

TABLE 47. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field, citizenship, and doctoral degree type: 2011

Field	U.S. citizens and permanent residents					Temporary visa holders			
	Total	Doctoral degree <sup>a</sup>	Professional degree <sup>a</sup>	Dual degree <sup>a</sup>	Doctoral degree	Doctoral degree <sup>a</sup>	Professional degree <sup>a</sup>	Dual degree <sup>a</sup>	Doctoral degree
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All surveyed fields	62,947	17,993	2,551	493	9,202	23,538	1,910	701	6,559
Science and engineering	44,249	13,482	466	136	6,600	17,964	533	244	4,824
Science	37,485	12,035	441	125	5,354	14,978	520	232	3,800
Agricultural sciences	1,257	392	7	3	253	462	5	4	131
Biological sciences	21,342	6,922	370	108	2,631	8,490	470	203	2,148
Anatomy	392	111	12	3	74	109	7	3	73
Biochemistry	2,312	699	6	5	296	971	17	9	309
Biology	2,408	920	8	4	304	977	12	4	179
Biometry/epidemiology	521	193	11	1	68	173	6	3	66
Biophysics	198	67	0	0	9	100	1	1	20
Botany	559	141	4	0	123	221	6	0	64
Cell biology	2,678	688	13	10	471	1,082	27	35	352
Ecology	200	107	3	0	26	45	0	0	19
Entomology/parasitology	261	110	2	0	25	103	1	0	20
Genetics	1,460	476	15	14	208	496	32	20	199
Microbiology/immunology/virology	2,551	854	43	19	300	1,017	43	30	245
Nutrition	244	62	8	0	65	74	8	1	26
Pathology	1,747	477	73	21	203	716	98	36	123
Pharmacology	1,628	533	30	13	152	680	34	23	163
Physiology	1,534	560	31	8	120	626	37	24	128
Zoology	85	41	0	0	26	17	0	0	1
Biological sciences, nec	2,564	883	111	10	161	1,083	141	14	161
Communication <sup>b</sup>	65	29	0	0	8	17	0	2	9
Computer sciences	769	194	2	1	142	315	3	1	111
Earth, atmospheric, and ocean sciences	1,771	605	14	0	366	658	4	0	124
Atmospheric sciences	161	48	0	0	28	79	1	0	5
Geosciences	583	196	1	0	65	257	1	0	63
Oceanography	408	229	9	0	21	144	0	0	5
Earth/atmospheric/ocean sciences, nec	619	132	4	0	252	178	2	0	51
Family and consumer sciences/ human sciences <sup>b</sup>	54	30	1	0	12	8	0	0	3
Mathematical sciences	805	290	1	1	104	318	1	1	89
Mathematics/applied mathematics	706	268	1	1	87	279	1	1	68
Statistics	99	22	0	0	17	39	0	0	21
Multidisciplinary/interdisciplinary studies <sup>b</sup>	697	176	6	1	203	203	2	0	106
Neuroscience <sup>b</sup>	1,362	442	15	5	212	500	18	13	157
Physical sciences	7,511	1,959	10	1	1,153	3,542	12	2	832
Astronomy	529	157	0	0	120	206	0	0	46
Chemistry	4,018	931	4	0	606	1,938	9	2	528
Physics	2,704	840	6	1	319	1,358	3	0	177
Physical sciences, nec	260	31	0	0	108	40	0	0	81
Psychology	1,079	609	7	1	135	277	3	5	42
Clinical psychology	93	68	1	0	14	8	0	1	1
Psychology, general	601	293	3	1	92	170	3	3	36
Psychology, nec	385	248	3	0	29	99	0	1	5
Social sciences	773	387	8	4	135	188	2	1	48
Agricultural economics	47	14	1	0	8	22	0	0	2
Anthropology (cultural/social)	81	49	1	0	11	15	0	0	5
Economics (except agricultural)	38	11	0	0	6	11	0	0	10
Geography	57	25	0	2	10	16	0	1	3
History and philosophy of science	9	4	0	1	1	3	0	0	0

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Linguistics	31	22	0	0	1	5	0	0	3
Political science	220	106	1	0	54	47	0	0	12
Sociology	91	60	0	0	14	12	0	0	5
Sociology/anthropology	2	2	0	0	0	0	0	0	0
Social sciences, nec	197	94	5	1	30	57	2	0	8
Engineering	6,764	1,447	25	11	1,246	2,986	13	12	1,024
Aerospace engineering	195	28	1	0	32	106	0	0	28
Agricultural engineering	129	35	3	0	14	61	0	1	15
Architecture <sup>b</sup>	17	4	0	0	4	6	0	0	3
Biomedical engineering	1,076	308	12	3	242	331	3	2	175
Chemical engineering	1,137	230	4	2	226	512	2	3	158
Civil engineering <sup>b</sup>	551	116	0	0	110	259	0	0	66
Electrical engineering	1,062	187	2	3	190	503	4	1	172
Engineering science	233	80	0	0	5	147	0	0	1
Industrial engineering	121	33	0	0	23	36	0	0	29
Mechanical engineering	896	158	2	2	179	392	1	3	159
Metallurgical/materials engineering	861	155	0	1	131	428	0	2	144
Mining engineering	4	1	0	0	1	2	0	0	0
Nuclear engineering	109	27	0	0	21	36	0	0	25
Petroleum engineering	35	10	0	0	0	25	0	0	0
Engineering, nec	338	75	1	0	68	142	3	0	49
Health	18,698	4,511	2,085	357	2,602	5,574	1,377	457	1,735
Clinical medicine	16,279	3,780	1,899	337	2,325	4,752	1,277	432	1,477
Anesthesiology	405	69	29	4	88	98	49	15	53
Cardiology	702	121	113	19	66	185	81	31	86
Endocrinology	416	92	52	11	28	132	27	25	49
Gastroenterology	341	39	57	3	65	88	37	16	36
Hematology	339	113	32	23	41	98	19	3	10
Neurology <sup>b</sup>	1,044	270	70	11	181	341	60	19	92
Obstetrics/gynecology	327	67	61	4	43	89	16	3	44
Oncology/cancer research	1,875	528	126	68	75	828	77	56	117
Ophthalmology	466	92	36	8	46	153	75	24	32
Otorhinolaryngology	160	44	10	4	8	57	17	14	6
Pediatrics	1,434	304	252	61	105	522	49	14	127
Preventive medicine/community health	658	245	26	13	151	149	14	2	58
Psychiatry	995	484	105	9	101	213	40	9	34
Pulmonary disease	301	60	90	14	41	47	25	5	19
Radiology	987	242	102	6	84	360	73	13	107
Surgery	1,259	205	200	7	175	319	190	39	124
Clinical medicine, nec	4,570	805	538	72	1,027	1,073	428	144	483
Other health	2,419	731	186	20	277	822	100	25	258
Dental sciences	377	67	42	7	43	115	52	12	39
Nursing	78	55	3	1	9	10	0	0	0
Pharmaceutical sciences	1,059	343	49	1	81	434	16	3	132

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Speech pathology/audiology	47	13	1	0	23	6	0	0	4
Veterinary sciences	444	106	64	6	97	117	14	6	34
Other health, nec	414	147	27	5	24	140	18	4	49

nec = not elsewhere classified.

<sup>a</sup> Doctoral degree = PhD, ScD, DEng, etc.; professional degree = MD, DVM, DO, DDS, etc.; dual degree = both professional and doctoral degrees (MD-PhD, DVM-PhD, etc.).

<sup>b</sup> In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. "Communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as a separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as a separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in <http://www.nsf.gov/statistics/nsf10307/> for more detail.

NOTES: In 2010, the postdoc section of the survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus, for increases in 2010 or 2011 over 2009 and prior-year data, it is unclear how much is from growth in postdoctoral appointment and how much is from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at <http://www.nsf.gov/statistics/gradpostdoc/>. Doctoral degree type for postdocs was collected for first time in 2010, and any missing data in this item were not imputed in 2010 and 2011 because of lack of historical data. For graduate students, "field" refers to the field of the reporting unit in which the student is enrolled. For postdocs, "field" refers to the field of the unit that reports postdocs to the GSS.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2011.