

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.