

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1996–2003

Field, citizenship, and race/ethnicity	1996	1997	1998	1999	2000	2001	2002	2003
All male S&E graduate students	253,510	245,619	241,429	242,786	243,057	251,812	266,248	276,090
Science	168,540	163,191	160,379	160,982	159,691	164,576	171,547	176,304
Agricultural sciences	7,716	7,497	7,316	7,263	6,935	6,892	7,045	7,171
Biological sciences	29,107	28,229	27,742	27,338	26,475	26,590	27,706	28,812
Anatomy	478	473	443	404	428	383	484	442
Biochemistry	2,987	2,926	2,919	2,835	2,735	2,694	2,768	2,957
Biology	7,482	7,359	7,064	6,846	6,401	6,163	6,308	6,586
Biometry/epidemiology	1,231	1,120	1,361	1,381	1,374	1,390	1,519	1,668
Biophysics	589	532	528	497	520	615	647	693
Botany	1,215	1,086	1,031	992	918	947	954	905
Cell/molecular biology	2,226	2,245	2,238	2,277	2,326	2,390	2,584	2,702
Ecology	855	842	840	823	846	909	928	1,022
Entomology/parasitology	810	751	754	739	662	690	699	669
Genetics	833	808	744	767	739	795	797	857
Microbiology, immunology, and virology	2,480	2,409	2,402	2,365	2,382	2,303	2,400	2,323
Nutrition	1,238	1,144	1,073	1,077	1,034	993	1,027	1,037
Pathology	847	842	776	776	702	742	707	631
Pharmacology	1,372	1,368	1,405	1,414	1,447	1,482	1,461	1,539
Physiology	1,396	1,364	1,265	1,185	1,133	1,056	1,082	1,184
Zoology	1,041	924	892	853	803	744	711	656
Other	2,027	2,036	2,007	2,107	2,025	2,294	2,630	2,941
Computer sciences	25,829	26,110	27,225	29,933	33,270	36,894	39,244	38,887
Earth, atmospheric, and ocean sciences	9,736	9,132	8,690	8,358	8,188	7,949	7,993	8,100
Atmospheric	852	829	731	671	695	626	703	776
Earth	4,984	4,663	4,372	4,237	4,141	4,061	4,099	4,125
Ocean	1,545	1,424	1,400	1,402	1,401	1,330	1,309	1,303
Other	2,355	2,216	2,187	2,048	1,951	1,932	1,882	1,896
Mathematics and statistics	11,789	10,851	10,497	10,214	9,870	10,381	11,277	12,176
Mathematics/applied mathematics	9,962	9,244	8,932	8,659	8,315	8,751	9,463	10,163
Statistics	1,827	1,607	1,565	1,555	1,555	1,630	1,814	2,013
Physical sciences	23,288	22,257	21,822	21,776	21,270	21,702	22,275	23,520
Astronomy	647	570	590	607	621	651	688	735
Chemistry	12,495	12,052	11,918	11,799	11,349	11,511	11,720	12,210
Physics	9,919	9,403	9,029	8,993	8,931	9,206	9,500	10,189
Other	227	232	285	377	369	334	367	386
Psychology	15,375	15,507	15,095	14,456	13,594	13,149	13,437	13,357
Clinical	3,700	3,786	3,560	3,513	3,205	3,089	3,142	3,168
General	5,187	5,372	5,251	4,851	4,597	4,554	4,483	4,577
Nonclinical	6,488	6,349	6,284	6,092	5,792	5,506	5,812	5,612
Social sciences	45,700	43,608	41,992	41,644	40,089	41,019	42,570	44,281
Agricultural economics	1,407	1,355	1,315	1,299	1,290	1,326	1,343	1,401
Anthropology (cultural and social)	3,087	3,059	3,021	2,989	2,941	2,929	2,864	2,942
Economics	8,297	7,585	7,237	7,063	6,983	7,413	7,741	7,807
Geography	2,770	2,662	2,663	2,547	2,409	2,503	2,540	2,654
History and philosophy of science	257	281	315	345	313	327	362	390
Linguistics	1,133	1,051	982	966	930	951	984	1,023
Political science and public administration	17,620	16,679	15,867	15,799	15,204	15,304	16,315	17,025
Sociology	3,640	3,591	3,362	3,227	3,072	3,080	3,178	3,226
Other	7,489	7,345	7,230	7,409	6,947	7,186	7,243	7,813
Engineering	84,970	82,428	81,050	81,804	83,366	87,236	94,701	99,786
Aerospace	2,856	2,712	2,755	2,926	2,938	2,966	3,169	3,445
Agricultural	802	723	682	683	631	623	640	715
Biomedical	1,999	2,021	2,035	2,117	2,171	2,385	2,849	3,385
Chemical	5,757	5,568	5,366	5,150	5,181	5,084	5,419	5,416
Civil	14,228	13,029	12,415	12,069	12,174	12,162	12,808	13,446
Electrical	25,712	26,237	26,512	26,689	28,075	29,888	32,678	33,954
Engineering science/physics	1,456	1,369	1,370	1,308	1,290	1,435	1,691	1,775
Industrial/manufacturing	9,906	9,301	8,769	9,144	9,406	10,132	10,957	11,035

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1996–2003

Field, citizenship, and race/ethnicity	1996	1997	1998	1999	2000	2001	2002	2003
Mechanical	13,873	13,266	12,934	13,168	13,403	13,908	15,056	16,076
Metallurgical/materials	3,670	3,571	3,550	3,397	3,336	3,548	3,741	3,822
Mining	317	285	249	273	241	204	230	236
Nuclear	827	725	687	686	636	644	647	703
Petroleum	502	484	516	560	540	565	659	720
Other	3,065	3,137	3,210	3,634	3,344	3,692	4,157	5,058
U.S. citizens and permanent residents	182,519	174,934	169,490	165,823	157,023	158,015	165,004	175,027
Science	127,186	122,823	119,622	118,016	112,367	113,471	117,447	122,950
Agricultural sciences	5,565	5,543	5,508	5,580	5,371	5,316	5,444	5,627
Biological sciences	22,988	22,288	21,856	21,590	20,557	20,536	21,033	21,915
Anatomy	374	364	346	317	324	281	369	340
Biochemistry	2,135	2,110	2,099	2,042	1,866	1,869	1,859	1,974
Biology	6,454	6,297	6,005	5,831	5,374	5,099	5,135	5,423
Biometry/epidemiology	947	864	1,017	1,006	986	999	1,032	1,170
Biophysics	466	406	407	386	372	427	433	482
Botany	841	740	704	661	603	646	639	614
Cell/molecular biology	1,759	1,771	1,767	1,853	1,858	1,870	2,018	2,063
Ecology	759	735	740	723	745	799	802	892
Entomology/parasitology	590	546	543	521	467	500	512	488
Genetics	599	569	545	556	543	571	591	616
Microbiology, immunology, and virology	1,904	1,883	1,906	1,904	1,916	1,843	1,834	1,814
Nutrition	786	731	708	699	649	597	621	587
Pathology	652	673	621	607	532	586	562	482
Pharmacology	1,078	1,084	1,111	1,124	1,141	1,184	1,172	1,207
Physiology	1,132	1,110	1,011	919	876	838	852	927
Zoology	911	808	780	762	711	631	590	565
Other	1,601	1,597	1,546	1,679	1,594	1,796	2,012	2,271
Computer sciences	17,043	16,876	17,028	17,911	17,682	18,499	19,997	21,439
Earth, atmospheric, and ocean sciences	7,742	7,336	6,954	6,695	6,392	6,148	6,237	6,374
Atmospheric	652	636	564	502	493	447	514	609
Earth	3,846	3,660	3,422	3,344	3,194	3,091	3,152	3,169
Ocean	1,155	1,081	1,049	1,070	1,077	1,022	1,028	1,010
Other	2,089	1,959	1,919	1,779	1,628	1,588	1,543	1,586
Mathematics and statistics	7,690	7,006	6,859	6,348	5,932	6,240	6,760	7,560
Mathematics/applied mathematics	6,493	6,008	5,884	5,494	5,112	5,423	5,835	6,498
Statistics	1,197	998	975	854	820	817	925	1,062
Physical sciences	15,151	14,373	14,004	13,697	12,898	12,976	13,073	13,700
Astronomy	480	424	426	421	420	442	458	494
Chemistry	8,448	8,125	8,016	7,854	7,406	7,344	7,209	7,391
Physics	6,028	5,627	5,317	5,093	4,758	4,916	5,097	5,505
Other	195	197	245	329	314	274	309	310
Psychology	14,667	14,757	14,297	13,666	12,842	12,372	12,345	12,167
Clinical	3,599	3,679	3,447	3,397	3,121	2,995	2,920	2,939
General	4,912	5,084	4,942	4,566	4,285	4,227	4,064	4,102
Nonclinical	6,156	5,994	5,908	5,703	5,436	5,150	5,361	5,126
Social sciences	36,340	34,644	33,116	32,529	30,693	31,384	32,558	34,168
Agricultural economics	776	709	701	696	652	686	713	746
Anthropology (cultural and social)	2,759	2,731	2,669	2,614	2,577	2,581	2,477	2,549
Economics	4,424	3,847	3,653	3,310	3,126	3,289	3,451	3,646
Geography	2,452	2,335	2,313	2,186	2,025	2,071	2,113	2,210
History and philosophy of science	222	235	271	304	274	282	321	347
Linguistics	751	698	615	604	584	621	656	687
Political science and public administration	15,432	14,612	13,739	13,521	12,844	12,984	13,898	14,446
Sociology	3,057	3,013	2,851	2,716	2,540	2,558	2,640	2,674
Other	6,467	6,464	6,304	6,578	6,071	6,312	6,289	6,863
Engineering	55,333	52,111	49,868	47,807	44,656	44,544	47,557	52,077
Aerospace	1,689	1,538	1,496	1,562	1,612	1,530	1,699	1,971
Agricultural	432	393	378	376	340	315	326	355

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1996–2003

Field, citizenship, and race/ethnicity	1996	1997	1998	1999	2000	2001	2002	2003
Biomedical	1,458	1,491	1,501	1,510	1,503	1,619	1,825	2,129
Chemical	3,457	3,348	3,149	2,849	2,672	2,433	2,615	2,659
Civil	9,946	8,975	8,509	7,846	7,397	7,115	7,344	7,890
Electrical	15,952	15,535	14,941	14,128	13,069	13,154	13,911	15,140
Engineering science/physics	1,042	990	929	878	760	845	987	995
Industrial/manufacturing	7,130	6,537	6,000	6,070	5,678	5,717	6,204	6,614
Mechanical	8,882	8,185	7,893	7,619	7,046	7,066	7,440	8,268
Metallurgical/materials	2,124	2,020	1,993	1,820	1,684	1,763	1,814	1,859
Mining	196	168	177	176	123	104	135	137
Nuclear	565	465	439	411	362	357	377	417
Petroleum	185	131	108	131	225	227	258	150
Other	2,275	2,335	2,355	2,431	2,185	2,299	2,622	3,493
White	139,325	131,492	125,734	121,810	113,782	113,259	116,620	121,826
Science	98,856	93,670	89,802	87,611	82,325	82,401	84,120	87,273
Agricultural sciences	4,869	4,771	4,759	4,856	4,626	4,547	4,670	4,694
Biological sciences	18,154	17,332	16,869	16,511	15,578	15,347	15,614	16,054
Anatomy	298	278	263	238	241	218	262	238
Biochemistry	1,612	1,581	1,598	1,507	1,409	1,356	1,369	1,393
Biology	5,076	4,872	4,636	4,470	4,105	3,920	3,914	4,091
Biometry/epidemiology	692	601	712	696	672	664	663	785
Biophysics	338	289	266	266	253	290	299	338
Botany	729	641	605	576	521	540	520	503
Cell/molecular biology	1,408	1,391	1,354	1,409	1,355	1,332	1,427	1,440
Ecology	666	629	652	654	651	703	700	751
Entomology/parasitology	514	478	487	474	423	423	449	429
Genetics	476	456	426	395	384	406	406	412
Microbiology, immunology, and virology	1,487	1,450	1,467	1,404	1,409	1,305	1,313	1,276
Nutrition	605	579	547	543	492	436	460	437
Pathology	516	513	460	436	380	407	390	321
Pharmacology	863	857	834	852	867	878	855	868
Physiology	838	789	728	635	586	570	580	634
Zoology	842	745	683	701	650	567	520	492
Other	1,194	1,183	1,151	1,255	1,180	1,332	1,487	1,646
Computer sciences	11,439	10,919	10,750	10,856	10,839	11,279	12,000	13,172
Earth, atmospheric, and ocean sciences	6,820	6,363	6,033	5,873	5,612	5,362	5,389	5,438
Atmospheric	591	540	493	441	431	391	448	502
Earth	3,440	3,218	3,023	2,986	2,850	2,752	2,761	2,757
Ocean	980	934	903	930	951	872	891	869
Other	1,809	1,671	1,614	1,516	1,380	1,347	1,289	1,310
Mathematics and statistics	5,906	5,316	5,057	4,798	4,354	4,587	4,877	5,354
Mathematics/applied mathematics	4,959	4,516	4,313	4,129	3,728	3,957	4,202	4,586
Statistics	947	800	744	669	626	630	675	768
Physical sciences	12,386	11,587	11,048	10,872	10,176	10,084	10,123	10,515
Astronomy	424	377	362	365	360	373	388	411
Chemistry	6,865	6,492	6,308	6,212	5,855	5,806	5,611	5,619
Physics	4,925	4,551	4,208	4,101	3,773	3,730	3,926	4,288
Other	172	167	170	194	188	175	198	197
Psychology	11,574	11,316	10,915	10,195	9,359	9,025	8,818	8,632
Clinical	2,957	2,924	2,736	2,635	2,342	2,205	2,101	2,098
General	3,894	3,959	3,788	3,480	3,188	3,165	3,033	2,965
Nonclinical	4,723	4,433	4,391	4,080	3,829	3,655	3,684	3,569
Social sciences	27,708	26,066	24,371	23,650	21,781	22,170	22,629	23,414
Agricultural economics	644	591	565	572	535	557	589	606
Anthropology (cultural and social)	2,298	2,277	2,190	2,130	2,049	2,042	1,962	1,985
Economics	3,360	2,850	2,601	2,445	2,230	2,304	2,336	2,450
Geography	2,129	2,036	1,972	1,889	1,745	1,785	1,806	1,860
History and philosophy of science	193	183	231	261	228	232	229	268
Linguistics	618	523	470	474	436	463	466	489

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1996–2003

Field, citizenship, and race/ethnicity	1996	1997	1998	1999	2000	2001	2002	2003
Political science and public administration	11,513	10,740	9,881	9,554	8,851	8,945	9,306	9,502
Sociology	2,187	2,139	1,946	1,798	1,683	1,700	1,747	1,764
Other	4,766	4,727	4,515	4,527	4,024	4,142	4,188	4,490
Engineering	40,469	37,822	35,932	34,199	31,457	30,858	32,500	34,553
Aerospace	1,379	1,257	1,216	1,239	1,233	1,224	1,295	1,468
Agricultural	341	303	300	310	282	258	280	302
Biomedical	1,109	1,095	1,140	1,144	1,089	1,123	1,277	1,391
Chemical	2,689	2,623	2,420	2,162	1,964	1,807	1,912	1,919
Civil	7,575	6,896	6,459	5,990	5,641	5,381	5,479	5,820
Electrical	10,443	9,926	9,495	8,798	8,001	7,865	8,093	8,665
Engineering science/physics	788	739	693	650	539	579	723	749
Industrial/manufacturing	5,320	4,953	4,492	4,446	4,118	4,093	4,419	4,356
Mechanical	6,695	6,217	5,866	5,742	5,318	5,204	5,511	5,948
Metallurgical/materials	1,714	1,519	1,573	1,492	1,325	1,390	1,414	1,440
Mining	134	118	114	129	104	86	111	111
Nuclear	487	404	378	358	313	300	320	352
Petroleum	131	96	92	111	95	102	110	113
Other	1,664	1,676	1,694	1,628	1,435	1,446	1,556	1,919
Asian/Pacific Islander	15,946	15,682	15,896	16,046	14,404	15,189	16,675	18,388
Science	9,288	9,331	9,718	9,894	8,914	9,253	9,947	10,629
Agricultural sciences	147	168	160	143	112	115	136	158
Biological sciences	2,251	2,162	2,089	2,099	1,993	2,171	2,199	2,289
Anatomy	48	43	39	42	51	34	51	46
Biochemistry	328	306	283	306	231	266	221	247
Biology	426	411	363	355	337	315	330	350
Biometry/epidemiology	126	113	111	119	134	139	169	165
Biophysics	82	65	72	71	72	94	81	83
Botany	48	35	34	25	22	39	50	42
Cell/molecular biology	211	196	223	222	246	255	279	287
Ecology	18	21	21	18	16	18	13	18
Entomology/parasitology	24	24	20	9	9	27	15	14
Genetics	59	66	62	79	53	74	87	100
Microbiology, immunology, and virology	219	222	210	196	197	235	214	216
Nutrition	84	59	57	56	56	53	50	49
Pathology	75	85	84	94	83	87	90	78
Pharmacology	118	116	150	146	138	168	174	158
Physiology	203	212	168	170	166	155	160	178
Zoology	26	23	26	15	13	17	16	14
Other	156	165	166	176	169	195	199	244
Computer sciences	2,834	2,978	3,299	3,826	3,323	3,440	3,810	3,920
Earth, atmospheric, and ocean sciences	249	253	238	208	179	171	158	170
Atmospheric	36	36	38	33	25	15	16	41
Earth	96	118	96	78	72	84	79	63
Ocean	48	35	36	31	29	21	27	17
Other	69	64	68	66	53	51	36	49
Mathematics and statistics	701	622	704	565	531	552	653	770
Mathematics/applied mathematics	546	499	570	471	435	480	546	637
Statistics	155	123	134	94	96	72	107	133
Physical sciences	1,097	1,044	1,150	1,046	951	916	893	978
Astronomy	23	22	17	18	19	21	26	36
Chemistry	631	628	694	638	606	551	539	593
Physics	434	381	432	373	317	334	312	330
Other	9	13	7	17	9	10	16	19
Psychology	465	510	551	536	532	548	553	575
Clinical	116	125	127	126	116	110	103	104
General	161	155	189	172	192	187	185	231
Nonclinical	188	230	235	238	224	251	265	240

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1996–2003

Field, citizenship, and race/ethnicity	1996	1997	1998	1999	2000	2001	2002	2003
Social sciences	1,544	1,594	1,527	1,471	1,293	1,340	1,545	1,769
Agricultural economics	28	27	29	35	17	14	19	20
Anthropology (cultural and social)	87	74	74	73	68	67	78	93
Economics	332	350	386	357	264	293	326	384
Geography	60	58	42	47	39	42	55	61
History and philosophy of science	10	15	13	11	11	11	12	12
Linguistics	55	62	54	34	28	48	48	55
Political science and public administration	541	611	548	529	526	521	634	687
Sociology	172	141	143	144	117	120	120	136
Other	259	256	238	241	223	224	253	321
Engineering	6,658	6,351	6,178	6,152	5,490	5,936	6,728	7,759
Aerospace	140	137	119	132	180	111	155	171
Agricultural	45	32	30	26	19	23	23	20
Biomedical	201	228	182	203	236	263	288	395
Chemical	345	361	321	310	336	334	362	352
Civil	903	760	791	615	506	492	557	658
Electrical	2,877	2,797	2,734	2,787	2,457	2,726	3,107	3,437
Engineering science/physics	121	157	143	127	84	98	118	116
Industrial/manufacturing	574	563	487	586	464	492	611	769
Mechanical	910	804	835	829	674	777	743	850
Metallurgical/materials	213	218	197	155	173	166	196	217
Mining	16	36	44	40	10	11	19	3
Nuclear	39	26	28	16	19	19	24	21
Petroleum	39	14	3	10	37	35	38	9
Other	235	218	264	316	295	389	487	741
Black	8,247	8,329	8,320	8,565	8,298	8,383	8,910	9,441
Science	6,292	6,366	6,378	6,576	6,348	6,449	6,898	7,270
Agricultural sciences	144	128	168	159	139	126	162	196
Biological sciences	708	753	764	761	760	792	813	859
Anatomy	8	17	13	12	10	6	14	15
Biochemistry	51	63	67	64	63	53	50	63
Biology	274	280	260	262	243	248	231	254
Biometry/epidemiology	50	54	56	58	46	49	62	63
Biophysics	12	10	10	9	10	10	10	9
Botany	9	8	10	8	7	11	12	12
Cell/molecular biology	42	52	59	49	59	63	68	55
Ecology	10	6	9	11	13	13	9	16
Entomology/parasitology	6	6	5	9	6	9	9	5
Genetics	13	15	17	20	25	23	20	20
Microbiology, immunology, and virology	62	72	61	62	68	57	65	72
Nutrition	38	38	44	42	41	46	52	38
Pathology	7	9	14	14	13	19	19	21
Pharmacology	38	41	51	55	56	59	54	70
Physiology	30	30	37	27	42	42	36	35
Zoology	5	3	4	5	5	5	7	5
Other	53	49	47	54	53	79	95	106
Computer sciences	716	765	764	815	844	943	1,063	1,124
Earth, atmospheric, and ocean sciences	115	105	103	112	120	125	135	130
Atmospheric	8	8	5	3	9	12	15	20
Earth	41	36	35	31	32	32	37	40
Ocean	19	11	10	14	14	16	13	9
Other	47	50	53	64	65	65	70	61
Mathematics and statistics	368	347	339	324	299	320	340	376
Mathematics/applied mathematics	333	321	307	295	270	284	296	321
Statistics	35	26	32	29	29	36	44	55
Physical sciences	550	508	481	501	493	462	486	508
Astronomy	7	6	6	6	5	8	6	4
Chemistry	336	319	303	315	308	290	304	314

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1996–2003

Field, citizenship, and race/ethnicity	1996	1997	1998	1999	2000	2001	2002	2003
Physics	202	174	159	164	168	158	168	179
Other	5	9	13	16	12	6	8	11
Psychology	808	908	887	905	871	868	946	926
Clinical	147	162	165	165	163	148	153	148
General	342	420	370	353	326	323	344	359
Nonclinical	319	326	352	387	382	397	449	419
Social sciences	2,883	2,852	2,872	2,999	2,822	2,813	2,953	3,151
Agricultural economics	34	29	45	49	42	41	42	38
Anthropology (cultural and social)	84	79	82	82	74	58	59	61
Economics	212	197	191	158	162	163	185	209
Geography	74	47	65	48	47	61	55	61
History and philosophy of science	7	6	8	7	8	7	13	16
Linguistics	12	15	14	13	13	15	17	14
Political science and public administration	1,440	1,445	1,456	1,567	1,445	1,468	1,590	1,609
Sociology	361	384	387	373	325	316	323	343
Other	659	650	624	702	706	684	669	800
Engineering	1,955	1,963	1,942	1,989	1,950	1,934	2,012	2,171
Aerospace	39	28	27	44	49	41	45	50
Agricultural	11	14	17	17	13	10	9	12
Biomedical	38	34	42	54	55	60	69	70
Chemical	94	85	105	68	89	78	79	95
Civil	330	299	277	277	270	273	271	272
Electrical	611	680	680	686	629	620	645	629
Engineering science/physics	28	31	32	28	21	23	29	36
Industrial/manufacturing	294	270	257	309	310	349	352	419
Mechanical	327	324	308	287	292	273	279	296
Metallurgical/materials	57	68	44	49	51	61	61	60
Mining	0	0	1	1	4	1	1	2
Nuclear	7	12	9	7	6	7	5	4
Petroleum	1	5	5	5	7	3	6	10
Other	118	113	138	157	154	135	161	216
Hispanic	7,647	7,695	7,842	8,196	8,268	8,514	9,191	10,194
Science	5,380	5,522	5,629	5,974	5,988	6,173	6,691	7,274
Agricultural sciences	207	248	211	209	223	210	197	256
Biological sciences	849	897	924	968	963	1,009	1,123	1,227
Anatomy	10	8	11	15	14	13	27	26
Biochemistry	57	71	72	82	74	87	96	119
Biology	300	325	315	318	330	313	349	352
Biometry/epidemiology	41	39	49	47	54	46	71	78
Biophysics	11	13	13	15	12	17	17	22
Botany	33	29	26	22	20	23	23	20
Cell/molecular biology	58	59	62	76	68	84	90	96
Ecology	26	27	23	15	18	18	22	24
Entomology/parasitology	28	26	18	16	18	21	16	16
Genetics	20	18	25	25	24	24	28	24
Microbiology, immunology, and virology	70	69	84	94	89	100	104	123
Nutrition	27	30	27	31	25	28	20	37
Pathology	18	19	19	28	25	31	28	30
Pharmacology	33	42	43	40	50	53	54	55
Physiology	27	33	43	44	39	34	38	45
Zoology	21	17	18	21	16	16	20	22
Other	69	72	76	79	87	101	120	138
Computer sciences	523	513	559	653	617	650	733	814
Earth, atmospheric, and ocean sciences	230	236	202	200	186	196	191	223
Atmospheric	9	9	11	4	8	8	10	13
Earth	97	102	83	84	80	77	82	87
Ocean	59	59	48	62	54	72	60	72
Other	65	66	60	50	44	39	39	51

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1996–2003

Field, citizenship, and race/ethnicity	1996	1997	1998	1999	2000	2001	2002	2003
Mathematics and statistics	266	254	276	270	310	322	335	381
Mathematics/applied mathematics	237	234	251	241	277	295	307	342
Statistics	29	20	25	29	33	27	28	39
Physical sciences	455	499	525	549	507	539	605	680
Astronomy	10	9	10	10	14	12	9	14
Chemistry	269	288	315	329	315	337	361	411
Physics	172	197	183	188	162	181	221	239
Other	4	5	17	22	16	9	14	16
Psychology	807	860	881	957	1,039	1,048	1,128	1,131
Clinical	208	245	261	260	323	333	360	379
General	267	277	276	278	264	280	267	269
Nonclinical	332	338	344	419	452	435	501	483
Social sciences	2,043	2,015	2,051	2,168	2,143	2,199	2,379	2,562
Agricultural economics	39	32	21	19	23	22	17	24
Anthropology (cultural and social)	142	143	149	129	148	159	166	175
Economics	210	185	178	159	160	204	214	235
Geography	60	60	64	64	57	59	71	86
History and philosophy of science	6	8	8	14	11	12	37	22
Linguistics	39	51	33	35	39	33	45	43
Political science and public administration	928	886	902	979	1,009	932	1,057	1,165
Sociology	196	213	243	262	234	242	261	257
Other	423	437	453	507	462	536	511	555
Engineering	2,267	2,173	2,213	2,222	2,280	2,341	2,500	2,920
Aerospace	53	63	67	70	67	54	69	93
Agricultural	17	12	10	12	11	11	8	6
Biomedical	42	39	53	50	63	70	78	98
Chemical	130	105	114	128	113	108	122	143
Civil	508	488	504	498	540	508	504	563
Electrical	672	689	692	631	618	683	766	889
Engineering science/physics	49	32	30	29	26	29	39	44
Industrial/manufacturing	303	281	247	291	298	302	302	383
Mechanical	323	298	332	336	317	342	367	441
Metallurgical/materials	58	52	54	49	60	54	51	60
Mining	2	6	4	2	1	1	1	3
Nuclear	18	16	18	23	22	25	17	24
Petroleum	13	8	5	3	43	46	46	7
Other	79	84	83	100	101	108	130	166
American Indian/Alaska Native	768	804	797	744	734	808	811	888
Science	577	624	624	569	596	646	636	669
Agricultural sciences	22	34	45	46	34	35	36	38
Biological sciences	93	91	88	80	79	95	88	89
Anatomy	1	1	1	1	3	3	2	1
Biochemistry	10	7	9	2	5	9	5	5
Biology	26	30	24	27	22	27	22	22
Biometry/epidemiology	1	4	2	2	2	2	4	3
Biophysics	0	0	0	0	0	0	1	1
Botany	1	0	1	0	0	4	4	4
Cell/molecular biology	3	2	4	1	2	1	2	3
Ecology	0	2	2	3	2	3	2	4
Entomology/parasitology	1	1	1	0	0	1	4	3
Genetics	3	1	1	1	1	1	1	4
Microbiology, immunology, and virology	8	6	9	11	16	10	14	9
Nutrition	0	1	3	2	1	0	1	1
Pathology	5	8	7	6	5	9	3	1
Pharmacology	5	3	2	4	4	7	8	11
Physiology	6	3	5	3	1	3	1	3
Zoology	12	10	6	4	3	5	3	4
Other	11	12	11	13	12	10	11	10

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1996–2003

Field, citizenship, and race/ethnicity	1996	1997	1998	1999	2000	2001	2002	2003
Computer sciences	40	43	68	50	50	58	52	68
Earth, atmospheric, and ocean sciences	36	47	44	32	33	37	45	30
Atmospheric	2	1	2	2	3	3	4	5
Earth	17	21	18	13	17	17	18	14
Ocean	7	9	9	7	6	6	5	2
Other	10	16	15	10	7	11	18	9
Mathematics and statistics	24	29	16	12	15	22	18	18
Mathematics/applied mathematics	21	27	15	11	14	20	14	17
Statistics	3	2	1	1	1	2	4	1
Physical sciences	42	46	41	40	54	54	55	54
Astronomy	1	0	1	1	1	0	1	1
Chemistry	31	30	28	30	43	39	38	33
Physics	10	15	10	8	9	15	15	19
Other	0	1	2	1	1	0	1	1
Psychology	111	118	87	88	103	83	83	95
Clinical	38	39	28	30	32	23	28	32
General	32	35	25	26	37	24	14	22
Nonclinical	41	44	34	32	34	36	41	41
Social sciences	209	216	235	221	228	262	259	277
Agricultural economics	3	0	2	6	6	4	2	5
Anthropology (cultural and social)	44	44	49	45	49	46	37	35
Economics	9	8	11	4	6	12	16	16
Geography	13	10	8	9	13	18	19	18
History and philosophy of science	0	1	1	1	0	0	1	2
Linguistics	2	3	2	5	5	4	4	6
Political science and public administration	74	69	88	86	85	93	98	108
Sociology	20	26	23	26	20	25	29	26
Other	44	55	51	39	44	60	53	61
Engineering	191	180	173	175	138	162	175	219
Aerospace	5	3	7	8	6	6	9	11
Agricultural	1	6	2	1	1	1	0	0
Biomedical	5	5	5	7	4	4	4	4
Chemical	23	10	13	11	9	5	13	13
Civil	38	41	31	43	29	29	40	42
Electrical	45	39	25	36	26	39	27	49
Engineering science/physics	3	3	6	5	6	7	6	7
Industrial/manufacturing	18	17	23	23	27	30	27	37
Mechanical	28	27	20	25	18	23	23	35
Metallurgical/materials	7	9	27	5	3	6	9	6
Mining	1	0	0	0	1	0	2	3
Nuclear	2	2	1	1	0	0	2	1
Petroleum	1	1	2	0	1	1	1	0
Other	14	17	11	10	7	11	12	11
Other race/ethnicity	10,586	10,932	10,901	10,462	11,537	11,862	12,797	14,290
Science	6,793	7,310	7,471	7,392	8,196	8,549	9,155	9,835
Agricultural sciences	176	194	165	167	237	283	243	285
Biological sciences	933	1,053	1,122	1,171	1,184	1,122	1,196	1,397
Anatomy	9	17	19	9	5	7	13	14
Biochemistry	77	82	70	81	84	98	118	147
Biology	352	379	407	399	337	276	289	354
Biometry/epidemiology	37	53	87	84	78	99	63	76
Biophysics	23	29	46	25	25	16	25	29
Botany	21	27	28	30	33	29	30	33
Cell/molecular biology	37	71	65	96	128	135	152	182
Ecology	39	50	33	22	45	44	56	79
Entomology/parasitology	17	11	12	13	11	19	19	21
Genetics	28	13	14	36	56	43	49	56
Microbiology, immunology, and virology	58	64	75	137	137	136	124	118

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1996–2003

Field, citizenship, and race/ethnicity	1996	1997	1998	1999	2000	2001	2002	2003
Nutrition	32	24	30	25	34	34	38	25
Pathology	31	39	37	29	26	33	32	31
Pharmacology	21	25	31	27	26	19	27	45
Physiology	28	43	30	40	42	34	37	32
Zoology	5	10	43	16	24	21	24	28
Other	118	116	95	102	93	79	100	127
Computer sciences	1,491	1,658	1,588	1,711	2,009	2,129	2,339	2,341
Earth, atmospheric, and ocean sciences	292	332	334	270	262	257	319	383
Atmospheric	6	42	15	19	17	18	21	28
Earth	155	165	167	152	143	129	175	208
Ocean	42	33	43	26	23	35	32	41
Other	89	92	109	73	79	75	91	106
Mathematics and statistics	425	438	467	379	423	437	537	661
Mathematics/applied mathematics	397	411	428	347	388	387	470	595
Statistics	28	27	39	32	35	50	67	66
Physical sciences	621	689	759	689	717	921	911	965
Astronomy	15	10	30	21	21	28	28	28
Chemistry	316	368	368	330	279	321	356	421
Physics	285	309	325	259	329	498	455	450
Other	5	2	36	79	88	74	72	66
Psychology	902	1,045	976	985	938	800	817	808
Clinical	133	184	130	181	145	176	175	178
General	216	238	294	257	278	248	221	256
Nonclinical	553	623	552	547	515	376	421	374
Social sciences	1,953	1,901	2,060	2,020	2,426	2,600	2,793	2,995
Agricultural economics	28	30	39	15	29	48	44	53
Anthropology (cultural and social)	104	114	125	155	189	209	175	200
Economics	301	257	286	187	304	313	374	352
Geography	116	124	162	129	124	106	107	124
History and philosophy of science	6	22	10	10	16	20	29	27
Linguistics	25	44	42	43	63	58	76	80
Political science and public administration	936	861	864	806	928	1,025	1,213	1,375
Sociology	121	110	109	113	161	155	160	148
Other	316	339	423	562	612	666	615	636
Engineering	3,793	3,622	3,430	3,070	3,341	3,313	3,642	4,455
Aerospace	73	50	60	69	77	94	126	178
Agricultural	17	26	19	10	14	12	6	15
Biomedical	63	90	79	52	56	99	109	171
Chemical	176	164	176	170	161	101	127	137
Civil	592	491	447	423	411	432	493	535
Electrical	1,304	1,404	1,315	1,190	1,338	1,221	1,273	1,471
Engineering science/physics	53	28	25	39	84	109	72	43
Industrial/manufacturing	621	453	494	415	461	451	493	650
Mechanical	599	515	532	400	427	447	517	698
Metallurgical/materials	75	154	98	70	72	86	83	76
Mining	43	8	14	4	3	5	1	15
Nuclear	12	5	5	6	2	6	9	15
Petroleum	0	7	1	2	42	40	57	11
Other	165	227	165	220	193	210	276	440
Temporary residents	70,991	70,685	71,939	76,963	86,034	93,797	101,244	101,063
Science	41,354	40,368	40,757	42,966	47,324	51,105	54,100	53,354
Agricultural sciences	2,151	1,954	1,808	1,683	1,564	1,576	1,601	1,544
Biological sciences	6,119	5,941	5,886	5,748	5,918	6,054	6,673	6,897
Anatomy	104	109	97	87	104	102	115	102
Biochemistry	852	816	820	793	869	825	909	983
Biology	1,028	1,062	1,059	1,015	1,027	1,064	1,173	1,163
Biometry/epidemiology	284	256	344	375	388	391	487	498
Biophysics	123	126	121	111	148	188	214	211

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1996–2003

Field, citizenship, and race/ethnicity	1996	1997	1998	1999	2000	2001	2002	2003
Botany	374	346	327	331	315	301	315	291
Cell/molecular biology	467	474	471	424	468	520	566	639
Ecology	96	107	100	100	101	110	126	130
Entomology/parasitology	220	205	211	218	195	190	187	181
Genetics	234	239	199	211	196	224	206	241
Microbiology, immunology, and virology	576	526	496	461	466	460	566	509
Nutrition	452	413	365	378	385	396	406	450
Pathology	195	169	155	169	170	156	145	149
Pharmacology	294	284	294	290	306	298	289	332
Physiology	264	254	254	266	257	218	230	257
Zoology	130	116	112	91	92	113	121	91
Other	426	439	461	428	431	498	618	670
Computer sciences	8,786	9,234	10,197	12,022	15,588	18,395	19,247	17,448
Earth, atmospheric, and ocean sciences	1,994	1,796	1,736	1,663	1,796	1,801	1,756	1,726
Atmospheric	200	193	167	169	202	179	189	167
Earth	1,138	1,003	950	893	947	970	947	956
Ocean	390	343	351	332	324	308	281	293
Other	266	257	268	269	323	344	339	310
Mathematics and statistics	4,099	3,845	3,638	3,866	3,938	4,141	4,517	4,616
Mathematics/applied mathematics	3,469	3,236	3,048	3,165	3,203	3,328	3,628	3,665
Statistics	630	609	590	701	735	813	889	951
Physical sciences	8,137	7,884	7,818	8,079	8,372	8,726	9,202	9,820
Astronomy	167	146	164	186	201	209	230	241
Chemistry	4,047	3,927	3,902	3,945	3,943	4,167	4,511	4,819
Physics	3,891	3,776	3,712	3,900	4,173	4,290	4,403	4,684
Other	32	35	40	48	55	60	58	76
Psychology	708	750	798	790	752	777	1,092	1,190
Clinical	101	107	113	116	84	94	222	229
General	275	288	309	285	312	327	419	475
Nonclinical	332	355	376	389	356	356	451	486
Social sciences	9,360	8,964	8,876	9,115	9,396	9,635	10,012	10,113
Agricultural economics	631	646	614	603	638	640	630	655
Anthropology (cultural and social)	328	328	352	375	364	348	387	393
Economics	3,873	3,738	3,584	3,753	3,857	4,124	4,290	4,161
Geography	318	327	350	361	384	432	427	444
History and philosophy of science	35	46	44	41	39	45	41	43
Linguistics	382	353	367	362	346	330	328	336
Political science and public administration	2,188	2,067	2,128	2,278	2,360	2,320	2,417	2,579
Sociology	583	578	511	511	532	522	538	552
Other	1,022	881	926	831	876	874	954	950
Engineering	29,637	30,317	31,182	33,997	38,710	42,692	47,144	47,709
Aerospace	1,167	1,174	1,259	1,364	1,326	1,436	1,470	1,474
Agricultural	370	330	304	307	291	308	314	360
Biomedical	541	530	534	607	668	766	1,024	1,256
Chemical	2,300	2,220	2,217	2,301	2,509	2,651	2,804	2,757
Civil	4,282	4,054	3,906	4,223	4,777	5,047	5,464	5,556
Electrical	9,760	10,702	11,571	12,561	15,006	16,734	18,767	18,814
Engineering science/physics	414	379	441	430	530	590	704	780
Industrial/manufacturing	2,776	2,764	2,769	3,074	3,728	4,415	4,753	4,421
Mechanical	4,991	5,081	5,041	5,549	6,357	6,842	7,616	7,808
Metallurgical/materials	1,546	1,551	1,557	1,577	1,652	1,785	1,927	1,963
Mining	121	117	72	97	118	100	95	99
Nuclear	262	260	248	275	274	287	270	286
Petroleum	317	353	408	429	315	338	401	570
Other	790	802	855	1,203	1,159	1,393	1,535	1,565

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, 1996–2003.