	99	70
Female	11	9	8	15	10	25	17	17
Male	77	37	41	52	50	76	82	53
Psychology	3,274	3,293	3,230	2,977	2,793	2,855	2,788	2,891
Female	2,212	2,229	2,178	2,004	1,879	1,964	1,891	1,990
Male	1,058	1,064	1,051	973	914	891	897	901
Unknown	4	0	1	0	0	0	0	0
White	2,646	2,701	2,606	2,410	2,228	2,260	2,137	2286
Female	1,764	1,789	1,725	1,594	1,481	1,550	1,405	1552
Male	882	912	881	816	747	710	732	734
Asian ^a	113	132	145	114	120	119	152	131
Female	84	98	99	89	81	81	126	105
Male	29	34	46	25	39	38	26	26
Black	158	172	189	172	170	169	206	164
Female	115	135	144	122	128	126	156	126
Male	43	37	45	50	42	43	50	38
Hispanic	208	216	211	169	184	170	172	188
Female	152	158	151	123	129	116	116	126
Male	56	58	59	46	55	54	56	62
Unknown	0	0	1	0	0	0	0	0
American Indian/Alaska Native	31	35	22	17	15	22	12	15
Female	18	23	19	12	8	14	9	9
Male	13	12	3	5	7	8	3	6
Other/unknown race/ethnicity ^b	118	37	57	95	76	115	109	107
Female	79	26	40	64	52	77	79	72
Male	35	11	17	31	24	38	30	35
Unknown	4	0	0	0	0	0	0	0

Women, Minorities, and Persons with Disabilities in Science and Engineering

TABLE F-11. S&E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race/ethnicity: 1998-2005

Field, sex, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Social sciences	2,846	2,867	2,908	2,740	2,729	2,714	2,753	2,540
Female	1,312	1,322	1,346	1,306	1,356	1,342	1,325	1,296
Male	1,533	1,545	1,562	1,434	1,373	1,372	1,428	1,244
Unknown	1	0	0	0	0	0	0	0
White	2,207	2,247	2,302	2,134	2,101	2,048	2,123	1,935
Female	1,025	1,037	1,058	1,000	1,018	955	1,009	949
Male	1,182	1,210	1,244	1,134	1,083	1,093	1,114	986
Asian ^a	226	199	176	180	167	168	166	167
Female	103	95	81	98	91	92	91	113
Male	123	104	95	82	76	76	75	54
Black	181	194	203	190	192	187	188	169
Female	92	85	104	97	100	125	98	98
Male	89	109	99	93	92	62	90	71
Hispanic	122	121	112	121	135	154	138	149
Female	44	64	45	60	73	95	68	79
Male	78	57	67	61	62	59	70	70
American Indian/Alaska Native	12	29	20	20	22	16	13	19
Female	8	13	10	8	18	10	9	11
Male	4	16	10	12	4	6	4	8
Other/unknown race/ethnicity ^b	98	77	95	95	112	141	125	101
Female	40	28	48	43	56	65	50	46
Male	57	49	47	52	56	76	75	55
Unknown	1	0	0	0	0	0	0	0
Engineering	3,047	2,891	2,573	2,452	2,165	2,178	2,187	2,284
Female	452	493	492	480	443	441	472	478
Male	2,589	2,398	2,081	1,972	1,722	1,737	1,715	1,805
Unknown	6	0	0	0	0	0	0	1
White	2,170	2,111	1,890	1,753	1,478	1,560	1,547	1,604
Female	307	352	334	318	277	301	317	295
Male	1,863	1,759	1,556	1,435	1,201	1,259	1,230	1,309
Asian ^a	557	513	440	427	408	347	354	405
Female	97	85	110	99	98	81	84	100
Male	457	428	330	328	310	266	270	305
Unknown	3	0	0	0	0	0	0	0
Black	81	98	81	92	85	77	94	100
Female	22	24	24	25	28	19	34	26
Male	59	74	57	67	57	58	60	74
Hispanic	110	83	82	91	98	104	88	89
Female	13	23	13	23	25	23	21	29
Male	97	60	69	68	73	81	67	60
American Indian/Alaska Native	13	12	8	6	6	12	6	9
Female	4	2	4	2	0	3	2	1
Male	9	10	4	4	6	9	4	8
Other/unknown race/ethnicity ^b	116	74	72	83	90	78	98	77
Female	9	7	7	13	15	14	14	27
Male	104	67	65	70	75	64	84	49
Unknown	3	0	0	0	0	0	0	1

^a Includes Native Hawaiians/other Pacific Islanders through 2000 but excludes them in 2001-2005 per revised Office of Management and Budget guidelines.

^b Includes only those with unknown race/ethnicity through 2000. In 2001, this category was expanded to include Native Hawaiians/other Pacific Islanders and respondents choosing multiple races (excluding those selecting an Hispanic ethnicity).

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1998-2005.

TABLE F-12. S&E doctorates awarded to U.S. citizens and permanent residents, by sex, race/ethnicity, and field: 2005
(Percent distribution)

Sex and field	All U.S. citizens and permanent residents	White	Asian ^a	Black	Hispanic	American Indian/ Alaska Native	Other/ unknown race/ ethnicity ^b
Female (number)	7,138	5,319	745	395	406	32	241
S&E	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	93.3	94.5	86.6	93.4	92.9	96.9	88.8
Agricultural sciences	3.1	3.4	1.7	3.0	2.5	6.3	2.5
Biological sciences	30.4	30.2	38.1	25.3	27.8	18.8	24.1
Computer sciences	1.5	1.1	3.6	2.0	0.7	0.0	2.5
Earth, atmospheric, and ocean sciences	2.3	2.6	1.2	0.3	2.0	9.4	2.1
Atmospheric sciences	0.4	0.5	0.1	0.0	0.5	0.0	0.0
Earth sciences	1.3	1.4	0.7	0.3	1.0	9.4	1.7
Ocean sciences	0.6	0.7	0.4	0.0	0.5	0.0	0.4
Mathematics and statistics	2.1	2.0	3.8	1.8	1.5	0.0	1.7
Physical sciences	7.9	8.1	8.9	4.3	7.9	0.0	7.1
Astronomy	0.5	0.5	0.3	0.0	0.5	0.0	0.8
Chemistry	6.2	6.4	6.8	3.8	7.1	0.0	5.0
Physics	1.1	1.2	1.7	0.5	0.2	0.0	1.2
Psychology	27.9	29.2	14.1	31.9	31.0	28.1	29.9
Social sciences	18.2	17.8	15.2	24.8	19.5	34.4	19.1
Anthropology	3.3	3.4	2.3	4.1	2.5	6.3	2.9
Area/ethnic studies	0.7	0.6	0.3	1.5	2.2	3.1	1.2
Economics	1.9	1.8	3.6	0.8	2.5	0.0	1.2
History of science	0.2	0.2	0.1	0.0	0.5	0.0	0.4
Linguistics	1.1	1.2	1.3	0.3	0.7	0.0	1.2
Political science/public administration	4.5	4.7	2.4	7.6	3.2	6.3	5.4
Sociology	3.8	3.6	3.2	6.3	5.4	9.4	3.3
Other	2.5	2.4	1.9	4.3	2.5	9.4	3.3
Engineering	6.7	5.5	13.4	6.6	7.1	3.1	11.2
Aerospace engineering	0.2	0.2	0.0	0.0	0.2	0.0	0.8
Chemical engineering	1.2	0.9	2.0	1.8	1.7	0.0	2.1
Civil engineering	1.1	1.0	1.7	1.5	0.5	0.0	1.2
Electrical engineering	1.1	0.8	3.1	1.5	0.5	0.0	3.3
Industrial engineering	0.2	0.2	0.3	0.3	0.2	0.0	0.4
Materials engineering	0.7	0.6	1.3	0.0	1.7	0.0	0.8
Mechanical engineering	0.6	0.5	0.9	0.0	1.5	3.1	0.4
Other	1.6	1.3	4.0	1.5	0.7	0.0	2.1
Male (number)	8,884	6,954	887	310	393	35	305
S&E	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	79.7	81.2	65.6	76.1	84.7	77.1	83.9
Agricultural sciences	3.7	4.4	1.0	1.3	2.0	2.9	2.0
Biological sciences	25.1	24.9	28.3	18.7	29.0	17.1	22.3
Computer sciences	4.1	3.8	7.3	2.3	2.3	2.9	6.6
Earth, atmospheric, and ocean sciences	3.1	3.5	1.0	1.6	2.5	2.9	2.3
Atmospheric sciences	0.7	0.7	0.2	1.0	0.3	2.9	0.0
Earth sciences	1.8	2.1	0.8	0.3	1.3	0.0	2.0
Ocean sciences	0.6	0.7	0.0	0.3	1.0	0.0	0.3
Mathematics and statistics	4.4	4.4	4.3	4.8	4.6	0.0	3.9
Physical sciences	15.1	15.4	14.7	12.3	10.7	11.4	17.4
Astronomy	1.0	1.0	0.6	0.6	0.3	0.0	2.0
Chemistry	8.6	8.9	8.3	8.4	6.6	5.7	7.2
Physics	5.5	5.5	5.7	3.2	3.8	5.7	8.2
Psychology	10.1	10.6	2.9	12.3	15.8	17.1	11.5

TABLE F-12. S&E doctorates awarded to U.S. citizens and permanent residents, by sex, race/ethnicity, and field: 2005
(Percent distribution)

Sex and field	All U.S. citizens and permanent residents	White	Asian ^a	Black	Hispanic	American Indian/ Alaska Native	Other/ unknown race/ ethnicity ^b
Social sciences	14.0	14.2	6.1	22.9	17.8	22.9	18.0
Anthropology	1.8	1.8	0.6	2.3	2.3	2.9	3.9
Area/ethnic studies	0.5	0.5	0.3	1.6	0.5	2.9	0.7
Economics	2.8	2.8	1.8	2.3	4.3	2.9	3.0
History of science	0.2	0.3	0.1	0.3	0.0	0.0	0.3
Linguistics	0.4	0.4	0.1	0.0	0.3	0.0	1.0
Political science/public administration	4.5	4.7	1.7	8.4	5.6	5.7	3.3
Sociology	1.7	1.6	0.7	5.2	3.1	2.9	2.0
Other	2.1	2.2	0.8	2.9	1.8	5.7	3.9
Engineering	20.3	18.8	34.4	23.9	15.3	22.9	16.1
Aerospace engineering	1.0	0.9	1.0	0.6	1.3	2.9	1.3
Chemical engineering	2.8	2.7	3.5	2.3	3.6	0.0	2.6
Civil engineering	1.9	2.0	2.3	1.0	2.3	0.0	1.6
Electrical engineering	5.5	4.5	13.6	8.1	3.3	8.6	3.9
Industrial engineering	0.7	0.5	1.5	2.3	0.3	0.0	0.3
Materials engineering	1.6	1.7	2.0	1.6	0.8	0.0	0.3
Mechanical engineering	3.2	3.0	4.8	3.5	1.8	8.6	2.3
Other	3.7	3.5	5.6	4.5	2.0	2.9	3.6

^a Excludes Native Hawaiians/other Pacific Islanders per revised Office of Management and Budget guidelines.

^b This category includes Native Hawaiians/other Pacific Islanders and respondents choosing multiple races (excluding those selecting an Hispanic ethnicity).

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2005.

TABLE F-13. S&E doctorate recipients, by disability status: 1997–2005

Disability status	1997	1998	1999	2000	2001	2002	2003	2004	2005
All S&E doctorate recipients	27,229	27,273	25,931	25,966	25,496	24,582	25,274	26,272	27,974
No disability	26,909	26,951	25,594	25,638	25,156	24,254	24,961	25,986	27,667
With disability	320	322	337	328	340	328	313	286	307
Blind/visually impaired	39	55	54	49	39	26	28	22	24
Deaf/hard of hearing	45	36	40	38	48	42	48	33	40
Learning disabilities ^a	na	na	na	na	83	78	74	99	89
Physical/orthopedic disability	104	92	96	94	99	121	95	88	86
Vocal/speech disability	7	11	6	6	8	8	11	11	14
Other or more than one	98	96	110	110	58	48	52	28	49
Unspecified	27	32	31	31	5	5	5	5	5

na = not applicable.

^a Not included in survey before 2001.

NOTE: Respondents are asked if they have a disability and then are asked to mark one or more types of disability (blind/visually impaired, deaf/hard of hearing, physical/orthopedic disability, learning/cognitive disability, vocal/speech disability, or other disability).

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1997–2005.

TABLE F-14. Top baccalaureate institutions of S&E doctorate recipients with disabilities, by disability type: 2001–2005

Academic institution	All disabilities	Blind/visually impaired	Deaf/hard of hearing	Learning disabilities	Physical/orthopedic disability	Vocal/speech disability	Other/more than one	Unspecified
All institutions	1,574	139	211	423	489	52	235	25
Foreign	166	18	35	17	65	13	15	3
Unknown	39	5	5	7	12	1	8	1
Top 42 U.S.	456	39	64	140	120	15	71	7
University of California-Berkeley	34	3	1	16	4	1	8	1
Cornell University endowed colleges	20	2	3	4	6	0	5	0
University of Minnesota-Twin Cities	20	2	2	6	3	1	5	1
University of Maryland	16	1	2	3	5	1	4	0
University of California-Los Angeles	14	0	1	4	5	0	4	0
University of Michigan-Ann Arbor	14	0	2	4	2	0	5	1
University of Virginia	14	1	2	5	6	0	0	0
University of California-Davis	13	1	1	5	4	0	2	0
Brigham Young University	12	0	2	5	3	0	1	1
Pennsylvania State University	12	0	2	1	4	2	3	0
University of California-Santa Barbara	12	1	1	3	5	0	2	0
University of Florida	12	1	4	1	5	0	1	0
University of New Mexico	12	0	0	4	5	1	2	0
Princeton University	11	0	3	5	3	0	0	0
University of Washington	11	0	1	5	4	0	1	0
Texas A&M University	10	1	3	1	3	0	2	0
University of Arizona	10	0	1	6	3	0	0	0
University of California-San Diego	10	2	3	4	1	0	0	0
University of California-Santa Cruz	10	0	1	8	0	0	1	0
University of Massachusetts-Amherst	10	0	1	4	2	0	3	0
University of Pennsylvania	10	0	2	1	4	0	3	0
University of Wisconsin-Madison	10	0	1	1	3	2	3	0
California Polytechnic State University-San Luis Obispo	9	2	1	4	2	0	0	0
Duke University	9	0	2	3	3	0	0	1
Purdue University	9	1	1	2	4	0	1	0
University of Colorado-Boulder	9	1	0	3	2	0	3	0
University of Illinois-Urbana-Champaign	9	1	3	4	1	0	0	0
Virginia Polytechnic Institute & State University	9	1	2	2	1	1	1	1
Arizona State University	8	0	1	3	3	0	1	0
Harvard University	8	2	0	1	4	1	0	0
Michigan State University	8	3	2	2	1	0	0	0
Oberlin College	8	1	1	2	3	0	1	0
Ohio State University	8	1	1	3	1	0	2	0
Rutgers the State University of New Jersey New Brunswick	8	2	2	2	1	0	0	1
University of Texas-Austin	8	0	1	1	4	1	1	0
Columbia University	7	1	0	4	1	0	1	0
Rice University	7	1	2	1	0	2	1	0
San Francisco State University	7	2	1	2	2	0	0	0
Stanford University	7	1	2	1	0	1	2	0
SUNY Buffalo	7	0	1	2	4	0	0	0
University of South Florida	7	1	1	1	3	0	1	0
Yale University	7	3	1	1	0	1	1	0
Other U.S.	913	77	107	259	292	23	141	14

NOTE: Respondents are asked if they have a disability and then are asked to mark one or more types of disability (blind/visually impaired, deaf/hard of hearing, physical/orthopedic disability, learning/cognitive disability, vocal/speech disability, or other disability). Institutions with the same number of doctorate recipients are listed alphabetically.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2001–2005.

TABLE F-15. S&E doctorate recipients, by field and disability status: 2005

Field	All recipients	No disability		With disability	
		Number	Percent	Number	Percent
S&E	27,974	27,667	100.0	307	100.0
Science	21,570	21,298	77.0	272	88.6
Agricultural sciences	1,038	1,029	3.7	9	2.9
Biological sciences	6,368	6,301	22.8	67	21.8
Computer sciences	1,136	1,125	4.1	11	3.6
Earth, atmospheric, and ocean sciences	713	705	2.5	8	2.6
Atmospheric sciences	144	143	0.5	1	0.3
Earth sciences	420	414	1.5	6	2.0
Ocean sciences	149	148	0.5	1	0.3
Mathematics and statistics	1,203	1,195	4.3	8	2.6
Physical sciences	3,647	3,617	13.1	30	9.8
Astronomy	186	185	0.7	1	0.3
Chemistry	2,127	2,112	7.6	15	4.9
Physics	1,334	1,320	4.8	14	4.6
Psychology	3,327	3,256	11.8	71	23.1
Social sciences	4,138	4,070	14.7	68	22.1
Anthropology	499	489	1.8	10	3.3
Area/ethnic studies	110	108	0.4	2	0.7
Economics	1,184	1,175	4.2	9	2.9
History of science	43	43	0.2	0	
Linguistics	211	208	0.8	3	1.0
Political science	990	973	3.5	17	5.5
Sociology	555	542	2.0	13	4.2
Other	546	532	1.9	14	4.6
Engineering	6,404	6,369	23.0	35	11.4
Aerospace engineering	219	218	0.8	1	0.3
Chemical engineering	875	869	3.1	6	2.0
Civil engineering	757	752	2.7	5	1.6
Electrical engineering	1,852	1,847	6.7	5	1.6
Industrial engineering	222	220	0.8	2	0.7
Materials engineering	540	540	2.0	0	0.0
Mechanical engineering	978	972	3.5	6	2.0
Other	961	951	3.4	10	3.3

NOTE: Respondents are asked if they have a disability and then are asked to mark one or more types of disability (blind/visually impaired, deaf/hard of hearing, physical/orthopedic disability, learning/cognitive disability, vocal/speech disability, or other disability).

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2005.

TABLE F-16. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by sex and doctorate field: 2001–2005
(Percent distribution)

Sex and primary source of support	All S&E	Science	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering
All recipients (number) ^a	79,331	68,065	2,683	21,012	2,210	2,175	2,538	9,667	14,304	13,476	11,266
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal/family funds	19.7	21.0	19.0	8.5	21.4	10.0	9.3	5.6	44.1	31.4	11.6
Loans	6.6	7.4	3.7	1.8	3.3	1.5	1.2	1.1	21.0	9.8	1.6
Savings	1.7	1.7	2.0	0.6	3.3	1.5	0.7	0.4	2.8	3.0	1.8
Other earnings in graduate school	5.7	5.7	7.5	2.3	10.1	4.5	3.5	1.4	8.3	10.9	5.4
Other family earnings or savings	5.7	6.2	5.9	3.9	4.8	2.6	4.0	2.7	11.9	7.6	2.8
Teaching assistantship	14.7	16.2	7.5	9.7	8.0	13.2	51.1	19.1	14.6	22.8	6.0
Research assistantship, traineeship, and internship	28.0	25.8	41.0	28.8	36.0	38.3	11.0	48.1	16.7	10.7	41.5
Research assistantship	25.2	22.6	40.1	23.1	34.9	37.1	10.0	46.8	12.8	9.6	40.6
Traineeship	2.2	2.5	0.4	5.3	0.6	0.8	0.7	1.1	2.1	0.8	0.6
Internship or residency	0.3	0.3	0.1	0.2	0.3	0.2	0.1	0.1	0.8	0.1	0.2
Other assistantship	0.3	0.3	0.4	0.1	0.2	0.1	0.2	0.1	1.1	0.2	0.1
Fellowship/scholarship and dissertation grant	29.0	29.4	20.7	46.7	19.3	30.8	21.9	21.2	15.6	27.3	26.8
Fellowship/scholarship	22.6	22.6	15.9	32.1	16.0	24.9	19.9	16.8	13.0	25.0	22.6
Grant/stipend	6.4	6.7	4.8	14.7	3.3	5.9	2.1	4.3	2.6	2.3	4.2
Employer reimbursement or assistance	3.3	2.3	6.4	1.7	8.5	3.7	3.0	1.7	1.3	2.7	8.9
Foreign	0.2	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.3	0.3
Other	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.0	0.2	0.1	0.1
Not reported	5.0	5.0	5.0	4.3	6.4	3.5	3.5	4.3	7.4	4.6	4.8
Female (number)	34,395	32,081	1,026	9,983	501	793	747	2,678	9,728	6,625	2,314
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal/family funds	23.9	24.9	18.7	9.1	25.1	8.4	9.8	5.0	45.2	31.5	10.3
Loans	8.9	9.4	4.7	1.7	4.4	1.3	1.1	1.1	21.4	9.9	1.6
Savings	1.6	1.7	1.6	0.5	3.0	0.9	0.8	0.2	2.7	2.5	1.2
Other earnings in graduate school	5.6	5.7	6.2	2.4	10.4	4.4	2.1	0.9	7.6	10.1	3.9
Other family earnings or savings	7.8	8.1	6.2	4.6	7.4	1.9	5.8	2.8	13.5	9.0	3.5
Teaching assistantship	14.4	15.0	8.6	9.0	8.0	12.5	51.1	19.3	13.9	21.8	4.9
Research assistantship, traineeship, and internship	23.9	23.1	38.8	28.6	29.5	34.8	11.5	45.9	17.0	11.3	35.8
Research assistantship	20.5	19.5	37.8	22.7	28.5	33.3	10.0	44.3	12.9	10.0	34.7
Traineeship	2.7	2.8	0.5	5.6	0.2	1.1	1.1	1.5	2.2	0.9	0.9
Internship or residency	0.3	0.4	0.2	0.2	0.6	0.1	0.3	0.1	0.8	0.1	0.1
Other assistantship	0.4	0.4	0.3	0.1	0.2	0.3	0.1	0.0	1.1	0.3	0.1
Fellowship/scholarship and dissertation grant	30.4	29.8	24.4	47.2	21.4	40.2	21.2	24.3	15.4	28.2	38.3
Fellowship/scholarship	23.7	23.0	19.0	31.9	20.2	33.9	19.1	19.7	12.9	25.9	33.6

Women, Minorities, and Persons with Disabilities in Science and Engineering

TABLE F-16. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by sex and doctorate field: 2001–2005
(Percent distribution)

Sex and primary source of support	All S&E	Science	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering
Grant/stipend	6.6	6.8	5.4	15.4	1.2	6.3	2.0	4.6	2.5	2.3	4.7
Employer reimbursement or assistance	2.0	1.8	5.7	1.6	6.8	1.1	2.4	1.0	1.1	2.2	5.9
Foreign	0.2	0.2	0.2	0.1	0.4	0.1	0.3	0.0	0.1	0.3	0.3
Other	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.1	0.0
Not reported	5.1	5.1	3.6	4.1	8.8	2.6	3.6	4.3	7.2	4.5	4.5
Male (number)	44,933	35,982	1,656	11,028	1,709	1,382	1,791	6,989	4,576	6,851	8,951
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal/family funds	16.5	17.6	19.3	8.0	20.4	10.9	9.2	5.8	41.7	31.3	12.0
Loans	4.8	5.6	3.0	1.9	2.9	1.6	1.2	1.0	20.2	9.8	1.6
Savings	1.8	1.7	2.3	0.6	3.4	1.8	0.7	0.5	3.0	3.5	2.0
Other earnings in graduate school	5.7	5.7	8.2	2.2	10.1	4.6	4.0	1.6	9.9	11.7	5.7
Other family earnings or savings	4.2	4.5	5.7	3.3	4.0	3.0	3.2	2.7	8.5	6.3	2.7
Teaching assistantship	15.0	17.2	6.8	10.3	8.0	13.6	51.0	19.0	16.3	23.7	6.3
Research assistantship, traineeship, and internship	31.1	28.2	42.3	29.0	37.9	40.2	10.7	48.9	16.1	10.1	43.0
Research assistantship	28.8	25.5	41.4	23.5	36.7	39.4	9.9	47.7	12.5	9.2	42.1
Traineeship	1.9	2.2	0.4	5.1	0.7	0.6	0.6	0.9	1.9	0.6	0.6
Internship or residency	0.2	0.3	0.1	0.3	0.2	0.2	0.0	0.2	0.7	0.1	0.2
Other assistantship	0.2	0.3	0.4	0.1	0.2	0.1	0.2	0.1	1.0	0.2	0.1
Fellowship/scholarship and dissertation grant	27.9	29.0	18.5	46.3	18.7	25.4	22.3	20.0	16.0	26.5	23.8
Fellowship/scholarship	21.8	22.3	13.9	32.2	14.7	19.7	20.2	15.7	13.3	24.2	19.8
Grant/stipend	6.1	6.6	4.5	14.1	4.0	5.7	2.1	4.3	2.7	2.4	4.0
Employer reimbursement or assistance	4.2	2.9	6.9	1.8	9.0	5.1	3.2	1.9	1.8	3.2	9.6
Foreign	0.2	0.1	0.2	0.1	0.2	0.3	0.1	0.1	0.1	0.2	0.3
Other	0.1	0.1	0.1	0.1	0.2	0.4	0.1	0.0	0.2	0.1	0.1
Not reported	5.0	5.0	5.9	4.4	5.7	4.1	3.5	4.3	7.8	4.8	4.9

^a All recipients include those with unknown gender. The data for all recipients, therefore, will not equal the sum of female and male.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2001–2005.

TABLE F-17. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by race/ethnicity and doctorate field: 2001–2005

(Percent distribution)

Race/ethnicity and primary source of support	All S&E	Science	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering
All recipients (number)	79,331	68,065	2,683	21,012	2,210	2,175	2,538	9,667	14,304	13,476	11,266
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal/family funds	19.7	21.0	19.0	8.5	21.4	10.0	9.3	5.6	44.1	31.4	11.6
Loans	6.6	7.4	3.7	1.8	3.3	1.5	1.2	1.1	21.0	9.8	1.6
Savings	1.7	1.7	2.0	0.6	3.3	1.5	0.7	0.4	2.8	3.0	1.8
Other earnings in graduate school	5.7	5.7	7.5	2.3	10.1	4.5	3.5	1.4	8.3	10.9	5.4
Other family earnings or savings	5.7	6.2	5.9	3.9	4.8	2.6	4.0	2.7	11.9	7.6	2.8
Teaching assistantship	14.7	16.2	7.5	9.7	8.0	13.2	51.1	19.1	14.6	22.8	6.0
Research assistantship, traineeship, and internship	28.0	25.8	41.0	28.8	36.0	38.3	11.0	48.1	16.7	10.7	41.5
Research assistantship	25.2	22.6	40.1	23.1	34.9	37.1	10.0	46.8	12.8	9.6	40.6
Traineeship	2.2	2.5	0.4	5.3	0.6	0.8	0.7	1.1	2.1	0.8	0.6
Internship or residency	0.3	0.3	0.1	0.2	0.3	0.2	0.1	0.1	0.8	0.1	0.2
Other assistantship	0.3	0.3	0.4	0.1	0.2	0.1	0.2	0.1	1.1	0.2	0.1
Fellowship/scholarship or Grant/stipend	29.0	29.4	20.7	46.7	19.3	30.8	21.9	21.2	15.6	27.3	26.8
Fellowship/scholarship	22.6	22.6	15.9	32.1	16.0	24.9	19.9	16.8	13.0	25.0	22.6
Grant/stipend	6.4	6.7	4.8	14.7	3.3	5.9	2.1	4.3	2.6	2.3	4.2
Employer reimbursement or assistance	3.3	2.3	6.4	1.7	8.5	3.7	3.0	1.7	1.3	2.7	8.9
Foreign	0.2	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.3	0.3
Other	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.0	0.2	0.1	0.1
Not reported	5.0	5.0	5.0	4.3	6.4	3.5	3.5	4.3	7.4	4.6	4.8
White (number)	60,963	53,021	2,268	15,961	1,568	1,870	2,017	7,675	11,321	10,341	7,942
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal/family funds	20.7	21.9	19.8	9.2	22.1	10.2	9.7	5.9	45.9	32.2	12.3
Loans	6.6	7.4	3.5	1.9	3.3	1.3	1.0	1.0	20.8	9.6	1.6
Savings	1.7	1.8	1.9	0.6	3.2	1.7	0.7	0.4	3.1	3.1	1.6
Other earnings in graduate school	6.0	6.0	8.1	2.4	10.9	4.6	3.7	1.4	8.9	11.3	6.1
Other family earnings or savings	6.3	6.8	6.3	4.3	4.7	2.6	4.3	3.1	13.1	8.1	3.0
Teaching assistantship	15.7	17.2	7.7	10.7	7.9	13.7	52.4	19.4	15.9	24.3	5.9
Research assistantship, traineeship, and internship	28.5	26.6	41.2	29.5	36.1	38.8	11.2	49.1	17.5	11.4	41.0
Research assistantship	25.6	23.4	40.3	23.9	34.9	37.6	10.1	47.8	13.5	10.2	40.1
Traineeship	2.2	2.5	0.4	5.3	0.6	0.9	0.8	1.1	2.2	0.8	0.7
Internship or residency	0.3	0.3	0.0	0.3	0.3	0.2	0.1	0.2	0.8	0.1	0.2
Other assistantship	0.3	0.4	0.4	0.1	0.3	0.2	0.1	0.1	1.0	0.2	0.1
Fellowship/scholarship or Grant/stipend	27.3	27.4	19.7	44.9	18.8	30.3	21.1	20.2	12.9	25.1	26.8
Fellowship/scholarship	20.9	20.7	14.6	30.2	15.2	24.0	19.2	15.8	10.4	22.7	22.4
Grant/stipend	6.4	6.7	5.1	14.7	3.6	6.3	1.9	4.5	2.5	2.4	4.4
Employer reimbursement or assistance	3.4	2.5	6.6	1.9	9.2	3.8	2.7	1.6	1.3	3.0	9.5
Foreign	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.0	0.1	0.2
Other	0.1	0.1	0.1	0.1	0.1	0.3	0.0	0.0	0.2	0.1	0.1
Not reported	4.3	4.3	4.7	3.7	5.7	2.8	2.8	3.6	6.3	3.8	4.2

Women, Minorities, and Persons with Disabilities in Science and Engineering

TABLE F-17. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by race/ethnicity and doctorate field: 2001–2005

(Percent distribution)

Race/ethnicity and primary source of support	All S&E	Science	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering
Asian (number)	7,903	5,962	133	2,664	393	102	249	937	636	848	1,941
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal/family funds	10.7	11.3	9.8	5.2	15.8	8.8	8.8	2.9	35.4	21.0	8.8
Loans	2.5	3.0	0.0	0.9	1.0	0.0	0.4	0.3	17.3	4.6	1.0
Savings	1.5	1.3	3.8	0.6	3.3	0.0	1.2	0.5	1.7	2.9	2.2
Other earnings in graduate school	2.9	2.9	2.3	1.3	6.1	5.9	3.2	1.2	5.2	6.4	3.0
Other family earnings or savings	3.7	4.1	3.8	2.4	5.3	2.9	4.0	0.9	11.2	7.1	2.5
Teaching assistantship	12.1	13.9	6.0	6.3	10.2	10.8	49.8	18.7	15.3	24.2	6.6
Research assistantship, traineeship, and internship	37.9	32.8	60.2	32.6	46.3	51.0	14.5	53.4	18.4	13.8	53.7
Research assistantship	34.7	28.8	57.9	26.1	45.3	51.0	13.7	52.4	13.5	12.5	52.9
Traineeship	2.6	3.3	0.0	6.2	0.5	0.0	0.4	0.7	2.5	0.9	0.5
Internship or residency	0.3	0.3	2.3	0.2	0.3	0.0	0.0	0.2	0.9	0.1	0.3
Other assistantship	0.2	0.3	0.0	0.2	0.3	0.0	0.4	0.0	1.4	0.2	0.1
Fellowship/scholarship or Grant/stipend	30.8	34.6	16.5	49.8	16.5	22.5	18.1	18.0	20.8	33.1	19.2
Fellowship/scholarship	23.5	26.1	12.8	34.9	13.0	18.6	14.1	14.4	17.3	30.7	15.6
Grant/stipend	7.3	8.5	3.8	14.9	3.6	3.9	4.0	3.6	3.5	2.5	3.6
Employer reimbursement or assistance	3.0	1.9	2.3	1.4	6.6	2.0	3.6	1.8	0.8	1.5	6.5
Foreign	0.3	0.3	0.8	0.0	0.3	0.0	0.0	0.2	0.3	1.5	0.4
Other	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Not reported	5.1	5.2	4.5	4.5	4.3	4.9	5.2	5.0	9.1	4.8	4.8
Black (number)	3,508	3,060	85	678	81	36	81	292	881	926	448
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal/family funds	23.2	24.9	15.3	8.4	37.0	8.3	8.6	6.8	35.6	34.4	11.2
Loans	13.1	14.5	8.2	4.3	17.3	5.6	6.2	3.8	24.9	16.8	4.0
Savings	1.8	1.6	1.2	0.3	6.2	0.0	0.0	0.3	1.7	2.7	2.9
Other earnings in graduate school	5.7	6.1	4.7	1.8	9.9	2.8	1.2	1.7	6.0	11.2	2.9
Other family earnings or savings	2.5	2.7	1.2	2.1	3.7	0.0	1.2	1.0	3.1	3.7	1.3
Teaching assistantship	9.1	9.5	3.5	5.6	2.5	8.3	35.8	16.8	6.4	12.1	6.3
Research assistantship, traineeship, and internship	13.8	12.6	27.1	16.8	3.7	25.0	2.5	23.6	11.7	6.8	22.1
Research assistantship	11.4	10.0	25.9	11.4	2.5	25.0	2.5	23.3	8.2	5.8	20.8
Traineeship	1.8	1.9	1.2	5.2	1.2	0.0	0.0	0.3	1.6	0.8	1.1
Internship or residency	0.2	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.3	0.2	0.2
Other assistantship	0.4	0.5	0.0	0.1	0.0	0.0	0.0	0.0	1.6	0.0	0.0
Fellowship/scholarship or Grant/stipend	42.8	42.4	44.7	61.2	33.3	41.7	43.2	44.2	33.5	37.0	46.0
Fellowship/scholarship	38.0	37.3	41.2	46.6	32.1	38.9	42.0	39.0	31.0	35.5	43.1
Grant/stipend	4.8	5.1	3.5	14.6	1.2	2.8	1.2	5.1	2.5	1.5	2.9
Employer reimbursement or assistance	3.2	2.5	5.9	1.5	8.6	5.6	3.7	1.7	1.7	3.1	8.0
Foreign	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.0
Other	0.2	0.2	0.0	0.0	1.2	2.8	1.2	0.3	0.1	0.1	0.0
Not reported	7.6	7.7	3.5	6.3	13.6	8.3	4.9	6.5	10.9	6.2	6.5

Women, Minorities, and Persons with Disabilities in Science and Engineering

TABLE F-17. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by race/ethnicity and doctorate field: 2001–2005
(Percent distribution)

Race/ethnicity and primary source of support	All S&E	Science	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering
Hispanic (number)	3,653	3,183	106	942	58	67	94	336	883	697	470
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal/family funds	20.6	22.1	21.7	7.4	20.7	3.0	2.1	5.7	43.1	27.8	10.4
Loans	9.8	11.0	9.4	1.9	3.4	1.5	1.1	2.1	25.6	12.1	1.7
Savings	1.3	1.3	1.9	0.4	5.2	0.0	0.0	0.3	2.0	1.9	1.1
Other earnings in graduate school	5.1	5.1	5.7	2.3	10.3	1.5	1.1	0.9	7.4	8.5	4.7
Other family earnings or savings	4.5	4.7	4.7	2.8	1.7	0.0	0.0	2.4	8.2	5.5	3.0
Teaching assistantship	10.9	11.9	7.5	6.3	3.4	10.4	42.6	19.3	8.2	18.1	4.5
Research assistantship, traineeship, and internship	18.1	16.2	31.1	19.2	29.3	26.9	7.4	33.9	11.7	6.2	31.1
Research assistantship	16.0	13.9	30.2	15.2	29.3	26.9	6.4	32.1	9.5	5.0	30.2
Traineeship	0.3	0.3	0.0	0.0	0.0	0.0	1.1	1.8	0.7	0.6	0.2
Internship or residency	1.6	1.8	0.9	3.9	0.0	0.0	0.0	0.0	1.0	0.6	0.6
Other assistantship	0.1	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.5	0.0	0.0
Fellowship/scholarship or Grant/stipend	40.9	41.2	24.5	60.2	29.3	46.3	38.3	33.6	26.5	41.0	38.9
Fellowship/scholarship	34.6	34.6	21.7	44.8	29.3	41.8	35.1	30.1	23.2	39.2	34.3
Grant/stipend	6.3	6.5	2.8	15.4	0.0	4.5	3.2	3.6	3.3	1.9	4.7
Employer reimbursement or assistance	2.8	1.9	8.5	1.2	6.9	4.5	6.4	2.4	1.2	1.0	8.9
Foreign	0.8	0.6	0.0	0.4	5.2	1.5	1.1	0.0	0.5	1.0	1.7
Other	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.1	0.0
Not reported	5.8	6.0	6.6	5.2	5.2	7.5	2.1	5.1	8.6	4.7	4.5
American Indian/Alaska Native (number)	342	303	13	64	8	10	7	30	81	90	39
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal/family funds	28.9	29.0	15.4	6.3	25.0	20.0	0.0	20.0	43.2	41.1	28.2
Loans	8.5	9.2	7.7	1.6	0.0	0.0	0.0	3.3	18.5	11.1	2.6
Savings	4.7	4.0	0.0	0.0	0.0	0.0	0.0	3.3	4.9	7.8	10.3
Other earnings in graduate school	8.5	8.6	0.0	3.1	25.0	10.0	0.0	3.3	9.9	13.3	7.7
Other family earnings or savings	7.3	7.3	7.7	1.6	0.0	10.0	0.0	10.0	9.9	8.9	7.7
Teaching assistantship	9.9	10.9	0.0	9.4	0.0	10.0	57.1	10.0	9.9	12.2	2.6
Research assistantship, traineeship, and internship	15.5	15.2	23.1	20.3	0.0	20.0	14.3	43.3	11.1	5.6	17.9
Research assistantship	14.0	13.9	23.1	17.2	0.0	20.0	14.3	43.3	9.9	4.4	15.4
Traineeship	0.6	0.7	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internship or residency	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	2.6
Other assistantship	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0
Fellowship/scholarship or Grant/stipend	34.2	35.0	46.2	57.8	25.0	40.0	0.0	13.3	27.2	34.4	28.2
Fellowship/scholarship	31.6	32.0	38.5	50.0	25.0	40.0	0.0	13.3	25.9	32.2	28.2
Grant/stipend	2.6	3.0	7.7	7.8	0.0	0.0	0.0	0.0	1.2	2.2	0.0
Employer reimbursement or assistance	3.8	2.6	15.4	1.6	37.5	0.0	14.3	3.3	0.0	0.0	12.8
Foreign	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0
Not reported	7.3	6.9	0.0	4.7	12.5	10.0	14.3	10.0	7.4	6.7	10.3

Women, Minorities, and Persons with Disabilities in Science and Engineering

TABLE F-17. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by race/ethnicity and doctorate field: 2001–2005
(Percent distribution)

Race/ethnicity and primary source of support	All S&E	Science	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering
Other or not reported race/ethnicity ^a (number)	2,962	2,536	78	703	102	90	90	397	502	574	426
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal/family funds	17.4	18.3	14.1	7.8	20.6	13.3	11.1	4.5	31.5	31.0	12.2
Loans	4.9	5.4	1.3	1.3	0.0	4.4	2.2	0.5	15.1	7.7	1.9
Savings	1.7	1.6	3.8	0.4	2.0	1.1	1.1	0.0	2.2	3.5	2.1
Other earnings in graduate school	5.8	5.9	3.8	3.1	12.7	3.3	4.4	2.5	5.2	11.8	5.4
Other family earnings or savings	5.0	5.3	5.1	3.0	5.9	4.4	3.3	1.5	9.0	8.0	2.8
Teaching assistantship	12.9	14.1	9.0	8.3	7.8	10.0	47.8	15.1	13.1	18.5	5.9
Research assistantship, traineeship, and internship	23.0	21.9	34.6	24.3	26.5	28.9	6.7	45.1	15.5	7.3	29.1
Research assistantship	20.5	19.1	34.6	18.2	25.5	26.7	6.7	44.6	11.4	7.0	28.6
Traineeship	2.1	2.3	0.0	5.8	1.0	1.1	0.0	0.5	2.6	0.2	0.5
Internship or residency	0.2	0.3	0.0	0.3	0.0	1.1	0.0	0.0	0.6	0.2	0.0
Other assistantship	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
Fellowship/scholarship or Grant/stipend	27.9	27.8	23.1	44.7	21.6	33.3	17.8	19.1	16.7	25.4	28.2
Fellowship/scholarship	22.5	22.2	19.2	31.4	18.6	30.0	16.7	14.9	15.1	22.6	24.6
Grant/stipend	5.4	5.7	3.8	13.2	2.9	3.3	1.1	4.3	1.6	2.8	3.5
Employer reimbursement or assistance	2.4	1.4	3.8	0.7	2.9	2.2	2.2	1.0	1.4	1.6	8.2
Foreign	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2
Other	0.1	0.2	0.0	0.1	0.0	0.0	0.0	0.3	0.4	0.0	0.0
Not reported	16.3	16.3	15.4	14.1	20.6	12.2	14.4	14.9	21.3	15.9	16.2

^aThis category includes Native Hawaiian/other Pacific Islander and respondents choosing multiple races (excluding those selecting Hispanic ethnicity).
SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2001–2005.

TABLE F-18. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by disability status: 2001–2005

(Percent distribution)

Primary source of support	All recipients	No disability	With disability
All recipients (number)	79,331	77,931	1,400
All sources	100.0	100.0	100.0
Personal/family funds	19.7	19.5	33.0
Loans	6.6	6.5	13.1
Savings	1.7	1.7	3.9
Other earnings in graduate school	5.7	5.6	8.6
Other family earnings or savings	5.7	5.7	7.4
Teaching assistantship	14.7	14.7	14.6
Research assistantship, traineeship, and internship	28.0	28.2	18.9
Research assistantship	25.2	25.4	15.6
Traineeship	2.2	2.2	1.8
Internship or residency	0.3	0.3	0.9
Other assistantship	0.3	0.3	0.6
Fellowship/scholarship and dissertation grant	29.0	29.0	26.5
Fellowship/scholarship	22.6	22.7	21.6
Grant/stipend	6.4	6.4	4.9
Employer reimbursement or assistance	3.3	3.3	4.2
Foreign	0.2	0.2	0.1
Other	0.1	0.1	0.8
Not reported	5.0	5.1	1.8

NOTE: Respondents are asked if they have a disability and then are asked to mark one or more types of disability (blind/visually impaired, deaf/hard of hearing, physical/orthopedic disability, learning/cognitive disability, vocal/speech disability, or other disability).

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2001–2005.

TABLE F-19. Location and type of postgraduate activity for U.S.-citizen and permanent-resident S&E doctorate recipients with definite postgraduate plans, by sex: 2005

(Percent distribution)

Location and type of postgraduate activity	Both sexes		
	Female	Male	
All recipients (number)	11,161	4,803	6,356
All locations and types	100.0	100.0	100.0
United States	96.3	97.0	95.8
Academic employment	22.8	25.0	21.2
Industry employment	14.0	9.2	17.7
Postdoctoral study	45.7	48.4	43.6
Other ^a	13.7	14.4	13.2
Abroad	3.7	3.0	4.2
Location unknown	0.0	0.0	0.0

^a Includes elementary/secondary schools, government, nonprofit, and other or unknown.

NOTES: Definite postgraduate plans are defined as *Am returning to, or continuing in, predoctoral employment* or *Have signed contract or made definite commitment for other work or study* by doctoral degree recipients who responded to the question, *How definite are your immediate (within the next year) postgraduate plans?* Total includes unknown sex not shown separately.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2005.

TABLE F-20. S&E doctoral degrees awarded by leading institutions, by sex: 2001–2005

Academic institution	Doctoral degrees	Academic institution	Doctoral degrees
Female		Male	
All institutions	48,355	All institutions	81,112
Top 50 institutions	24,152	Top 50 institutions	45,773
University of California-Berkeley	970	University of California-Berkeley	1,838
University of Michigan at Ann Arbor	739	Massachusetts Institute of Technology	1,689
University of Wisconsin-Madison	714	Stanford University	1,642
University of California-Los Angeles	700	University of Illinois at Urbana-Champaign	1,594
University of Minnesota-Twin Cities	700	University of Michigan at Ann Arbor	1,492
University of Texas at Austin	660	University of Wisconsin-Madison	1,441
Stanford University	658	University of Texas at Austin	1,370
University of California-Davis	640	University of California-Los Angeles	1,342
University of Washington-Seattle	624	Texas A&M University main campus	1,340
Ohio State University main campus	620	Pennsylvania State University main campus	1,322
Harvard University	618	Purdue University main campus	1,273
Cornell University all campuses	611	Ohio State University main campus	1,230
University of Illinois at Urbana-Champaign	611	University of Florida	1,169
Massachusetts Institute of Technology	588	University of Minnesota-Twin Cities	1,148
University of Florida	588	Cornell University all campuses	1,099
Pennsylvania State University main campus	586	University of Washington-Seattle	1,086
Michigan State University	569	University of Maryland at College Park	1,057
University of North Carolina at Chapel Hill	542	Georgia Institute of Technology main campus	1,056
University of Maryland at College Park	528	Harvard University	980
Texas A&M University main campus	492	North Carolina State University at Raleigh	899
Purdue University main campus	491	University of California-Davis	880
University of Arizona	474	University of Southern California	851
University of Pennsylvania	472	Michigan State University	829
Rutgers the State University of New Jersey New Brunswick	469	University of Arizona	799
Johns Hopkins University	462	Virginia Polytechnic Institute and State University	784
Yale University	455	University of California-San Diego	776
University of Georgia	441	Columbia University in the City of New York	766
Columbia University in the City of New York	438	University of Chicago	736
North Carolina State University at Raleigh	437	University of Pennsylvania	709
University of Southern California	436	Johns Hopkins University	706
University of California-San Diego	415	Northwestern University	705
Northwestern University	399	Iowa State University	685
CUNY Graduate School and University Center	391	University of Colorado at Boulder	678
University of Colorado at Boulder	388	Princeton University	663
New York University	381	Rutgers the State University of New Jersey New Brunswick	646
University of Pittsburgh main campus	371	Carnegie Mellon University	626
University of Chicago	349	University of North Carolina at Chapel Hill	613
Duke University	347	Yale University	606
University of Connecticut	340	California Institute of Technology	596
Boston University	335	University of California-Santa Barbara	593
University of Virginia main campus	332	University of Georgia	570
Indiana University at Bloomington	324	SUNY at Stony Brook all campuses	566
Georgia Institute of Technology main campus	318	University of Pittsburgh main campus	564
SUNY at Stony Brook all campuses	317	SUNY at Buffalo	556
University of Massachusetts at Amherst	314	Arizona State University main campus	552
Arizona State University main campus	313	Duke University	552
University of California-Santa Barbara	308	University of Virginia main campus	542
University of Kansas main campus	297	Boston University	531
Virginia Polytechnic Institute and State University	293	University of Utah	524
Wayne State University	287	Indiana University at Bloomington	502
Other institutions	24,203	Other institutions	35,339

NOTE: Institutions with the same number of doctorate recipients are listed alphabetically.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2001–2005.

TABLE F-21. S&E doctoral degrees awarded by leading institutions, by race/ethnicity of minority graduates: 2001--2005

Academic institution	Doctoral degrees	Academic institution	Doctoral degrees
Asian/Pacific Islander		Black	
All institutions	34,917	All institutions	4,467
University of Illinois at Urbana-Champaign	819	Howard University	233
University of California-Los Angeles	740	University of Maryland at College Park	97
Purdue University main campus	734	University of Michigan at Ann Arbor	97
Texas A&M University main campus	727	University of Florida	73
University of California-Berkeley	720	Pennsylvania State University main campus	70
Stanford University	714	Michigan State University	65
University of Michigan at Ann Arbor	683	Georgia Institute of Technology main campus	61
Ohio State University main campus	671	North Carolina State University at Raleigh	61
University of Texas at Austin	666	Ohio State University main campus	60
Pennsylvania State University main campus	608	University of North Carolina at Chapel Hill	59
University of Wisconsin-Madison	603	CUNY Graduate School and University Center	58
University of Southern California	599	Louisiana State University & Agricultural & Mechanical College	57
Massachusetts Institute of Technology	550	Purdue University main campus	55
Georgia Institute of Technology main campus	540	Meharry Medical College	54
Cornell University all campuses	495	Harvard University	53
University of Maryland at College Park	492	Temple University	50
University of Minnesota-Twin Cities	464	Stanford University	48
University of Florida	460	University of California-Berkeley	47
Columbia University in the City of New York	448	University of Georgia	47
North Carolina State University at Raleigh	418	University of Pennsylvania	46
Other institutions	22,766	Other institutions	3,076
Hispanic		American Indian/Alaska Native	
All institutions	6,506	All institutions	360
Texas A&M University main campus	159	Oklahoma State University all campuses	14
University of Florida	156	University of California-Berkeley	10
University of California-Berkeley	150	University of New Mexico all campuses	8
University of Texas at Austin	131	University of Oklahoma, Norman campus	8
University of California-Los Angeles	130	University of Florida	6
University of Wisconsin-Madison	122	University of Kansas main campus	6
Cornell University all campuses	121	University of Michigan at Ann Arbor	6
Stanford University	116	University of North Dakota all campuses	6
University of Puerto Rico Rio Piedras campus	116	University of Southern California	6
University of Illinois at Urbana-Champaign	114	California School of Professional Psychology at San Diego	5
University of Arizona	111	Colorado State University	5
University of California-Davis	102	Stanford University	5
University of Michigan at Ann Arbor	96	Texas A&M University main campus	5
Harvard University	86	University of Arizona	5
Massachusetts Institute of Technology	83	University of California-Davis	5
Purdue University main campus	83	University of California-Los Angeles	5
University of California-San Diego	83	University of Illinois at Urbana-Champaign	5
University of Maryland at College Park	82	University of Missouri, Columbia	5
Pennsylvania State University main campus	77	University of Washington-Seattle	5
Ohio State University main campus	76	University of Wisconsin-Madison	5
Other institutions	4,312	Washington University	5
		Other institutions	230

NOTE: Institutions with the same number of doctorate recipients are listed alphabetically.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2001–2005.

TABLE F-22. S&E doctoral degrees awarded by leading institutions to persons with disabilities: 2001–2005

Academic institution	All disabilities	Blind/visually impaired	Deaf/hard of hearing	Learning disabilities	Physical/orthopedic disability	Vocal/speech disability	Other/more than one	Unspecified
All institutions	1,574	139	211	423	489	52	235	25
Top 49 institutions	814	72	115	226	243	27	120	11
University of California-Berkeley	48	7	3	10	19	0	8	1
University of Wisconsin-Madison	30	2	5	9	11	0	3	0
University of Texas-Austin	25	0	2	5	11	1	6	0
Pennsylvania State University main campus	24	3	3	7	6	0	5	0
University of Illinois at Urbana-Champaign	24	4	7	4	4	2	2	1
Harvard University	23	5	1	6	5	0	6	0
Texas A&M University College Station	23	2	8	5	6	0	1	1
University of California-Davis	23	1	2	12	5	0	3	0
University of Florida	23	2	5	4	9	0	3	0
University of New Mexico main campus	22	2	0	9	7	1	3	0
Stanford University	21	0	3	5	9	0	4	0
University of California-Los Angeles	20	1	2	8	7	1	1	0
University of Michigan-Ann Arbor	20	1	4	5	6	1	3	0
Virginia Polytechnic Institute and State University	19	1	2	5	9	1	0	1
Cornell endowed colleges	18	4	3	3	3	2	3	0
Northwestern University	18	3	2	6	3	1	2	1
University of Pennsylvania	18	0	4	6	5	2	1	0
University of Southern California	18	0	1	8	7	0	2	0
Ohio State University	17	1	1	6	4	2	2	1
University of Georgia	17	1	0	7	4	1	4	0
University of Washington-Seattle	17	1	3	7	3	1	2	0
SUNY Buffalo	16	1	2	4	9	0	0	0
University of Maryland-College Park	16	1	4	4	3	0	2	2
Arizona State University	15	1	7	2	3	1	1	0
Michigan State University	15	2	4	3	4	0	2	0
University of California-Santa Barbara	15	3	2	5	5	0	0	0
George Mason University	14	0	0	2	5	0	7	0
University of Arizona	14	1	0	4	7	0	2	0
University of Minnesota-Twin Cities	14	3	2	1	3	1	4	0
Yale University	14	3	2	4	1	0	3	1
Massachusetts Institute of Technology	13	1	2	4	3	2	1	0
University of Colorado-Boulder	13	2	4	2	3	1	1	0
University of Connecticut	13	2	1	7	1	1	1	0
University of Kentucky	13	0	3	6	2	0	2	0
California School of Professional Psychology-Alameda	12	0	3	5	2	0	2	0
North Carolina State University-Raleigh	12	2	4	2	3	0	1	0
Rutgers the State University of New Jersey New Brunswick	12	3	1	2	5	0	1	0
Duke University	11	0	2	3	1	1	3	1
University of California-San Diego	11	1	3	3	2	0	2	0
University of Chicago	11	0	0	4	2	1	3	1
University of Oklahoma-Norman	11	0	0	2	5	0	4	0
Walden University	11	0	2	2	4	0	3	0
CUNY Graduate School and University Center	10	0	0	3	6	0	1	0
Iowa State University	10	1	1	2	6	0	0	0
Southern Illinois University-Carbondale	10	1	2	3	2	0	2	0
SUNY Stony Brook	10	0	1	3	3	0	3	0
Texas Tech University	10	1	1	2	5	1	0	0
University of Kansas	10	0	1	5	2	1	1	0
Wayne State University	10	2	0	0	3	1	4	0
Other institutions	760	67	96	197	246	25	115	14

NOTE: Institutions with the same number of doctorate recipients are listed alphabetically.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2001–2005.

TABLE G-1. Definite postgraduation plans of U.S.-citizen and permanent-resident S&E doctoral degree recipients, by major field, sex, and location: 2005
(Percent distribution)

Major field and sex	All definite plans	United States					Abroad	Location unknown
		All U.S. plans	Academic employment	Industry employment	Postdoctoral study	Other		
All fields ^a	100.0	97.0	37.2	11.1	30.0	18.7	3.0	0.0
S&E	100.0	96.3	22.9	15.4	45.7	12.3	3.7	0.0
Science	100.0	96.2	24.2	11.5	48.8	11.7	3.8	0.0
Agricultural sciences	100.0	97.2	23.4	18.4	31.6	23.7	2.8	0.0
Biological sciences	100.0	96.9	8.5	5.9	76.4	6.0	3.0	0.0
Computer sciences	100.0	94.7	39.7	26.8	19.4	8.8	5.3	0.0
Earth, atmospheric, and ocean sciences	100.0	94.2	18.1	12.3	50.3	13.5	5.5	0.3
Mathematics and statistics	100.0	93.5	39.3	10.9	36.1	7.2	6.5	0.0
Physical sciences	100.0	94.7	9.8	24.4	54.5	5.9	5.3	0.0
Astronomy	100.0	92.7	9.4	8.3	69.8	5.2	7.3	0.0
Chemistry	100.0	96.3	9.3	29.2	53.3	4.5	3.7	0.0
Physics	100.0	92.0	11.0	17.9	54.0	9.1	8.0	0.0
Other	100.0	75.0	25.0	0.0	25.0	25.0	25.0	0.0
Psychology	100.0	98.3	24.6	10.8	45.7	17.2	1.6	0.1
Social sciences	100.0	94.6	56.6	7.4	11.9	18.6	5.4	0.0
Engineering	100.0	96.9	15.1	39.6	26.4	15.8	3.1	0.0
Aerospace engineering	100.0	95.5	12.1	33.3	18.2	31.8	4.5	0.0
Chemical engineering	100.0	95.8	7.1	52.5	34.2	2.1	4.2	0.0
Civil engineering	100.0	96.7	21.3	31.7	23.5	20.2	3.3	0.0
Electrical engineering	100.0	98.2	15.9	52.0	14.1	16.2	1.8	0.0
Industrial engineering	100.0	98.0	26.5	51.0	4.1	16.3	2.0	0.0
Materials engineering	100.0	95.0	5.0	36.4	40.5	13.2	5.0	0.0
Mechanical engineering	100.0	96.8	19.4	33.3	25.0	19.0	3.2	0.0
Other	100.0	97.0	16.4	23.4	38.5	18.7	3.0	0.0
Non-S&E	100.0	98.0	56.8	5.3	8.3	27.5	2.0	0.0
Female	100.0	97.7	40.5	7.9	28.5	20.8	2.3	0.0
S&E	100.0	97.0	25.0	10.7	48.4	12.8	3.0	0.0
Science	100.0	96.9	25.7	9.2	49.3	12.7	3.1	0.0
Agricultural sciences	100.0	97.9	22.0	11.3	36.9	27.7	2.1	0.0
Biological sciences	100.0	96.9	9.9	6.3	74.6	6.0	3.1	0.0
Computer sciences	100.0	97.1	47.1	15.7	21.4	12.9	2.9	0.0
Earth, atmospheric, and ocean sciences	100.0	93.9	16.7	9.6	57.0	10.5	6.1	0.0
Mathematics and statistics	100.0	98.2	57.5	8.0	24.8	8.0	1.8	0.0
Physical sciences	100.0	95.1	11.5	25.6	51.8	6.1	4.9	0.0
Astronomy	100.0	93.3	10.0	10.0	66.7	6.7	6.7	0.0
Chemistry	100.0	96.9	11.2	30.1	49.1	6.5	3.1	0.0
Physics	100.0	88.5	13.5	7.7	63.5	3.8	11.5	0.0
Other	100.0	33.3	33.3	0.0	0.0	0.0	66.7	0.0
Psychology	100.0	98.6	23.7	9.7	48.1	17.2	1.3	0.1
Social sciences	100.0	95.2	57.9	4.9	13.7	18.8	4.8	0.0
Engineering	100.0	97.7	15.9	33.1	35.4	13.2	2.3	0.0
Aerospace engineering	100.0	100.0	14.3	28.6	0.0	57.1	0.0	0.0
Chemical engineering	100.0	100.0	8.5	35.6	52.5	3.4	0.0	0.0
Civil engineering	100.0	94.2	19.2	23.1	36.5	15.4	5.8	0.0
Electrical engineering	100.0	100.0	16.0	48.0	20.0	16.0	0.0	0.0
Industrial engineering	100.0	100.0	0.0	90.0	0.0	10.0	0.0	0.0
Materials engineering	100.0	96.8	6.5	25.8	51.6	12.9	3.2	0.0
Mechanical engineering	100.0	100.0	33.3	33.3	22.2	11.1	0.0	0.0
Other	100.0	95.5	19.7	22.7	37.9	15.2	4.5	0.0
Non-S&E	100.0	98.4	55.8	5.1	8.9	28.7	1.5	0.0

TABLE G-1. Definite postgraduation plans of U.S.-citizen and permanent-resident S&E doctoral degree recipients, by major field, sex, and location: 2005
(Percent distribution)

Major field and sex	All definite plans	United States					Abroad	Location unknown
		All U.S. plans	Academic employment	Industry employment	Postdoctoral study	Other		
Male	100.0	96.3	33.8	14.5	31.4	16.6	3.7	0.0
S&E	100.0	95.8	21.3	18.9	43.6	11.9	4.2	0.0
Science	100.0	95.5	22.9	13.5	48.4	10.8	4.4	0.1
Agricultural sciences	100.0	96.7	24.4	23.0	28.2	21.1	3.3	0.0
Biological sciences	100.0	97.0	7.3	5.6	78.1	6.0	3.0	0.1
Computer sciences	100.0	94.1	37.8	29.6	18.9	7.8	5.9	0.0
Earth, atmospheric, and ocean sciences	100.0	94.3	18.9	13.7	46.7	15.1	5.2	0.5
Mathematics and statistics	100.0	91.7	32.2	12.1	40.5	6.9	8.3	0.0
Physical sciences	100.0	94.6	9.1	24.0	55.6	5.9	5.4	0.0
Astronomy	100.0	92.4	9.1	7.6	71.2	4.5	7.6	0.0
Chemistry	100.0	95.9	8.2	28.6	55.7	3.4	4.1	0.0
Physics	100.0	92.5	10.6	19.6	52.5	9.9	7.5	0.0
Other	100.0	100.0	20.0	0.0	40.0	40.0	0.0	0.0
Psychology	100.0	97.8	26.6	13.3	40.8	17.2	2.0	0.2
Social sciences	100.0	94.0	55.4	9.9	10.2	18.5	6.0	0.0
Engineering	100.0	96.7	14.9	41.1	24.2	16.4	3.3	0.0
Aerospace engineering	100.0	94.9	11.9	33.9	20.3	28.8	5.1	0.0
Chemical engineering	100.0	94.5	6.6	58.0	28.2	1.7	5.5	0.0
Civil engineering	100.0	97.7	22.1	35.1	18.3	22.1	2.3	0.0
Electrical engineering	100.0	98.2	16.0	52.7	13.3	16.3	1.8	0.0
Industrial engineering	100.0	97.4	33.3	41.0	5.1	17.9	2.6	0.0
Materials engineering	100.0	94.4	4.4	40.0	36.7	13.3	5.6	0.0
Mechanical engineering	100.0	96.3	17.5	33.3	25.4	20.1	3.7	0.0
Other	100.0	97.4	15.5	23.6	38.6	19.7	2.6	0.0
Non-S&E	100.0	97.3	58.3	5.7	7.5	25.8	2.7	0.0

S&E = Science and engineering.

^a Includes those with unknown gender.

NOTES: Definite postgraduate plans are defined as *Am returning to, or continuing in, predoctoral employment* or *Have signed contract or made definite commitment for other work or study* by doctoral degree recipients who responded to the question, *How definite are your immediate (within the next year) postgraduate plans?* "Other" includes elementary/secondary schools, government, nonprofit, and other/unknown.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2005.

TABLE G-2. S&E postdoctoral fellows, by field and sex: 1998–2005

Field and sex	1998	1999	2000	2001	2002	2003	2004	2005
All fields	Number							
S&E	27,876	28,980	30,224	30,194	31,908	33,546	33,937	34,584
Sciences	25,023	25,784	26,911	27,028	28,340	29,726	29,972	30,421
Agricultural sciences	695	750	822	835	945	1052	942	989
Biological sciences	15,761	16,097	16,734	17,029	17,648	18,615	18,696	19,003
Anatomy	454	497	428	413	423	471	477	417
Biochemistry	2,532	2,485	2,469	2,558	2,752	2,621	2,510	2,548
Biology	1,813	1,892	1,937	1,962	2,047	2,080	1,962	2,011
Biometry/epidemiology	175	181	125	152	231	244	238	280
Biophysics	239	266	164	187	233	195	218	191
Botany	555	559	518	553	561	547	560	576
Cell/molecular biology	2,204	2,237	2,241	2,139	2,292	2,340	2,327	2,454
Ecology	115	123	152	161	186	189	170	187
Entomology/parasitology	181	178	197	223	234	258	292	284
Genetics	732	796	795	883	926	1037	941	1031
Microbiology, immunology, and virology	2,089	2,158	2,253	2,187	2,438	2,340	2,146	2,270
Nutrition	234	238	224	245	225	243	274	299
Pathology	1,332	1,321	1,757	1,803	1,837	1,944	1,815	1,606
Pharmacology	1,470	1,512	1,461	1,392	1,386	1,520	1,552	1,536
Physiology	1,138	1,132	1,140	1,193	1,165	1,249	1,279	1,297
Zoology	135	138	104	88	92	82	111	142
Other	363	384	769	890	620	1255	1,824	1,874
Computer sciences	374	334	344	338	361	360	384	406
Earth, atmospheric, and ocean sciences	902	925	1155	1,036	1,114	1,166	1,253	1,364
Atmospheric	85	107	94	87	79	94	119	129
Earth	468	479	514	471	444	463	507	517
Ocean	249	235	246	218	270	249	299	345
Other	100	104	301	260	321	360	328	373
Mathematics and statistics	279	351	385	353	393	447	466	500
Mathematics/applied mathematics	255	321	357	329	365	407	420	443
Statistics	24	30	28	24	28	40	46	57
Physical sciences	6,004	6,157	6,270	6,218	6,610	6,724	6,956	6,896
Astronomy	360	375	315	311	330	319	367	374
Chemistry	3,741	3,836	3,877	3,861	3,982	4,042	4,235	4,115
Physics	1,863	1,862	1,948	1,910	2,154	2,202	2,138	2,208
Other	40	84	130	136	144	161	216	199
Psychology	617	716	730	809	815	960	910	892
Clinical	51	70	73	81	68	72	67	64
General	393	412	411	498	532	634	606	587
Nonclinical	173	234	246	230	215	254	237	241
Social sciences	391	454	471	410	454	402	365	371
Agricultural economics	38	43	41	35	21	25	34	40
Anthropology (cultural and social)	62	87	73	56	66	57	54	65
Economics	29	31	32	23	29	36	20	13
Geography	18	30	34	36	30	29	31	42
History and philosophy of science	23	10	14	9	13	14	6	9
Linguistics	18	15	19	17	22	29	29	24
Political science and public administration	64	70	50	52	61	51	44	42
Sociology	79	104	102	92	109	76	77	63
Other	60	64	106	90	103	85	70	73
Engineering	2,853	3,196	3,313	3,166	3,568	3,820	3,965	4,163
Aerospace	133	128	111	128	140	141	141	153
Agricultural	56	62	56	60	66	88	79	89
Biomedical	180	242	220	262	284	388	425	477
Chemical	613	671	703	575	743	672	688	686
Civil	225	299	295	280	358	319	332	400
Electrical	488	548	525	435	612	646	653	687
Engineering science/physics	110	122	163	162	169	180	180	168
Industrial/manufacturing	30	27	48	20	42	45	50	51

TABLE G-2. S&E postdoctoral fellows, by field and sex: 1998–2005

Field and sex	1998	1999	2000	2001	2002	2003	2004	2005
Mechanical	434	476	480	501	441	543	514	562
Metallurgical/materials	404	421	507	479	507	539	567	578
Mining	10	6	8	14	10	12	9	8
Nuclear	19	30	40	78	28	52	67	41
Petroleum	14	19	20	17	15	17	14	13
Other	137	145	137	155	153	178	246	250
Female								
S&E	8,326	8,708	8,928	9,242	10,120	10,754	10,948	11,318
Sciences	7,943	8,239	8,455	8,758	9,519	10,150	10,243	10,591
Agricultural sciences	189	205	239	252	312	363	322	328
Biological sciences	5,906	6,070	6,237	6,441	6,870	7,324	7,388	7,681
Anatomy	175	191	146	150	181	195	212	184
Biochemistry	891	888	865	909	1018	987	922	914
Biology	670	693	717	708	778	795	741	770
Biometry/epidemiology	87	98	72	84	104	130	127	145
Biophysics	65	64	45	54	74	63	74	64
Botany	154	170	155	174	205	206	207	228
Cell/molecular biology	858	857	878	843	885	920	897	967
Ecology	37	37	47	54	65	66	57	72
Entomology/parasitology	48	47	53	57	60	67	86	86
Genetics	317	310	307	359	381	432	388	437
Microbiology, immunology, and virology	888	937	945	919	1058	1,001	862	973
Nutrition	98	83	94	108	109	118	124	142
Pathology	510	502	653	674	735	750	697	689
Pharmacology	558	590	556	550	545	604	625	598
Physiology	368	405	413	443	411	461	505	517
Zoology	52	63	29	25	31	27	47	60
Other	130	135	262	330	230	502	817	835
Computer sciences	62	58	40	48	51	59	79	71
Earth, atmospheric, ocean sciences	228	219	292	284	327	348	364	405
Atmospheric	17	20	21	23	28	24	29	34
Earth	117	109	114	121	126	136	138	146
Ocean	77	70	81	78	96	85	110	118
Other	17	20	76	62	77	103	87	107
Mathematics and statistics	38	73	51	64	76	86	105	108
Mathematics/applied mathematics	34	66	44	57	66	75	93	90
Statistics	4	7	7	7	10	11	12	18
Physical sciences	1,052	1,045	1,044	1,083	1,236	1,287	1,360	1,392
Astronomy	70	58	49	55	66	70	69	79
Chemistry	780	778	773	809	884	916	965	963
Physics	195	199	208	199	266	279	294	319
Other	7	10	14	20	20	22	32	31
Psychology	316	373	357	413	426	482	460	435
Clinical	33	54	51	60	49	46	45	41
General	191	194	180	243	264	321	301	264
Nonclinical	92	125	126	110	113	115	114	130
Social sciences	152	196	195	173	221	201	165	171
Agricultural economics	6	10	11	9	4	6	7	10
Anthropology (cultural and social)	27	40	35	23	38	31	18	34
Economics	5	5	8	6	11	13	8	3
Geography	6	11	8	8	12	10	11	10
History and philosophy of science	7	5	6	3	5	4	3	2
Linguistics	12	9	7	10	12	13	12	14
Political science and public administration	23	22	15	14	17	20	25	20
Sociology	42	63	53	52	64	53	49	42
Other	24	31	52	48	58	51	32	36

TABLE G-2. S&E postdoctoral fellows, by field and sex: 1998–2005

Field and sex	1998	1999	2000	2001	2002	2003	2004	2005
Engineering	383	469	473	484	601	604	705	727
Aerospace	8	15	10	14	17	15	16	24
Agricultural	6	8	7	6	10	16	14	20
Biomedical	39	64	66	73	81	107	128	135
Chemical	117	119	116	109	156	134	143	135
Civil	35	55	55	50	68	59	82	78
Electrical	49	67	51	48	55	77	86	88
Engineering science/physics	18	17	26	23	29	31	30	22
Industrial/manufacturing	2	5	8	3	14	9	12	9
Mechanical	30	34	38	43	46	39	59	60
Metallurgical/materials	65	69	76	79	86	69	90	106
Mining	0	0	1	1	0	1	0	1
Nuclear	2	2	3	5	1	7	10	8
Petroleum	2	0	1	2	1	2	1	2
Other	10	14	15	28	37	38	34	39
Male								
S&E	19,550	20,272	21,296	20,952	21,788	22,792	22,989	23,266
Sciences	17,080	17,545	18,456	18,270	18,821	19,576	19,729	19,830
Agricultural sciences	506	545	583	583	633	689	620	661
Biological sciences	9,855	10,027	10,497	10,588	10,778	11,291	11,308	11,322
Anatomy	279	306	282	263	242	276	265	233
Biochemistry	1,641	1,597	1,604	1,649	1,734	1,634	1,588	1,634
Biology	1,143	1,199	1,220	1,254	1,269	1,285	1,221	1,241
Biometry/epidemiology	88	83	53	68	127	114	111	135
Biophysics	174	202	119	133	159	132	144	127
Botany	401	389	363	379	356	341	353	348
Cell/molecular biology	1,346	1,380	1,363	1,296	1,407	1,420	1,430	1,487
Ecology	78	86	105	107	121	123	113	115
Entomology/parasitology	133	131	144	166	174	191	206	198
Genetics	415	486	488	524	545	605	553	594
Microbiology, immunology, and virology	1,201	1,221	1,308	1,268	1,380	1,339	1,284	1,297
Nutrition	136	155	130	137	116	125	150	157
Pathology	822	819	1,104	1,129	1,102	1,194	1,118	917
Pharmacology	912	922	905	842	841	916	927	938
Physiology	770	727	727	750	754	788	774	780
Zoology	83	75	75	63	61	55	64	82
Other	233	249	507	560	390	753	1,007	1,039
Computer sciences	312	276	304	290	310	301	305	335
Earth, atmospheric, and ocean sciences	674	706	863	752	787	818	889	959
Atmospheric	68	87	73	64	51	70	90	95
Earth	351	370	400	350	318	327	369	371
Ocean	172	165	165	140	174	164	189	227
Other	83	84	225	198	244	257	241	266
Mathematics and statistics	241	278	334	289	317	361	361	392
Mathematics/applied mathematics	221	255	313	272	299	332	327	353
Statistics	20	23	21	17	18	29	34	39
Physical sciences	4,952	5,112	5,226	5,135	5,374	5,437	5,596	5,504
Astronomy	290	317	266	256	264	249	298	295
Chemistry	2,961	3,058	3,104	3,052	3,098	3,126	3,270	3,152
Physics	1,668	1,663	1,740	1,711	1,888	1,923	1,844	1,889
Other	33	74	116	116	124	139	184	168
Psychology	301	343	373	396	389	478	450	457
Clinical	18	16	22	21	19	26	22	23
General	202	218	231	255	268	313	305	323
Nonclinical	81	109	120	120	102	139	123	111
Social sciences	239	258	276	237	233	201	200	200
Agricultural economics	32	33	30	26	17	19	27	30
Anthropology (cultural and social)	35	47	38	33	28	26	36	31
Economics	24	26	24	17	18	23	12	10

TABLE G-2. S&E postdoctoral fellows, by field and sex: 1998–2005

Field and sex	1998	1999	2000	2001	2002	2003	2004	2005
Geography	12	19	26	28	18	19	20	32
History and philosophy of science	16	5	8	6	8	10	3	7
Linguistics	6	6	12	7	10	16	17	10
Political science and public administration	41	48	35	38	44	31	19	22
Sociology	37	41	49	40	45	23	28	21
Other	36	33	54	42	45	34	38	37
Engineering	2,470	2,727	2,840	2,682	2,967	3,216	3,260	3,436
Aerospace	125	113	101	114	123	126	125	129
Agricultural	50	54	49	54	56	72	65	69
Biomedical	141	178	154	189	203	281	297	342
Chemical	496	552	587	466	587	538	545	551
Civil	190	244	240	230	290	260	250	322
Electrical	439	481	474	387	557	569	567	599
Engineering science/physics	92	105	137	139	140	149	150	146
Industrial/manufacturing	28	22	40	17	28	36	38	42
Mechanical	404	442	442	458	395	504	455	502
Metallurgical/materials	339	352	431	400	421	470	477	472
Mining	10	6	7	13	10	11	9	7
Nuclear	17	28	37	73	27	45	57	33
Petroleum	12	19	19	15	14	15	13	11
Other	127	131	122	127	116	140	212	211
	Percent							
Female								
S&E	29.9	30.0	29.5	30.6	31.7	32.1	32.3	32.7
Sciences	31.7	32.0	31.4	32.4	33.6	34.1	34.2	34.8
Agricultural sciences	27.2	27.3	29.1	30.2	33.0	34.5	34.2	33.2
Biological sciences	37.5	37.7	37.3	37.8	38.9	39.3	39.5	40.4
Anatomy	38.5	38.4	34.1	36.3	42.8	41.4	44.4	44.1
Biochemistry	35.2	35.7	35.0	35.5	37.0	37.7	36.7	35.9
Biology	37.0	36.6	37.0	36.1	38.0	38.2	37.8	38.3
Biometry/epidemiology	49.7	54.1	57.6	55.3	45.0	53.3	53.4	51.8
Biophysics	27.2	24.1	27.4	28.9	31.8	32.3	33.9	33.5
Botany	27.7	30.4	29.9	31.5	36.5	37.7	37.0	39.6
Cell/molecular biology	38.9	38.3	39.2	39.4	38.6	39.3	38.5	39.4
Ecology	32.2	30.1	30.9	33.5	34.9	34.9	33.5	38.5
Entomology/parasitology	26.5	26.4	26.9	25.6	25.6	26.0	29.5	30.3
Genetics	43.3	38.9	38.6	40.7	41.1	41.7	41.2	42.4
Microbiology, immunology, and virology	42.5	43.4	41.9	42.0	43.4	42.8	40.2	42.9
Nutrition	41.9	34.9	42.0	44.1	48.4	48.6	45.3	47.5
Pathology	38.3	38.0	37.2	37.4	40.0	38.6	38.4	42.9
Pharmacology	38.0	39.0	38.1	39.5	39.3	39.7	40.3	38.9
Physiology	32.3	35.8	36.2	37.1	35.3	36.9	39.5	39.9
Zoology	38.5	45.7	27.9	28.4	33.7	32.9	42.3	42.3
Other	35.8	35.2	34.1	37.1	37.1	40.0	44.8	44.6
Computer sciences	16.6	17.4	11.6	14.2	14.1	16.4	20.6	17.5
Earth, atmospheric, and ocean sciences	25.3	23.7	25.3	27.4	29.4	29.8	29.1	29.7
Atmospheric	20.0	18.7	22.3	26.4	35.4	25.5	24.4	26.4
Earth	25.0	22.8	22.2	25.7	28.4	29.4	27.2	28.2
Ocean	30.9	29.8	32.9	35.8	35.6	34.1	36.8	34.2
Other	17.0	19.2	25.2	23.8	24.0	28.6	26.5	28.7
Mathematics and statistics	13.6	20.8	13.2	18.1	19.3	19.2	22.5	21.6
Mathematics/applied mathematics	13.3	20.6	12.3	17.3	18.1	18.4	22.1	20.3
Statistics	16.7	23.3	25.0	29.2	35.7	27.5	26.1	31.6
Physical sciences	17.5	17.0	16.7	17.4	18.7	19.1	19.6	20.2
Astronomy	19.4	15.5	15.6	17.7	20.0	21.9	18.8	21.1
Chemistry	20.9	20.3	19.9	21.0	22.2	22.7	22.8	23.4
Physics	10.5	10.7	10.7	10.4	12.3	12.7	13.8	14.4
Other	17.5	11.9	10.8	14.7	13.9	13.7	14.8	15.6

TABLE G-2. S&E postdoctoral fellows, by field and sex: 1998–2005

Field and sex	1998	1999	2000	2001	2002	2003	2004	2005
Psychology	51.2	52.1	48.9	51.1	52.3	50.2	50.5	48.8
Clinical	64.7	77.1	69.9	74.1	72.1	63.9	67.2	64.1
General	48.6	47.1	43.8	48.8	49.6	50.6	49.7	45.0
Nonclinical	53.2	53.4	51.2	47.8	52.6	45.3	48.1	53.9
Social sciences	38.9	43.2	41.4	42.2	48.7	50.0	45.2	46.1
Agricultural economics	15.8	23.3	26.8	25.7	19.0	24.0	20.6	25.0
Anthropology (cultural and social)	43.5	46.0	47.9	41.1	57.6	54.4	33.3	52.3
Economics	17.2	16.1	25.0	26.1	37.9	36.1	40.0	23.1
Geography	33.3	36.7	23.5	22.2	40.0	34.5	35.5	23.8
History and philosophy of science	30.4	50.0	42.9	33.3	38.5	28.6	50.0	22.2
Linguistics	66.7	60.0	36.8	58.8	54.5	44.8	41.4	58.3
Political science and public administration	35.9	31.4	30.0	26.9	27.9	39.2	56.8	47.6
Sociology	53.2	60.6	52.0	56.5	58.7	69.7	63.6	66.7
Other	40.0	48.4	49.1	53.3	56.3	60.0	45.7	49.3
Engineering	13.4	14.7	14.3	15.3	16.8	15.8	17.8	17.5
Aerospace	6.0	11.7	9.0	10.9	12.1	10.6	11.3	15.7
Agricultural	10.7	12.9	12.5	10.0	15.2	18.2	17.7	22.5
Biomedical	21.7	26.4	30.0	27.9	28.5	27.6	30.1	28.3
Chemical	19.1	17.7	16.5	19.0	21.0	19.9	20.8	19.7
Civil	15.6	18.4	18.6	17.9	19.0	18.5	24.7	19.5
Electrical	10.0	12.2	9.7	11.0	9.0	11.9	13.2	12.8
Engineering science/physics	16.4	13.9	16.0	14.2	17.2	17.2	16.7	13.1
Industrial/manufacturing	6.7	18.5	16.7	15.0	33.3	20.0	24.0	17.6
Mechanical	6.9	7.1	7.9	8.6	10.4	7.2	11.5	10.7
Metallurgical/materials	16.1	16.4	15.0	16.5	17.0	12.8	15.9	18.3
Mining	0.0	0.0	12.5	7.1	0.0	8.3	0.0	12.5
Nuclear	10.5	6.7	7.5	6.4	3.6	13.5	14.9	19.5
Petroleum	14.3	0.0	5.0	11.8	6.7	11.8	7.1	15.4
Other	7.3	9.7	10.9	18.1	24.2	21.3	13.8	15.6

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1998–2005.

TABLE G-3. Location and type of postgraduate activity for U.S.-citizen and permanent-resident S&E doctoral degree recipients with definite postgraduate plans, by race/ethnicity: 2005

(Percent distribution)

Location and type of activity	All recipients	White	Asian ^a	Black	Hispanic	American Indian/ Alaska Native	Other/ unknown race/ ethnicity ^b
All doctoral degree recipients with definite plans (number)	11,161	8,752	1,063	442	534	42	328
All doctoral degree recipients with definite plans	100.0	100.0	100.0	100.0	100.0	100.0	100.0
United States	96.3	96.1	96.8	98.9	98.1	95.2	93.0
Academic employment	22.9	23.4	16.6	29.6	23.6	23.8	18.9
Industry employment	15.4	15.1	22.2	9.7	11.2	23.8	13.4
Postdoctoral study	45.7	45.2	49.6	43.7	50.7	31.0	43.9
Other	12.3	12.3	8.5	15.8	12.5	16.7	16.8
Abroad	3.7	3.9	3.2	1.1	1.9	4.8	6.1
Location unknown	0.0	0.0	0.0	0.0	0.0	0.0	0.9

S&E = Science and engineering.

^a Excludes Native Hawaiians/other Pacific Islanders per revised OMB guidelines.

^b This category includes Native Hawaiians/other Pacific Islanders and respondents choosing multiple races (excluding those selecting an Hispanic ethnicity).

NOTES: Definite postgraduate plans are defined as *Am returning to, or continuing in, predoctoral employment* or *Have signed contract or made definite commitment for other work or study* by doctoral degree recipients who responded to the question, *How definite are your immediate (within the next year) postgraduate plans?* "Other" includes elementary/secondary schools, government, nonprofit, and other/unknown.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2005.

TABLE G-4. Location and type of postgraduate activity for U.S.-citizen and permanent-resident S&E doctoral degree recipients with definite postgraduate plans, by disability status: 2005

(Percent distribution)

Location and type of activity	All recipients	No disability	With disability
All doctoral degree recipients with definite plans (number)	11,161	10,988	173
All doctoral degree recipients with definite plans	100.0	100.0	100.0
United States	96.3	96.3	97.1
Academic employment	22.9	22.8	28.3
Industry employment	15.4	15.4	14.5
Postdoctoral study	45.7	45.8	37.6
Other	12.3	12.2	16.8
Abroad	3.7	3.7	2.9
Location unknown	0.0	0.0	0.0

S&E = Science and engineering.

NOTES: Definite postgraduate plans are defined as *Am returning to, or continuing in, predoctoral employment* or *Have signed contract or made definite commitment for other work or study* by doctoral degree recipients who responded to the question, *How definite are your immediate (within the next year) postgraduate plans?* "Other" includes elementary/secondary schools, government, nonprofit, and other/unknown.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2005.