

TABLE F-6. S&E doctorates awarded to U.S. citizens and permanent residents, by field and race/ethnicity: 1997–2004

Field and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
All S&E	18,393	18,257	17,567	17,114	16,346	15,512	15,715	15,721
White	13,828	14,004	13,719	13,443	12,760	11,913	12,024	12,018
Asian ^a	2,529	2,135	1,932	1,706	1,617	1,616	1,511	1,491
Black	615	644	715	710	703	685	664	746
Hispanic	658	754	722	729	674	724	741	715
American Indian/Alaska Native	79	96	114	88	73	70	73	61
Other/unknown race/ethnicity ^b	684	624	365	438	519	504	702	690
Science	15,061	15,213	14,678	14,543	13,900	13,348	13,545	13,539
White	11,540	11,834	11,609	11,554	11,008	10,436	10,464	10,476
Asian ^a	1,822	1,581	1,420	1,267	1,195	1,208	1,171	1,137
Black	517	563	617	629	611	600	587	652
Hispanic	562	644	639	647	583	627	638	627
American Indian/Alaska Native	62	83	102	80	67	63	61	55
Other/unknown race/ethnicity ^b	558	508	291	366	436	414	624	592
Agricultural sciences	619	591	561	559	504	491	561	563
White	465	454	456	452	430	416	465	465
Asian ^a	73	54	50	36	23	29	25	31
Black	26	22	27	22	14	13	22	20
Hispanic	27	35	16	29	26	21	25	16
American Indian/Alaska Native	5	9	1	5	0	2	4	4
Other/unknown race/ethnicity ^b	23	17	11	15	11	10	20	27
Biological sciences	4,256	4,308	4,124	4,268	4,243	4,112	4,056	4,187
White	3,158	3,246	3,128	3,308	3,255	3,118	3,059	3,184
Asian ^a	721	657	608	539	546	561	526	488
Black	112	111	116	118	139	124	108	148
Hispanic	146	168	175	173	165	182	176	191
American Indian/Alaska Native	7	12	20	17	15	12	11	14
Other/unknown race/ethnicity ^b	112	114	77	113	123	115	176	162
Computer sciences	520	561	493	457	423	419	443	448
White	361	412	356	336	322	290	307	321
Asian ^a	107	90	87	76	61	86	80	72
Black	4	14	19	18	15	17	17	17
Hispanic	16	15	14	14	8	14	10	13
American Indian/Alaska Native	1	4	1	1	1	2	2	2
Other/unknown race/ethnicity ^b	31	26	16	12	16	10	27	23
Earth, atmospheric, ocean sciences	538	514	459	453	395	424	429	426
White	434	427	376	393	338	365	361	367
Asian ^a	60	44	35	22	27	24	21	11
Black	6	5	11	3	5	5	11	7
Hispanic	15	16	20	15	9	14	15	11
American Indian/Alaska Native	2	3	6	4	0	0	2	4
Other/unknown race/ethnicity ^b	21	19	11	16	16	16	19	26
Atmospheric sciences	102	85	77	86	61	68	78	71
White	80	69	63	73	51	59	65	62
Asian ^a	18	9	9	6	5	5	7	5
Black	0	2	2	1	0	1	3	1
Hispanic	1	1	3	2	1	2	0	0
American Indian/Alaska Native	0	0	0	0	0	0	0	1
Other/unknown race/ethnicity ^b	3	4	0	4	4	1	3	2
Earth sciences	349	348	295	270	259	266	256	271
White	286	291	242	234	223	234	222	225
Asian ^a	34	29	20	13	18	11	10	6
Black	5	3	6	1	2	3	4	5
Hispanic	10	9	11	8	7	6	4	10
American Indian/Alaska Native	0	3	6	4	0	0	1	3
Other/unknown race/ethnicity ^b	14	13	10	10	9	12	15	22

TABLE F-6. S&E doctorates awarded to U.S. citizens and permanent residents, by field and race/ethnicity: 1997–2004

Field and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Ocean sciences	87	81	87	97	75	90	95	84
White	68	67	71	86	64	72	74	80
Asian ^a	8	6	6	3	4	8	4	0
Black	1	0	3	1	3	1	4	1
Hispanic	4	6	6	5	1	6	11	1
American Indian/Alaska Native	2	0	0	0	0	0	1	0
Other/unknown race/ethnicity ^b	4	2	1	2	3	3	1	2
Mathematics and statistics	629	669	605	574	524	442	517	510
White	479	526	506	464	428	369	408	398
Asian ^a	97	71	56	70	48	28	51	54
Black	7	16	12	14	19	14	16	10
Hispanic	20	27	15	15	15	12	16	26
American Indian/Alaska Native	1	3	1	2	2	3	2	0
Other/unknown race/ethnicity ^b	25	26	15	9	12	16	24	22
Physical sciences	2,497	2,455	2,277	2,092	2,045	1,940	1,970	1,866
White	1,884	1,916	1,840	1,691	1,649	1,548	1,554	1,479
Asian ^a	400	331	252	203	197	194	183	162
Black	51	56	66	62	55	67	57	59
Hispanic	69	54	63	78	65	64	72	62
American Indian/Alaska Native	10	9	9	9	12	7	2	5
Other/unknown race/ethnicity ^b	83	89	47	49	67	60	102	99
Astronomy	158	147	117	139	123	109	131	115
White	132	120	109	115	103	87	105	93
Asian ^a	8	13	3	13	6	13	8	8
Black	2	1	2	1	1	1	1	0
Hispanic	3	2	1	3	7	4	3	6
American Indian/Alaska Native	1	1	1	1	1	0	0	0
Other/unknown race/ethnicity ^b	12	10	1	6	5	4	14	8
Chemistry	1,439	1,467	1,406	1,241	1,230	1,230	1,265	1,180
White	1,078	1,129	1,090	988	974	988	1,002	921
Asian ^a	234	206	183	121	123	122	112	110
Black	35	45	56	44	42	44	42	46
Hispanic	44	34	46	51	43	38	45	43
American Indian/Alaska Native	6	7	5	7	11	5	2	4
Other/unknown race/ethnicity ^b	42	46	26	30	37	33	62	56
Physics	883	823	742	692	677	589	552	559
White	659	651	630	571	557	461	429	453
Asian ^a	157	111	66	68	68	59	62	44
Black	14	10	8	16	12	22	12	13
Hispanic	22	18	16	23	15	22	24	13
American Indian/Alaska Native	2	1	3	1	0	2	0	1
Other/unknown race/ethnicity ^b	29	32	19	13	25	23	25	35
Other	17	18	12	20	15	12	22	12
White	15	16	11	17	15	12	18	12
Asian ^a	1	1	0	1	0	0	1	0
Black	0	0	0	1	0	0	2	0
Hispanic	0	0	0	1	0	0	0	0
American Indian/Alaska Native	1	0	0	0	0	0	0	0
Other/unknown race/ethnicity ^b	0	1	1	0	0	0	1	0
Psychology	3,125	3,275	3,292	3,231	3,033	2,795	2,857	2,789
White	2,523	2,646	2,701	2,607	2,454	2,229	2,263	2,141
Asian ^a	126	113	132	145	116	119	118	153
Black	152	158	172	189	174	171	169	204
Hispanic	171	208	215	211	175	185	170	170
American Indian/Alaska Native	18	31	35	22	17	15	22	13
Other/unknown race/ethnicity ^b	135	119	37	57	97	76	115	108

TABLE F-6. S&E doctorates awarded to U.S. citizens and permanent residents, by field and race/ethnicity: 1997–2004

Field and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Social sciences	2,877	2,840	2,867	2,909	2,733	2,725	2,712	2,750
White	2,236	2,207	2,246	2,303	2,132	2,101	2,047	2,121
Asian ^a	238	221	200	176	177	167	167	166
Black	159	181	194	203	190	189	187	187
Hispanic	98	121	121	112	120	135	154	138
American Indian/Alaska Native	18	12	29	20	20	22	16	13
Other/unknown race/ethnicity ^b	128	98	77	95	94	111	141	125
Anthropology	376	380	401	411	369	430	422	469
White	299	298	330	337	290	333	310	362
Asian ^a	14	18	19	19	19	14	18	23
Black	12	10	15	21	13	24	24	17
Hispanic	16	21	12	13	20	25	34	37
American Indian/Alaska Native	3	5	8	5	8	7	2	2
Other/unknown race/ethnicity ^b	32	28	17	16	19	27	34	28
Area and ethnic studies	88	104	94	118	132	103	93	119
White	70	79	69	93	99	74	60	75
Asian ^a	3	2	4	5	4	2	5	5
Black	9	17	13	11	17	13	12	12
Hispanic	1	4	3	5	5	6	8	12
American Indian/Alaska Native	4	1	3	1	2	2	2	3
Other/unknown race/ethnicity ^b	1	1	2	3	5	6	6	12
Economics	590	578	543	502	460	425	407	399
White	431	428	417	396	358	328	313	308
Asian ^a	89	85	65	48	56	56	54	42
Black	22	23	28	22	13	13	11	23
Hispanic	25	26	21	22	18	16	17	11
American Indian/Alaska Native	1	0	1	1	2	0	1	0
Other/unknown race/ethnicity ^b	22	16	11	13	13	12	11	15
History of science	33	36	42	35	39	39	36	42
White	25	32	36	32	31	37	31	33
Asian ^a	2	0	3	0	3	0	0	2
Black	3	0	1	1	1	0	0	1
Hispanic	0	1	0	1	2	1	1	2
American Indian/Alaska Native	0	0	0	0	0	0	0	0
Other/unknown race/ethnicity ^b	3	3	2	1	2	1	4	4
Linguistics	159	136	156	119	123	109	114	137
White	117	103	123	98	97	85	86	106
Asian ^a	25	22	13	11	9	10	12	14
Black	3	4	4	1	6	3	0	3
Hispanic	7	6	13	5	4	7	9	9
American Indian/Alaska Native	1	0	1	0	0	0	1	0
Other/unknown race/ethnicity ^b	6	1	2	4	7	4	6	5
Political science and public administration	789	791	805	802	751	732	766	732
White	655	633	640	637	587	577	595	575
Asian ^a	45	42	45	38	36	33	30	38
Black	37	55	59	61	71	62	70	64
Hispanic	19	35	31	28	23	36	32	31
American Indian/Alaska Native	4	3	7	4	5	3	7	2
Other/unknown race/ethnicity ^b	29	23	23	34	29	21	32	22
Sociology	461	442	459	515	471	476	487	466
White	346	345	346	383	351	349	348	358
Asian ^a	29	23	30	32	27	29	22	28
Black	42	40	45	57	44	46	47	37
Hispanic	19	15	26	26	38	25	40	27
American Indian/Alaska Native	4	3	4	6	2	7	0	2
Other/unknown race/ethnicity ^b	21	16	8	11	9	20	30	14

TABLE F-6. S&E doctorates awarded to U.S. citizens and permanent residents, by field and race/ethnicity: 1997–2004

Field and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Other	381	373	367	407	388	411	387	386
White	293	289	285	327	319	318	304	304
Asian ^a	31	29	21	23	23	23	26	14
Black	31	32	29	29	25	28	23	30
Hispanic	11	13	15	12	10	19	13	9
American Indian/Alaska Native	1	0	5	3	1	3	3	4
Other/unknown race/ethnicity ^b	14	10	12	13	10	20	18	25
Engineering	3,332	3,044	2,889	2,571	2,446	2,164	2,170	2,182
White	2,288	2,170	2,110	1,889	1,752	1,477	1,560	1,542
Asian ^a	707	554	512	439	422	408	340	354
Black	98	81	98	81	92	85	77	94
Hispanic	96	110	83	82	91	97	103	88
American Indian/Alaska Native	17	13	12	8	6	7	12	6
Other/unknown race/ethnicity ^b	126	116	74	72	83	90	78	98
Aerospace engineering	168	152	112	127	102	91	80	77
White	137	126	97	107	79	73	66	60
Asian ^a	16	12	13	11	12	11	7	9
Black	3	1	1	4	1	2	1	1
Hispanic	4	5	0	3	5	3	4	3
American Indian/Alaska Native	0	0	0	0	0	0	0	0
Other/unknown race/ethnicity ^b	8	8	1	2	5	2	2	4
Chemical engineering	409	374	371	382	361	336	292	312
White	293	275	286	280	272	223	210	216
Asian ^a	73	65	58	69	53	70	46	58
Black	16	3	11	8	17	12	9	10
Hispanic	7	13	7	18	7	16	16	12
American Indian/Alaska Native	4	3	2	1	1	2	1	2
Other/unknown race/ethnicity ^b	16	15	7	6	11	13	10	14
Civil engineering	327	297	312	261	269	247	269	224
White	220	217	241	194	194	185	217	155
Asian ^a	72	38	46	43	37	29	20	35
Black	10	9	6	6	11	13	9	7
Hispanic	12	16	12	9	9	8	13	20
American Indian/Alaska Native	2	0	2	1	0	0	1	3
Other/unknown race/ethnicity ^b	11	17	5	8	18	12	9	4
Electrical engineering	940	804	766	648	560	507	498	498
White	579	523	510	443	368	306	296	312
Asian ^a	256	205	172	141	133	130	130	109
Black	31	23	30	21	22	16	21	33
Hispanic	26	31	30	22	22	31	23	15
American Indian/Alaska Native	5	3	1	0	1	0	5	1
Other/unknown race/ethnicity ^b	43	19	23	21	14	24	23	28
Industrial engineering	119	101	99	77	89	81	70	77
White	80	72	80	59	54	56	47	56
Asian ^a	22	11	7	11	22	10	14	10
Black	9	8	7	4	6	4	3	3
Hispanic	5	7	4	0	3	6	3	3
American Indian/Alaska Native	0	0	0	0	0	1	0	0
Other/unknown race/ethnicity ^b	3	3	1	3	4	4	3	5
Materials engineering	315	313	260	244	225	175	200	210
White	234	225	184	190	165	123	154	160
Asian ^a	59	55	52	34	37	33	23	30
Black	4	10	7	5	6	5	4	6
Hispanic	10	8	8	8	9	7	13	7
American Indian/Alaska Native	0	2	2	0	1	1	0	0
Other/unknown race/ethnicity ^b	8	13	7	7	7	6	6	7

TABLE F-6. S&E doctorates awarded to U.S. citizens and permanent residents, by field and race/ethnicity: 1997–2004

Field and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Mechanical engineering	538	515	464	396	428	342	332	299
White	377	371	336	279	302	226	246	210
Asian ^a	113	89	88	72	75	70	50	47
Black	12	13	12	18	17	17	9	18
Hispanic	14	19	9	12	21	12	13	10
American Indian/Alaska Native	6	2	2	3	1	1	1	0
Other/unknown race/ethnicity ^b	16	21	17	12	12	16	13	14
Other	516	488	505	436	412	385	429	485
White	368	361	376	337	318	285	324	373
Asian ^a	96	79	76	58	53	55	50	56
Black	13	14	24	15	12	16	21	16
Hispanic	18	11	13	10	15	14	18	18
American Indian/Alaska Native	0	3	3	3	2	2	4	0
Other/unknown race/ethnicity ^b	21	20	13	13	12	13	12	22

^a Includes Native Hawaiians/other Pacific Islanders through 2000 but excludes them in 2001-2004 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, 1997–2004.