

TABLE 3-1

Primary source of support for full-time graduate students in science, engineering, and health, by broad field: 2020

(Number and percent)

Broad field	Total	Federal		Institutional		Nonfederal domestic		Foreign		Self-support	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
All graduate students	491,515	76,218	15.5	200,422	40.8	18,380	3.7	3,824	0.8	192,671	39.2
Science	330,541	48,717	14.7	145,648	44.1	10,357	3.1	1,922	0.6	123,897	37.5
Agricultural and veterinary sciences	7,271	1,437	19.8	3,671	50.5	794	10.9	63	0.9	1,306	18.0
Biological and biomedical sciences	77,580	19,427	25.0	34,170	44.0	3,226	4.2	450	0.6	20,307	26.2
Computer and information sciences	55,402	5,589	10.1	15,688	28.3	1,415	2.6	352	0.6	32,358	58.4
Geosciences, atmospheric sciences, and ocean sciences	9,456	2,528	26.7	5,022	53.1	422	4.5	88	0.9	1,396	14.8
Mathematics and statistics	24,041	1,585	6.6	12,597	52.4	373	1.6	129	0.5	9,357	38.9
Multidisciplinary and interdisciplinary studies	9,039	548	6.1	2,881	31.9	202	2.2	44	0.5	5,364	59.3
Natural resources and conservation	8,448	1,315	15.6	3,500	41.4	397	4.7	70	0.8	3,166	37.5
Physical sciences	37,638	10,792	28.7	21,942	58.3	1,535	4.1	288	0.8	3,081	8.2
Psychology	46,168	2,716	5.9	14,701	31.8	775	1.7	94	0.2	27,882	60.4
Social sciences	55,498	2,780	5.0	31,476	56.7	1,218	2.2	344	0.6	19,680	35.5
Engineering	111,240	24,114	21.7	41,810	37.6	6,886	6.2	1,636	1.5	36,794	33.1
Aerospace, aeronautical, and astronautical engineering	4,599	1,230	26.7	1,617	35.2	260	5.7	136	3.0	1,356	29.5
Biological, biomedical, and biosystems engineering	11,075	3,016	27.2	4,618	41.7	690	6.2	74	0.7	2,677	24.2
Chemical, petroleum, and chemical-related engineering	9,030	2,533	28.1	3,936	43.6	900	10.0	152	1.7	1,509	16.7
Civil, environmental, transportation and related engineering fields	12,861	2,040	15.9	5,746	44.7	711	5.5	239	1.9	4,125	32.1
Electrical, electronics, communications and computer engineering	30,503	5,974	19.6	9,941	32.6	1,665	5.5	407	1.3	12,516	41.0
Industrial, manufacturing, systems engineering and operations research	7,728	1,095	14.2	2,456	31.8	325	4.2	83	1.1	3,769	48.8
Mechanical engineering	18,680	4,283	22.9	7,296	39.1	1,137	6.1	321	1.7	5,643	30.2
Metallurgical, mining, materials and related engineering fields	6,063	1,716	28.3	2,258	37.2	468	7.7	115	1.9	1,506	24.8
Other engineering	10,701	2,227	20.8	3,942	36.8	730	6.8	109	1.0	3,693	34.5
Health	49,734	3,387	6.8	12,964	26.1	1,137	2.3	266	0.5	31,980	64.3
Clinical medicine ^a	20,528	1,410	6.9	4,737	23.1	506	2.5	59	0.3	13,816	67.3
Other health	29,206	1,977	6.8	8,227	28.2	631	2.2	207	0.7	18,164	62.2
Master's students	243,859	12,459	5.1	56,781	23.3	4,498	1.8	1,022	0.4	169,099	69.3
Science	155,502	7,083	4.6	37,624	24.2	2,391	1.5	562	0.4	107,842	69.4
Agricultural and veterinary sciences	3,731	590	15.8	1,750	46.9	393	10.5	24	0.6	974	26.1
Biological and biomedical sciences	26,473	1,286	4.9	6,669	25.2	349	1.3	107	0.4	18,062	68.2
Computer and information sciences	39,929	1,242	3.1	7,493	18.8	407	1.0	138	0.3	30,649	76.8
Geosciences, atmospheric sciences, and ocean sciences	3,649	639	17.5	1,889	51.8	111	3.0	31	0.8	979	26.8
Mathematics and statistics	11,622	182	1.6	2,780	23.9	136	1.2	26	0.2	8,498	73.1
Multidisciplinary and interdisciplinary studies	6,169	138	2.2	1,061	17.2	75	1.2	11	0.2	4,884	79.2
Natural resources and conservation	5,536	653	11.8	1,874	33.9	190	3.4	31	0.6	2,788	50.4
Physical sciences	3,686	332	9.0	1,628	44.2	80	2.2	40	1.1	1,606	43.6
Psychology	28,716	781	2.7	4,117	14.3	164	0.6	45	0.2	23,609	82.2

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		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Social sciences	25,991	1,240	4.8	8,363	32.2	486	1.9	109	0.4	15,793	60.8
Engineering	49,179	3,949	8.0	11,642	23.7	1,516	3.1	336	0.7	31,736	64.5
Aerospace, aeronautical, and astronautical engineering	2,298	362	15.8	653	28.4	85	3.7	14	0.6	1,184	51.5
Biological, biomedical, and biosystems engineering	3,416	184	5.4	791	23.2	79	2.3	13	0.4	2,349	68.8
Chemical, petroleum, and chemical-related engineering	1,898	97	5.1	514	27.1	102	5.4	17	0.9	1,168	61.5
Civil, environmental, transportation and related engineering fields	6,487	506	7.8	2,274	35.1	207	3.2	63	1.0	3,437	53.0
Electrical, electronics, communications and computer engineering	15,329	913	6.0	2,839	18.5	278	1.8	90	0.6	11,209	73.1
Industrial, manufacturing, systems engineering and operations research	4,820	484	10.0	783	16.2	132	2.7	41	0.9	3,380	70.1
Mechanical engineering	8,461	866	10.2	2,318	27.4	334	3.9	61	0.7	4,882	57.7
Metallurgical, mining, materials and related engineering fields	1,566	161	10.3	368	23.5	68	4.3	12	0.8	957	61.1
Other engineering	4,904	376	7.7	1,102	22.5	231	4.7	25	0.5	3,170	64.6
Health	39,178	1,427	3.6	7,515	19.2	591	1.5	124	0.3	29,521	75.4
Clinical medicine ^a	17,186	715	4.2	3,160	18.4	295	1.7	16	0.1	13,000	75.6
Other health	21,992	712	3.2	4,355	19.8	296	1.3	108	0.5	16,521	75.1
Doctoral students	247,656	63,759	25.7	143,641	58.0	13,882	5.6	2,802	1.1	23,572	9.5
Science	175,039	41,634	23.8	108,024	61.7	7,966	4.6	1,360	0.8	16,055	9.2
Agricultural and veterinary sciences	3,540	847	23.9	1,921	54.3	401	11.3	39	1.1	332	9.4
Biological and biomedical sciences	51,107	18,141	35.5	27,501	53.8	2,877	5.6	343	0.7	2,245	4.4
Computer and information sciences	15,473	4,347	28.1	8,195	53.0	1,008	6.5	214	1.4	1,709	11.0
Geosciences, atmospheric sciences, and ocean sciences	5,807	1,889	32.5	3,133	54.0	311	5.4	57	1.0	417	7.2
Mathematics and statistics	12,419	1,403	11.3	9,817	79.0	237	1.9	103	0.8	859	6.9
Multidisciplinary and interdisciplinary studies	2,870	410	14.3	1,820	63.4	127	4.4	33	1.1	480	16.7
Natural resources and conservation	2,912	662	22.7	1,626	55.8	207	7.1	39	1.3	378	13.0
Physical sciences	33,952	10,460	30.8	20,314	59.8	1,455	4.3	248	0.7	1,475	4.3
Psychology	17,452	1,935	11.1	10,584	60.6	611	3.5	49	0.3	4,273	24.5
Social sciences	29,507	1,540	5.2	23,113	78.3	732	2.5	235	0.8	3,887	13.2
Engineering	62,061	20,165	32.5	30,168	48.6	5,370	8.7	1,300	2.1	5,058	8.2
Aerospace, aeronautical, and astronautical engineering	2,301	868	37.7	964	41.9	175	7.6	122	5.3	172	7.5
Biological, biomedical, and biosystems engineering	7,659	2,832	37.0	3,827	50.0	611	8.0	61	0.8	328	4.3
Chemical, petroleum, and chemical-related engineering	7,132	2,436	34.2	3,422	48.0	798	11.2	135	1.9	341	4.8
Civil, environmental, transportation and related engineering fields	6,374	1,534	24.1	3,472	54.5	504	7.9	176	2.8	688	10.8
Electrical, electronics, communications and computer engineering	15,174	5,061	33.4	7,102	46.8	1,387	9.1	317	2.1	1,307	8.6

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Industrial, manufacturing, systems engineering and operations research	2,908	611	21.0	1,673	57.5	193	6.6	42	1.4	389	13.4
Mechanical engineering	10,219	3,417	33.4	4,978	48.7	803	7.9	260	2.5	761	7.4
Metallurgical, mining, materials and related engineering fields	4,497	1,555	34.6	1,890	42.0	400	8.9	103	2.3	549	12.2
Other engineering	5,797	1,851	31.9	2,840	49.0	499	8.6	84	1.4	523	9.0
Health	10,556	1,960	18.6	5,449	51.6	546	5.2	142	1.3	2,459	23.3
Clinical medicine ^a	3,342	695	20.8	1,577	47.2	211	6.3	43	1.3	816	24.4
Other health	7,214	1,265	17.5	3,872	53.7	335	4.6	99	1.4	1,643	22.8

^a Clinical medicine includes graduate students in public health and in medical clinical sciences and clinical and medical laboratory sciences.

Note(s):

Percentages may not add to total because of rounding. For more information on the mapping of Survey of Graduate Students and Postdoctorates in Science and Engineering fields and codes, see technical table A-17.

Source(s):

National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2020.