

TABLE 3-6. Primary source of support for full-time S&E graduate students, by sex and field: 2008

Sex and field	All sources	Federal support										Institutional support	Other nonfederal support			
		Total	DOD	DOE	HHS			NASA	NSF	USDA	Other		Total	United States	Foreign	Self-support
					Total	NIH	Other									
Both sexes, S&E	383,560	71,527	7,903	4,317	24,004	22,884	1,120	2,336	19,676	2,702	10,589	164,272	23,707	20,155	3,552	124,054
Science	285,305	50,788	3,131	2,480	21,220	20,234	986	1,311	12,832	2,403	7,411	129,064	14,152	12,071	2,081	91,301
Agricultural sciences	10,132	2,026	26	38	68	61	7	39	225	1,066	564	4,829	1,310	1,178	132	1,967
Biological sciences	60,662	20,024	417	176	15,129	14,671	458	51	2,153	797	1,301	25,858	3,913	3,535	378	10,867
Anatomy	731	272	1	0	211	206	5	1	11	1	47	259	47	41	6	153
Biochemistry	5,085	2,249	58	29	1,872	1,792	80	1	205	20	64	2,068	382	361	21	386
Biology	12,486	2,582	58	21	1,418	1,351	67	14	706	66	299	7,040	622	559	63	2,242
Biometry/epidemiology	4,294	1,242	12	7	1,130	1,057	73	1	34	4	54	1,245	176	156	20	1,631
Biophysics	1,037	490	6	10	405	401	4	1	50	3	15	409	51	42	9	87
Botany	1,613	434	6	31	32	26	6	2	165	159	39	886	152	141	11	141
Cell biology	6,632	2,770	66	13	2,347	2,288	59	6	184	24	130	2,710	467	421	46	685
Ecology	1,620	332	4	7	9	8	1	4	178	30	100	1,004	125	109	16	159
Entomology/parasitology	910	222	4	2	32	28	4	0	43	113	28	503	110	104	6	75
Genetics	2,056	917	27	4	735	727	8	0	82	33	36	699	163	150	13	277
Microbiology, immunology, and virology	4,745	2,380	54	29	2,089	2,078	11	2	93	38	75	1,728	356	311	45	281
Nutrition	3,526	530	7	0	246	220	26	0	16	229	32	1,223	255	230	25	1,518
Pathology	1,384	534	12	0	448	443	5	9	19	20	26	437	121	109	12	292
Pharmacology	2,743	1,411	36	1	1,256	1,230	26	0	24	8	86	930	213	190	23	189
Physiology	2,606	898	23	4	789	754	35	3	31	6	42	923	158	145	13	627
Zoology	726	162	10	0	22	20	2	0	67	13	50	477	32	30	2	55
Other	8,468	2,599	33	18	2,088	2,042	46	7	245	30	178	3,317	483	436	47	2,069
Communication	5,224	105	8	2	28	24	4	0	21	7	39	2,919	310	296	14	1,890
Computer sciences	31,338	4,957	1,201	141	368	324	44	86	2,639	10	512	9,986	1,297	1,078	219	15,098
Earth, atmospheric, and ocean sciences	11,171	3,112	114	148	30	22	8	433	1,451	72	864	5,051	921	778	143	2,087
Atmospheric	1,169	553	30	46	1	1	0	155	194	11	116	350	137	116	21	129
Earth	5,409	1,248	29	74	6	6	0	172	761	21	185	2,948	406	360	46	807
Ocean	2,120	885	45	20	7	7	0	41	375	12	385	832	163	127	36	240
Other	2,473	426	10	8	16	8	8	65	121	28	178	921	215	175	40	911
Family and consumer science/human science	1,936	103	6	0	38	28	10	0	9	24	26	997	105	100	5	731
Mathematics and statistics	16,241	1,638	169	49	171	155	16	13	980	15	241	10,859	425	328	97	3,319
Mathematics/applied mathematics	12,530	1,259	152	46	51	49	2	10	797	2	201	8,813	260	183	77	2,198
Statistics	3,711	379	17	3	120	106	14	3	183	13	40	2,046	165	145	20	1,121
Multidisciplinary/interdisciplinary studies	3,110	366	23	8	55	52	3	4	113	7	156	1,397	122	92	30	1,225
Neuroscience	1,909	1,046	10	1	957	948	9	1	53	0	24	656	111	102	9	96
Physical sciences	33,254	10,706	868	1,868	2,400	2,259	141	607	3,973	67	923	18,415	1,991	1,756	235	2,142
Astronomy	1,233	511	6	59	2	2	0	210	200	0	34	561	122	116	6	39
Chemistry	19,073	5,586	431	554	2,140	2,029	111	69	1,913	56	423	11,003	1,213	1,070	143	1,271
Physics	12,626	4,572	424	1,254	255	225	30	315	1,852	11	461	6,696	638	555	83	720
Other	322	37	7	1	3	3	0	13	8	0	5	155	18	15	3	112
Psychology	42,103	3,385	126	7	1,595	1,391	204	6	362	3	1,286	14,788	1,232	1,124	108	22,698
Clinical	10,349	614	33	0	391	368	23	0	13	0	177	2,835	323	287	36	6,577
General	12,925	1,325	48	2	806	686	120	5	205	2	257	5,896	450	420	30	5,254
Nonclinical	18,829	1,446	45	5	398	337	61	1	144	1	852	6,057	459	417	42	10,867

TABLE 3-6. Primary source of support for full-time S&E graduate students, by sex and field: 2008

Sex and field	All sources	Federal support										Other nonfederal support				
		Total	DOD	DOE	HHS			NASA	NSF	USDA	Other	Institutional support	Total	United States		Self-support
					Total	NIH	Other							Foreign		
Social sciences	68,225	3,320	163	42	381	299	82	71	853	335	1,475	33,309	2,415	1,704	711	29,181
Agricultural economics	1,868	377	5	13	5	3	2	1	17	222	114	913	142	104	38	436
Anthropology (cultural and social)	6,459	395	4	1	34	24	10	0	168	1	187	3,698	249	217	32	2,117
Economics	10,541	399	22	4	53	50	3	0	123	49	148	6,367	465	255	210	3,310
Geography	3,299	407	11	5	13	10	3	67	136	22	153	1,945	90	69	21	857
History and philosophy of science	798	25	1	0	1	1	0	0	11	3	9	537	55	36	19	181
Linguistics	2,328	150	1	1	11	10	1	0	88	0	49	1,448	38	19	19	692
Political science and public administration	23,640	648	86	11	26	16	10	3	121	4	397	9,223	724	485	239	13,045
Sociology	7,110	455	11	0	181	150	31	0	127	27	109	4,301	228	213	15	2,126
Sociology/anthropology	393	15	3	2	3	2	1	0	2	2	3	262	5	4	1	111
Other	11,789	449	19	5	54	33	21	0	60	5	306	4,615	419	302	117	6,306
Engineering	98,255	20,739	4,772	1,837	2,784	2,650	134	1,025	6,844	299	3,178	35,208	9,555	8,084	1,471	32,753
Aerospace	3,691	1,236	509	47	12	11	1	382	140	0	146	1,233	265	190	75	957
Agricultural	1,022	279	17	12	10	9	1	4	33	119	84	492	129	96	33	122
Architecture	5,211	41	5	5	3	2	1	0	7	3	18	1,955	163	134	29	3,052
Biomedical	6,262	2,230	122	42	1,542	1,500	42	14	352	5	153	2,177	633	572	61	1,222
Chemical	6,762	2,044	162	374	302	267	35	30	860	60	256	2,775	1,009	863	146	934
Civil	11,909	1,730	189	73	40	34	6	75	546	45	762	5,283	1,013	838	175	3,883
Electrical	29,212	5,905	1,975	186	418	394	24	209	2,492	14	611	9,014	2,512	2,238	274	11,781
Engineering science/physics	1,486	455	95	84	51	51	0	16	168	5	36	563	109	85	24	359
Industrial/manufacturing	8,216	876	251	73	78	68	10	25	289	7	153	2,610	675	562	113	4,055
Mechanical	13,763	3,171	852	371	193	183	10	193	1,071	15	476	5,271	1,487	1,205	282	3,834
Metallurgical/materials	4,811	1,690	388	287	75	75	0	33	645	11	251	1,701	761	633	128	659
Mining	207	24	0	12	4	3	1	0	2	0	6	75	68	68	0	40
Nuclear	941	335	46	182	9	9	0	7	17	0	74	345	127	100	27	134
Petroleum	828	28	0	15	0	0	0	0	3	1	9	264	349	282	67	187
Other	3,934	695	161	74	47	44	3	37	219	14	143	1,450	255	218	37	1,534
Female, S&E	167,106	28,036	1,629	1,001	12,377	11,805	572	669	6,486	1,289	4,585	71,876	8,789	7,661	1,128	58,405
Science	143,480	23,181	827	646	11,482	10,954	528	500	4,699	1,210	3,817	62,978	6,597	5,782	815	50,724
Agricultural sciences	5,003	973	11	16	31	25	6	17	109	520	269	2,443	594	543	51	993
Biological sciences	34,024	10,980	229	97	8,282	8,037	245	27	1,190	447	708	14,375	2,134	1,954	180	6,535
Anatomy	366	141	1	0	114	112	2	0	3		23	133	21	18	3	71
Biochemistry	2,481	1,095	26	15	906	877	29	0	105	12	31	1,002	179	168	11	205
Biology	6,894	1,479	29	16	798	756	42	8	411	37	180	3,836	340	313	27	1,239
Biometry/epidemiology	2,584	719	9	2	657	605	52	1	18		32	770	101	90	11	994
Biophysics	368	176	3	4	145	144	1	0	17	2	5	147	21	17	4	24
Botany	858	225	2	18	16	15	1	2	83	82	22	484	76	71	5	73
Cell biology	3,635	1,495	36	4	1,268	1,239	29	3	117	11	56	1,497	257	236	21	386
Ecology	898	193	2	5	8	8	0	2	106	18	52	540	72	67	5	93
Entomology/parasitology	428	105	1	1	15	12	3	0	24	51	13	238	57	52	5	28
Genetics	1,240	526	19	1	432	426	6	0	38	16	20	402	94	91	3	218
Microbiology, immunology, and virology	2,749	1,390	33	18	1,217	1,212	5	1	58	21	42	991	204	179	25	164
Nutrition	2,799	399	5	0	204	180	24	0	10	157	23	943	193	176	17	1,264

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		Total	DOD	DOE	HHS			NASA	NSF	USDA	Other		Total	United States	Foreign	Self-support
					Total	NIH	Other									
Pathology	851	296	8	0	246	243	3	6	12	7	17	265	67	64	3	223
Pharmacology	1,535	785	19	1	700	687	13	0	14	4	47	536	99	90	9	115
Physiology	1,365	484	13	3	415	400	15	2	20	5	26	491	90	85	5	300
Zoology	369	74	4	0	14	13	1	0	22	6	28	249	15	14	1	31
Other	4,604	1,398	19	9	1,127	1,108	19	2	132	18	91	1,851	248	223	25	1,107
Communication	3,275	66	3	1	23	19	4	0	10	6	23	1,848	154	147	7	1,207
Computer sciences	7,592	903	168	18	88	80	8	22	490	4	113	2,420	256	207	49	4,013
Earth, atmospheric, and ocean sciences	5,193	1,461	41	53	16	11	5	201	689	30	431	2,356	390	328	62	986
Atmospheric	389	185	6	13	0	0	0	61	50	5	50	119	52	44	8	33
Earth	2,349	581	11	26	3	3	0	89	367	8	77	1,292	143	130	13	333
Ocean	1,146	476	18	11	3	3	0	20	214	4	206	457	86	65	21	127
Other	1,309	219	6	3	10	5	5	31	58	13	98	488	109	89	20	493
Family and consumer science/human science	1,611	86	4	0	32	23	9	0	6	20	24	839	85	81	4	601
Mathematics and statistics	5,509	520	34	13	78	72	6	6	295	6	88	3,589	144	122	22	1,256
Mathematics/applied mathematics	3,849	360	31	13	18	17	1	3	225	1	69	2,677	66	53	13	746
Statistics	1,660	160	3	0	60	55	5	3	70	5	19	912	78	69	9	510
Multidisciplinary/interdisciplinary studies	1,775	185	10	2	35	34	1	1	47	0	90	797	64	48	16	729
Neuroscience	1,041	562	6	1	509	508	1	0	32	0	14	364	66	59	7	49
Physical sciences	10,876	3,318	211	419	993	944	49	196	1,177	31	291	6,171	650	578	72	737
Astronomy	397	175	2	7	0	0	0	71	84	0	11	177	35	31	4	10
Chemistry	7,858	2,245	140	189	932	888	44	34	736	29	185	4,591	486	431	55	536
Physics	2,513	891	68	223	59	54	5	89	356	2	94	1,350	124	112	12	148
Other	108	7	1	0	2	2	0	2	1	0	1	53	5	4	1	43
Psychology	31,594	2,431	73	3	1,160	1,018	142	2	235	3	955	10,638	891	812	79	17,634
Clinical	8,013	477	20	0	321	305	16	0	10	0	126	2,242	248	219	29	5,046
General	9,282	913	28	1	565	485	80	2	134	2	181	4,029	320	300	20	4,020
Nonclinical	14,299	1,041	25	2	274	228	46		91	1	648	4,367	323	293	30	8,568
Social sciences	35,987	1,696	37	23	235	183	52	28	419	143	811	17,138	1,169	903	266	15,984
Agricultural economics	806	177	1	6	1	1	0	1	7	102	59	419	61	46	15	149
Anthropology (cultural and social)	4,112	255	3	1	24	15	9	0	102	1	124	2,338	152	139	13	1,367
Economics	3,884	136	4	3	18	17	1	0	42	11	58	2,321	136	91	45	1,291
Geography	1,433	168	3	1	4	3	1	24	53	8	75	885	48	35	13	332
History and philosophy of science	343	9	0	0	0	0	0	0	6	0	3	232	27	23	4	75
Linguistics	1,431	85	1	1	8	7	1	0	45	0	30	864	25	14	11	457
Political science and public administration	12,152	317	14	8	16	10	6	3	60	0	216	4,424	353	256	97	7,058
Sociology	4,492	297	6	0	127	104	23	0	81	17	66	2,664	143	133	10	1,388
Sociology/anthropology	254	9	2	1	3	2	1	0	1	1	1	173	4	4		68
Other	7,080	243	3	2	34	24	10	0	22	3	179	2,818	220	162	58	3,799
Engineering	23,626	4,855	802	355	895	851	44	169	1,787	79	768	8,898	2,192	1,879	313	7,681
Aerospace	535	153	52	2	2	2	0	50	26	0	21	214	46	36	10	122
Agricultural	347	95	4	3	5	5	0	0	15	36	32	163	45	29	16	44
Architecture	2,302	18	2	2	1	1	0	0	2	0	11	911	77	64	13	1,296
Biomedical	2,374	840	44	14	547	534	13	7	158	2	68	823	245	221	24	466

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					Total	NIH	Other									
Chemical	2,091	661	47	88	109	96	13	7	308	15	87	858	297	250	47	275
Civil	3,537	560	57	27	15	12	3	20	217	14	210	1,530	277	234	43	1,170
Electrical	5,425	984	289	27	92	87	5	38	436	2	100	1,759	437	395	42	2,245
Engineering science/physics	351	111	15	17	18	18	0	4	50	0	7	125	20	14	6	95
Industrial/manufacturing	2,011	223	46	13	27	20	7	2	88	2	45	698	165	142	23	925
Mechanical	2,000	484	118	45	34	32	2	19	206	3	59	825	207	173	34	484
Metallurgical/materials	1,337	471	87	67	29	29	0	9	196	2	81	472	218	182	36	176
Mining	37	3	0	2	0	0	0	0	1	0	0	15	14	14	0	5
Nuclear	159	48	3	26	4	4	0	1	3	0	11	65	20	17	3	26
Petroleum	151	8	0	4	0	0	0	0	1	0	3	62	55	47	8	26
Other	969	196	38	18	12	11	1	12	80	3	33	378	69	61	8	326
Male, S&E	216,454	43,491	6,274	3,316	11,627	11,079	548	1,667	13,190	1,413	6,004	92,396	14,918	12,494	2,424	65,649
Science	141,825	27,607	2,304	1,834	9,738	9,280	458	811	8,133	1,193	3,594	66,086	7,555	6,289	1,266	40,577
Agricultural sciences	5,129	1,053	15	22	37	36	1	22	116	546	295	2,386	716	635	81	974
Biological sciences	26,638	9,044	188	79	6,847	6,634	213	24	963	350	593	11,483	1,779	1,581	198	4,332
Anatomy	365	131	0	0	97	94	3	1	8	1	24	126	26	23	3	82
Biochemistry	2,604	1,154	32	14	966	915	51	1	100	8	33	1,066	203	193	10	181
Biology	5,592	1,103	29	5	620	595	25	6	295	29	119	3,204	282	246	36	1,003
Biometry/epidemiology	1,710	523	3	5	473	452	21	0	16	4	22	475	75	66	9	637
Biophysics	669	314	3	6	260	257	3	1	33	1	10	262	30	25	5	63
Botany	755	209	4	13	16	11	5	0	82	77	17	402	76	70	6	68
Cell biology	2,997	1,275	30	9	1,079	1,049	30	3	67	13	74	1,213	210	185	25	299
Ecology	722	139	2	2	1	0	1	2	72	12	48	464	53	42	11	66
Entomology/parasitology	482	117	3	1	17	16	1	0	19	62	15	265	53	52	1	47
Genetics	816	391	8	3	303	301	2	0	44	17	16	297	69	59	10	59
Microbiology, immunology, and virology	1,996	990	21	11	872	866	6	1	35	17	33	737	152	132	20	117
Nutrition	727	131	2	0	42	40	2	0	6	72	9	280	62	54	8	254
Pathology	533	238	4	0	202	200	2	3	7	13	9	172	54	45	9	69
Pharmacology	1,208	626	17	0	556	543	13	0	10	4	39	394	114	100	14	74
Physiology	1,241	414	10	1	374	354	20	1	11	1	16	432	68	60	8	327
Zoology	357	88	6	0	8	7	1	0	45	7	22	228	17	16	1	24
Other	3,864	1,201	14	9	961	934	27	5	113	12	87	1,466	235	213	22	962
Communication	1,949	39	5	1	5	5	0	0	11	1	16	1,071	156	149	7	683
Computer sciences	23,746	4,054	1,033	123	280	244	36	64	2,149	6	399	7,566	1,041	871	170	11,085
Earth, atmospheric, and ocean sciences	5,978	1,651	73	95	14	11	3	232	762	42	433	2,695	531	450	81	1,101
Atmospheric	780	368	24	33	1	1	0	94	144	6	66	231	85	72	13	96
Earth	3,060	667	18	48	3	3	0	83	394	13	108	1,656	263	230	33	474
Ocean	974	409	27	9	4	4	0	21	161	8	179	375	77	62	15	113
Other	1,164	207	4	5	6	3	3	34	63	15	80	433	106	86	20	418
Family and consumer science/human science	325	17	2	0	6	5	1	0	3	4	2	158	20	19	1	130
Mathematics and statistics	10,732	1,118	135	36	93	83	10	7	685	9	153	7,270	281	206	75	2,063
Mathematics/applied mathematics	8,681	899	121	33	33	32	1	7	572	1	132	6,136	194	130	64	1,452
Statistics	2,051	219	14	3	60	51	9	0	113	8	21	1,134	87	76	11	611

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		Total	DOD	DOE	HHS			NASA	NSF	USDA	Other		Total	United States	Foreign	Self-support
					Total	NIH	Other									
Multidisciplinary/interdisciplinary studies	1,335	181	13	6	20	18	2	3	66	7	66	600	58	44	14	496
Neuroscience	868	484	4	0	448	440	8	1	21	0	10	292	45	43	2	47
Physical sciences	22,378	7,388	657	1,449	1,407	1,315	92	411	2,796	36	632	12,244	1,341	1,178	163	1,405
Astronomy	836	336	4	52	2	2		139	116		23	384	87	85	2	29
Chemistry	11,215	3,341	291	365	1,208	1,141	67	35	1,177	27	238	6,412	727	639	88	735
Physics	10,113	3,681	356	1,031	196	171	25	226	1,496	9	367	5,346	514	443	71	572
Other	214	30	6	1	1	1		11	7	0	4	102	13	11	2	69
Psychology	10,509	954	53	4	435	373	62	4	127	0	331	4,150	341	312	29	5,064
Clinical	2,336	137	13	0	70	63	7	0	3	0	51	593	75	68	7	1,531
General	3,643	412	20	1	241	201	40	3	71	0	76	1,867	130	120	10	1,234
Nonclinical	4,530	405	20	3	124	109	15	1	53	0	204	1,690	136	124	12	2,299
Social sciences	32,238	1,624	126	19	146	116	30	43	434	192	664	16,171	1,246	801	445	13,197
Agricultural economics	1,062	200	4	7	4	2	2	0	10	120	55	494	81	58	23	287
Anthropology (cultural and social)	2,347	140	1	0	10	9	1	0	66		63	1,360	97	78	19	750
Economics	6,657	263	18	1	35	33	2	0	81	38	90	4,046	329	164	165	2,019
Geography	1,866	239	8	4	9	7	2	43	83	14	78	1,060	42	34	8	525
History and philosophy of science	455	16	1	0	1	1	0	0	5	3	6	305	28	13	15	106
Linguistics	897	65	0	0	3	3	0	0	43	0	19	584	13	5	8	235
Political science and public administration	11,488	331	72	3	10	6	4	0	61	4	181	4,799	371	229	142	5,987
Sociology	2,618	158	5	0	54	46	8	0	46	10	43	1,637	85	80	5	738
Sociology/anthropology	139	6	1	1	0	0	0	0	1	1	2	89	1		1	43
Other	4,709	206	16	3	20	9	11	0	38	2	127	1,797	199	140	59	2,507
Engineering	74,629	15,884	3,970	1,482	1,889	1,799	90	856	5,057	220	2,410	26,310	7,363	6,205	1,158	25,072
Aerospace	3,156	1,083	457	45	10	9	1	332	114	0	125	1,019	219	154	65	835
Agricultural	675	184	13	9	5	4	1	4	18	83	52	329	84	67	17	78
Architecture	2,909	23	3	3	2	1	1	0	5	3	7	1,044	86	70	16	1,756
Biomedical	3,888	1,390	78	28	995	966	29	7	194	3	85	1,354	388	351	37	756
Chemical	4,671	1,383	115	286	193	171	22	23	552	45	169	1,917	712	613	99	659
Civil	8,372	1,170	132	46	25	22	3	55	329	31	552	3,753	736	604	132	2,713
Electrical	23,787	4,921	1,686	159	326	307	19	171	2,056	12	511	7,255	2,075	1,843	232	9,536
Engineering science/physics	1,135	344	80	67	33	33	0	12	118	5	29	438	89	71	18	264
Industrial/manufacturing	6,205	653	205	60	51	48	3	23	201	5	108	1,912	510	420	90	3,130
Mechanical	11,763	2,687	734	326	159	151	8	174	865	12	417	4,446	1,280	1,032	248	3,350
Metallurgical/materials	3,474	1,219	301	220	46	46	0	24	449	9	170	1,229	543	451	92	483
Mining	170	21	0	10	4	3	1	0	1	0	6	60	54	54	0	35
Nuclear	782	287	43	156	5	5	0	6	14	0	63	280	107	83	24	108
Petroleum	677	20	0	11	0	0	0	0	2	1	6	202	294	235	59	161
Other	2,965	499	123	56	35	33	2	25	139	11	110	1,072	186	157	29	1,208

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, 2008.