

Table 3-1. Primary source of support for full-time graduate students in science, engineering, and health, by broad field: 2024

(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	596,638	83,962	14.1	242,786	40.7	21,419	3.6	3,376	0.6	245,095	41.1
Science	411,924	53,783	13.1	176,325	42.8	12,089	2.9	1,924	0.5	167,803	40.7
Agricultural and veterinary sciences	8,784	2,087	23.8	4,155	47.3	1,009	11.5	61	0.7	1,472	16.8
Biological and biomedical sciences	89,780	21,559	24.0	41,189	45.9	3,919	4.4	431	0.5	22,682	25.3
Computer and information sciences	103,833	6,488	6.2	28,995	27.9	1,908	1.8	458	0.4	65,984	63.5
Geosciences, atmospheric, and ocean sciences	9,735	2,693	27.7	5,364	55.1	460	4.7	93	1.0	1,125	11.6
Mathematics and statistics	26,987	1,542	5.7	14,352	53.2	356	1.3	146	0.5	10,591	39.2
Multidisciplinary and interdisciplinary sciences	20,864	891	4.3	6,670	32.0	369	1.8	90	0.4	12,844	61.6
Natural resources and conservation	9,019	1,662	18.4	4,460	49.5	351	3.9	39	0.4	2,507	27.8
Physical sciences	40,715	10,625	26.1	25,089	61.6	1,755	4.3	261	0.6	2,985	7.3
Psychology	48,011	3,264	6.8	15,804	32.9	751	1.6	55	0.1	28,137	58.6
Social sciences	54,196	2,972	5.5	30,247	55.8	1,211	2.2	290	0.5	19,476	35.9
Engineering	131,600	25,762	19.6	51,371	39.0	8,079	6.1	1,216	0.9	45,172	34.3
Aerospace, aeronautical, and astronautical engineering	5,661	1,375	24.3	2,196	38.8	376	6.6	121	2.1	1,593	28.1
Biological, biomedical, and biosystems engineering	13,942	3,585	25.7	6,035	43.3	1,098	7.9	52	0.4	3,172	22.8
Chemical, petroleum, and chemical-related engineering	9,403	2,571	27.3	4,288	45.6	1,113	11.8	104	1.1	1,327	14.1
Civil, environmental, transportation and related engineering fields	14,307	2,439	17.0	6,566	45.9	737	5.2	146	1.0	4,419	30.9
Electrical, electronics, communications and computer engineering	37,243	5,754	15.4	13,014	34.9	1,628	4.4	237	0.6	16,610	44.6
Industrial, manufacturing, systems engineering and operations research	9,268	1,183	12.8	3,140	33.9	342	3.7	59	0.6	4,544	49.0
Mechanical engineering	20,443	4,373	21.4	8,432	41.2	1,224	6.0	300	1.5	6,114	29.9
Metallurgical, mining, materials and related engineering fields	6,053	1,891	31.2	2,386	39.4	682	11.3	74	1.2	1,020	16.9
Other engineering	15,280	2,591	17.0	5,314	34.8	879	5.8	123	0.8	6,373	41.7
Health	53,114	4,417	8.3	15,090	28.4	1,251	2.4	236	0.4	32,120	60.5
Clinical medicine ^a	19,675	1,965	10.0	5,717	29.1	561	2.9	88	0.4	11,344	57.7
Other health	33,439	2,452	7.3	9,373	28.0	690	2.1	148	0.4	20,776	62.1
Master's students	322,037	16,026	5.0	77,974	24.2	6,013	1.9	1,010	0.3	221,014	68.6
Science	217,779	9,516	4.4	52,760	24.2	3,498	1.6	603	0.3	151,402	69.5
Agricultural and veterinary sciences	4,425	755	17.1	1,930	43.6	495	11.2	15	0.3	1,230	27.8
Biological and biomedical sciences	31,105	1,893	6.1	8,262	26.6	551	1.8	119	0.4	20,280	65.2
Computer and information sciences	83,229	1,843	2.2	16,382	19.7	919	1.1	181	0.2	63,904	76.8
Geosciences, atmospheric, and ocean sciences	3,469	653	18.8	1,829	52.7	132	3.8	23	0.7	832	24.0
Mathematics and statistics	14,052	225	1.6	3,768	26.8	123	0.9	43	0.3	9,893	70.4
Multidisciplinary and interdisciplinary sciences	16,502	316	1.9	3,567	21.6	177	1.1	51	0.3	12,391	75.1
Natural resources and conservation	5,558	772	13.9	2,428	43.7	181	3.3	17	0.3	2,160	38.9
Physical sciences	3,644	320	8.8	1,528	41.9	73	2.0	19	0.5	1,704	46.8
Psychology	29,458	1,245	4.2	5,081	17.2	272	0.9	14	*	22,846	77.6
Social sciences	26,337	1,494	5.7	7,985	30.3	575	2.2	121	0.5	16,162	61.4

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Broad field	Total	Federal		Institutional		Nonfederal domestic		Foreign		Self-support	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Engineering	63,860	4,263	6.7	16,415	25.7	1,815	2.8	313	0.5	41,054	64.3
Aerospace, aeronautical, and astronautical engineering	2,993	435	14.5	977	32.6	180	6.0	33	1.1	1,368	45.7
Biological, biomedical, and biosystems engineering	4,293	255	5.9	1,143	26.6	78	1.8	6	0.1	2,811	65.5
Chemical, petroleum, and chemical-related engineering	1,838	122	6.6	502	27.3	112	6.1	11	0.6	1,091	59.4
Civil, environmental, transportation and related engineering fields	7,336	570	7.8	2,555	34.8	215	2.9	62	0.8	3,934	53.6
Electrical, electronics, communications and computer engineering	21,690	899	4.1	4,922	22.7	336	1.5	58	0.3	15,475	71.3
Industrial, manufacturing, systems engineering and operations research	6,093	468	7.7	1,286	21.1	98	1.6	39	0.6	4,202	69.0
Mechanical engineering	9,748	882	9.0	2,978	30.5	325	3.3	61	0.6	5,502	56.4
Metallurgical, mining, materials and related engineering fields	1,552	206	13.3	414	26.7	138	8.9	5	0.3	789	50.8
Other engineering	8,317	426	5.1	1,638	19.7	333	4.0	38	0.5	5,882	70.7
Health	40,398	2,247	5.6	8,799	21.8	700	1.7	94	0.2	28,558	70.7
Clinical medicine ^a	15,867	1,207	7.6	3,729	23.5	368	2.3	45	0.3	10,518	66.3
Other health	24,531	1,040	4.2	5,070	20.7	332	1.4	49	0.2	18,040	73.5
Doctoral students	274,601	67,936	24.7	164,812	60.0	15,406	5.6	2,366	0.9	24,081	8.8
Science	194,145	44,267	22.8	123,565	63.6	8,591	4.4	1,321	0.7	16,401	8.4
Agricultural and veterinary sciences	4,359	1,332	30.6	2,225	51.0	514	11.8	46	1.1	242	5.6
Biological and biomedical sciences	58,675	19,666	33.5	32,927	56.1	3,368	5.7	312	0.5	2,402	4.1
Computer and information sciences	20,604	4,645	22.5	12,613	61.2	989	4.8	277	1.3	2,080	10.1
Geosciences, atmospheric, and ocean sciences	6,266	2,040	32.6	3,535	56.4	328	5.2	70	1.1	293	4.7
Mathematics and statistics	12,935	1,317	10.2	10,584	81.8	233	1.8	103	0.8	698	5.4
Multidisciplinary and interdisciplinary sciences	4,362	575	13.2	3,103	71.1	192	4.4	39	0.9	453	10.4
Natural resources and conservation	3,461	890	25.7	2,032	58.7	170	4.9	22	0.6	347	10.0
Physical sciences	37,071	10,305	27.8	23,561	63.6	1,682	4.5	242	0.7	1,281	3.5
Psychology	18,553	2,019	10.9	10,723	57.8	479	2.6	41	0.2	5,291	28.5
Social sciences	27,859	1,478	5.3	22,262	79.9	636	2.3	169	0.6	3,314	11.9
Engineering	67,740	21,499	31.7	34,956	51.6	6,264	9.2	903	1.3	4,118	6.1
Aerospace, aeronautical, and astronautical engineering	2,668	940	35.2	1,219	45.7	196	7.3	88	3.3	225	8.4
Biological, biomedical, and biosystems engineering	9,649	3,330	34.5	4,892	50.7	1,020	10.6	46	0.5	361	3.7
Chemical, petroleum, and chemical-related engineering	7,565	2,449	32.4	3,786	50.0	1,001	13.2	93	1.2	236	3.1
Civil, environmental, transportation and related engineering fields	6,971	1,869	26.8	4,011	57.5	522	7.5	84	1.2	485	7.0
Electrical, electronics, communications and computer engineering	15,553	4,855	31.2	8,092	52.0	1,292	8.3	179	1.2	1,135	7.3
Industrial, manufacturing, systems engineering and operations research	3,175	715	22.5	1,854	58.4	244	7.7	20	0.6	342	10.8
Mechanical engineering	10,695	3,491	32.6	5,454	51.0	899	8.4	239	2.2	612	5.7
Metallurgical, mining, materials and related engineering fields	4,501	1,685	37.4	1,972	43.8	544	12.1	69	1.5	231	5.1
Other engineering	6,963	2,165	31.1	3,676	52.8	546	7.8	85	1.2	491	7.1
Health	12,716	2,170	17.1	6,291	49.5	551	4.3	142	1.1	3,562	28.0
Clinical medicine ^a	3,808	758	19.9	1,988	52.2	193	5.1	43	1.1	826	21.7

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(Number and percent)

Broad field	Total	Federal		Institutional		Nonfederal domestic		Foreign		Self-support	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Other health	8,908	1,412	15.9	4,303	48.3	358	4.0	99	1.1	2,736	30.7

* = 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 table A-6. Graduate student data in this table include master's students in health sciences. For more information on the comparability of these counts to other data published by the National Center for Science and Engineering Statistics, see the "Technical Notes."

Source(s):

National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2024.