

TABLE 3-3

**Detailed primary source of federal support for full-time graduate students in science, engineering, and health, by broad field: 2020**

(Number and percent)

Broad field	Total	DOD		DOE		HHS: NIH		HHS: Other HHS		NASA		NSF		USDA		Other	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
All graduate students	76,218	8,635	11.3	5,344	7.0	21,708	28.5	2,761	3.6	2,096	2.8	22,413	29.4	2,689	3.5	10,572	13.9
Science	48,717	3,614	7.4	2,699	5.5	17,092	35.1	1,701	3.5	1,251	2.6	13,676	28.1	2,340	4.8	6,344	13.0
Agricultural and veterinary sciences	1,437	12	0.8	17	1.2	126	8.8	82	5.7	3	0.2	127	8.8	905	63.0	165	11.5
Biological and biomedical sciences	19,427	398	2.0	155	0.8	13,399	69.0	955	4.9	66	0.3	2,573	13.2	686	3.5	1,195	6.2
Computer and information sciences	5,589	1,321	23.6	99	1.8	335	6.0	74	1.3	43	0.8	2,867	51.3	41	0.7	809	14.5
Geosciences, atmospheric sciences, and ocean sciences	2,528	143	5.7	105	4.2	27	1.1	11	0.4	421	16.7	1,218	48.2	32	1.3	571	22.6
Mathematics and statistics	1,585	153	9.7	48	3.0	188	11.9	25	1.6	12	0.8	983	62.0	14	0.9	162	10.2
Multidisciplinary and interdisciplinary studies	548	71	13.0	33	6.0	119	21.7	8	1.5	8	1.5	164	29.9	38	6.9	107	19.5
Natural resources and conservation	1,315	34	2.6	39	3.0	55	4.2	64	4.9	45	3.4	287	21.8	346	26.3	445	33.8
Physical sciences	10,792	811	7.5	2,185	20.2	1,817	16.8	223	2.1	624	5.8	4,317	40.0	33	0.3	782	7.2
Psychology	2,716	162	6.0	5	0.2	828	30.5	201	7.4	0	0.0	432	15.9	15	0.6	1,073	39.5
Social sciences	2,780	509	18.3	13	0.5	198	7.1	58	2.1	29	1.0	708	25.5	230	8.3	1,035	37.2
Engineering	24,114	4,901	20.3	2,641	11.0	3,118	12.9	597	2.5	841	3.5	8,606	35.7	308	1.3	3,102	12.9
Aerospace, aeronautical, and astronautical engineering	1,230	559	45.4	62	5.0	3	0.2	1	0.1	199	16.2	232	18.9	2	0.2	172	14.0
Biological, biomedical, and biosystems engineering	3,016	192	6.4	23	0.8	1,831	60.7	87	2.9	22	0.7	682	22.6	33	1.1	146	4.8
Chemical, petroleum, and chemical-related engineering	2,533	216	8.5	508	20.1	293	11.6	53	2.1	49	1.9	1,142	45.1	22	0.9	250	9.9
Civil, environmental, transportation and related engineering fields	2,040	147	7.2	154	7.5	30	1.5	117	5.7	83	4.1	848	41.6	58	2.8	603	29.6
Electrical, electronics, communications and computer engineering	5,974	1,643	27.5	434	7.3	424	7.1	87	1.5	134	2.2	2,494	41.7	27	0.5	731	12.2
Industrial, manufacturing, systems engineering and operations research	1,095	502	45.8	45	4.1	29	2.6	38	3.5	22	2.0	314	28.7	4	0.4	141	12.9
Mechanical engineering	4,283	1,013	23.7	576	13.4	254	5.9	74	1.7	235	5.5	1,595	37.2	24	0.6	512	12.0
Metallurgical, mining, materials and related engineering fields	1,716	314	18.3	409	23.8	77	4.5	58	3.4	50	2.9	657	38.3	8	0.5	143	8.3
Other engineering	2,227	315	14.1	430	19.3	177	7.9	82	3.7	47	2.1	642	28.8	130	5.8	404	18.1
Health	3,387	120	3.5	4	0.1	1,498	44.2	463	13.7	4	0.1	131	3.9	41	1.2	1,126	33.2
Clinical medicine <sup>a</sup>	1,410	31	2.2	3	0.2	546	38.7	296	21.0	1	0.1	35	2.5	15	1.1	483	34.3
Other health	1,977	89	4.5	1	0.1	952	48.2	167	8.4	3	0.2	96	4.9	26	1.3	643	32.5
Master's students	12,459	2,681	21.5	487	3.9	908	7.3	516	4.1	291	2.3	2,058	16.5	1,067	8.6	4,451	35.7
Science	7,083	1,159	16.4	124	1.8	500	7.1	218	3.1	131	1.8	1,198	16.9	956	13.5	2,797	39.5
Agricultural and veterinary sciences	590	2	0.3	3	0.5	25	4.2	35	5.9	0	0.0	40	6.8	398	67.5	87	14.7
Biological and biomedical sciences	1,286	74	5.8	9	0.7	321	25.0	69	5.4	10	0.8	204	15.9	197	15.3	402	31.3
Computer and information sciences	1,242	398	32.0	21	1.7	45	3.6	21	1.7	12	1.0	365	29.4	20	1.6	360	29.0
Geosciences, atmospheric sciences, and ocean sciences	639	43	6.7	24	3.8	3	0.5	2	0.3	62	9.7	232	36.3	19	3.0	254	39.7
Mathematics and statistics	182	31	17.0	9	4.9	24	13.2	2	1.1	0	0.0	46	25.3	3	1.6	67	36.8
Multidisciplinary and interdisciplinary studies	138	27	19.6	3	2.2	14	10.1	0	0.0	4	2.9	14	10.1	17	12.3	59	42.8
Natural resources and conservation	653	23	3.5	24	3.7	6	0.9	32	4.9	8	1.2	89	13.6	196	30.0	275	42.1

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(Number and percent)

Broad field	Total	DOD		DOE		HHS: NIH		HHS: Other HHS		NASA		NSF		USDA		Other	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Physical sciences	332	55	16.6	29	8.7	22	6.6	3	0.9	27	8.1	98	29.5	5	1.5	93	28.0
Psychology	781	61	7.8	0	0.0	33	4.2	46	5.9	0	0.0	22	2.8	9	1.2	610	78.1
Social sciences	1,240	445	35.9	2	0.2	7	0.6	8	0.6	8	0.6	88	7.1	92	7.4	590	47.6
Engineering	3,949	1,461	37.0	363	9.2	157	4.0	94	2.4	159	4.0	808	20.5	84	2.1	823	20.8
Aerospace, aeronautical, and astronautical engineering	362	207	57.2	17	4.7	1	0.3	0	0.0	45	12.4	35	9.7	0	0.0	57	15.7
Biological, biomedical, and biosystems engineering	184	27	14.7	2	1.1	67	36.4	3	1.6	8	4.3	27	14.7	7	3.8	43	23.4
Chemical, petroleum, and chemical-related engineering	97	13	13.4	20	20.6	7	7.2	0	0.0	9	9.3	30	30.9	3	3.1	15	15.5
Civil, environmental, transportation and related engineering fields	506	50	9.9	27	5.3	7	1.4	37	7.3	7	1.4	138	27.3	17	3.4	223	44.1
Electrical, electronics, communications and computer engineering	913	356	39.0	81	8.9	33	3.6	15	1.6	21	2.3	236	25.8	4	0.4	167	18.3
Industrial, manufacturing, systems engineering and operations research	484	365	75.4	10	2.1	3	0.6	11	2.3	2	0.4	25	5.2	0	0.0	68	14.0
Mechanical engineering	866	292	33.7	111	12.8	24	2.8	15	1.7	49	5.7	227	26.2	3	0.3	145	16.7
Metallurgical, mining, materials and related engineering fields	161	54	33.5	41	25.5	5	3.1	8	5.0	7	4.3	30	18.6	2	1.2	14	8.7
Other engineering	376	97	25.8	54	14.4	10	2.7	5	1.3	11	2.9	60	16.0	48	12.8	91	24.2
Health	1,427	61	4.3	0	0.0	251	17.6	204	14.3	1	0.1	52	3.6	27	1.9	831	58.2
Clinical medicine <sup>a</sup>	715	20	2.8	0	0.0	155	21.7	144	20.1	1	0.1	15	2.1	9	1.3	371	51.9
Other health	712	41	5.8	0	0.0	96	13.5	60	8.4	0	0.0	37	5.2	18	2.5	460	64.6
Doctoral students	63,759	5,954	9.3	4,857	7.6	20,800	32.6	2,245	3.5	1,805	2.8	20,355	31.9	1,622	2.5	6,121	9.6
Science	41,634	2,455	5.9	2,575	6.2	16,592	39.9	1,483	3.6	1,120	2.7	12,478	30.0	1,384	3.3	3,547	8.5
Agricultural and veterinary sciences	847	10	1.2	14	1.7	101	11.9	47	5.5	3	0.4	87	10.3	507	59.9	78	9.2
Biological and biomedical sciences	18,141	324	1.8	146	0.8	13,078	72.1	886	4.9	56	0.3	2,369	13.1	489	2.7	793	4.4
Computer and information sciences	4,347	923	21.2	78	1.8	290	6.7	53	1.2	31	0.7	2,502	57.6	21	0.5	449	10.3
Geosciences, atmospheric sciences, and ocean sciences	1,889	100	5.3	81	4.3	24	1.3	9	0.5	359	19.0	986	52.2	13	0.7	317	16.8
Mathematics and statistics	1,403	122	8.7	39	2.8	164	11.7	23	1.6	12	0.9	937	66.8	11	0.8	95	6.8
Multidisciplinary and interdisciplinary studies	410	44	10.7	30	7.3	105	25.6	8	2.0	4	1.0	150	36.6	21	5.1	48	11.7
Natural resources and conservation	662	11	1.7	15	2.3	49	7.4	32	4.8	37	5.6	198	29.9	150	22.7	170	25.7
Physical sciences	10,460	756	7.2	2,156	20.6	1,795	17.2	220	2.1	597	5.7	4,219	40.3	28	0.3	689	6.6
Psychology	1,935	101	5.2	5	0.3	795	41.1	155	8.0	0	0.0	410	21.2	6	0.3	463	23.9
Social sciences	1,540	64	4.2	11	0.7	191	12.4	50	3.2	21	1.4	620	40.3	138	9.0	445	28.9
Engineering	20,165	3,440	17.1	2,278	11.3	2,961	14.7	503	2.5	682	3.4	7,798	38.7	224	1.1	2,279	11.3
Aerospace, aeronautical, and astronautical engineering	868	352	40.6	45	5.2	2	0.2	1	0.1	154	17.7	197	22.7	2	0.2	115	13.2
Biological, biomedical, and biosystems engineering	2,832	165	5.8	21	0.7	1,764	62.3	84	3.0	14	0.5	655	23.1	26	0.9	103	3.6
Chemical, petroleum, and chemical-related engineering	2,436	203	8.3	488	20.0	286	11.7	53	2.2	40	1.6	1,112	45.6	19	0.8	235	9.6
Civil, environmental, transportation and related engineering fields	1,534	97	6.3	127	8.3	23	1.5	80	5.2	76	5.0	710	46.3	41	2.7	380	24.8

TABLE 3-3

**Detailed primary source of federal support for full-time graduate students in science, engineering, and health, by broad field: 2020**

(Number and percent)

Broad field	Total	DOD		DOE		HHS: NIH		HHS: Other HHS		NASA		NSF		USDA		Other	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Electrical, electronics, communications and computer engineering	5,061	1,287	25.4	353	7.0	391	7.7	72	1.4	113	2.2	2,258	44.6	23	0.5	564	11.1
Industrial, manufacturing, systems engineering and operations research	611	137	22.4	35	5.7	26	4.3	27	4.4	20	3.3	289	47.3	4	0.7	73	11.9
Mechanical engineering	3,417	721	21.1	465	13.6	230	6.7	59	1.7	186	5.4	1,368	40.0	21	0.6	367	10.7
Metallurgical, mining, materials and related engineering fields	1,555	260	16.7	368	23.7	72	4.6	50	3.2	43	2.8	627	40.3	6	0.4	129	8.3
Other engineering	1,851	218	11.8	376	20.3	167	9.0	77	4.2	36	1.9	582	31.4	82	4.4	313	16.9
Health	1,960	59	3.0	4	0.2	1,247	63.6	259	13.2	3	0.2	79	4.0	14	0.7	295	15.1
Clinical medicine <sup>a</sup>	695	11	1.6	3	0.4	391	56.3	152	21.9	0	0.0	20	2.9	6	0.9	112	16.1
Other health	1,265	48	3.8	1	0.1	856	67.7	107	8.5	3	0.2	59	4.7	8	0.6	183	14.5

DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NIH = National Institutes of Health; NSF = National Science Foundation; USDA = Department of Agriculture.

<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 technical table A-17.

**Source(s):**

National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2020.