

TABLE 3-1

Primary source of support for full-time graduate students in science, engineering, and health, by broad field: 2022

(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	579,301	81,773	14.1	229,892	39.7	20,206	3.5	3,131	0.5	244,299	42.2
Science	392,192	52,774	13.5	164,710	42.0	11,590	3.0	1,701	0.4	161,417	41.2
Agricultural and veterinary sciences	8,035	1,907	23.7	3,941	49.0	813	10.1	50	0.6	1,324	16.5
Biological and biomedical sciences	83,617	21,244	25.4	37,901	45.3	3,736	4.5	360	0.4	20,376	24.4
Computer and information sciences	101,252	6,323	6.2	25,106	24.8	1,800	1.8	350	0.3	67,673	66.8
Geosciences, atmospheric sciences, and ocean sciences	9,747	2,726	28.0	5,203	53.4	475	4.9	90	0.9	1,253	12.9
Mathematics and statistics	26,598	1,572	5.9	13,517	50.8	381	1.4	133	0.5	10,995	41.3
Multidisciplinary and interdisciplinary sciences	13,048	944	7.2	4,097	31.4	316	2.4	50	0.4	7,641	58.6
Natural resources and conservation	9,161	1,635	17.8	4,027	44.0	456	5.0	35	0.4	3,008	32.8
Physical sciences	39,012	10,516	27.0	23,810	61.0	1,566	4.0	223	0.6	2,897	7.4
Psychology	45,196	3,113	6.9	15,536	34.4	775	1.7	51	0.1	25,721	56.9
Social sciences	56,526	2,794	4.9	31,572	55.9	1,272	2.3	359	0.6	20,529	36.3
Engineering	130,447	24,183	18.5	50,289	38.6	7,347	5.6	1,142	0.9	47,486	36.4
Aerospace, aeronautical, and astronautical engineering	5,420	1,244	23.0	2,297	42.4	274	5.1	77	1.4	1,528	28.2
Biological, biomedical, and biosystems engineering	12,416	3,463	27.9	5,363	43.2	732	5.9	55	0.4	2,803	22.6
Chemical, petroleum, and chemical-related engineering	9,320	2,419	26.0	4,320	46.4	902	9.7	111	1.2	1,568	16.8
Civil, environmental, transportation and related engineering fields	14,920	2,239	15.0	6,737	45.2	790	5.3	158	1.1	4,996	33.5
Electrical, electronics, communications and computer engineering	37,882	5,621	14.8	12,399	32.7	1,706	4.5	256	0.7	17,900	47.3
Industrial, manufacturing, systems engineering and operations research	9,822	1,070	10.9	3,309	33.7	319	3.2	72	0.7	5,052	51.4
Mechanical engineering	20,696	4,117	19.9	8,511	41.1	1,253	6.1	225	1.1	6,590	31.8
Metallurgical, mining, materials and related engineering fields	5,888	1,697	28.8	2,399	40.7	557	9.5	68	1.2	1,167	19.8
Other engineering	14,083	2,313	16.4	4,954	35.2	814	5.8	120	0.9	5,882	41.8
Health	56,662	4,816	8.5	14,893	26.3	1,269	2.2	288	0.5	35,396	62.5
Clinical medicine ^a	23,215	1,828	7.9	5,670	24.4	626	2.7	97	0.4	14,994	64.6
Other health	33,447	2,988	8.9	9,223	27.6	643	1.9	191	0.6	20,402	61.0
Master's students	319,618	15,823	5.0	74,909	23.4	5,428	1.7	952	0.3	222,506	69.6
Science	208,749	9,442	4.5	48,623	23.3	3,045	1.5	530	0.3	147,109	70.5
Agricultural and veterinary sciences	4,143	790	19.1	1,819	43.9	401	9.7	18	0.4	1,115	26.9
Biological and biomedical sciences	27,987	1,896	6.8	7,268	26.0	485	1.7	67	0.2	18,271	65.3
Computer and information sciences	83,708	1,870	2.2	14,742	17.6	736	0.9	167	0.2	66,193	79.1
Geosciences, atmospheric sciences, and ocean sciences	3,621	686	18.9	1,851	51.1	140	3.9	17	0.5	927	25.6
Mathematics and statistics	14,239	205	1.4	3,560	25.0	113	0.8	41	0.3	10,320	72.5
Multidisciplinary and interdisciplinary sciences	9,767	413	4.2	2,002	20.5	169	1.7	25	0.3	7,158	73.3
Natural resources and conservation	6,010	879	14.6	2,239	37.3	225	3.7	9	0.1	2,658	44.2
Physical sciences	3,726	323	8.7	1,738	46.6	81	2.2	28	0.8	1,556	41.8
Psychology	27,861	1,072	3.8	4,619	16.6	162	0.6	9	*	21,999	79.0
Social sciences	27,687	1,308	4.7	8,785	31.7	533	1.9	149	0.5	16,912	61.1

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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
Engineering	66,427	3,981	6.0	17,367	26.1	1,673	2.5	289	0.4	43,117	64.9
Aerospace, aeronautical, and astronautical engineering	2,937	404	13.8	1,106	37.7	99	3.4	25	0.9	1,303	44.4
Biological, biomedical, and biosystems engineering	3,834	219	5.7	1,050	27.4	99	2.6	7	0.2	2,459	64.1
Chemical, petroleum, and chemical-related engineering	2,099	92	4.4	613	29.2	88	4.2	14	0.7	1,292	61.6
Civil, environmental, transportation and related engineering fields	8,215	541	6.6	2,942	35.8	229	2.8	53	0.6	4,450	54.2
Electrical, electronics, communications and computer engineering	22,725	820	3.6	4,859	21.4	370	1.6	53	0.2	16,623	73.1
Industrial, manufacturing, systems engineering and operations research	6,920	486	7.0	1,535	22.2	114	1.6	46	0.7	4,739	68.5
Mechanical engineering	10,423	830	8.0	3,252	31.2	358	3.4	62	0.6	5,921	56.8
Metallurgical, mining, materials and related engineering fields	1,667	191	11.5	470	28.2	100	6.0	9	0.5	897	53.8
Other engineering	7,607	398	5.2	1,540	20.2	216	2.8	20	0.3	5,433	71.4
Health	44,442	2,400	5.4	8,919	20.1	710	1.6	133	0.3	32,280	72.6
Clinical medicine ^a	19,519	1,058	5.4	3,811	19.5	401	2.1	54	0.3	14,195	72.7
Other health	24,923	1,342	5.4	5,108	20.5	309	1.2	79	0.3	18,085	72.6
Doctoral students	259,683	65,950	25.4	154,983	59.7	14,778	5.7	2,179	0.8	21,793	8.4
Science	183,443	43,332	23.6	116,087	63.3	8,545	4.7	1,171	0.6	14,308	7.8
Agricultural and veterinary sciences	3,892	1,117	28.7	2,122	54.5	412	10.6	32	0.8	209	5.4
Biological and biomedical sciences	55,630	19,348	34.8	30,633	55.1	3,251	5.8	293	0.5	2,105	3.8
Computer and information sciences	17,544	4,453	25.4	10,364	59.1	1,064	6.1	183	1.0	1,480	8.4
Geosciences, atmospheric sciences, and ocean sciences	6,126	2,040	33.3	3,352	54.7	335	5.5	73	1.2	326	5.3
Mathematics and statistics	12,359	1,367	11.1	9,957	80.6	268	2.2	92	0.7	675	5.5
Multidisciplinary and interdisciplinary sciences	3,281	531	16.2	2,095	63.9	147	4.5	25	0.8	483	14.7
Natural resources and conservation	3,151	756	24.0	1,788	56.7	231	7.3	26	0.8	350	11.1
Physical sciences	35,286	10,193	28.9	22,072	62.6	1,485	4.2	195	0.6	1,341	3.8
Psychology	17,335	2,041	11.8	10,917	63.0	613	3.5	42	0.2	3,722	21.5
Social sciences	28,839	1,486	5.2	22,787	79.0	739	2.6	210	0.7	3,617	12.5
Engineering	64,020	20,202	31.6	32,922	51.4	5,674	8.9	853	1.3	4,369	6.8
Aerospace, aeronautical, and astronautical engineering	2,483	840	33.8	1,191	48.0	175	7.0	52	2.1	225	9.1
Biological, biomedical, and biosystems engineering	8,582	3,244	37.8	4,313	50.3	633	7.4	48	0.6	344	4.0
Chemical, petroleum, and chemical-related engineering	7,221	2,327	32.2	3,707	51.3	814	11.3	97	1.3	276	3.8
Civil, environmental, transportation and related engineering fields	6,705	1,698	25.3	3,795	56.6	561	8.4	105	1.6	546	8.1
Electrical, electronics, communications and computer engineering	15,157	4,801	31.7	7,540	49.7	1,336	8.8	203	1.3	1,277	8.4

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		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Industrial, manufacturing, systems engineering and operations research	2,902	584	20.1	1,774	61.1	205	7.1	26	0.9	313	10.8
Mechanical engineering	10,273	3,287	32.0	5,259	51.2	895	8.7	163	1.6	669	6.5
Metallurgical, mining, materials and related engineering fields	4,221	1,506	35.7	1,929	45.7	457	10.8	59	1.4	270	6.4
Other engineering	6,476	1,915	29.6	3,414	52.7	598	9.2	100	1.5	449	6.9
Health	12,220	2,416	19.8	5,974	48.9	559	4.6	155	1.3	3,116	25.5
Clinical medicine ^a	3,696	770	20.8	1,859	50.3	225	6.1	43	1.2	799	21.6
Other health	8,524	1,646	19.3	4,115	48.3	334	3.9	112	1.3	2,317	27.2

* = 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. 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, 2022.