

TABLE D-12. Primary source of support for full-time S&E graduate students, by sex and field: 2005

Sex and field	All sources	Federal support										Other outside support				
		Total	DOD	DOE	HHS			NASA	NSF	USDA	Other	Institutional support	United States		Self-support	
					Total	NIH	Other						Total	Foreign		
S&E	341,778	74,604	8,628	4,376	23,881	22,719	1,162	2,671	20,215	3,283	11,550	142,085	24,472	22,062	2,410	100,617
Science	257,403	53,355	3,307	2,456	21,627	20,651	976	1,395	13,353	2,950	8,267	112,379	14,677	13,139	1,538	76,992
Agricultural sciences	9,710	2,343	24	53	84	74	10	49	211	1,278	644	3,987	1,460	1,355	105	1,920
Biological sciences	57,651	22,165	360	253	16,153	15,634	519	94	2,358	1,094	1,853	23,352	3,945	3,687	258	8,189
Anatomy	844	281	4	0	216	213	3	1	13	2	45	358	60	54	6	145
Biochemistry	5,470	2,880	49	47	2,329	2,246	83	7	225	32	191	1,832	413	399	14	345
Biology	11,913	2,890	56	33	1,548	1,505	43	25	787	76	365	6,637	586	550	36	1,800
Biometry/epidemiology	3,417	1,287	11	0	1,070	997	73	2	49	3	152	917	164	142	22	1,049
Biophysics	1,120	556	5	23	452	441	11	1	63	1	11	370	128	125	3	66
Botany	1,667	521	4	34	33	27	6	5	177	198	70	895	142	128	14	109
Cell/molecular biology	5,770	2,890	38	18	2,409	2,307	102	10	207	51	157	2,087	419	393	26	374
Ecology	1,600	444	5	8	19	18	1	6	204	46	156	851	95	86	9	210
Entomology/parasitology	943	292	5	1	25	20	5	0	38	172	51	440	147	140	7	64
Genetics	2,063	1,084	11	5	928	896	32	1	86	27	26	539	171	169	2	269
Microbiology, immunology, and virology	5,074	2,650	57	27	2,299	2,252	47	12	122	39	94	1,773	385	371	14	266
Nutrition	3,424	703	6	1	230	195	35	6	13	357	90	1,176	298	281	17	1,247
Pathology	1,358	526	20	0	431	428	3	1	14	33	27	432	143	92	51	257
Pharmacology	2,905	1,614	42	4	1,398	1,384	14	1	33	8	128	815	242	232	10	234
Physiology	2,187	754	3	0	660	647	13	2	29	4	56	648	119	116	3	666
Zoology	1,094	303	9	2	44	44	0	1	119	9	119	668	79	77	2	44
Other	6,802	2,490	35	50	2,062	2,014	48	13	179	36	115	2,914	354	332	22	1,044
Computer sciences	28,317	5,367	1,405	156	327	289	38	95	2,819	21	544	9,028	1,680	1,480	200	12,242
Earth, atmospheric, and ocean sciences	11,370	3,309	154	166	34	22	12	458	1,505	73	919	5,026	955	859	96	2,080
Atmospheric	1,002	529	28	32	0	0	0	140	203	4	122	304	53	49	4	116
Earth	5,537	1,497	25	99	3	2	1	220	849	24	277	2,847	398	349	49	795
Ocean	2,198	782	73	16	9	9	0	54	332	9	289	805	286	263	23	325
Other	2,633	501	28	19	22	11	11	44	121	36	231	1,070	218	198	20	844
Mathematics and statistics	15,261	1,756	187	69	165	155	10	24	1,028	35	248	10,143	443	360	83	2,919
Mathematics/applied mathematics	12,051	1,357	165	65	55	54	1	23	831	12	206	8,266	319	243	76	2,109
Statistics	3,210	399	22	4	110	101	9	1	197	23	42	1,877	124	117	7	810
Physical sciences	32,386	11,217	892	1,695	2,622	2,468	154	580	4,168	40	1,220	17,138	2,188	2,095	93	1,843
Astronomy	1,129	509	10	16	27	27	0	193	215	0	48	501	89	84	5	30
Chemistry	18,760	6,028	378	524	2,377	2,238	139	78	1,994	35	642	10,364	1,459	1,423	36	909
Physics	12,210	4,660	504	1,155	214	199	15	308	1,947	5	527	6,187	636	584	52	727
Other	287	20	0	0	4	4	0	1	12	0	3	86	4	4	0	177
Psychology	38,957	3,702	150	30	1,847	1,705	142	12	394	18	1,251	13,843	1,420	1,390	30	19,992
Clinical	10,531	828	24	5	396	356	40	0	6	0	397	2,820	443	438	5	6,440
General	12,091	1,523	49	21	879	801	78	8	265	7	294	5,554	479	464	15	4,535
Nonclinical	16,335	1,351	77	4	572	548	24	4	123	11	560	5,469	498	488	10	9,017
Social sciences	63,751	3,496	135	34	395	304	91	83	870	391	1,588	29,862	2,586	1,913	673	27,807
Agricultural economics	1,822	420	1	7	2	2	0	0	7	276	127	814	120	102	18	468
Anthropology (cultural and social)	5,833	372	4	1	37	28	9	2	163	0	165	3,382	245	226	19	1,834

Women, Minorities, and Persons with Disabilities in Science and Engineering

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Sex and field	All sources	Federal support										Other outside support			Self-support	
		Total	DOD	DOE	HHS			NASA	NSF	USDA	Other	Institutional support	United States			
					Total	NIH	Other						Total	Foreign		
Economics	9,715	376	22	1	40	39	1	0	136	40	137	5,804	408	199	209	3,127
Geography	3,196	466	12	6	17	14	3	70	152	29	180	1,684	143	130	13	903
History and philosophy of science	582	22	1	0	1	1	0	0	17	0	3	369	14	14	0	177
Linguistics	2,519	141	6	0	24	21	3	0	55	0	56	1,452	112	98	14	814
Political science and public administration	22,243	768	73	14	54	17	37	11	142	8	466	8,568	782	527	255	12,125
Sociology	6,633	431	5	1	166	147	19	0	119	26	114	4,179	222	203	19	1,801
Other	11,208	500	11	4	54	35	19	0	79	12	340	3,610	540	414	126	6,558
Engineering	84,375	21,249	5,321	1,920	2,254	2,068	186	1,276	6,862	333	3,283	29,706	9,795	8,923	872	23,625
Aerospace	3,241	1,216	557	42	16	15	1	382	136	1	82	972	281	244	37	772
Agricultural	855	253	13	6	10	7	3	7	25	121	71	377	126	113	13	99
Biomedical	5,254	1,639	87	18	1,137	1,122	15	32	252	5	108	1,661	679	648	31	1,275
Chemical	6,139	2,097	204	365	274	236	38	90	851	46	267	2,343	920	870	50	779
Civil	13,118	2,000	180	92	60	32	28	68	652	64	884	5,323	1,169	1,055	114	4,626
Electrical	25,843	6,036	1,929	236	360	314	46	244	2,501	23	743	8,334	3,058	2,793	265	8,415
Engineering science/physics	1,613	593	164	78	55	46	9	20	234	1	41	654	177	159	18	189
Industrial/manufacturing	6,113	950	342	46	68	56	12	52	291	9	142	2,147	574	514	60	2,442
Mechanical	12,178	3,114	703	342	186	159	27	258	1,055	19	551	4,671	1,399	1,268	131	2,994
Metallurgical/materials	4,507	1,587	364	319	36	31	5	58	639	7	164	1,612	775	705	70	533
Mining	212	40	1	17	1	0	1	2	4	1	14	110	15	13	2	47
Nuclear	840	368	48	231	12	12	0	10	10	0	57	234	112	100	12	126
Petroleum	631	97	0	86	0	0	0	2	4	3	2	180	224	185	39	130
Other	3,831	1,259	729	42	39	38	1	51	208	33	157	1,088	286	256	30	1,198
Female	146,154	28,512	1,515	1,065	12,294	11,710	584	773	6,585	1,514	4,766	61,156	8,370	7,733	637	48,116
Science	126,696	23,884	766	696	11,583	11,046	537	513	4,888	1,414	4,024	53,988	6,311	5,844	467	42,513
Agricultural sciences	4,699	1,035	9	19	45	39	6	13	109	547	293	2,049	648	611	37	967
Biological sciences	32,074	11,981	193	130	8,778	8,500	278	42	1,254	615	969	13,088	1,971	1,858	113	5,034
Anatomy	411	137	3	0	109	109	0	0	4	1	20	190	23	23	0	61
Biochemistry	2,655	1,397	22	18	1,154	1,112	42	2	104	16	81	878	193	188	5	187
Biology	6,508	1,565	36	19	837	823	14	10	427	40	196	3,650	271	255	16	1,022
Biometry/epidemiology	2,188	805	8	0	687	632	55	1	20	3	86	594	93	87	6	696
Biophysics	388	192	1	7	152	149	3	0	29	0	3	145	36	36	0	15
Botany	884	264	2	18	15	12	3	2	91	97	39	492	72	70	2	56
Cell/molecular biology	3,036	1,547	21	9	1,300	1,240	60	3	110	25	79	1,106	198	183	15	185
Ecology	889	239	3	3	11	10	1	5	123	25	69	494	40	38	2	116
Entomology/parasitology	444	132	3	1	13	11	2	0	16	75	24	214	64	62	2	34
Genetics	1,259	640	9	4	537	519	18	1	51	15	23	330	89	88	1	200
Microbiology, immunology, and virology	2,881	1,476	36	16	1,276	1,254	22	5	69	19	55	1,035	211	203	8	159
Nutrition	2,672	512	3	1	177	154	23	4	10	255	62	927	190	178	12	1,043
Pathology	818	301	10	0	244	243	1	1	9	21	16	256	74	51	23	187
Pharmacology	1,594	906	18	3	791	782	9	0	18	1	75	435	134	129	5	119
Physiology	1,159	404	2	0	351	345	6	1	14	2	34	353	68	65	3	334

Women, Minorities, and Persons with Disabilities in Science and Engineering

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		Total	DOD	DOE	HHS			NASA	NSF	USDA	Other	Institutional support	United States			Foreign
					Total	NIH	Other						Total	States		
Zoology	557	151	4	0	24	24	0	0	66	4	53	345	39	38	1	22
Other	3,731	1,313	12	31	1,100	1,081	19	7	93	16	54	1,644	176	164	12	598
Computer sciences	6,628	1,031	183	33	75	66	9	18	602	3	117	2,104	337	290	47	3,156
Earth, atmospheric, and ocean sciences	5,264	1,474	60	69	23	16	7	204	667	31	420	2,381	400	366	34	1,009
Atmospheric	345	184	6	11	0	0	0	60	63	2	42	115	16	14	2	30
Earth	2,363	654	11	38	2	1	1	98	373	11	121	1,240	152	135	17	317
Ocean	1,144	394	33	10	8	8	0	31	180	2	130	434	136	128	8	180
Other	1,412	242	10	10	13	7	6	15	51	16	127	592	96	89	7	482
Mathematics and statistics	5,180	588	34	28	80	72	8	9	328	16	93	3,364	153	132	21	1,075
Mathematics/applied mathematics	3,712	400	24	27	21	21	0	9	242	4	73	2,510	98	81	17	704
Statistics	1,468	188	10	1	59	51	8	0	86	12	20	854	55	51	4	371
Physical sciences	10,336	3,421	178	390	1,049	981	68	186	1,258	13	347	5,630	667	650	17	618
Astronomy	373	169	1	1	9	9	0	71	75	0	12	171	21	19	2	12
Chemistry	7,424	2,360	108	185	994	934	60	34	790	12	237	4,163	525	517	8	376
Physics	2,404	882	69	204	45	37	8	81	385	1	97	1,255	118	111	7	149
Other	135	10	0	0	1	1	0	0	8	0	1	41	3	3	0	81
Psychology	29,082	2,551	73	21	1,275	1,171	104	6	230	14	932	9,984	1,008	996	12	15,539
Clinical	8,082	614	13	5	308	278	30	0	4	0	284	2,125	336	331	5	5,007
General	8,520	988	20	15	590	532	58	3	154	6	200	3,868	303	298	5	3,361
Nonclinical	12,480	949	40	1	377	361	16	3	72	8	448	3,991	369	367	2	7,171
Social sciences	33,433	1,803	36	6	258	201	57	35	440	175	853	15,388	1,127	941	186	15,115
Agricultural economics	761	191	1	2	0	0	0	0	3	121	64	350	41	38	3	179
Anthropology (cultural and social)	3,727	251	2	0	31	22	9	1	106	0	111	2,133	155	145	10	1,188
Economics	3,465	137	0	1	18	18	0	0	53	17	48	2,138	107	67	40	1,083
Geography	1,374	189	5	2	7	5	2	26	51	11	87	743	58	53	5	384
History and philosophy of science	267	11	0	0	1	1	0	0	8	0	2	171	9	9	0	76
Linguistics	1,599	76	3	0	8	7	1	0	29	0	36	936	69	64	5	518
Political science and public administration	11,543	379	16	1	32	13	19	8	77	6	239	4,195	313	245	68	6,656
Sociology	4,191	294	3	0	120	106	14	0	79	16	76	2,636	136	126	10	1,125
Other	6,506	275	6	0	41	29	12	0	34	4	190	2,086	239	194	45	3,906
Engineering	19,458	4,628	749	369	711	664	47	260	1,697	100	742	7,168	2,059	1,889	170	5,603
Aerospace	462	145	37	4	3	3	0	58	35	0	8	153	49	43	6	115
Agricultural	272	84	6	1	6	3	3	3	7	44	17	128	38	36	2	22
Biomedical	2,025	606	28	4	421	416	5	8	106	2	37	643	267	256	11	509
Chemical	1,776	606	40	95	90	80	10	23	262	18	78	708	254	241	13	208
Civil	4,108	637	37	33	21	14	7	26	229	17	274	1,716	285	256	29	1,470
Electrical	4,759	1,032	273	34	75	65	10	50	479	3	118	1,564	490	444	46	1,673
Engineering science/physics	352	140	20	13	16	14	2	6	69	0	16	145	27	19	8	40
Industrial/manufacturing	1,605	203	55	9	15	13	2	11	80	2	31	611	145	135	10	646

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					Total	NIH	Other						Total	Foreign		
Mechanical	1,732	435	92	35	33	26	7	35	178	1	61	690	186	175	11	421
Metallurgical/materials	1,188	417	76	77	12	11	1	21	187	3	41	438	200	180	20	133
Mining	29	4	0	1	0	0	0	0	2	0	1	13	0	0	0	12
Nuclear	170	62	6	40	5	5	0	2	3	0	6	57	29	23	6	22
Petroleum	104	20	0	17	0	0	0	1	0	2	0	32	32	30	2	20
Other	876	237	79	6	14	14	0	16	60	8	54	270	57	51	6	312
Male	195,624	46,092	7,113	3,311	11,587	11,009	578	1,898	13,630	1,769	6,784	80,929	16,102	14,329	1,773	52,501
Science	130,707	29,471	2,541	1,760	10,044	9,605	439	882	8,465	1,536	4,243	58,391	8,366	7,295	1,071	34,479
Agricultural sciences	5,011	1,308	15	34	39	35	4	36	102	731	351	1,938	812	744	68	953
Biological sciences	25,577	10,184	167	123	7,375	7,134	241	52	1,104	479	884	10,264	1,974	1,829	145	3,155
Anatomy	433	144	1	0	107	104	3	1	9	1	25	168	37	31	6	84
Biochemistry	2,815	1,483	27	29	1,175	1,134	41	5	121	16	110	954	220	211	9	158
Biology	5,405	1,325	20	14	711	682	29	15	360	36	169	2,987	315	295	20	778
Biometry/epidemiology	1,229	482	3	0	383	365	18	1	29	0	66	323	71	55	16	353
Biophysics	732	364	4	16	300	292	8	1	34	1	8	225	92	89	3	51
Botany	783	257	2	16	18	15	3	3	86	101	31	403	70	58	12	53
Cell/molecular biology	2,734	1,343	17	9	1,109	1,067	42	7	97	26	78	981	221	210	11	189
Ecology	711	205	2	5	8	8	0	1	81	21	87	357	55	48	7	94
Entomology/parasitology	499	160	2	0	12	9	3	0	22	97	27	226	83	78	5	30
Genetics	804	444	2	1	391	377	14	0	35	12	3	209	82	81	1	69
Microbiology, immunology, and virology	2,193	1,174	21	11	1,023	998	25	7	53	20	39	738	174	168	6	107
Nutrition	752	191	3	0	53	41	12	2	3	102	28	249	108	103	5	204
Pathology	540	225	10	0	187	185	2	0	5	12	11	176	69	41	28	70
Pharmacology	1,311	708	24	1	607	602	5	1	15	7	53	380	108	103	5	115
Physiology	1,028	350	1	0	309	302	7	1	15	2	22	295	51	51	0	332
Zoology	537	152	5	2	20	20	0	1	53	5	66	323	40	39	1	22
Other	3,071	1,177	23	19	962	933	29	6	86	20	61	1,270	178	168	10	446
Computer sciences	21,689	4,336	1,222	123	252	223	29	77	2,217	18	427	6,924	1,343	1,190	153	9,086
Earth, atmospheric, and ocean sciences	6,106	1,835	94	97	11	6	5	254	838	42	499	2,645	555	493	62	1,071
Atmospheric	657	345	22	21	0	0	0	80	140	2	80	189	37	35	2	86
Earth	3,174	843	14	61	1	1	0	122	476	13	156	1,607	246	214	32	478
Ocean	1,054	388	40	6	1	1	0	23	152	7	159	371	150	135	15	145
Other	1,221	259	18	9	9	4	5	29	70	20	104	478	122	109	13	362
Mathematics and statistics	10,081	1,168	153	41	85	83	2	15	700	19	155	6,779	290	228	62	1,844
Mathematics/applied mathematics	8,339	957	141	38	34	33	1	14	589	8	133	5,756	221	162	59	1,405
Statistics	1,742	211	12	3	51	50	1	1	111	11	22	1,023	69	66	3	439
Physical sciences	22,050	7,796	714	1,305	1,573	1,487	86	394	2,910	27	873	11,508	1,521	1,445	76	1,225
Astronomy	756	340	9	15	18	18	0	122	140	0	36	330	68	65	3	18
Chemistry	11,336	3,668	270	339	1,383	1,304	79	44	1,204	23	405	6,201	934	906	28	533

Women, Minorities, and Persons with Disabilities in Science and Engineering

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					Total	NIH	Other						Total	Foreign		
Physics	9,806	3,778	435	951	169	162	7	227	1,562	4	430	4,932	518	473	45	578
Other	152	10	0	0	3	3	0	1	4	0	2	45	1	1	0	96
Psychology	9,875	1,151	77	9	572	534	38	6	164	4	319	3,859	412	394	18	4,453
Clinical	2,449	214	11	0	88	78	10	0	2	0	113	695	107	107	0	1,433
General	3,571	535	29	6	289	269	20	5	111	1	94	1,686	176	166	10	1,174
Nonclinical	3,855	402	37	3	195	187	8	1	51	3	112	1,478	129	121	8	1,846
Social sciences	30,318	1,693	99	28	137	103	34	48	430	216	735	14,474	1,459	972	487	12,692
Agricultural economics	1,061	229	0	5	2	2	0	0	4	155	63	464	79	64	15	289
Anthropology (cultural and social)	2,106	121	2	1	6	6	0	1	57	0	54	1,249	90	81	9	646
Economics	6,250	239	22	0	22	21	1	0	83	23	89	3,666	301	132	169	2,044
Geography	1,822	277	7	4	10	9	1	44	101	18	93	941	85	77	8	519
History and philosophy of science	315	11	1	0	0	0	0	0	9	0	1	198	5	5	0	101
Linguistics	920	65	3	0	16	14	2	0	26	0	20	516	43	34	9	296
Political science and public administration	10,700	389	57	13	22	4	18	3	65	2	227	4,373	469	282	187	5,469
Sociology	2,442	137	2	1	46	41	5	0	40	10	38	1,543	86	77	9	676
Other	4,702	225	5	4	13	6	7	0	45	8	150	1,524	301	220	81	2,652
Engineering	64,917	16,621	4,572	1,551	1,543	1,404	139	1,016	5,165	233	2,541	22,538	7,736	7,034	702	18,022
Aerospace	2,779	1,071	520	38	13	12	1	324	101	1	74	819	232	201	31	657
Agricultural	583	169	7	5	4	4	0	4	18	77	54	249	88	77	11	77
Biomedical	3,229	1,033	59	14	716	706	10	24	146	3	71	1,018	412	392	20	766
Chemical	4,363	1,491	164	270	184	156	28	67	589	28	189	1,635	666	629	37	571
Civil	9,010	1,363	143	59	39	18	21	42	423	47	610	3,607	884	799	85	3,156
Electrical	21,084	5,004	1,656	202	285	249	36	194	2,022	20	625	6,770	2,568	2,349	219	6,742
Engineering science/physics	1,261	453	144	65	39	32	7	14	165	1	25	509	150	140	10	149
Industrial/manufacturing	4,508	747	287	37	53	43	10	41	211	7	111	1,536	429	379	50	1,796
Mechanical	10,446	2,679	611	307	153	133	20	223	877	18	490	3,981	1,213	1,093	120	2,573
Metallurgical/materials	3,319	1,170	288	242	24	20	4	37	452	4	123	1,174	575	525	50	400
Mining	183	36	1	16	1	0	1	2	2	1	13	97	15	13	2	35
Nuclear	670	306	42	191	7	7	0	8	7	0	51	177	83	77	6	104
Petroleum	527	77	0	69	0	0	0	1	4	1	2	148	192	155	37	110
Other	2,955	1,022	650	36	25	24	1	35	148	25	103	818	229	205	24	886

DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NIH = National Institutes of Health; NSF = National Science Foundation; USDA = U.S. Department of Agriculture

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2005.