

TABLE 8-1

S&E postdoctoral fellows in academic institutions, by field, citizenship, and sex: 2016

(Number)

Field	All citizenship categories			U.S. citizens and permanent residents			Temporary residents		
	All S&E postdoctoral fellows	Female	Male	All S&E postdoctoral fellows	Female	Male	All S&E postdoctoral fellows	Female	Male
S&E	45,737	16,438	29,299	20,205	8,364	11,841	25,532	8,074	17,458
Science	37,941	14,716	23,225	17,615	7,683	9,932	20,326	7,033	13,293
Agricultural sciences	1,484	618	866	755	338	417	729	280	449
Biological sciences	19,427	8,472	10,955	8,838	4,181	4,657	10,589	4,291	6,298
Anatomy	184	85	99	83	40	43	101	45	56
Biochemistry	1,776	674	1,102	756	323	433	1,020	351	669
Biology	2,094	890	1,204	1,088	499	589	1,006	391	615
Biometry and epidemiology	676	317	359	383	203	180	293	114	179
Biophysics	148	45	103	50	15	35	98	30	68
Botany and plant biology	648	251	397	346	135	211	302	116	186
Cell and molecular biology	2,310	1,008	1,302	988	464	524	1,322	544	778
Ecology	154	64	90	96	38	58	58	26	32
Entomology and parasitology	254	109	145	140	60	80	114	49	65
Genetics	1,566	673	893	731	344	387	835	329	506
Microbiology, immunology, and virology	2,139	993	1,146	1,026	545	481	1,113	448	665
Nutrition	265	157	108	124	80	44	141	77	64
Pathology	1,264	582	682	513	245	268	751	337	414
Pharmacology and toxicology	1,193	506	687	514	237	277	679	269	410
Physiology	1,494	675	819	620	296	324	874	379	495
Zoology	46	19	27	39	17	22	7	2	5
Biosciences nec	3,216	1,424	1,792	1,341	640	701	1,875	784	1,091
Communication	86	46	40	44	30	14	42	16	26
Computer sciences	914	192	722	328	97	231	586	95	491
Earth, atmospheric, and ocean sciences	2,104	770	1,334	1,139	482	657	965	288	677
Atmospheric sciences	254	67	187	93	26	67	161	41	120
Geosciences	688	236	452	331	148	183	357	88	269
Ocean sciences	429	193	236	256	128	128	173	65	108
Earth, atmospheric, and ocean sciences nec	733	274	459	459	180	279	274	94	180
Family and consumer sciences and human sciences	116	77	39	85	66	19	31	11	20
Mathematics and statistics	1,005	217	788	431	87	344	574	130	444
Mathematics and applied mathematics	887	198	689	395	82	313	492	116	376
Statistics	118	19	99	36	5	31	82	14	68
Multidisciplinary and interdisciplinary studies	1,095	430	665	587	268	319	508	162	346
Neurobiology and neuroscience	2,071	936	1,135	1,003	494	509	1,068	442	626
Physical sciences	7,269	1,651	5,618	2,778	692	2,086	4,491	959	3,532

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Astronomy and astrophysics	440	128	312	222	74	148	218	54	164
Chemistry	3,742	954	2,788	1,363	392	971	2,379	562	1,817
Physics	2,819	511	2,308	1,048	198	850	1,771	313	1,458
Physical sciences nec	268	58	210	145	28	117	123	30	93
Psychology	1,177	674	503	819	485	334	358	189	169
Clinical psychology	76	54	22	66	46	20	10	8	2
Psychology, general	721	398	323	477	276	201	244	122	122
Psychology nec	380	222	158	276	163	113	104	59	45
Social sciences	1,193	633	560	808	463	345	385	170	215
Agricultural economics	64	35	29	34	19	15	30	16	14
Anthropology	152	90	62	116	67	49	36	23	13
Economics (except agricultural)	89	31	58	31	14	17	58	17	41
Geography	99	45	54	57	25	32	42	20	22
History and philosophy of science	11	6	5	5	3	2	6	3	3
Linguistics	38	19	19	23	9	14	15	10	5
Political science and government	319	160	159	226	123	103	93	37	56
Sociology	112	65	47	85	52	33	27	13	14
Sociology and anthropology	3	1	2	3	1	2	0	0	0
Social sciences nec	306	181	125	228	150	78	78	31	47
Engineering	7,796	1,722	6,074	2,590	681	1,909	5,206	1,041	4,165
Aerospace engineering	201	20	181	81	12	69	120	8	112
Agricultural engineering	165	47	118	60	20	40	105	27	78
Architecture	16	8	8	8	4	4	8	4	4
Biomedical engineering	1,278	437	841	543	207	336	735	230	505
Chemical engineering	1,218	298	920	400	96	304	818	202	616
Civil engineering	706	176	530	270	90	180	436	86	350
Electrical engineering	1,186	163	1,023	314	47	267	872	116	756
Engineering science, mechanics, and physics	284	56	228	85	20	65	199	36	163
Industrial and manufacturing engineering	130	27	103	39	14	25	91	13	78
Mechanical engineering	1,080	178	902	357	69	288	723	109	614
Metallurgical and materials engineering	882	181	701	234	56	178	648	125	523
Mining engineering	10	3	7	4	1	3	6	2	4
Nuclear engineering	100	12	88	24	1	23	76	11	65
Petroleum engineering	72	9	63	9	1	8	63	8	55
Engineering nec	468	107	361	162	43	119	306	64	242

nec = not elsewhere classified; S&E = science and engineering.

Source(s)

National Science Foundation, National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2016.