

TABLE 3-1

Primary source of support for full-time graduate students in science, engineering, and health, by broad field: 2021

(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	543,823	82,588	15.2	212,869	39.1	19,015	3.5	3,581	0.7	225,770	41.5
Science	366,207	52,801	14.4	153,947	42.0	10,877	3.0	1,811	0.5	146,771	40.1
Agricultural and veterinary sciences	7,754	1,755	22.6	3,744	48.3	791	10.2	64	0.8	1,400	18.1
Biological and biomedical sciences	82,218	20,832	25.3	36,255	44.1	3,519	4.3	375	0.5	21,237	25.8
Computer and information sciences	75,637	6,180	8.2	19,540	25.8	1,510	2.0	356	0.5	48,051	63.5
Geosciences, atmospheric sciences, and ocean sciences	9,863	2,651	26.9	5,270	53.4	503	5.1	98	1.0	1,341	13.6
Mathematics and statistics	26,522	1,605	6.1	12,787	48.2	338	1.3	105	0.4	11,687	44.1
Multidisciplinary and interdisciplinary studies	9,650	760	7.9	3,224	33.4	228	2.4	37	0.4	5,401	56.0
Natural resources and conservation	9,476	1,531	16.2	3,850	40.6	458	4.8	57	0.6	3,580	37.8
Physical sciences	38,847	11,216	28.9	22,660	58.3	1,540	4.0	245	0.6	3,186	8.2
Psychology	47,699	3,033	6.4	15,047	31.5	696	1.5	63	0.1	28,860	60.5
Social sciences	58,541	3,238	5.5	31,570	53.9	1,294	2.2	411	0.7	22,028	37.6
Engineering	122,853	25,302	20.6	44,890	36.5	6,841	5.6	1,483	1.2	44,337	36.1
Aerospace, aeronautical, and astronautical engineering	5,161	1,291	25.0	1,812	35.1	287	5.6	122	2.4	1,649	32.0
Biological, biomedical, and biosystems engineering	12,066	3,281	27.2	4,977	41.2	599	5.0	63	0.5	3,146	26.1
Chemical, petroleum, and chemical-related engineering	9,416	2,589	27.5	4,149	44.1	939	10.0	148	1.6	1,591	16.9
Civil, environmental, transportation and related engineering fields	14,218	2,350	16.5	6,113	43.0	754	5.3	224	1.6	4,777	33.6
Electrical, electronics, communications and computer engineering	33,744	5,987	17.7	10,498	31.1	1,537	4.6	327	1.0	15,395	45.6
Industrial, manufacturing, systems engineering and operations research	9,338	1,206	12.9	2,805	30.0	320	3.4	83	0.9	4,924	52.7
Mechanical engineering	20,236	4,255	21.0	7,806	38.6	1,115	5.5	315	1.6	6,745	33.3
Metallurgical, mining, materials and related engineering fields	6,171	1,884	30.5	2,384	38.6	446	7.2	110	1.8	1,347	21.8
Other engineering	12,503	2,459	19.7	4,346	34.8	844	6.8	91	0.7	4,763	38.1
Health	54,763	4,485	8.2	14,032	25.6	1,297	2.4	287	0.5	34,662	63.3
Clinical medicine ^a	23,888	1,918	8.0	5,416	22.7	647	2.7	66	0.3	15,841	66.3
Other health	30,875	2,567	8.3	8,616	27.9	650	2.1	221	0.7	18,821	61.0
Master's students	286,954	14,918	5.2	63,468	22.1	4,908	1.7	1,001	0.3	202,659	70.6
Science	184,719	8,608	4.7	41,725	22.6	2,704	1.5	534	0.3	131,148	71.0
Agricultural and veterinary sciences	4,034	766	19.0	1,723	42.7	400	9.9	28	0.7	1,117	27.7
Biological and biomedical sciences	27,949	1,577	5.6	6,707	24.0	459	1.6	68	0.2	19,138	68.5
Computer and information sciences	58,913	1,602	2.7	10,378	17.6	484	0.8	128	0.2	46,321	78.6
Geosciences, atmospheric sciences, and ocean sciences	3,731	704	18.9	1,891	50.7	119	3.2	28	0.8	989	26.5
Mathematics and statistics	14,157	220	1.6	2,888	20.4	119	0.8	24	0.2	10,906	77.0
Multidisciplinary and interdisciplinary studies	6,602	271	4.1	1,290	19.5	110	1.7	19	0.3	4,912	74.4
Natural resources and conservation	6,343	749	11.8	2,104	33.2	253	4.0	28	0.4	3,209	50.6
Physical sciences	3,834	336	8.8	1,608	41.9	95	2.5	29	0.8	1,766	46.1
Psychology	30,052	994	3.3	4,380	14.6	153	0.5	14	*	24,511	81.6

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		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Social sciences	29,104	1,389	4.8	8,756	30.1	512	1.8	168	0.6	18,279	62.8
Engineering	58,790	4,044	6.9	13,313	22.6	1,567	2.7	324	0.6	39,542	67.3
Aerospace, aeronautical, and astronautical engineering	2,755	412	15.0	753	27.3	115	4.2	20	0.7	1,455	52.8
Biological, biomedical, and biosystems engineering	3,900	194	5.0	912	23.4	80	2.1	6	0.2	2,708	69.4
Chemical, petroleum, and chemical-related engineering	2,053	95	4.6	534	26.0	124	6.0	24	1.2	1,276	62.2
Civil, environmental, transportation and related engineering fields	7,426	567	7.6	2,455	33.1	212	2.9	64	0.9	4,128	55.6
Electrical, electronics, communications and computer engineering	18,540	836	4.5	3,244	17.5	271	1.5	49	0.3	14,140	76.3
Industrial, manufacturing, systems engineering and operations research	6,307	544	8.6	1,067	16.9	110	1.7	46	0.7	4,540	72.0
Mechanical engineering	9,930	793	8.0	2,693	27.1	348	3.5	58	0.6	6,038	60.8
Metallurgical, mining, materials and related engineering fields	1,662	178	10.7	385	23.2	73	4.4	27	1.6	999	60.1
Other engineering	6,217	425	6.8	1,270	20.4	234	3.8	30	0.5	4,258	68.5
Health	43,445	2,266	5.2	8,430	19.4	637	1.5	143	0.3	31,969	73.6
Clinical medicine ^a	20,189	1,147	5.7	3,735	18.5	353	1.7	37	0.2	14,917	73.9
Other health	23,256	1,119	4.8	4,695	20.2	284	1.2	106	0.5	17,052	73.3
Doctoral students	256,869	67,670	26.3	149,401	58.2	14,107	5.5	2,580	1.0	23,111	9.0
Science	181,488	44,193	24.4	112,222	61.8	8,173	4.5	1,277	0.7	15,623	8.6
Agricultural and veterinary sciences	3,720	989	26.6	2,021	54.3	391	10.5	36	1.0	283	7.6
Biological and biomedical sciences	54,269	19,255	35.5	29,548	54.4	3,060	5.6	307	0.6	2,099	3.9
Computer and information sciences	16,724	4,578	27.4	9,162	54.8	1,026	6.1	228	1.4	1,730	10.3
Geosciences, atmospheric sciences, and ocean sciences	6,132	1,947	31.8	3,379	55.1	384	6.3	70	1.1	352	5.7
Mathematics and statistics	12,365	1,385	11.2	9,899	80.1	219	1.8	81	0.7	781	6.3
Multidisciplinary and interdisciplinary studies	3,048	489	16.0	1,934	63.5	118	3.9	18	0.6	489	16.0
Natural resources and conservation	3,133	782	25.0	1,746	55.7	205	6.5	29	0.9	371	11.8
Physical sciences	35,013	10,880	31.1	21,052	60.1	1,445	4.1	216	0.6	1,420	4.1
Psychology	17,647	2,039	11.6	10,667	60.4	543	3.1	49	0.3	4,349	24.6
Social sciences	29,437	1,849	6.3	22,814	77.5	782	2.7	243	0.8	3,749	12.7
Engineering	64,063	21,258	33.2	31,577	49.3	5,274	8.2	1,159	1.8	4,795	7.5
Aerospace, aeronautical, and astronautical engineering	2,406	879	36.5	1,059	44.0	172	7.1	102	4.2	194	8.1
Biological, biomedical, and biosystems engineering	8,166	3,087	37.8	4,065	49.8	519	6.4	57	0.7	438	5.4
Chemical, petroleum, and chemical-related engineering	7,363	2,494	33.9	3,615	49.1	815	11.1	124	1.7	315	4.3
Civil, environmental, transportation and related engineering fields	6,792	1,783	26.3	3,658	53.9	542	8.0	160	2.4	649	9.6
Electrical, electronics, communications and computer engineering	15,204	5,151	33.9	7,254	47.7	1,266	8.3	278	1.8	1,255	8.3

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		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Industrial, manufacturing, systems engineering and operations research	3,031	662	21.8	1,738	57.3	210	6.9	37	1.2	384	12.7
Mechanical engineering	10,306	3,462	33.6	5,113	49.6	767	7.4	257	2.5	707	6.9
Metallurgical, mining, materials and related engineering fields	4,509	1,706	37.8	1,999	44.3	373	8.3	83	1.8	348	7.7
Other engineering	6,286	2,034	32.4	3,076	48.9	610	9.7	61	1.0	505	8.0
Health	11,318	2,219	19.6	5,602	49.5	660	5.8	144	1.3	2,693	23.8
Clinical medicine ^a	3,699	771	20.8	1,681	45.4	294	7.9	29	0.8	924	25.0
Other health	7,619	1,448	19.0	3,921	51.5	366	4.8	115	1.5	1,769	23.2

* = value < 0.05%.

^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, 2021.