

TABLE 6. Doctorates awarded to male U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1995–2004

Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
All fields	17,872	17,203	16,881	16,537	15,893	15,290	14,642	13,725	13,892	13,734
Science and engineering	12,081	11,682	11,391	11,067	10,495	9,980	9,433	8,810	8,890	8,875
Science	9,259	8,819	8,572	8,481	8,097	7,900	7,466	7,088	7,160	7,163
Agricultural sciences	506	443	443	387	376	364	310	309	361	337
Biological sciences	2,469	2,423	2,333	2,385	2,260	2,281	2,272	2,194	2,138	2,188
Computer sciences	473	423	419	437	387	371	325	322	346	345
Earth, atmospheric, and ocean sciences	407	386	393	364	330	314	260	266	284	260
Mathematics	588	503	452	470	413	409	370	308	365	356
Physical sciences	2,132	1,961	1,909	1,849	1,724	1,546	1,518	1,399	1,401	1,356
Astronomy	116	114	132	120	91	104	94	87	100	82
Chemistry	1,087	1,024	1,007	1,003	980	819	822	809	848	798
Physics	915	815	759	715	647	609	590	497	439	473
Other physical sciences	14	8	11	11	6	14	12	6	14	3
Psychology	1,127	1,048	1,014	1,058	1,063	1,052	983	916	894	895
Social sciences	1,557	1,632	1,609	1,531	1,544	1,563	1,428	1,374	1,371	1,426
Engineering	2,822	2,863	2,819	2,586	2,398	2,080	1,967	1,722	1,730	1,712
Chemical engineering	293	293	332	297	296	282	268	248	220	232
Civil engineering	257	258	269	239	251	213	203	190	200	159
Electrical engineering	851	823	834	712	685	555	493	441	433	430
Mechanical engineering	514	528	482	461	404	340	390	298	292	255
Other engineering	907	961	902	877	762	690	613	545	585	636
Non-science and engineering	5,791	5,521	5,490	5,470	5,398	5,310	5,209	4,915	5,002	4,859
Education	2,243	2,243	2,051	2,049	2,013	1,925	1,889	1,796	1,858	1,792
Health	324	293	287	310	329	341	340	340	354	346
Humanities	2,076	2,001	2,197	2,217	2,209	2,215	2,153	2,073	2,082	1,992
Professional/other/unknown	1,148	984	955	894	847	829	827	706	708	729
American Indian/Alaska Native, all fields	80	101	79	104	96	76	68	69	53	59
Science and engineering	42	60	45	54	59	43	41	37	34	34
Science	33	48	31	45	49	39	37	30	25	30
Agricultural sciences	2	3	5	7	1	4	0	2	3	2
Biological sciences	10	11	4	6	10	10	8	6	3	10
Computer sciences	0	2	0	4	0	1	1	2	2	2
Earth, atmospheric, and ocean sciences	0	1	1	2	3	3	0	0	1	4
Mathematics	1	1	1	1	1	1	1	2	1	0
Physical sciences	5	5	10	8	6	7	10	7	1	4
Astronomy	0	0	1	1	0	0	1	0	0	0
Chemistry	3	3	6	6	3	6	9	5	1	4
Physics	2	2	2	1	3	1	0	2	0	0
Other physical sciences	0	0	1	0	0	0	0	0	0	0
Psychology	6	8	6	13	12	3	5	7	8	4
Social sciences	9	17	4	4	16	10	12	4	6	4
Engineering	9	12	14	9	10	4	4	7	9	4
Chemical engineering	2	1	3	0	1	0	1	2	0	1
Civil engineering	0	1	1	0	1	0	0	0	1	2
Electrical engineering	1	1	5	3	1	0	1	0	5	1
Mechanical engineering	2	3	5	2	2	2	1	1	0	0
Other engineering	4	6	0	4	5	2	1	4	3	0
Non-science and engineering	38	41	34	50	37	33	27	32	19	25
Education	17	22	18	26	19	17	12	16	9	14
Health	2	1	2	1	0	1	2	0	1	0
Humanities	10	10	8	14	11	11	9	12	7	8
Professional/other/unknown	9	8	6	9	7	4	4	4	2	3
Asian, all fields <sup>a</sup>	2,859	2,390	1,884	1,626	1,475	1,241	1,171	1,121	1,066	1,000
Science and engineering	2,548	2,105	1,639	1,369	1,217	1,027	936	939	871	816
Science	1,686	1,343	1,051	915	789	697	612	629	611	545
Agricultural sciences	66	58	53	30	31	24	11	14	9	8

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Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Biological sciences	511	482	373	365	332	276	280	271	275	230
Computer sciences	107	95	81	67	68	61	41	60	63	53
Earth, atmospheric, and ocean sciences	72	58	43	31	25	14	20	14	14	7
Mathematics	158	104	69	44	36	49	32	23	27	37
Physical sciences	539	356	267	228	159	132	124	132	111	109
Astronomy	18	8	7	10	3	9	6	12	5	5
Chemistry	269	187	141	133	103	67	62	72	62	68
Physics	251	160	119	84	53	56	56	48	44	36
Other physical sciences	1	1	0	1	0	0	0	0	0	0
Psychology	43	31	31	29	34	46	25	39	37	26
Social sciences	190	159	134	121	104	95	79	76	75	75
Engineering	862	762	588	454	428	330	324	310	260	271
Chemical engineering	76	62	61	46	44	48	34	49	36	40
Civil engineering	77	75	58	32	41	33	28	22	17	24
Electrical engineering	276	246	217	173	146	108	105	104	100	89
Mechanical engineering	165	149	97	77	77	56	67	55	41	41
Other engineering	268	230	155	126	120	85	90	80	66	77
Non-science and engineering	311	285	245	257	258	214	235	182	195	184
Education	59	69	52	69	63	53	43	39	41	36
Health	52	47	37	35	39	36	38	20	37	30
Humanities	83	83	72	79	82	63	77	68	66	75
Professional/other/unknown	117	86	84	74	74	62	77	55	51	43
Black/African American, all fields	612	638	636	610	700	642	676	673	653	714
Science and engineering	287	321	329	293	347	319	328	315	286	327
Science	232	266	254	234	273	262	261	258	228	266
Agricultural sciences	13	25	20	17	18	11	8	8	14	9
Biological sciences	64	58	52	41	50	44	55	57	44	59
Computer sciences	7	9	3	6	9	13	5	10	12	12
Earth, atmospheric, and ocean sciences	1	1	5	4	7	2	3	5	6	6
Mathematics	4	6	5	9	6	7	12	6	11	7
Physical sciences	24	46	40	25	37	41	35	39	36	34
Astronomy	1	0	1	1	0	0	1	0	1	0
Chemistry	16	35	26	17	33	25	23	22	28	26
Physics	7	11	13	7	4	15	11	17	7	8
Other physical sciences	0	0	0	0	0	1	0	0	0	0
Psychology	39	38	41	43	37	45	50	42	43	50
Social sciences	80	83	88	89	109	99	93	91	62	89
Engineering	55	55	75	59	74	57	67	57	58	61
Chemical engineering	2	7	10	2	7	3	7	6	6	3
Civil engineering	8	7	10	7	4	5	11	9	7	4
Electrical engineering	20	17	27	19	25	19	21	12	17	24
Mechanical engineering	12	7	11	13	11	13	16	13	8	15
Other engineering	13	17	17	18	27	17	12	17	20	15
Non-science and engineering	325	317	307	317	353	323	348	358	367	387
Education	203	202	171	192	202	186	210	210	233	233
Health	18	13	15	14	12	14	12	16	17	26
Humanities	54	53	68	67	70	70	65	73	61	71
Professional/other/unknown	50	49	53	44	69	53	61	59	56	57
Hispanic, all fields <sup>b</sup>	542	567	624	682	579	609	569	601	664	597
Science and engineering	341	353	392	428	360	379	336	345	376	354
Science	275	269	319	331	300	310	268	273	296	287
Agricultural sciences	16	9	20	22	9	18	12	13	14	5
Biological sciences	80	65	83	89	99	82	88	68	96	84
Computer sciences	2	9	14	14	11	11	4	12	6	10
Earth, atmospheric, and ocean sciences	7	13	10	10	16	12	4	12	9	6
Mathematics	11	11	14	20	10	8	10	8	9	19

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Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Physical sciences	52	55	54	43	41	53	43	42	49	38
Astronomy	2	1	2	2	1	2	6	3	2	4
Chemistry	29	29	32	25	25	30	26	20	27	22
Physics	21	25	20	16	15	20	11	19	20	12
Other physical sciences	0	0	0	0	0	1	0	0	0	0
Psychology	49	53	64	56	57	59	46	56	54	55
Social sciences	58	54	60	77	57	67	61	62	59	70
Engineering	66	84	73	97	60	69	68	72	80	67
Chemical engineering	11	13	4	13	3	14	2	9	12	8
Civil engineering	10	6	11	13	6	8	7	8	8	16
Electrical engineering	14	23	20	29	26	21	19	27	19	13
Mechanical engineering	8	13	11	18	8	11	21	7	12	8
Other engineering	23	29	27	24	17	15	19	21	29	22
Non-science and engineering	201	214	232	254	219	230	233	256	288	243
Education	91	87	93	111	91	99	91	104	119	97
Health	15	16	8	12	15	10	9	9	11	10
Humanities	72	85	107	103	90	98	98	117	132	104
Professional/other/unknown	23	26	24	28	23	23	35	26	26	32
Mexican American, all fields	160	166	161	220	163	209	198	180	213	220
Science and engineering	90	95	91	136	91	127	103	84	110	114
Science	72	70	80	109	82	104	90	73	96	95
Agricultural sciences	3	1	2	7	3	5	3	3	6	2
Biological sciences	17	16	22	32	25	27	30	22	32	30
Computer sciences	1	1	2	3	1	3	2	3	1	3
Earth, atmospheric, and ocean sciences	3	3	2	4	4	3	1	4	0	2
Mathematics	4	2	2	3	5	4	3	1	2	7
Physical sciences	9	20	13	18	11	20	14	10	16	11
Astronomy	0	1	0	1	0	1	3	0	1	1
Chemistry	6	13	7	12	5	14	5	4	10	6
Physics	3	6	6	5	6	5	6	6	5	4
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	15	18	20	18	16	22	20	15	17	13
Social sciences	20	9	17	24	17	20	17	15	22	27
Engineering	18	25	11	27	9	23	13	11	14	19
Chemical engineering	2	3	2	1	0	3	0	1	3	3
Civil engineering	7	2	1	4	1	4	0	1	1	4
Electrical engineering	3	8	2	7	3	4	6	4	2	4
Mechanical engineering	2	4	2	3	1	6	4	1	2	0
Other engineering	4	8	4	12	4	6	3	4	6	8
Non-science and engineering	70	71	70	84	72	82	95	96	103	106
Education	42	38	42	45	35	46	50	51	58	55
Health	3	2	0	1	5	2	2	4	2	3
Humanities	21	21	22	33	27	27	30	35	36	39
Professional/other/unknown	4	10	6	5	5	7	13	6	7	9
Puerto Rican, all fields	120	114	153	128	141	130	122	149	126	107
Science and engineering	74	74	98	69	88	78	68	92	75	65
Science	63	57	79	53	73	62	59	77	58	48
Agricultural sciences	3	3	3	2	0	3	2	6	0	0
Biological sciences	21	14	20	20	24	11	18	18	21	21
Computer sciences	0	4	6	1	5	5	1	4	2	2
Earth, atmospheric, and ocean sciences	1	3	4	2	4	5	1	3	4	2
Mathematics	0	3	3	4	2	1	2	3	1	1
Physical sciences	12	8	18	6	13	10	10	16	11	7
Astronomy	0	0	0	1	0	0	0	1	0	0
Chemistry	9	6	11	4	9	9	8	7	9	6

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Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Physics	3	2	7	1	4	1	2	8	2	1
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	13	15	20	12	16	14	9	14	10	4
Social sciences	13	7	5	6	9	13	16	13	9	11
Engineering	11	17	19	16	15	16	9	15	17	17
Chemical engineering	3	2	1	3	1	3	0	3	4	0
Civil engineering	1	1	5	1	1	2	2	1	3	7
Electrical engineering	3	4	3	3	9	6	2	6	4	3
Mechanical engineering	1	3	6	5	2	2	1	1	1	3
Other engineering	3	7	4	4	2	3	4	4	5	4
Non-science and engineering	46	40	55	59	53	52	54	57	51	42
Education	19	17	21	28	24	24	26	26	17	17
Health	7	2	3	3	5	3	2	2	0	2
Humanities	14	16	26	20	14	19	18	26	29	17
Professional/other/unknown	6	5	5	8	10	6	8	3	5	6
Other Hispanic, all fields	262	287	310	334	275	270	249	272	325	270
Science and engineering	177	184	203	223	181	174	165	169	191	175
Science	140	142	160	169	145	144	119	123	142	144
Agricultural sciences	10	5	15	13	6	10	7	4	8	3
Biological sciences	42	35	41	37	50	44	40	28	43	33
Computer sciences	1	4	6	10	5	3	1	5	3	5
Earth, atmospheric, and ocean sciences	3	7	4	4	8	4	2	5	5	2
Mathematics	7	6	9	13	3	3	5	4	6	11
Physical sciences	31	27	23	19	17	23	19	16	22	20
Astronomy	2	0	2	0	1	1	3	2	1	3
Chemistry	14	10	14	9	11	7	13	9	8	10
Physics	15	17	7	10	5	14	3	5	13	7
Other physical sciences	0	0	0	0	0	1	0	0	0	0
Psychology	21	20	24	26	25	23	17	27	27	38
Social sciences	25	38	38	47	31	34	28	34	28	32
Engineering	37	42	43	54	36	30	46	46	49	31
Chemical engineering	6	8	1	9	2	8	2	5	5	5
Civil engineering	2	3	5	8	4	2	5	6	4	5
Electrical engineering	8	11	15	19	14	11	11	17	13	6
Mechanical engineering	5	6	3	10	5	3	16	5	9	5
Other engineering	16	14	19	8	11	6	12	13	18	10
Non-science and engineering	85	103	107	111	94	96	84	103	134	95
Education	30	32	30	38	32	29	15	27	44	25
Health	5	12	5	8	5	5	5	3	9	5
Humanities	37	48	59	50	49	52	50	56	67	48
Professional/other/unknown	13	11	13	15	8	10	14	17	14	17
White, all fields	13,516	13,224	12,996	12,884	12,678	12,308	11,686	10,793	10,820	10,764
Science and engineering	8,673	8,647	8,560	8,510	8,262	7,932	7,476	6,873	6,894	6,919
Science	6,902	6,732	6,604	6,647	6,503	6,377	6,042	5,672	5,635	5,694
Agricultural sciences	405	340	331	300	309	294	273	265	308	295
Biological sciences	1,770	1,771	1,759	1,810	1,726	1,798	1,768	1,726	1,609	1,720
Computer sciences	347	295	295	328	285	274	262	231	243	250
Earth, atmospheric, and ocean sciences	320	307	320	301	271	274	219	230	242	224
Mathematics	409	373	344	376	347	338	308	258	298	273
Physical sciences	1,476	1,456	1,472	1,467	1,444	1,272	1,254	1,129	1,128	1,089
Astronomy	92	101	110	96	86	89	76	69	80	67
Chemistry	760	754	773	785	797	665	677	665	687	635
Physics	613	594	579	577	555	506	489	389	347	384
Other physical sciences	11	7	10	9	6	12	12	6	14	3
Psychology	980	909	833	882	912	882	826	748	714	730
Social sciences	1,195	1,281	1,250	1,183	1,209	1,245	1,132	1,085	1,093	1,113

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Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Engineering	1,771	1,915	1,956	1,863	1,759	1,555	1,434	1,201	1,259	1,225
Chemical engineering	196	205	241	223	236	213	213	171	160	168
Civil engineering	160	168	180	172	194	160	143	144	159	110
Electrical engineering	523	523	525	470	466	388	334	276	272	276
Mechanical engineering	314	353	344	334	291	246	275	206	219	179
Other engineering	578	666	666	664	572	548	469	404	449	492
Non-science and engineering	4,843	4,577	4,436	4,374	4,416	4,376	4,210	3,920	3,926	3,845
Education	1,855	1,830	1,622	1,584	1,602	1,536	1,493	1,364	1,384	1,366
Health	232	212	219	234	257	271	271	286	271	265
Humanities	1,817	1,735	1,846	1,854	1,904	1,898	1,820	1,724	1,725	1,660
Professional/other/unknown	939	800	749	702	653	671	626	546	546	554
Other/unknown, all fields <sup>c</sup>	263	283	662	631	365	414	472	468	636	600
Science and engineering	190	196	426	413	250	280	316	301	429	425
Science	131	161	313	309	183	215	246	226	365	341
Agricultural sciences	4	8	14	11	8	13	6	7	13	18
Biological sciences	34	36	62	74	43	71	73	66	111	85
Computer sciences	10	13	26	18	14	11	12	7	20	18
Earth, atmospheric, and ocean sciences	7	6	14	16	8	9	14	5	12	13
Mathematics	5	8	19	20	13	6	7	11	19	20
Physical sciences	36	43	66	78	37	41	52	50	76	82
Astronomy	3	4	11	10	1	4	4	3	12	6
Chemistry	10	16	29	37	19	26	25	25	43	43
Physics	21	23	26	30	17	11	23	22	21	33
Other physical sciences	2	0	0	1	0	0	0	0	0	0
Psychology	10	9	39	35	11	17	31	24	38	30
Social sciences	25	38	73	57	49	47	51	56	76	75
Engineering	59	35	113	104	67	65	70	75	64	84
Chemical engineering	6	5	13	13	5	4	11	11	6	12
Civil engineering	2	1	9	15	5	7	14	7	8	3
Electrical engineering	17	13	40	18	21	19	13	22	20	27
Mechanical engineering	13	3	14	17	15	12	10	16	12	12
Other engineering	21	13	37	41	21	23	22	19	18	30
Non-science and engineering	73	87	236	218	115	134	156	167	207	175
Education	18	33	95	67	36	34	40	63	72	46
Health	5	4	6	14	6	9	8	9	17	15
Humanities	40	35	96	100	52	75	84	79	91	74
Professional/other/unknown	10	15	39	37	21	16	24	16	27	40

<sup>a</sup> Includes Pacific Islanders from 1995 to 2000.

<sup>b</sup> Includes Mexican American, Puerto Rican, and other Hispanic.

<sup>c</sup> Includes Native Hawaiian and other Pacific Islanders and multiple race/ethnicity from 2001 to 2004.

NOTE: Categories are grouped differently from questionnaire and summary reports in that linguistics, history of science, American studies, and archaeology are included in social science and not in humanities, and public administration is included in social science and not in professional fields.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates.