

TABLE 2-4

**Graduate students in science, engineering, and health broad fields, by degree program, citizenship, ethnicity, and race: 2020**

(Number and percent)

Broad field	Total		Hispanic or Latino		Not Hispanic or Latino												Unknown ethnicity and race		Temporary visa holders	
					American Indian or Alaska Native		Asian		Black or African American		Native Hawaiian or Other Pacific Islander		White		More than one race					
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
All graduate students	697,813	100.0	62,679	100.0	2,042	100.0	53,094	100.0	41,916	100.0	778	100.0	284,055	100.0	17,579	100.0	24,908	100.0	210,762	100.0
Science	464,646	66.6	43,705	69.7	1,468	71.9	34,812	65.6	29,051	69.3	553	71.1	195,406	68.8	12,244	69.7	17,720	71.1	129,687	61.5
Agricultural and veterinary sciences	10,800	1.5	823	1.3	27	1.3	335	0.6	378	0.9	15	1.9	5,743	2.0	231	1.3	292	1.2	2,956	1.4
Biological and biomedical sciences	94,825	13.6	9,442	15.1	297	14.5	9,520	17.9	6,049	14.4	137	17.6	44,974	15.8	2,851	16.2	3,447	13.8	18,108	8.6
Computer and information sciences	98,864	14.2	4,989	8.0	127	6.2	10,699	20.2	5,639	13.5	70	9.0	25,311	8.9	1,789	10.2	3,172	12.7	47,068	22.3
Geosciences, atmospheric sciences, and ocean sciences	11,792	1.7	943	1.5	31	1.5	387	0.7	267	0.6	8	1.0	7,036	2.5	366	2.1	391	1.6	2,363	1.1
Mathematics and statistics	31,971	4.6	1,864	3.0	36	1.8	2,575	4.8	777	1.9	12	1.5	10,392	3.7	546	3.1	948	3.8	14,821	7.0
Multidisciplinary and interdisciplinary studies	14,533	2.1	1,333	2.1	29	1.4	1,281	2.4	955	2.3	17	2.2	6,008	2.1	370	2.1	513	2.1	4,027	1.9
Natural resources and conservation	12,498	1.8	1,156	1.8	123	6.0	368	0.7	404	1.0	33	4.2	8,017	2.8	387	2.2	413	1.7	1,597	0.8
Physical sciences	42,616	6.1	3,029	4.8	79	3.9	2,496	4.7	1,096	2.6	17	2.2	17,935	6.3	946	5.4	1,149	4.6	15,869	7.5
Psychology	68,394	9.8	11,776	18.8	302	14.8	3,445	6.5	7,044	16.8	124	15.9	35,344	12.4	2,558	14.6	3,993	16.0	3,808	1.8
Social sciences	78,353	11.2	8,350	13.3	417	20.4	3,706	7.0	6,442	15.4	120	15.4	34,646	12.2	2,200	12.5	3,402	13.7	19,070	9.0
Engineering	157,729	22.6	9,644	15.4	239	11.7	12,020	22.6	4,583	10.9	101	13.0	50,847	17.9	3,143	17.9	3,826	15.4	73,326	34.8
Aerospace, aeronautical, and astronautical engineering	6,971	1.0	532	0.8	14	0.7	608	1.1	163	0.4	10	1.3	3,552	1.3	233	1.3	188	0.8	1,671	0.8
Biological, biomedical, and biosystems engineering	12,775	1.8	956	1.5	22	1.1	1,690	3.2	450	1.1	14	1.8	4,953	1.7	399	2.3	406	1.6	3,885	1.8
Chemical, petroleum, and chemical-related engineering	10,554	1.5	506	0.8	16	0.8	821	1.5	255	0.6	4	0.5	3,281	1.2	205	1.2	197	0.8	5,269	2.5
Civil, environmental, transportation and related engineering fields	18,304	2.6	1,391	2.2	46	2.3	1,060	2.0	509	1.2	17	2.2	5,962	2.1	347	2.0	469	1.9	8,503	4.0
Electrical, electronics, communications and computer engineering	43,032	6.2	1,918	3.1	35	1.7	3,302	6.2	974	2.3	8	1.0	9,316	3.3	595	3.4	930	3.7	25,954	12.3
Industrial, manufacturing, systems engineering and operations research	14,869	2.1	1,120	1.8	19	0.9	975	1.8	623	1.5	17	2.2	4,879	1.7	246	1.4	422	1.7	6,568	3.1
Mechanical engineering	25,782	3.7	1,818	2.9	38	1.9	1,800	3.4	561	1.3	9	1.2	8,990	3.2	538	3.1	608	2.4	11,420	5.4
Metallurgical, mining, materials and related engineering fields	7,181	1.0	423	0.7	9	0.4	536	1.0	168	0.4	4	0.5	2,502	0.9	166	0.9	135	0.5	3,238	1.5
Other engineering	18,261	2.6	980	1.6	40	2.0	1,228	2.3	880	2.1	18	2.3	7,412	2.6	414	2.4	471	1.9	6,818	3.2
Health	75,438	10.8	9,330	14.9	335	16.4	6,262	11.8	8,282	19.8	124	15.9	37,802	13.3	2,192	12.5	3,362	13.5	7,749	3.7
Clinical medicine <sup>a</sup>	34,544	5.0	4,614	7.4	224	11.0	3,570	6.7	5,126	12.2	69	8.9	14,675	5.2	1,143	6.5	1,818	7.3	3,305	1.6

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**Graduate students in science, engineering, and health broad fields, by degree program, citizenship, ethnicity, and race: 2020**

(Number and percent)

Broad field	Total		Hispanic or Latino		Not Hispanic or Latino												Unknown ethnicity and race		Temporary visa holders	
					American Indian or Alaska Native		Asian		Black or African American		Native Hawaiian or Other Pacific Islander		White		More than one race					
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Other health	40,894	5.9	4,716	7.5	111	5.4	2,692	5.1	3,156	7.5	55	7.1	23,127	8.1	1,049	6.0	1,544	6.2	4,444	2.1
Master's students	414,478	59.4	43,750	69.8	1,284	62.9	35,075	66.1	30,842	73.6	578	74.3	175,090	61.6	11,069	63.0	16,617	66.7	100,173	47.5
Science	267,904	38.4	28,849	46.0	851	41.7	22,270	41.9	21,126	50.4	403	51.8	112,534	39.6	7,293	41.5	11,351	45.6	63,227	30.0
Agricultural and veterinary sciences	6,487	0.9	626	1.0	20	1.0	207	0.4	279	0.7	14	1.8	3,949	1.4	153	0.9	205	0.8	1,034	0.5
Biological and biomedical sciences	39,920	5.7	4,464	7.1	111	5.4	4,682	8.8	3,834	9.1	84	10.8	19,042	6.7	1,308	7.4	1,701	6.8	4,694	2.2
Computer and information sciences	80,690	11.6	4,541	7.2	113	5.5	9,479	17.9	5,171	12.3	62	8.0	21,380	7.5	1,519	8.6	2,664	10.7	35,761	17.0
Geosciences, atmospheric sciences, and ocean sciences	5,277	0.8	496	0.8	17	0.8	141	0.3	148	0.4	7	0.9	3,703	1.3	170	1.0	179	0.7	416	0.2
Mathematics and statistics	18,284	2.6	1,239	2.0	23	1.1	1,742	3.3	573	1.4	9	1.2	5,904	2.1	295	1.7	572	2.3	7,927	3.8
Multidisciplinary and interdisciplinary studies	10,980	1.6	1,084	1.7	20	1.0	1,038	2.0	746	1.8	11	1.4	4,432	1.6	293	1.7	388	1.6	2,968	1.4
Natural resources and conservation	8,793	1.3	858	1.4	88	4.3	269	0.5	248	0.6	30	3.9	6,040	2.1	306	1.7	267	1.1	687	0.3
Physical sciences	6,275	0.9	757	1.2	24	1.2	455	0.9	338	0.8	3	0.4	2,978	1.0	177	1.0	188	0.8	1,355	0.6
Psychology	47,279	6.8	8,978	14.3	205	10.0	2,180	4.1	5,425	12.9	103	13.2	23,932	8.4	1,688	9.6	3,199	12.8	1,569	0.7
Social sciences	43,919	6.3	5,806	9.3	230	11.3	2,077	3.9	4,364	10.4	80	10.3	21,174	7.5	1,384	7.9	1,988	8.0	6,816	3.2
Engineering	86,450	12.4	6,704	10.7	160	7.8	7,628	14.4	2,952	7.0	71	9.1	31,783	11.2	1,949	11.1	2,396	9.6	32,807	15.6
Aerospace, aeronautical, and astronautical engineering	4,326	0.6	416	0.7	10	0.5	425	0.8	115	0.3	5	0.6	2,479	0.9	158	0.9	144	0.6	574	0.3
Biological, biomedical, and biosystems engineering	4,536	0.7	383	0.6	7	0.3	688	1.3	188	0.4	4	0.5	1,713	0.6	153	0.9	167	0.7	1,233	0.6
Chemical, petroleum, and chemical-related engineering	2,942	0.4	199	0.3	4	0.2	261	0.5	112	0.3	1	0.1	952	0.3	69	0.4	78	0.3	1,266	0.6
Civil, environmental, transportation and related engineering fields	10,819	1.6	1,103	1.8	36	1.8	817	1.5	347	0.8	14	1.8	4,413	1.6	261	1.5	348	1.4	3,480	1.7
Electrical, electronics, communications and computer engineering	25,312	3.6	1,460	2.3	28	1.4	2,346	4.4	674	1.6	7	0.9	6,217	2.2	434	2.5	583	2.3	13,563	6.4
Industrial, manufacturing, systems engineering and operations research	11,030	1.6	1,024	1.6	17	0.8	798	1.5	488	1.2	16	2.1	4,011	1.4	196	1.1	327	1.3	4,153	2.0
Mechanical engineering	14,305	2.0	1,262	2.0	24	1.2	1,220	2.3	336	0.8	8	1.0	5,986	2.1	341	1.9	380	1.5	4,748	2.3
Metallurgical, mining, materials and related engineering fields	2,299	0.3	160	0.3	4	0.2	198	0.4	65	0.2	2	0.3	945	0.3	66	0.4	54	0.2	805	0.4
Other engineering	10,881	1.6	697	1.1	30	1.5	875	1.6	627	1.5	14	1.8	5,067	1.8	271	1.5	315	1.3	2,985	1.4
Health	60,124	8.6	8,197	13.1	273	13.4	5,177	9.8	6,764	16.1	104	13.4	30,773	10.8	1,827	10.4	2,870	11.5	4,139	2.0

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					American Indian or Alaska Native		Asian		Black or African American		Native Hawaiian or Other Pacific Islander		White		More than one race					
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Clinical medicine <sup>a</sup>	29,748	4.3	4,132	6.6	185	9.1	3,181	6.0	4,511	10.8	57	7.3	12,672	4.5	991	5.6	1,662	6.7	2,357	1.1
Other health	30,376	4.4	4,065	6.5	88	4.3	1,996	3.8	2,253	5.4	47	6.0	18,101	6.4	836	4.8	1,208	4.8	1,782	0.8
Doctoral students	283,335	40.6	18,929	30.2	758	37.1	18,019	33.9	11,074	26.4	200	25.7	108,965	38.4	6,510	37.0	8,291	33.3	110,589	52.5
Science	196,742	28.2	14,856	23.7	617	30.2	12,542	23.6	7,925	18.9	150	19.3	82,872	29.2	4,951	28.2	6,369	25.6	66,460	31.5
Agricultural and veterinary sciences	4,313	0.6	197	0.3	7	0.3	128	0.2	99	0.2	1	0.1	1,794	0.6	78	0.4	87	0.3	1,922	0.9
Biological and biomedical sciences	54,905	7.9	4,978	7.9	186	9.1	4,838	9.1	2,215	5.3	53	6.8	25,932	9.1	1,543	8.8	1,746	7.0	13,414	6.4
Computer and information sciences	18,174	2.6	448	0.7	14	0.7	1,220	2.3	468	1.1	8	1.0	3,931	1.4	270	1.5	508	2.0	11,307	5.4
Geosciences, atmospheric sciences, and ocean sciences	6,515	0.9	447	0.7	14	0.7	246	0.5	119	0.3	1	0.1	3,333	1.2	196	1.1	212	0.9	1,947	0.9
Mathematics and statistics	13,687	2.0	625	1.0	13	0.6	833	1.6	204	0.5	3	0.4	4,488	1.6	251	1.4	376	1.5	6,894	3.3
Multidisciplinary and interdisciplinary studies	3,553	0.5	249	0.4	9	0.4	243	0.5	209	0.5	6	0.8	1,576	0.6	77	0.4	125	0.5	1,059	0.5
Natural resources and conservation	3,705	0.5	298	0.5	35	1.7	99	0.2	156	0.4	3	0.4	1,977	0.7	81	0.5	146	0.6	910	0.4
Physical sciences	36,341	5.2	2,272	3.6	55	2.7	2,041	3.8	758	1.8	14	1.8	14,957	5.3	769	4.4	961	3.9	14,514	6.9
Psychology	21,115	3.0	2,798	4.5	97	4.8	1,265	2.4	1,619	3.9	21	2.7	11,412	4.0	870	4.9	794	3.2	2,239	1.1
Social sciences	34,434	4.9	2,544	4.1	187	9.2	1,629	3.1	2,078	5.0	40	5.1	13,472	4.7	816	4.6	1,414	5.7	12,254	5.8
Engineering	71,279	10.2	2,940	4.7	79	3.9	4,392	8.3	1,631	3.9	30	3.9	19,064	6.7	1,194	6.8	1,430	5.7	40,519	19.2
Aerospace, aeronautical, and astronautical engineering	2,645	0.4	116	0.2	4	0.2	183	0.3	48	0.1	5	0.6	1,073	0.4	75	0.4	44	0.2	1,097	0.5
Biological, biomedical, and biosystems engineering	8,239	1.2	573	0.9	15	0.7	1,002	1.9	262	0.6	10	1.3	3,240	1.1	246	1.4	239	1.0	2,652	1.3
Chemical, petroleum, and chemical-related engineering	7,612	1.1	307	0.5	12	0.6	560	1.1	143	0.3	3	0.4	2,329	0.8	136	0.8	119	0.5	4,003	1.9
Civil, environmental, transportation and related engineering fields	7,485	1.1	288	0.5	10	0.5	243	0.5	162	0.4	3	0.4	1,549	0.5	86	0.5	121	0.5	5,023	2.4
Electrical, electronics, communications and computer engineering	17,720	2.5	458	0.7	7	0.3	956	1.8	300	0.7	1	0.1	3,099	1.1	161	0.9	347	1.4	12,391	5.9
Industrial, manufacturing, systems engineering and operations research	3,839	0.6	96	0.2	2	0.1	177	0.3	135	0.3	1	0.1	868	0.3	50	0.3	95	0.4	2,415	1.1
Mechanical engineering	11,477	1.6	556	0.9	14	0.7	580	1.1	225	0.5	1	0.1	3,004	1.1	197	1.1	228	0.9	6,672	3.2
Metallurgical, mining, materials and related engineering fields	4,882	0.7	263	0.4	5	0.2	338	0.6	103	0.2	2	0.3	1,557	0.5	100	0.6	81	0.3	2,433	1.2
Other engineering	7,380	1.1	283	0.5	10	0.5	353	0.7	253	0.6	4	0.5	2,345	0.8	143	0.8	156	0.6	3,833	1.8

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					American Indian or Alaska Native		Asian		Black or African American		Native Hawaiian or Other Pacific Islander		White		More than one race					
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Health	15,314	2.2	1,133	1.8	62	3.0	1,085	2.0	1,518	3.6	20	2.6	7,029	2.5	365	2.1	492	2.0	3,610	1.7
Clinical medicine <sup>a</sup>	4,796	0.7	482	0.8	39	1.9	389	0.7	615	1.5	12	1.5	2,003	0.7	152	0.9	156	0.6	948	0.4
Other health	10,518	1.5	651	1.0	23	1.1	696	1.3	903	2.2	8	1.0	5,026	1.8	213	1.2	336	1.3	2,662	1.3

<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. Ethnicity and race data are available only for U.S. citizens and permanent residents. 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.