

TABLE 3-1

Primary source of support for full-time graduate students in science, engineering, and health, by broad field: 2023

(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	598,588	82,764	13.8	235,491	39.3	22,852	3.8	3,394	0.6	254,087	42.4
Science	411,971	53,353	13.0	171,212	41.6	12,558	3.0	1,802	0.4	173,046	42.0
Agricultural and veterinary sciences	8,319	1,967	23.6	4,028	48.4	829	10.0	40	0.5	1,455	17.5
Biological and biomedical sciences	86,153	21,445	24.9	39,510	45.9	4,076	4.7	355	0.4	20,767	24.1
Computer and information sciences	113,633	6,387	5.6	28,332	24.9	2,388	2.1	466	0.4	76,060	66.9
Geosciences, atmospheric, and ocean sciences	9,519	2,607	27.4	5,199	54.6	458	4.8	99	1.0	1,156	12.1
Mathematics and statistics	26,832	1,633	6.1	13,820	51.5	448	1.7	123	0.5	10,808	40.3
Multidisciplinary and interdisciplinary sciences	17,187	1,002	5.8	5,438	31.6	363	2.1	64	0.4	10,320	60.0
Natural resources and conservation	9,028	1,519	16.8	4,298	47.6	424	4.7	25	0.3	2,762	30.6
Physical sciences	39,475	10,449	26.5	24,345	61.7	1,684	4.3	221	0.6	2,776	7.0
Psychology	47,479	3,264	6.9	15,632	32.9	676	1.4	62	0.1	27,845	58.6
Social sciences	54,346	3,080	5.7	30,610	56.3	1,212	2.2	347	0.6	19,097	35.1
Engineering	131,607	25,054	19.0	49,397	37.5	8,836	6.7	1,292	1.0	47,028	35.7
Aerospace, aeronautical, and astronautical engineering	5,447	1,443	26.5	2,030	37.3	393	7.2	97	1.8	1,484	27.2
Biological, biomedical, and biosystems engineering	13,267	3,548	26.7	5,680	42.8	1,106	8.3	79	0.6	2,854	21.5
Chemical, petroleum, and chemical-related engineering	9,328	2,494	26.7	4,366	46.8	964	10.3	137	1.5	1,367	14.7
Civil, environmental, transportation and related engineering fields	14,930	2,349	15.7	6,575	44.0	733	4.9	149	1.0	5,124	34.3
Electrical, electronics, communications and computer engineering	37,357	5,607	15.0	11,976	32.1	2,178	5.8	317	0.8	17,279	46.3
Industrial, manufacturing, systems engineering and operations research	9,291	1,099	11.8	2,986	32.1	370	4.0	75	0.8	4,761	51.2
Mechanical engineering	20,323	4,254	20.9	8,173	40.2	1,420	7.0	252	1.2	6,224	30.6
Metallurgical, mining, materials and related engineering fields	5,990	1,785	29.8	2,404	40.1	641	10.7	67	1.1	1,093	18.2
Other engineering	15,674	2,475	15.8	5,207	33.2	1,031	6.6	119	0.8	6,842	43.7
Health	55,010	4,357	7.9	14,882	27.1	1,458	2.7	300	0.5	34,013	61.8
Clinical medicine ^a	20,426	1,947	9.5	5,489	26.9	583	2.9	99	0.5	12,308	60.3
Other health	34,584	2,410	7.0	9,393	27.2	875	2.5	201	0.6	21,705	62.8
Master's students	329,971	15,602	4.7	76,571	23.2	7,591	2.3	1,088	0.3	229,119	69.4
Science	222,976	9,485	4.3	52,238	23.4	4,151	1.9	624	0.3	156,478	70.2
Agricultural and veterinary sciences	4,186	734	17.5	1,844	44.1	400	9.6	13	0.3	1,195	28.5
Biological and biomedical sciences	29,180	1,928	6.6	7,549	25.9	932	3.2	90	0.3	18,681	64.0
Computer and information sciences	94,517	1,855	2.0	16,983	18.0	1,260	1.3	215	0.2	74,204	78.5
Geosciences, atmospheric, and ocean sciences	3,376	590	17.5	1,773	52.5	137	4.1	23	0.7	853	25.3
Mathematics and statistics	14,237	217	1.5	3,731	26.2	161	1.1	28	0.2	10,100	70.9
Multidisciplinary and interdisciplinary sciences	13,413	474	3.5	2,910	21.7	209	1.6	38	0.3	9,782	72.9
Natural resources and conservation	5,764	760	13.2	2,382	41.3	222	3.9	7	0.1	2,393	41.5
Physical sciences	3,471	319	9.2	1,508	43.4	74	2.1	21	0.6	1,549	44.6

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		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Psychology	28,571	1,139	4.0	5,064	17.7	195	0.7	23	0.1	22,150	77.5
Social sciences	26,261	1,469	5.6	8,494	32.3	561	2.1	166	0.6	15,571	59.3
Engineering	65,160	3,905	6.0	15,630	24.0	2,477	3.8	310	0.5	42,838	65.7
Aerospace, aeronautical, and astronautical engineering	2,883	444	15.4	969	33.6	148	5.1	22	0.8	1,300	45.1
Biological, biomedical, and biosystems engineering	3,961	183	4.6	1,161	29.3	98	2.5	10	0.3	2,509	63.3
Chemical, petroleum, and chemical-related engineering	1,827	102	5.6	520	28.5	98	5.4	9	0.5	1,098	60.1
Civil, environmental, transportation and related engineering fields	7,984	527	6.6	2,631	33.0	220	2.8	62	0.8	4,544	56.9
Electrical, electronics, communications and computer engineering	21,886	834	3.8	4,157	19.0	708	3.2	76	0.3	16,111	73.6
Industrial, manufacturing, systems engineering and operations research	6,287	426	6.8	1,196	19.0	168	2.7	41	0.7	4,456	70.9
Mechanical engineering	9,861	786	8.0	2,991	30.3	386	3.9	65	0.7	5,633	57.1
Metallurgical, mining, materials and related engineering fields	1,619	169	10.4	452	27.9	141	8.7	7	0.4	850	52.5
Other engineering	8,852	434	4.9	1,553	17.5	510	5.8	18	0.2	6,337	71.6
Health	41,835	2,212	5.3	8,703	20.8	963	2.3	154	0.4	29,803	71.2
Clinical medicine ^a	16,700	1,200	7.2	3,616	21.7	404	2.4	62	0.4	11,418	68.4
Other health	25,135	1,012	4.0	5,087	20.2	559	2.2	92	0.4	18,385	73.1
Doctoral students	268,617	67,162	25.0	158,920	59.2	15,261	5.7	2,306	0.9	24,968	9.3
Science	188,995	43,868	23.2	118,974	63.0	8,407	4.4	1,178	0.6	16,568	8.8
Agricultural and veterinary sciences	4,133	1,233	29.8	2,184	52.8	429	10.4	27	0.7	260	6.3
Biological and biomedical sciences	56,973	19,517	34.3	31,961	56.1	3,144	5.5	265	0.5	2,086	3.7
Computer and information sciences	19,116	4,532	23.7	11,349	59.4	1,128	5.9	251	1.3	1,856	9.7
Geosciences, atmospheric, and ocean sciences	6,143	2,017	32.8	3,426	55.8	321	5.2	76	1.2	303	4.9
Mathematics and statistics	12,595	1,416	11.2	10,089	80.1	287	2.3	95	0.8	708	5.6
Multidisciplinary and interdisciplinary sciences	3,774	528	14.0	2,528	67.0	154	4.1	26	0.7	538	14.3
Natural resources and conservation	3,264	759	23.3	1,916	58.7	202	6.2	18	0.6	369	11.3
Physical sciences	36,004	10,130	28.1	22,837	63.4	1,610	4.5	200	0.6	1,227	3.4
Psychology	18,908	2,125	11.2	10,568	55.9	481	2.5	39	0.2	5,695	30.1
Social sciences	28,085	1,611	5.7	22,116	78.7	651	2.3	181	0.6	3,526	12.6
Engineering	66,447	21,149	31.8	33,767	50.8	6,359	9.6	982	1.5	4,190	6.3
Aerospace, aeronautical, and astronautical engineering	2,564	999	39.0	1,061	41.4	245	9.6	75	2.9	184	7.2
Biological, biomedical, and biosystems engineering	9,306	3,365	36.2	4,519	48.6	1,008	10.8	69	0.7	345	3.7
Chemical, petroleum, and chemical-related engineering	7,501	2,392	31.9	3,846	51.3	866	11.5	128	1.7	269	3.6
Civil, environmental, transportation and related engineering fields	6,946	1,822	26.2	3,944	56.8	513	7.4	87	1.3	580	8.4
Electrical, electronics, communications and computer engineering	15,471	4,773	30.9	7,819	50.5	1,470	9.5	241	1.6	1,168	7.5
Industrial, manufacturing, systems engineering and operations research	3,004	673	22.4	1,790	59.6	202	6.7	34	1.1	305	10.2
Mechanical engineering	10,462	3,468	33.1	5,182	49.5	1,034	9.9	187	1.8	591	5.6

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Broad field	Total	Federal		Institutional		Nonfederal domestic		Foreign		Self-support	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Metallurgical, mining, materials and related engineering fields	4,371	1,616	37.0	1,952	44.7	500	11.4	60	1.4	243	5.6
Other engineering	6,822	2,041	29.9	3,654	53.6	521	7.6	101	1.5	505	7.4
Health	13,175	2,145	16.3	6,179	46.9	495	3.8	146	1.1	4,210	32.0
Clinical medicine ^a	3,726	747	20.0	1,873	50.3	179	4.8	37	1.0	890	23.9
Other health	9,449	1,398	14.8	4,306	45.6	316	3.3	109	1.2	3,320	35.1

^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. 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, 2023.