

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.