

**Table 3-5. Primary mechanism of support for full-time graduate students in science, engineering, and health, by broad field: 2024**

(Number and percent)

Broad field	Total	Fellowships		Research assistantships		Teaching assistantships		Traineeships		Other types of support			
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Self-support		Other	
										Number	Percent	Number	Percent
All graduate students	596,638	50,559	8.5	136,582	22.9	86,581	14.5	12,113	2.0	245,095	41.1	65,708	11.0
Science	411,924	36,252	8.8	85,956	20.9	68,839	16.7	9,603	2.3	167,803	40.7	43,471	10.6
Agricultural and veterinary sciences	8,784	493	5.6	5,244	59.7	937	10.7	24	0.3	1,472	16.8	614	7.0
Biological and biomedical sciences	89,780	11,514	12.8	30,521	34.0	10,657	11.9	5,932	6.6	22,682	25.3	8,474	9.4
Computer and information sciences	103,833	3,774	3.6	11,561	11.1	9,469	9.1	594	0.6	65,984	63.5	12,451	12.0
Geosciences, atmospheric, and ocean sciences	9,735	1,130	11.6	4,377	45.0	2,439	25.1	95	1.0	1,125	11.6	569	5.8
Mathematics and statistics	26,987	2,045	7.6	2,738	10.1	9,116	33.8	178	0.7	10,591	39.2	2,319	8.6
Multidisciplinary and interdisciplinary sciences	20,864	1,662	8.0	1,801	8.6	1,701	8.2	160	0.8	12,844	61.6	2,696	12.9
Natural resources and conservation	9,019	995	11.0	2,828	31.4	1,411	15.6	121	1.3	2,507	27.8	1,157	12.8
Physical sciences	40,715	4,512	11.1	16,163	39.7	14,017	34.4	585	1.4	2,985	7.3	2,453	6.0
Psychology	48,011	1,943	4.0	4,875	10.2	6,081	12.7	839	1.7	28,137	58.6	6,136	12.8
Social sciences	54,196	8,184	15.1	5,848	10.8	13,011	24.0	1,075	2.0	19,476	35.9	6,602	12.2
Engineering	131,600	11,940	9.1	45,190	34.3	14,105	10.7	1,358	1.0	45,172	34.3	13,835	10.5
Aerospace, aeronautical, and astronautical engineering	5,661	397	7.0	2,116	37.4	726	12.8	67	1.2	1,593	28.1	762	13.5
Biological, biomedical, and biosystems engineering	13,942	2,208	15.8	5,361	38.5	1,112	8.0	482	3.5	3,172	22.8	1,607	11.5
Chemical, petroleum, and chemical-related engineering	9,403	1,325	14.1	5,057	53.8	1,097	11.7	62	0.7	1,327	14.1	535	5.7
Civil, environmental, transportation and related engineering fields	14,307	1,270	8.9	5,312	37.1	1,738	12.1	91	0.6	4,419	30.9	1,477	10.3
Electrical, electronics, communications and computer engineering	37,243	2,566	6.9	9,933	26.7	3,870	10.4	194	0.5	16,610	44.6	4,070	10.9
Industrial, manufacturing, systems engineering and operations research	9,268	621	6.7	1,685	18.2	1,000	10.8	47	0.5	4,544	49.0	1,371	14.8
Mechanical engineering	20,443	1,628	8.0	7,504	36.7	2,877	14.1	169	0.8	6,114	29.9	2,151	10.5
Metallurgical, mining, materials and related engineering fields	6,053	715	11.8	3,249	53.7	561	9.3	48	0.8	1,020	16.9	460	7.6
Other engineering	15,280	1,210	7.9	4,973	32.5	1,124	7.4	198	1.3	6,373	41.7	1,402	9.2
Health	53,114	2,367	4.5	5,436	10.2	3,637	6.8	1,152	2.2	32,120	60.5	8,402	15.8
Clinical medicine <sup>a</sup>	19,675	1,070	5.4	2,067	10.5	1,009	5.1	625	3.2	11,344	57.7	3,560	18.1
Other health	33,439	1,297	3.9	3,369	10.1	2,628	7.9	527	1.6	20,776	62.1	4,842	14.5
Master's students	322,037	9,494	2.9	22,510	7.0	22,115	6.9	2,438	0.8	221,014	68.6	44,466	13.8
Science	217,779	5,928	2.7	14,059	6.5	15,954	7.3	1,422	0.7	151,402	69.5	29,014	13.3
Agricultural and veterinary sciences	4,425	147	3.3	2,220	50.2	418	9.4	4	0.1	1,230	27.8	406	9.2
Biological and biomedical sciences	31,105	855	2.7	2,882	9.3	2,891	9.3	204	0.7	20,280	65.2	3,993	12.8
Computer and information sciences	83,229	1,201	1.4	2,470	3.0	4,168	5.0	284	0.3	63,904	76.8	11,202	13.5
Geosciences, atmospheric, and ocean sciences	3,469	136	3.9	1,171	33.8	1,047	30.2	19	0.5	832	24.0	264	7.6
Mathematics and statistics	14,052	386	2.7	432	3.1	1,694	12.1	30	0.2	9,893	70.4	1,617	11.5
Multidisciplinary and interdisciplinary sciences	16,502	559	3.4	502	3.0	682	4.1	77	0.5	12,391	75.1	2,291	13.9
Natural resources and conservation	5,558	461	8.3	1,251	22.5	665	12.0	95	1.7	2,160	38.9	926	16.7
Physical sciences	3,644	87	2.4	497	13.6	859	23.6	28	0.8	1,704	46.8	469	12.9
Psychology	29,458	209	0.7	974	3.3	1,132	3.8	329	1.1	22,846	77.6	3,968	13.5

**Table 3-5. Primary mechanism of support for full-time graduate students in science, engineering, and health, by broad field: 2024**

(Number and percent)

Broad field	Total	Fellowships		Research assistantships		Teaching assistantships		Traineeships		Other types of support			
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Self-support		Other	
										Number	Percent	Number	Percent
Social sciences	26,337	1,887	7.2	1,660	6.3	2,398	9.1	352	1.3	16,162	61.4	3,878	14.7
Engineering	63,860	2,341	3.7	6,765	10.6	4,379	6.9	507	0.8	41,054	64.3	8,814	13.8
Aerospace, aeronautical, and astronautical engineering	2,993	67	2.2	640	21.4	335	11.2	44	1.5	1,368	45.7	539	18.0
Biological, biomedical, and biosystems engineering	4,293	158	3.7	341	7.9	375	8.7	21	0.5	2,811	65.5	587	13.7
Chemical, petroleum, and chemical-related engineering	1,838	50	2.7	294	16.0	152	8.3	15	0.8	1,091	59.4	236	12.8
Civil, environmental, transportation and related engineering fields	7,336	470	6.4	1,246	17.0	669	9.1	41	0.6	3,934	53.6	976	13.3
Electrical, electronics, communications and computer engineering	21,690	636	2.9	1,384	6.4	1,306	6.0	85	0.4	15,475	71.3	2,804	12.9
Industrial, manufacturing, systems engineering and operations research	6,093	207	3.4	319	5.2	267	4.4	42	0.7	4,202	69.0	1,056	17.3
Mechanical engineering	9,748	317	3.3	1,433	14.7	855	8.8	100	1.0	5,502	56.4	1,541	15.8
Metallurgical, mining, materials and related engineering fields	1,552	83	5.3	407	26.2	94	6.1	7	0.5	789	50.8	172	11.1
Other engineering	8,317	353	4.2	701	8.4	326	3.9	152	1.8	5,882	70.7	903	10.9
Health	40,398	1,225	3.0	1,686	4.2	1,782	4.4	509	1.3	28,558	70.7	6,638	16.4
Clinical medicine <sup>a</sup>	15,867	736	4.6	851	5.4	567	3.6	297	1.9	10,518	66.3	2,898	18.3
Other health	24,531	489	2.0	835	3.4	1,215	5.0	212	0.9	18,040	73.5	3,740	15.2
Doctoral students	274,601	41,065	15.0	114,072	41.5	64,466	23.5	9,675	3.5	24,081	8.8	21,242	7.7
Science	194,145	30,324	15.6	71,897	37.0	52,885	27.2	8,181	4.2	16,401	8.4	14,457	7.4
Agricultural and veterinary sciences	4,359	346	7.9	3,024	69.4	519	11.9	20	0.5	242	5.6	208	4.8
Biological and biomedical sciences	58,675	10,659	18.2	27,639	47.1	7,766	13.2	5,728	9.8	2,402	4.1	4,481	7.6
Computer and information sciences	20,604	2,573	12.5	9,091	44.1	5,301	25.7	310	1.5	2,080	10.1	1,249	6.1
Geosciences, atmospheric, and ocean sciences	6,266	994	15.9	3,206	51.2	1,392	22.2	76	1.2	293	4.7	305	4.9
Mathematics and statistics	12,935	1,659	12.8	2,306	17.8	7,422	57.4	148	1.1	698	5.4	702	5.4
Multidisciplinary and interdisciplinary sciences	4,362	1,103	25.3	1,299	29.8	1,019	23.4	83	1.9	453	10.4	405	9.3
Natural resources and conservation	3,461	534	15.4	1,577	45.6	746	21.6	26	0.8	347	10.0	231	6.7
Physical sciences	37,071	4,425	11.9	15,666	42.3	13,158	35.5	557	1.5	1,281	3.5	1,984	5.4
Psychology	18,553	1,734	9.3	3,901	21.0	4,949	26.7	510	2.7	5,291	28.5	2,168	11.7
Social sciences	27,859	6,297	22.6	4,188	15.0	10,613	38.1	723	2.6	3,314	11.9	2,724	9.8
Engineering	67,740	9,599	14.2	38,425	56.7	9,726	14.4	851	1.3	4,118	6.1	5,021	7.4
Aerospace, aeronautical, and astronautical engineering	2,668	330	12.4	1,476	55.3	391	14.7	23	0.9	225	8.4	223	8.4
Biological, biomedical, and biosystems engineering	9,649	2,050	21.2	5,020	52.0	737	7.6	461	4.8	361	3.7	1,020	10.6
Chemical, petroleum, and chemical-related engineering	7,565	1,275	16.9	4,763	63.0	945	12.5	47	0.6	236	3.1	299	4.0
Civil, environmental, transportation and related engineering fields	6,971	800	11.5	4,066	58.3	1,069	15.3	50	0.7	485	7.0	501	7.2
Electrical, electronics, communications and computer engineering	15,553	1,930	12.4	8,549	55.0	2,564	16.5	109	0.7	1,135	7.3	1,266	8.1
Industrial, manufacturing, systems engineering and operations research	3,175	414	13.0	1,366	43.0	733	23.1	5	0.2	342	10.8	315	9.9
Mechanical engineering	10,695	1,311	12.3	6,071	56.8	2,022	18.9	69	0.6	612	5.7	610	5.7
Metallurgical, mining, materials and related engineering fields	4,501	632	14.0	2,842	63.1	467	10.4	41	0.9	231	5.1	288	6.4
Other engineering	6,963	857	12.3	4,272	61.4	798	11.5	46	0.7	491	7.1	499	7.2

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(Number and percent)

Broad field	Total	Fellowships		Research assistantships		Teaching assistantships		Traineeships		Other types of support			
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Self-support		Other	
										Number	Percent	Number	Percent
Health	12,716	1,142	9.0	3,750	29.5	1,855	14.6	643	5.1	3,562	28.0	1,764	13.9
Clinical medicine <sup>a</sup>	3,808	334	8.8	1,216	31.9	442	11.6	328	8.6	826	21.7	662	17.4
Other health	8,908	808	9.1	2,534	28.4	1,413	15.9	315	3.5	2,736	30.7	1,102	12.4

<sup>a</sup> 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.