

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

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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

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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.