National Center for Science and Engineering Statistics

Survey Graduate Students and Postdoctorates in Science and Engineering: Fall 2020

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General Notes

This report presents data from the 2020 Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). The GSS is an annual census of all U.S. academic institutions granting research-based master's degrees or doctorates in science, engineering, and selected health (SEH) fields as of fall of the survey year. Results are used to assess shifts in graduate enrollment and postdoctoral appointments and trends in financial support.

The GSS is sponsored by National Center for Science and Engineering Statistics (NCSES) within the National Science Foundation and by the National Institutes of Health.

The tables in this report provide detailed data on master's and doctoral graduate students and postdoctoral appointees (postdocs) in science, engineering, and SEH. Trend data are provided on graduate student enrollment, postdoctoral appointments, and other doctorate-holding nonfaculty researcher (NFR) appointments, as well as counts of master's and doctoral students, postdocs, and NFRs by characteristics, such as sex, race and ethnicity, citizenship, field of study, and primary source and mechanism of support.

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TABLE 1-1

Graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in science, engineering, and health: 1975–2020

(Number)

Year	Graduate students				Postdoctoral appointees				Nonfaculty researchers			
	All fields	Science	Engineering	Health	All fields	Science	Engineering	Health	All fields	Science	Engineering	Health
1975	328,510	234,649	68,332	25,529	na	na	na	na	na	na	na	na
1976	333,716	238,675	66,723	28,318	na	na	na	na	na	na	na	na
1977	345,374	242,932	68,757	33,685	na	na	na	na	na	na	na	na
1978[a]	339,912	236,465	67,787	35,660	na	na	na	na	na	na	na	na
1979	357,578	247,235	71,808	38,535	18,101	12,519	1,067	4,515	2,687	1,915	273	499
1980	367,078	251,265	74,335	41,478	18,399	13,042	981	4,376	3,260	2,184	423	653
1981	375,130	252,404	79,585	43,141	19,634	13,731	1,040	4,863	3,559	2,445	503	611
1982	382,291	255,146	83,720	43,425	19,363	13,698	980	4,685	4,026	2,809	670	547
1983	390,432	255,820	91,146	43,466	20,712	14,562	1,108	5,042	4,896	3,348	631	917
1984	394,670	256,903	92,739	45,028	21,535	14,979	1,203	5,353	5,042	3,442	589	1,011
1985	404,021	261,973	96,018	46,030	22,387	15,576	1,356	5,455	5,103	3,529	615	959
1986	415,520	266,077	101,905	47,538	23,721	16,512	1,405	5,804	4,846	3,356	521	969
1987	421,497	269,256	103,983	48,258	24,881	17,369	1,446	6,066	4,597	3,250	443	904
1988	424,523	272,309	102,854	49,360	26,123	18,024	1,690	6,409	4,869	3,348	566	955
1989	434,478	278,577	104,065	51,836	27,932	18,978	1,928	7,026	4,908	3,470	581	857
1990	452,113	289,383	107,658	55,072	29,565	19,853	1,950	7,762	5,255	3,745	609	901
1991	471,212	299,057	113,535	58,620	30,865	20,595	2,262	8,008	5,478	3,872	659	947
1992	493,522	312,478	118,039	63,005	32,747	21,514	2,369	8,864	5,482	3,660	737	1,085
1993	504,304	318,851	116,872	68,581	34,322	22,219	2,446	9,657	6,001	4,003	805	1,193
1994	504,399	318,118	113,024	73,257	36,377	23,181	2,606	10,590	6,209	4,156	825	1,228
1995	499,640	315,265	107,201	77,174	35,926	23,512	2,648	9,766	6,534	4,395	789	1,350
1996	494,079	311,957	103,224	78,898	37,107	23,892	2,677	10,538	6,604	4,426	731	1,447
1997	487,208	306,482	101,148	79,578	38,481	24,293	2,971	11,217	6,722	4,408	848	1,466
1998	485,627	304,818	100,038	80,771	40,086	25,023	2,853	12,210	7,100	4,497	810	1,793
1999	493,256	309,491	101,691	82,074	40,800	25,784	3,196	11,820	7,573	4,761	940	1,872
2000	493,311	309,424	104,112	79,775	43,115	26,911	3,313	12,891	7,879	4,931	896	2,052
2001	509,607	319,736	109,493	80,378	43,311	27,044	3,152	13,115	7,531	4,707	801	2,023
2002	540,404	335,166	119,668	85,570	45,034	28,371	3,566	13,097	7,906	5,019	903	1,984
2003	567,121	347,268	127,377	92,476	46,728	29,856	3,810	13,062	8,473	5,493	952	2,028
2004	574,463	352,307	123,566	98,590	47,240	30,116	3,949	13,175	9,075	5,880	1,043	2,152
2005	582,226	357,710	120,565	103,951	48,555	30,290	4,166	14,099	9,527	6,069	946	2,512
2006	597,643	363,246	123,041	111,356	49,343	30,245	4,642	14,456	10,814	6,658	1,118	3,038
2007old[b]	607,823	372,120	130,255	105,448	50,712	30,986	4,908	14,818	10,736	6,517	1,298	2,921
2007new[b]	619,499	384,523	131,676	103,300	50,840	31,281	4,942	14,617	10,752	6,526	1,310	2,916
2008	631,489	391,419	137,856	102,214	54,164	32,741	5,462	15,961	13,747	8,669	1,419	3,659
2009	631,645	401,008	144,677	85,960	57,805	34,388	6,416	17,001	14,059	8,698	1,737	3,624
2010[c,d]	632,652	407,291	149,241	76,120	63,439	37,351	6,969	19,119	21,345	12,751	2,406	6,188
2011[d]	626,820	414,440	146,501	65,879	62,639	37,335	6,786	18,518	21,498	13,363	2,312	5,823
2012	627,243	413,033	148,385	65,825	62,851	36,738	7,103	19,010	21,908	13,264	2,497	6,147
2013	633,010	417,251	153,049	62,710	61,942	36,289	7,106	18,547	22,465	13,932	2,494	6,039
2014old[e]	650,738	425,148	162,013	63,577	62,379	36,184	7,292	18,903	23,290	14,283	2,744	6,263
2014new[e]	666,586	437,395	164,488	64,703	63,593	37,316	7,307	18,970	23,706	14,674	2,745	6,287
2015	685,397	448,654	169,354	67,389	63,861	37,639	7,656	18,566	25,292	15,667	2,929	6,696
2016	684,825	452,046	168,443	64,336	64,712	37,941	7,796	18,975	25,747	15,940	3,155	6,652
2017old[f]	684,096	450,343	166,819	66,934	64,888	37,816	7,929	19,143	na	na	na	na
2017new[f]	649,112	415,568	165,581	67,963	64,733	38,241	7,839	18,653	28,180	17,268	3,274	7,638
2018	668,307	432,255	163,301	72,751	64,783	37,564	7,914	19,305	29,284	18,278	3,570	7,436

TABLE 1-1

Graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in science, engineering, and health: 1975–2020

(Number)

Year	Graduate students				Postdoctoral appointees				Nonfaculty researchers			
	All fields	Science	Engineering	Health	All fields	Science	Engineering	Health	All fields	Science	Engineering	Health
2019	690,117	453,691	164,004	72,422	66,247	38,503	8,266	19,478	30,349	18,819	3,909	7,621
2020	697,813	464,646	157,729	75,438	65,681	38,741	8,462	18,478	29,661	18,212	3,921	7,528
Master's students												
2017new[f]	378,587	229,169	96,756	52,662	na	na	na	na	na	na	na	na
2018	391,211	241,327	93,064	56,820	na	na	na	na	na	na	na	na
2019	408,228	259,795	91,939	56,494	na	na	na	na	na	na	na	na
2020	414,478	267,904	86,450	60,124	na	na	na	na	na	na	na	na
Doctoral students												
2017new[f]	270,525	186,399	68,825	15,301	na	na	na	na	na	na	na	na
2018	277,096	190,928	70,237	15,931	na	na	na	na	na	na	na	na
2019	281,889	193,896	72,065	15,928	na	na	na	na	na	na	na	na
2020	283,335	196,742	71,279	15,314	na	na	na	na	na	na	na	na

na = not applicable; master's and doctoral students were not reported separately until 2017, and counts of postdoctoral appointees (postdocs) and nonfaculty researchers (NFRs) were not collected until 1979.

[a] Master's-granting institutions were not surveyed in 1978; totals represent estimates based on 1977 and 1979 data.

[b] In 2007, eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in https://www.nsf.gov/statistics/nsf10307/ for more detail.

[c] In 2010, the postdoc and NFR section of the survey was expanded and significant effort was made to ensure that appropriate personnel were providing postdoc and NFR data. Thus, it is unclear how much of the increases in 2010 and later years over 2009 and prior years are from growth in postdocs and NFRs and how much are from improved data collection. More information on the changes to the data collection is available at https://www.nsf.gov/statistics/infbrief/nsf13334/.

[d] Postdoc and NFR data from 2010 and 2011 were reimputed following the 2012 data collection; these data supersede those contained in previous reports.

[e] In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed academic institutions in the United States with master's- or doctorate-granting programs in science, engineering, or health. A total of 151 newly eligible institutions were added, and two private for-profit institutions offering mostly practitioner-based graduate degrees were determined to be ineligible. For more information, see https://www.nsf.gov/statistics/2016/nsf16314.

[f] As part of 2017 Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) redesign, the GSS taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy of Disciplines (TOD), thus increasing comparability with other NCSES surveys. As a result, some eligible fields were reclassified and a small number of fields became fully or partially ineligible. Comparisons to prior years should use the 2017old estimates and should be limited to broad areas of study—detailed field comparisons are not recommended. Due to changes in reporting, NFR estimates for 2017old are not available.

Note(s):
For more information on the mapping of GSS 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.

TABLE 1-2a

Sex of graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in science, engineering, and health: 1977–2020

(Number and percent)

Year	Graduate students					Postdoctoral appointees					Doctorate-holding nonfaculty researchers				
		Male		Female			Male		Female			Male		Female	
	Total	Number	Percent	Number	Percent	Total	Number	Percent	Number	Percent	Total	Number	Percent	Number	Percent
1977	345,374	244,924	70.9	100,450	29.1	na	na	na	na	na	na	na	na	na	na
1978	339,912	NA	NA	NA	NA	na	na	na	na	na	na	na	na	na	na
1979	357,578	240,839	67.4	116,739	32.6	18,101	14,761	81.5	3,340	18.5	2,687	2,076	77.3	611	22.7
1980	367,078	242,956	66.2	124,122	33.8	18,399	14,856	80.7	3,543	19.3	3,260	2,571	78.9	689	21.1
1981	375,130	243,558	64.9	131,572	35.1	19,634	15,554	79.2	4,080	20.8	3,559	2,809	78.9	750	21.1
1982	382,291	246,298	64.4	135,993	35.6	19,363	14,992	77.4	4,371	22.6	4,026	3,183	79.1	843	20.9
1983	390,432	250,928	64.3	139,504	35.7	20,712	15,919	76.9	4,793	23.1	4,896	3,915	80.0	981	20.0
1984	394,670	252,653	64.0	142,017	36.0	21,535	16,494	76.6	5,041	23.4	5,042	3,896	77.3	1,146	22.7
1985	404,021	258,216	63.9	145,805	36.1	22,387	16,973	75.8	5,414	24.2	5,103	3,826	75.0	1,277	25.0
1986	415,520	264,733	63.7	150,787	36.3	23,721	17,741	74.8	5,980	25.2	4,846	3,586	74.0	1,260	26.0
1987	421,497	267,941	63.6	153,556	36.4	24,881	18,498	74.3	6,383	25.7	4,597	3,354	73.0	1,243	27.0
1988	424,523	265,390	62.5	159,133	37.5	26,123	19,321	74.0	6,802	26.0	4,869	3,603	74.0	1,266	26.0
1989	434,478	268,725	61.9	165,753	38.1	27,932	20,560	73.6	7,372	26.4	4,908	3,623	73.8	1,285	26.2
1990	452,113	275,672	61.0	176,441	39.0	29,565	21,572	73.0	7,993	27.0	5,255	3,879	73.8	1,376	26.2
1991	471,212	284,897	60.5	186,315	39.5	30,865	22,406	72.6	8,459	27.4	5,478	4,026	73.5	1,452	26.5
1992	493,522	294,222	59.6	199,300	40.4	32,747	23,450	71.6	9,297	28.4	5,482	4,036	73.6	1,446	26.4
1993	504,304	294,476	58.4	209,828	41.6	34,322	24,381	71.0	9,941	29.0	6,001	4,376	72.9	1,625	27.1
1994	504,399	288,355	57.2	216,044	42.8	36,377	25,471	70.0	10,906	30.0	6,209	4,487	72.3	1,722	27.7
1995	499,640	279,305	55.9	220,335	44.1	35,926	25,024	69.7	10,902	30.3	6,534	4,785	73.2	1,749	26.8
1996	494,079	271,660	55.0	222,419	45.0	37,107	25,841	69.6	11,266	30.4	6,604	4,692	71.0	1,912	29.0
1997	487,208	264,497	54.3	222,711	45.7	38,481	26,506	68.9	11,975	31.1	6,722	4,733	70.4	1,989	29.6
1998	485,627	261,019	53.7	224,608	46.3	40,086	27,249	68.0	12,837	32.0	7,100	4,985	70.2	2,115	29.8
1999	493,256	262,675	53.3	230,581	46.7	40,800	27,831	68.2	12,969	31.8	7,573	5,244	69.2	2,329	30.8
2000	493,311	262,109	53.1	231,202	46.9	43,115	29,606	68.7	13,509	31.3	7,879	5,493	69.7	2,386	30.3
2001	509,607	271,155	53.2	238,452	46.8	43,311	29,310	67.7	14,001	32.3	7,531	5,041	66.9	2,490	33.1
2002	540,404	287,059	53.1	253,345	46.9	45,034	29,850	66.3	15,184	33.7	7,906	5,329	67.4	2,577	32.6
2003	567,121	298,682	52.7	268,439	47.3	46,728	30,692	65.7	16,036	34.3	8,473	5,700	67.3	2,773	32.7
2004	574,463	296,714	51.7	277,749	48.3	47,240	30,867	65.3	16,373	34.7	9,075	6,049	66.7	3,026	33.3
2005	582,226	295,291	50.7	286,935	49.3	48,555	31,515	64.9	17,040	35.1	9,527	6,305	66.2	3,222	33.8
2006	597,643	299,818	50.2	297,825	49.8	49,343	31,760	64.4	17,583	35.6	10,814	7,190	66.5	3,624	33.5
2007old[a]	607,823	308,152	50.7	299,671	49.3	50,712	32,860	64.8	17,852	35.2	10,736	7,060	65.8	3,676	34.2
2007new[a]	619,499	312,009	50.4	307,490	49.6	50,840	32,942	64.8	17,898	35.2	10,752	7,065	65.7	3,687	34.3
2008	631,489	320,310	50.7	311,179	49.3	54,164	33,943	62.7	20,221	37.3	13,747	8,667	63.0	5,080	37.0
2009	631,645	328,525	52.0	303,120	48.0	57,805	35,987	62.3	21,818	37.7	14,059	8,795	62.6	5,264	37.4
2010[b,c]	632,652	335,481	53.0	297,171	47.0	63,439	38,869	61.3	24,570	38.7	21,345	12,927	60.6	8,418	39.4
2011[c]	626,820	335,270	53.5	291,550	46.5	62,639	38,167	60.9	24,472	39.1	21,498	13,105	61.0	8,393	39.0
2012	627,243	336,187	53.6	291,056	46.4	62,851	38,166	60.7	24,685	39.3	21,908	13,250	60.5	8,658	39.5
2013	633,010	341,630	54.0	291,380	46.0	61,942	37,585	60.7	24,357	39.3	22,465	13,617	60.6	8,848	39.4
2014old[d]	650,738	356,011	54.7	294,727	45.3	62,379	37,752	60.5	24,627	39.5	23,290	14,099	60.5	9,191	39.5
2014new[d]	666,586	365,841	54.9	300,745	45.1	63,593	38,491	60.5	25,102	39.5	23,706	14,314	60.4	9,392	39.6
2015	685,397	376,296	54.9	309,101	45.1	63,861	38,566	60.4	25,295	39.6	25,292	15,249	60.3	10,043	39.7
2016	684,825	375,569	54.8	309,256	45.2	64,712	39,118	60.4	25,594	39.6	25,747	15,437	60.0	10,310	40.0
2017old[e]	684,096	369,326	54.0	314,770	46.0	64,888	38,936	60.0	25,952	40.0	na	na	na	na	na
2017new[e]	649,112	356,447	54.9	292,665	45.1	64,733	38,870	60.0	25,863	40.0	28,180	16,580	58.8	11,600	41.2
2018	668,307	359,333	53.8	308,974	46.2	64,783	38,661	59.7	26,122	40.3	29,284	17,468	59.7	11,816	40.3
2019	690,117	364,995	52.9	325,122	47.1	66,247	39,173	59.1	27,074	40.9	30,349	17,980	59.2	12,369	40.8

TABLE 1-2a

Sex of graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in science, engineering, and health: 1977–2020

(Number and percent)

	Graduate students					Postdoctoral appointees					Doctorate-holding nonfaculty researchers				
		Male		Female			Male		Female			Male		Female	
Year	Total	Number	Percent	Number	Percent	Total	Number	Percent	Number	Percent	Total	Number	Percent	Number	Percent
2020	697,813	359,913	51.6	337,900	48.4	65,681	38,239	58.2	27,442	41.8	29,661	17,255	58.2	12,406	41.8
Master's students															
2017new[e]	378,587	200,748	53.0	177,839	47.0	na	na	na	na	na	na	na	na	na	na
2018	391,211	201,314	51.5	189,897	48.5	na	na	na	na	na	na	na	na	na	na
2019	408,228	205,768	50.4	202,460	49.6	na	na	na	na	na	na	na	na	na	na
2020	414,478	202,148	48.8	212,330	51.2	na	na	na	na	na	na	na	na	na	na
Doctoral students															
2017new[e]	270,525	155,699	57.6	114,826	42.4	na	na	na	na	na	na	na	na	na	na
2018	277,096	158,019	57.0	119,077	43.0	na	na	na	na	na	na	na	na	na	na
2019	281,889	159,227	56.5	122,662	43.5	na	na	na	na	na	na	na	na	na	na
2020	283,335	157,765	55.7	125,570	44.3	na	na	na	na	na	na	na	na	na	na

na = not applicable; master's and doctoral students were not reported separately until 2017, and data on postdoctoral appointees (postdocs) and nonfaculty researchers (NFRs) were not collected until 1979. NA = not available; master's-granting institutions were not surveyed in 1978, and the survey of doctorate-granting institutions did not collect data by sex.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in https://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] In 2010, the postdoctoral (postdoc) and nonfaculty researcher (NFR) section of the survey was expanded and significant effort was made to ensure that appropriate personnel were providing postdoc and NFR data. Thus, it is unclear how much of the increases in 2010 and later years over 2009 and prior years are from growth in postdocs and NFRs and how much are from improved data collection. More information on the changes to the data collection is available at https://www.nsf.gov/statistics/infbrief/nsf13334/.

[c] Postdoc and NFR data from 2010 and 2011 were reimputed following the 2012 data collection; these data supersede those contained in previous reports.

[d] In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed academic institutions in the United States with master's- or doctorate-granting programs in science, engineering, or health. A total of 151 newly eligible institutions were added, and two private for-profit institutions offering mostly practitioner-based graduate degrees were determined to be ineligible. For more information, see https://www.nsf.gov/statistics/2016/nsf16314.

[e] As part of 2017 Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) redesign, the GSS taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy of Disciplines (TOD), thus increasing comparability with other NCSES surveys. As a result, some eligible fields were reclassified and a small number of fields became fully or partially ineligible. Comparisons to prior years should use the 2017old estimates and should be limited to broad areas of study—detailed field comparisons are not recommended. Due to changes in reporting, NFR estimates for 2017old are not available.

Note(s):
Percentages may not add to total because of rounding.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 1-2b

Sex of graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in science: 1977–2020

(Number and percent)

Year	Graduate students					Postdoctoral appointees					Doctorate-holding nonfaculty researchers				
	Total	Male		Female		Total	Male		Female		Total	Male		Female	
		Number	Percent	Number	Percent		Number	Percent	Number	Percent		Number	Percent	Number	Percent
1977	242,932	168,724	69.5	74,208	30.5	na	na	na	na	na	na	na	na	na	na
1978	236,465	NA	NA	NA	NA	na	na	na	na	na	na	na	na	na	na
1979	247,235	163,845	66.3	83,390	33.7	12,519	10,045	80.2	2,474	19.8	1,915	1,448	75.6	467	24.4
1980	251,265	163,212	65.0	88,053	35.0	13,042	10,427	79.9	2,615	20.1	2,184	1,662	76.1	522	23.9
1981	252,404	160,306	63.5	92,098	36.5	13,731	10,859	79.1	2,872	20.9	2,445	1,910	78.1	535	21.9
1982	255,146	160,354	62.8	94,792	37.2	13,698	10,538	76.9	3,160	23.1	2,809	2,177	77.5	632	22.5
1983	255,820	159,126	62.2	96,694	37.8	14,562	11,191	76.9	3,371	23.1	3,348	2,659	79.4	689	20.6
1984	256,903	159,672	62.2	97,231	37.8	14,979	11,446	76.4	3,533	23.6	3,442	2,654	77.1	788	22.9
1985	261,973	162,435	62.0	99,538	38.0	15,576	11,724	75.3	3,852	24.7	3,529	2,637	74.7	892	25.3
1986	266,077	164,075	61.7	102,002	38.3	16,512	12,288	74.4	4,224	25.6	3,356	2,456	73.2	900	26.8
1987	269,256	165,060	61.3	104,196	38.7	17,369	12,845	74.0	4,524	26.0	3,250	2,379	73.2	871	26.8
1988	272,309	164,199	60.3	108,110	39.7	18,024	13,282	73.7	4,742	26.3	3,348	2,483	74.2	865	25.8
1989	278,577	166,313	59.7	112,264	40.3	18,978	13,845	73.0	5,133	27.0	3,470	2,554	73.6	916	26.4
1990	289,383	170,340	58.9	119,043	41.1	19,853	14,426	72.7	5,427	27.3	3,745	2,804	74.9	941	25.1
1991	299,057	173,925	58.2	125,132	41.8	20,595	14,882	72.3	5,713	27.7	3,872	2,862	73.9	1,010	26.1
1992	312,478	179,486	57.4	132,992	42.6	21,514	15,336	71.3	6,178	28.7	3,660	2,727	74.5	933	25.5
1993	318,851	180,001	56.5	138,850	43.5	22,219	15,724	70.8	6,495	29.2	4,003	2,930	73.2	1,073	26.8
1994	318,118	177,057	55.7	141,061	44.3	23,181	16,218	70.0	6,963	30.0	4,156	3,022	72.7	1,134	27.3
1995	315,265	173,068	54.9	142,197	45.1	23,512	16,335	69.5	7,177	30.5	4,395	3,245	73.8	1,150	26.2
1996	311,957	168,540	54.0	143,417	46.0	23,892	16,585	69.4	7,307	30.6	4,426	3,185	72.0	1,241	28.0
1997	306,482	163,191	53.2	143,291	46.8	24,293	16,745	68.9	7,548	31.1	4,408	3,151	71.5	1,257	28.5
1998	304,818	160,379	52.6	144,439	47.4	25,023	17,080	68.3	7,943	31.7	4,497	3,182	70.8	1,315	29.2
1999	309,491	160,982	52.0	148,509	48.0	25,784	17,545	68.0	8,239	32.0	4,761	3,312	69.6	1,449	30.4
2000	309,424	159,691	51.6	149,733	48.4	26,911	18,456	68.6	8,455	31.4	4,931	3,447	69.9	1,484	30.1
2001	319,736	164,574	51.5	155,162	48.5	27,044	18,275	67.6	8,769	32.4	4,707	3,150	66.9	1,557	33.1
2002	335,166	171,516	51.2	163,650	48.8	28,371	18,844	66.4	9,527	33.6	5,019	3,369	67.1	1,650	32.9
2003	347,268	176,458	50.8	170,810	49.2	29,856	19,675	65.9	10,181	34.1	5,493	3,691	67.2	1,802	32.8
2004	352,307	177,714	50.4	174,593	49.6	30,116	19,835	65.9	10,281	34.1	5,880	3,877	65.9	2,003	34.1
2005	357,710	178,297	49.8	179,413	50.2	30,290	19,791	65.3	10,499	34.7	6,069	4,042	66.6	2,027	33.4
2006	363,246	180,084	49.6	183,162	50.4	30,245	19,542	64.6	10,703	35.4	6,658	4,460	67.0	2,198	33.0
2007old[a]	372,120	183,799	49.4	188,321	50.6	30,986	20,339	65.6	10,647	34.4	6,517	4,327	66.4	2,190	33.6
2007new[a]	384,523	187,722	48.8	196,801	51.2	31,281	20,532	65.6	10,749	34.4	6,526	4,332	66.4	2,194	33.6
2008	391,419	190,959	48.8	200,460	51.2	32,741	20,760	63.4	11,981	36.6	8,669	5,497	63.4	3,172	36.6
2009	401,008	196,577	49.0	204,431	51.0	34,388	21,616	62.9	12,772	37.1	8,698	5,421	62.3	3,277	37.7
2010[b,c]	407,291	201,263	49.4	206,028	50.6	37,351	23,052	61.7	14,299	38.3	12,751	7,819	61.3	4,932	38.7
2011[c]	414,440	205,449	49.6	208,991	50.4	37,335	23,027	61.7	14,308	38.3	13,363	8,245	61.7	5,118	38.3
2012	413,033	205,036	49.6	207,997	50.4	36,738	22,662	61.7	14,076	38.3	13,264	8,167	61.6	5,097	38.4
2013	417,251	208,262	49.9	208,989	50.1	36,289	22,340	61.6	13,949	38.4	13,932	8,534	61.3	5,398	38.7
2014old[d]	425,148	215,884	50.8	209,264	49.2	36,184	22,270	61.5	13,914	38.5	14,283	8,777	61.5	5,506	38.5
2014new[d]	437,395	223,592	51.1	213,803	48.9	37,316	22,953	61.5	14,363	38.5	14,674	8,977	61.2	5,697	38.8
2015	448,654	229,578	51.2	219,076	48.8	37,639	23,011	61.1	14,628	38.9	15,667	9,568	61.1	6,099	38.9
2016	452,046	231,826	51.3	220,220	48.7	37,941	23,225	61.2	14,716	38.8	15,940	9,681	60.7	6,259	39.3
2017old[e]	450,343	227,482	50.5	222,861	49.5	37,816	22,991	60.8	14,825	39.2	na	na	na	na	na
2017new[e]	415,568	214,568	51.6	201,000	48.4	38,241	23,262	60.8	14,979	39.2	17,268	10,346	59.9	6,922	40.1
2018	432,255	219,433	50.8	212,822	49.2	37,564	22,749	60.6	14,815	39.4	18,278	11,026	60.3	7,252	39.7
2019	453,691	226,904	50.0	226,787	50.0	38,503	23,069	59.9	15,434	40.1	18,819	11,253	59.8	7,566	40.2
2020	464,646	226,999	48.9	237,647	51.1	38,741	22,764	58.8	15,977	41.2	18,212	10,639	58.4	7,573	41.6

TABLE 1-2b

Sex of graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in science: 1977–2020

(Number and percent)

Year	Graduate students					Postdoctoral appointees					Doctorate-holding nonfaculty researchers				
		Male		Female			Male		Female			Male		Female	
	Total	Number	Percent	Number	Percent	Total	Number	Percent	Number	Percent	Total	Number	Percent	Number	Percent
Master's students															
2017new[e]	229,169	115,056	50.2	114,113	49.8	na	na	na	na	na	na	na	na	na	na
2018	241,327	118,413	49.1	122,914	50.9	na	na	na	na	na	na	na	na	na	na
2019	259,795	125,525	48.3	134,270	51.7	na	na	na	na	na	na	na	na	na	na
2020	267,904	125,619	46.9	142,285	53.1	na	na	na	na	na	na	na	na	na	na
Doctoral students															
2017new[e]	186,399	99,512	53.4	86,887	46.6	na	na	na	na	na	na	na	na	na	na
2018	190,928	101,020	52.9	89,908	47.1	na	na	na	na	na	na	na	na	na	na
2019	193,896	101,379	52.3	92,517	47.7	na	na	na	na	na	na	na	na	na	na
2020	196,742	101,380	51.5	95,362	48.5	na	na	na	na	na	na	na	na	na	na

na = not applicable; master's and doctoral students were not reported separately until 2017, and data on postdoctoral appointees (postdocs) and nonfaculty researchers (NFRs) were not collected until 1979. NA = not available; master's-granting institutions were not surveyed in 1978, and the survey of doctorate-granting institutions did not collect data by sex.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in https://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] In 2010, the postdoc and NFR section of the survey was expanded and significant effort was made to ensure that appropriate personnel were providing postdoc and NFR data. Thus, it is unclear how much of the increases in 2010 and later years over 2009 and prior years are from growth in postdocs and NFRs and how much are from improved data collection. More information on the changes to the data collection is available at https://www.nsf.gov/statistics/infbrief/nsf13334/.

[c] Postdoc and NFR data from 2010 and 2011 were reimputed following the 2012 data collection; these data supersede those contained in previous reports.

[d] In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed academic institutions in the United States with master's- or doctorate-granting programs in science, engineering, or health. A total of 151 newly eligible institutions were added, and two private for-profit institutions offering mostly practitioner-based graduate degrees were determined to be ineligible. For more information, see https://www.nsf.gov/statistics/2016/nsf16314.

[e] As part of 2017 Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) redesign, the GSS taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy of Disciplines (TOD), thus increasing comparability with other NCSES surveys. As a result, some eligible fields were reclassified and a small number of fields became fully or partially ineligible. Comparisons to prior years should use the 2017old estimates and should be limited to broad areas of study—detailed field comparisons are not recommended. Due to changes in reporting, NFR estimates for 2017old are not available.

Note(s):
Percentages may not add to total because of rounding.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 1-2c

Sex of graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in engineering: 1977–2020

(Number and percent)

Year	Graduate students					Postdoctoral appointees					Doctorate-holding nonfaculty researchers				
		Male		Female			Male		Female			Male		Female	
	Total	Number	Percent	Number	Percent	Total	Number	Percent	Number	Percent	Total	Number	Percent	Number	Percent
1977	68,757	65,051	94.6	3,706	5.4	na	na	na	na	na	na	na	na	na	na
1978	67,787	NA	NA	NA	NA	na	na	na	na	na	na	na	na	na	na
1979	71,808	65,921	91.8	5,887	8.2	1,067	1,017	95.3	50	4.7	273	260	95.2	13	4.8
1980	74,335	67,995	91.5	6,340	8.5	981	916	93.4	65	6.6	423	398	94.1	25	5.9
1981	79,585	71,838	90.3	7,747	9.7	1,040	958	92.1	82	7.9	503	471	93.6	32	6.4
1982	83,720	74,943	89.5	8,777	10.5	980	896	91.4	84	8.6	670	638	95.2	32	4.8
1983	91,146	81,337	89.2	9,809	10.8	1,108	1,019	92.0	89	8.0	631	596	94.5	35	5.5
1984	92,739	82,440	88.9	10,299	11.1	1,203	1,119	93.0	84	7.0	589	554	94.1	35	5.9
1985	96,018	84,935	88.5	11,083	11.5	1,356	1,255	92.6	101	7.4	615	564	91.7	51	8.3
1986	101,905	89,532	87.9	12,373	12.1	1,405	1,273	90.6	132	9.4	521	476	91.4	45	8.6
1987	103,983	91,012	87.5	12,971	12.5	1,446	1,297	89.7	149	10.3	443	399	90.1	44	9.9
1988	102,854	89,726	87.2	13,128	12.8	1,690	1,518	89.8	172	10.2	566	515	91.0	51	9.0
1989	104,065	90,457	86.9	13,608	13.1	1,928	1,750	90.8	178	9.2	581	525	90.4	56	9.6
1990	107,658	92,979	86.4	14,679	13.6	1,950	1,744	89.4	206	10.6	609	553	90.8	56	9.2
1991	113,535	97,837	86.2	15,698	13.8	2,262	2,024	89.5	238	10.5	659	600	91.0	59	9.0
1992	118,039	100,819	85.4	17,220	14.6	2,369	2,118	89.4	251	10.6	737	667	90.5	70	9.5
1993	116,872	99,184	84.9	17,688	15.1	2,446	2,164	88.5	282	11.5	805	728	90.4	77	9.6
1994	113,024	94,974	84.0	18,050	16.0	2,606	2,272	87.2	334	12.8	825	734	89.0	91	11.0
1995	107,201	89,188	83.2	18,013	16.8	2,648	2,327	87.9	321	12.1	789	701	88.8	88	11.2
1996	103,224	84,970	82.3	18,254	17.7	2,677	2,362	88.2	315	11.8	731	646	88.4	85	11.6
1997	101,148	82,428	81.5	18,720	18.5	2,971	2,625	88.4	346	11.6	848	733	86.4	115	13.6
1998	100,038	81,050	81.0	18,988	19.0	2,853	2,470	86.6	383	13.4	810	721	89.0	89	11.0
1999	101,691	81,804	80.4	19,887	19.6	3,196	2,727	85.3	469	14.7	940	815	86.7	125	13.3
2000	104,112	83,366	80.1	20,746	19.9	3,313	2,840	85.7	473	14.3	896	783	87.4	113	12.6
2001	109,493	87,236	79.7	22,257	20.3	3,152	2,666	84.6	486	15.4	801	691	86.3	110	13.7
2002	119,668	94,701	79.1	24,967	20.9	3,566	2,963	83.1	603	16.9	903	774	85.7	129	14.3
2003	127,377	99,790	78.3	27,587	21.7	3,810	3,207	84.2	603	15.8	952	816	85.7	136	14.3
2004	123,566	96,294	77.9	27,272	22.1	3,949	3,245	82.2	704	17.8	1,043	924	88.6	119	11.4
2005	120,565	93,670	77.7	26,895	22.3	4,166	3,436	82.5	730	17.5	946	824	87.1	122	12.9
2006	123,041	95,097	77.3	27,944	22.7	4,642	3,819	82.3	823	17.7	1,118	974	87.1	144	12.9
2007old[a]	130,255	100,281	77.0	29,974	23.0	4,908	4,073	83.0	835	17.0	1,298	1,104	85.1	194	14.9
2007new[a]	131,676	101,204	76.9	30,472	23.1	4,942	4,099	82.9	843	17.1	1,310	1,116	85.2	194	14.8
2008	137,856	106,319	77.1	31,537	22.9	5,462	4,359	79.8	1,103	20.2	1,419	1,169	82.4	250	17.6
2009	144,677	111,359	77.0	33,318	23.0	6,416	5,031	78.4	1,385	21.6	1,737	1,451	83.5	286	16.5
2010[b,c]	149,241	114,788	76.9	34,453	23.1	6,969	5,479	78.6	1,490	21.4	2,406	1,971	81.9	435	18.1
2011[c]	146,501	112,760	77.0	33,741	23.0	6,786	5,287	77.9	1,499	22.1	2,312	1,895	82.0	417	18.0
2012	148,385	113,834	76.7	34,551	23.3	7,103	5,514	77.6	1,589	22.4	2,497	2,023	81.0	474	19.0
2013	153,049	116,651	76.2	36,398	23.8	7,106	5,518	77.7	1,588	22.3	2,494	1,970	79.0	524	21.0
2014old[d]	162,013	123,056	76.0	38,957	24.0	7,292	5,650	77.5	1,642	22.5	2,744	2,148	78.3	596	21.7
2014new[d]	164,488	124,798	75.9	39,690	24.1	7,307	5,665	77.5	1,642	22.5	2,745	2,149	78.3	596	21.7
2015	169,354	128,845	76.1	40,509	23.9	7,656	5,959	77.8	1,697	22.2	2,929	2,297	78.4	632	21.6
2016	168,443	127,088	75.4	41,355	24.6	7,796	6,074	77.9	1,722	22.1	3,155	2,438	77.3	717	22.7
2017old[e]	166,819	125,105	75.0	41,714	25.0	7,929	6,157	77.7	1,772	22.3	na	na	na	na	na
2017new[e]	165,581	124,749	75.3	40,832	24.7	7,839	6,087	77.7	1,752	22.3	3,274	2,530	77.3	744	22.7
2018	163,301	121,935	74.7	41,366	25.3	7,914	6,046	76.4	1,868	23.6	3,570	2,749	77.0	821	23.0
2019	164,004	120,821	73.7	43,183	26.3	8,266	6,282	76.0	1,984	24.0	3,909	2,990	76.5	919	23.5
2020	157,729	115,133	73.0	42,596	27.0	8,462	6,360	75.2	2,102	24.8	3,921	3,021	77.0	900	23.0

TABLE 1-2c

Sex of graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in engineering: 1977–2020

(Number and percent)

Year	Graduate students					Postdoctoral appointees					Doctorate-holding nonfaculty researchers				
		Male		Female			Male		Female			Male		Female	
	Total	Number	Percent	Number	Percent	Total	Number	Percent	Number	Percent	Total	Number	Percent	Number	Percent
Master's students															
2017new[e]	96,756	73,410	75.9	23,346	24.1	na	na	na	na	na	na	na	na	na	na
2018	93,064	70,039	75.3	23,025	24.7	na	na	na	na	na	na	na	na	na	na
2019	91,939	68,076	74.0	23,863	26.0	na	na	na	na	na	na	na	na	na	na
2020	86,450	63,514	73.5	22,936	26.5	na	na	na	na	na	na	na	na	na	na
Doctoral students															
2017new[e]	68,825	51,339	74.6	17,486	25.4	na	na	na	na	na	na	na	na	na	na
2018	70,237	51,896	73.9	18,341	26.1	na	na	na	na	na	na	na	na	na	na
2019	72,065	52,745	73.2	19,320	26.8	na	na	na	na	na	na	na	na	na	na
2020	71,279	51,619	72.4	19,660	27.6	na	na	na	na	na	na	na	na	na	na

na = not applicable; master's and doctoral students were not reported separately until 2017, and data on postdoctoral appointees (postdocs) and nonfaculty researchers (NFRs) were not collected until 1979. NA = not available; master's-granting institutions were not surveyed in 1978, and the survey of doctorate-granting institutions did not collect data by sex.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in https://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] In 2010, the postdoc and NFR section of the survey was expanded and significant effort was made to ensure that appropriate personnel were providing postdoc and NFR data. Thus, it is unclear how much of the increases in 2010 and later years over 2009 and prior years are from growth in postdocs and NFRs and how much are from improved data collection. More information on the changes to the data collection is available at https://www.nsf.gov/statistics/infbrief/nsf13334/.

[c] Postdoc and NFR data from 2010 and 2011 were reimputed following the 2012 data collection; these data supersede those contained in previous reports.

[d] In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed academic institutions in the United States with master's- or doctorate-granting programs in science, engineering, or health. A total of 151 newly eligible institutions were added, and two private for-profit institutions offering mostly practitioner-based graduate degrees were determined to be ineligible. For more information, see https://www.nsf.gov/statistics/2016/nsf16314.

[e] As part of 2017 Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) redesign, the GSS taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy of Disciplines (TOD), thus increasing comparability with other NCSES surveys. As a result, some eligible fields were reclassified and a small number of fields became fully or partially ineligible. Comparisons to prior years should use the 2017old estimates and should be limited to broad areas of study—detailed field comparisons are not recommended. Due to changes in reporting, NFR estimates for 2017old are not available.

Note(s):
Percentages may not add to total because of rounding.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 1-2d

Sex of graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in health: 1977–2020

(Number and percent)

Year	Graduate students					Postdoctoral appointees					Doctorate-holding nonfaculty researchers				
		Male		Female			Male		Female			Male		Female	
	Total	Number	Percent	Number	Percent	Total	Number	Percent	Number	Percent	Total	Number	Percent	Number	Percent
1977	33,685	11,149	33.1	22,536	66.9	na	na	na	na	na	na	na	na	na	na
1978	35,660	NA	NA	NA	NA	na	na	na	na	na	na	na	na	na	na
1979	38,535	11,073	28.7	27,462	71.3	4,515	3,699	81.9	816	18.1	499	368	73.7	131	26.3
1980	41,478	11,749	28.3	29,729	71.7	4,376	3,513	80.3	863	19.7	653	511	78.3	142	21.7
1981	43,141	11,414	26.5	31,727	73.5	4,863	3,737	76.8	1,126	23.2	611	428	70.0	183	30.0
1982	43,425	11,001	25.3	32,424	74.7	4,685	3,558	75.9	1,127	24.1	547	368	67.3	179	32.7
1983	43,466	10,465	24.1	33,001	75.9	5,042	3,709	73.6	1,333	26.4	917	660	72.0	257	28.0
1984	45,028	10,541	23.4	34,487	76.6	5,353	3,929	73.4	1,424	26.6	1,011	688	68.1	323	31.9
1985	46,030	10,846	23.6	35,184	76.4	5,455	3,994	73.2	1,461	26.8	959	625	65.2	334	34.8
1986	47,538	11,126	23.4	36,412	76.6	5,804	4,180	72.0	1,624	28.0	969	654	67.5	315	32.5
1987	48,258	11,869	24.6	36,389	75.4	6,066	4,356	71.8	1,710	28.2	904	576	63.7	328	36.3
1988	49,360	11,465	23.2	37,895	76.8	6,409	4,521	70.5	1,888	29.5	955	605	63.4	350	36.6
1989	51,836	11,955	23.1	39,881	76.9	7,026	4,965	70.7	2,061	29.3	857	544	63.5	313	36.5
1990	55,072	12,353	22.4	42,719	77.6	7,762	5,402	69.6	2,360	30.4	901	522	57.9	379	42.1
1991	58,620	13,135	22.4	45,485	77.6	8,008	5,500	68.7	2,508	31.3	947	564	59.6	383	40.4
1992	63,005	13,917	22.1	49,088	77.9	8,864	5,996	67.6	2,868	32.4	1,085	642	59.2	443	40.8
1993	68,581	15,291	22.3	53,290	77.7	9,657	6,493	67.2	3,164	32.8	1,193	718	60.2	475	39.8
1994	73,257	16,324	22.3	56,933	77.7	10,590	6,981	65.9	3,609	34.1	1,228	731	59.5	497	40.5
1995	77,174	17,049	22.1	60,125	77.9	9,766	6,362	65.1	3,404	34.9	1,350	839	62.1	511	37.9
1996	78,898	18,150	23.0	60,748	77.0	10,538	6,894	65.4	3,644	34.6	1,447	861	59.5	586	40.5
1997	79,578	18,878	23.7	60,700	76.3	11,217	7,136	63.6	4,081	36.4	1,466	849	57.9	617	42.1
1998	80,771	19,590	24.3	61,181	75.7	12,210	7,699	63.1	4,511	36.9	1,793	1,082	60.3	711	39.7
1999	82,074	19,889	24.2	62,185	75.8	11,820	7,559	64.0	4,261	36.0	1,872	1,117	59.7	755	40.3
2000	79,775	19,052	23.9	60,723	76.1	12,891	8,310	64.5	4,581	35.5	2,052	1,263	61.5	789	38.5
2001	80,378	19,345	24.1	61,033	75.9	13,115	8,369	63.8	4,746	36.2	2,023	1,200	59.3	823	40.7
2002	85,570	20,842	24.4	64,728	75.6	13,097	8,043	61.4	5,054	38.6	1,984	1,186	59.8	798	40.2
2003	92,476	22,434	24.3	70,042	75.7	13,062	7,810	59.8	5,252	40.2	2,028	1,193	58.8	835	41.2
2004	98,590	22,706	23.0	75,884	77.0	13,175	7,787	59.1	5,388	40.9	2,152	1,248	58.0	904	42.0
2005	103,951	23,324	22.4	80,627	77.6	14,099	8,288	58.8	5,811	41.2	2,512	1,439	57.3	1,073	42.7
2006	111,356	24,637	22.1	86,719	77.9	14,456	8,399	58.1	6,057	41.9	3,038	1,756	57.8	1,282	42.2
2007old[a]	105,448	24,072	22.8	81,376	77.2	14,818	8,448	57.0	6,370	43.0	2,921	1,629	55.8	1,292	44.2
2007new[a]	103,300	23,083	22.3	80,217	77.7	14,617	8,311	56.9	6,306	43.1	2,916	1,617	55.5	1,299	44.5
2008	102,214	23,032	22.5	79,182	77.5	15,961	8,824	55.3	7,137	44.7	3,659	2,001	54.7	1,658	45.3
2009	85,960	20,589	24.0	65,371	76.0	17,001	9,340	54.9	7,661	45.1	3,624	1,923	53.1	1,701	46.9
2010[b,c]	76,120	19,430	25.5	56,690	74.5	19,119	10,338	54.1	8,781	45.9	6,188	3,137	50.7	3,051	49.3
2011[c]	65,879	17,061	25.9	48,818	74.1	18,518	9,853	53.2	8,665	46.8	5,823	2,965	50.9	2,858	49.1
2012	65,825	17,317	26.3	48,508	73.7	19,010	9,990	52.6	9,020	47.4	6,147	3,060	49.8	3,087	50.2
2013	62,710	16,717	26.7	45,993	73.3	18,547	9,727	52.4	8,820	47.6	6,039	3,113	51.5	2,926	48.5
2014old[d]	63,577	17,071	26.9	46,506	73.1	18,903	9,832	52.0	9,071	48.0	6,263	3,174	50.7	3,089	49.3
2014new[d]	64,703	17,451	27.0	47,252	73.0	18,970	9,873	52.0	9,097	48.0	6,287	3,188	50.7	3,099	49.3
2015	67,389	17,873	26.5	49,516	73.5	18,566	9,596	51.7	8,970	48.3	6,696	3,384	50.5	3,312	49.5
2016	64,336	16,655	25.9	47,681	74.1	18,975	9,819	51.7	9,156	48.3	6,652	3,318	49.9	3,334	50.1
2017old[e]	66,934	16,739	25.0	50,195	75.0	19,143	9,788	51.1	9,355	48.9	na	na	na	na	na
2017new[e]	67,963	17,130	25.2	50,833	74.8	18,653	9,521	51.0	9,132	49.0	7,638	3,704	48.5	3,934	51.5
2018	72,751	17,965	24.7	54,786	75.3	19,305	9,866	51.1	9,439	48.9	7,436	3,693	49.7	3,743	50.3
2019	72,422	17,270	23.8	55,152	76.2	19,478	9,822	50.4	9,656	49.6	7,621	3,737	49.0	3,884	51.0
2020	75,438	17,781	23.6	57,657	76.4	18,478	9,115	49.3	9,363	50.7	7,528	3,595	47.8	3,933	52.2

TABLE 1-2d

Sex of graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in health: 1977–2020

(Number and percent)

Year	Graduate students					Postdoctoral appointees					Doctorate-holding nonfaculty researchers				
		Male		Female			Male		Female			Male		Female	
	Total	Number	Percent	Number	Percent	Total	Number	Percent	Number	Percent	Total	Number	Percent	Number	Percent
Master's students															
2017new[e]	52,662	12,282	23.3	40,380	76.7	na	na	na	na	na	na	na	na	na	na
2018	56,820	12,862	22.6	43,958	77.4	na	na	na	na	na	na	na	na	na	na
2019	56,494	12,167	21.5	44,327	78.5	na	na	na	na	na	na	na	na	na	na
2020	60,124	13,015	21.6	47,109	78.4	na	na	na	na	na	na	na	na	na	na
Doctoral students															
2017new[e]	15,301	4,848	31.7	10,453	68.3	na	na	na	na	na	na	na	na	na	na
2018	15,931	5,103	32.0	10,828	68.0	na	na	na	na	na	na	na	na	na	na
2019	15,928	5,103	32.0	10,825	68.0	na	na	na	na	na	na	na	na	na	na
2020	15,314	4,766	31.1	10,548	68.9	na	na	na	na	na	na	na	na	na	na

na = not applicable; master's and doctoral students were not reported separately until 2017, and data on postdoctoral appointees (postdocs) and nonfaculty researchers (NFRs) were not collected until 1979. NA = not available; master's-granting institutions were not surveyed in 1978, and the survey of doctorate-granting institutions did not collect data by sex.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in https://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] In 2010, the postdoc and NFR section of the survey was expanded and significant effort was made to ensure that appropriate personnel were providing postdoc and NFR data. Thus, it is unclear how much of the increases in 2010 and later years over 2009 and prior years are from growth in postdocs and NFRs and how much are from improved data collection. More information on the changes to the data collection is available at https://www.nsf.gov/statistics/infbrief/nsf13334/.

[c] Postdoc and NFR data from 2010 and 2011 were reimputed following the 2012 data collection; these data supersede those contained in previous reports.

[d] In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed academic institutions in the United States with master's- or doctorate-granting programs in science, engineering, or health. A total of 151 newly eligible institutions were added, and two private for-profit institutions offering mostly practitioner-based graduate degrees were determined to be ineligible. For more information, see https://www.nsf.gov/statistics/2016/nsf16314.

[e] As part of 2017 Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) redesign, the GSS taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy of Disciplines (TOD), thus increasing comparability with other NCSES surveys. As a result, some eligible fields were reclassified and a small number of fields became fully or partially ineligible. Comparisons to prior years should use the 2017old estimates and should be limited to broad areas of study—detailed field comparisons are not recommended. Due to changes in reporting, NFR estimates for 2017old are not available.

Note(s):
Percentages may not add to total because of rounding.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 1-3a

Citizenship of graduate students and postdoctoral appointees in science, engineering, and health: 1980–2020

(Number and percent)

	Graduate students					Postdoctoral appointees				
		U.S. citizens and permanent residents		Temporary visa holders			U.S. citizens and permanent residents		Temporary visa holders	
Year	Total	Number	Percent	Number	Percent	Total	Number	Percent	Number	Percent
1980	367,078	316,776	86.3	50,302	13.7	18,399	11,893	64.6	6,506	35.4
1981	375,130	320,655	85.5	54,475	14.5	19,634	12,340	62.9	7,294	37.1
1982	382,291	314,458	82.3	67,833	17.7	19,363	12,129	62.6	7,234	37.4
1983	390,432	317,185	81.2	73,247	18.8	20,712	13,193	63.7	7,519	36.3
1984	394,670	319,648	81.0	75,022	19.0	21,535	13,548	62.9	7,987	37.1
1985	404,021	324,081	80.2	79,940	19.8	22,387	13,528	60.4	8,859	39.6
1986	415,520	328,234	79.0	87,286	21.0	23,721	14,041	59.2	9,680	40.8
1987	421,497	329,350	78.1	92,147	21.9	24,881	14,133	56.8	10,748	43.2
1988	424,523	327,279	77.1	97,244	22.9	26,123	14,420	55.2	11,703	44.8
1989	434,478	332,503	76.5	101,975	23.5	27,932	14,863	53.2	13,069	46.8
1990	452,113	345,047	76.3	107,066	23.7	29,565	15,115	51.1	14,450	48.9
1991	471,212	358,025	76.0	113,187	24.0	30,865	15,135	49.0	15,730	51.0
1992	493,522	379,605	76.9	113,917	23.1	32,747	15,800	48.2	16,947	51.8
1993	504,304	393,985	78.1	110,319	21.9	34,322	16,727	48.7	17,595	51.3
1994	504,399	397,852	78.9	106,547	21.1	36,377	17,986	49.4	18,391	50.6
1995	499,640	396,755	79.4	102,885	20.6	35,926	18,142	50.5	17,784	49.5
1996	494,079	391,095	79.2	102,984	20.8	37,107	18,412	49.6	18,695	50.4
1997	487,208	383,327	78.7	103,881	21.3	38,481	18,916	49.2	19,565	50.8
1998	485,627	378,560	78.0	107,067	22.0	40,086	19,710	49.2	20,376	50.8
1999	493,256	377,802	76.6	115,454	23.4	40,800	18,884	46.3	21,916	53.7
2000	493,311	364,894	74.0	128,417	26.0	43,115	19,452	45.1	23,663	54.9
2001	509,607	368,737	72.4	140,870	27.6	43,311	18,379	42.4	24,932	57.6
2002	540,404	387,416	71.7	152,988	28.3	45,034	19,663	43.7	25,371	56.3
2003	567,121	412,105	72.7	155,016	27.3	46,728	19,663	42.1	27,065	57.9
2004	574,463	423,218	73.7	151,245	26.3	47,240	20,156	42.7	27,084	57.3
2005	582,226	434,730	74.7	147,496	25.3	48,555	21,507	44.3	27,048	55.7
2006	597,643	446,625	74.7	151,018	25.3	49,343	21,147	42.9	28,196	57.1
2007old[a]	607,823	450,251	74.1	157,572	25.9	50,712	22,022	43.4	28,690	56.6
2007new[a]	619,499	460,294	74.3	159,205	25.7	50,840	22,103	43.5	28,737	56.5
2008	631,489	463,450	73.4	168,039	26.6	54,164	24,915	46.0	29,249	54.0
2009	631,645	459,648	72.8	171,997	27.2	57,805	27,105	46.9	30,700	53.1
2010[b,c]	632,652	458,492	72.5	174,160	27.5	63,439	30,155	47.5	33,284	52.5
2011[c]	626,820	450,523	71.9	176,297	28.1	62,639	29,712	47.4	32,927	52.6
2012	627,243	443,697	70.7	183,546	29.3	62,851	29,864	47.5	32,987	52.5
2013	633,010	436,296	68.9	196,714	31.1	61,942	29,546	47.7	32,396	52.3
2014old[d]	650,738	429,133	65.9	221,605	34.1	62,379	29,630	47.5	32,749	52.5
2014new[d]	666,586	439,309	65.9	227,277	34.1	63,593	30,095	47.3	33,498	52.7
2015	685,397	441,956	64.5	243,441	35.5	63,861	28,726	45.0	35,135	55.0
2016	684,825	436,139	63.7	248,686	36.3	64,712	29,810	46.1	34,902	53.9
2017old[e]	684,096	446,676	65.3	237,420	34.7	64,888	30,197	46.5	34,691	53.5
2017new[e]	649,112	416,481	64.2	232,631	35.8	64,733	30,110	46.5	34,623	53.5
2018	668,307	438,581	65.6	229,726	34.4	64,783	29,622	45.7	35,161	54.3
2019	690,117	456,504	66.1	233,613	33.9	66,247	29,452	44.5	36,795	55.5
2020	697,813	487,051	69.8	210,762	30.2	65,681	29,890	45.5	35,791	54.5
Master's students										

TABLE 1-3a

Citizenship of graduate students and postdoctoral appointees in science, engineering, and health: 1980–2020

(Number and percent)

Year	Graduate students					Postdoctoral appointees				
	Total	U.S. citizens and permanent residents		Temporary visa holders		Total	U.S. citizens and permanent residents		Temporary visa holders	
		Number	Percent	Number	Percent		Number	Percent	Number	Percent
2017new[e]	378,587	251,896	66.5	126,691	33.5	na	na	na	na	na
2018	391,211	271,290	69.3	119,921	30.7	na	na	na	na	na
2019	408,228	287,370	70.4	120,858	29.6	na	na	na	na	na
2020	414,478	314,305	75.8	100,173	24.2	na	na	na	na	na
Doctoral students										
2017new[e]	270,525	164,585	60.8	105,940	39.2	na	na	na	na	na
2018	277,096	167,291	60.4	109,805	39.6	na	na	na	na	na
2019	281,889	169,134	60.0	112,755	40.0	na	na	na	na	na
2020	283,335	172,746	61.0	110,589	39.0	na	na	na	na	na

na = not applicable; master's and doctoral students were not reported separately until 2017.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in https://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] In 2010, the postdoctoral (postdoc) section of the survey was expanded and significant effort was made to ensure that appropriate personnel were providing postdoc and nonfaculty researcher (NFR) data. Thus, it is unclear how much of the increases in 2010 and later years over 2009 and prior years are from growth in postdocs and NFRs and how much are from improved data collection. More information on the changes to the data collection is available at https://www.nsf.gov/statistics/infbrief/nsf13334/.

[c] Postdoc and NFR data from 2010 and 2011 were reimputed following the 2012 data collection; these data supersede those contained in previous reports.

[d] In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed academic institutions in the United States with master's- or doctorate-granting programs in science, engineering, or health. A total of 151 newly eligible institutions were added, and two private for-profit institutions offering mostly practitioner-based graduate degrees were determined to be ineligible. For more information, see https://www.nsf.gov/statistics/2016/nsf16314.

[e] As part of 2017 Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) redesign, the GSS taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy of Disciplines (TOD), thus increasing comparability with other NCSES surveys. As a result, some eligible fields were reclassified and a small number of fields became fully or partially ineligible. Comparisons to prior years should use the 2017old estimates and should be limited to broad areas of study—detailed field comparisons are not recommended.

Note(s):
Percentages may not add to total because of rounding.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 1-3b

Citizenship of graduate students and postdoctoral appointees in science: 1980–2020

(Number and percent)

	Graduate students					Postdoctoral appointees				
		U.S. citizens and permanent residents		Temporary visa holders			U.S. citizens and permanent residents		Temporary visa holders	
Year	Total	Number	Percent	Number	Percent	Total	Number	Percent	Number	Percent
1980	251,265	220,903	87.9	30,362	12.1	13,042	8,307	63.7	4,735	36.3
1981	252,404	219,762	87.1	32,642	12.9	13,731	8,504	61.9	5,227	38.1
1982	255,146	215,397	84.4	39,749	15.6	13,698	8,393	61.3	5,305	38.7
1983	255,820	213,114	83.3	42,706	16.7	14,562	9,063	62.2	5,499	37.8
1984	256,903	212,717	82.8	44,186	17.2	14,979	9,248	61.7	5,731	38.3
1985	261,973	214,014	81.7	47,959	18.3	15,576	9,300	59.7	6,276	40.3
1986	266,077	214,097	80.5	51,980	19.5	16,512	9,660	58.5	6,852	41.5
1987	269,256	213,882	79.4	55,374	20.6	17,369	9,835	56.6	7,534	43.4
1988	272,309	213,945	78.6	58,364	21.4	18,024	9,856	54.7	8,168	45.3
1989	278,577	217,211	78.0	61,366	22.0	18,978	10,028	52.8	8,950	47.2
1990	289,383	224,792	77.7	64,591	22.3	19,853	10,056	50.7	9,797	49.3
1991	299,057	231,803	77.5	67,254	22.5	20,595	10,152	49.3	10,443	50.7
1992	312,478	244,514	78.2	67,964	21.8	21,514	10,417	48.4	11,097	51.6
1993	318,851	252,480	79.2	66,371	20.8	22,219	10,792	48.6	11,427	51.4
1994	318,118	253,008	79.5	65,110	20.5	23,181	11,451	49.4	11,730	50.6
1995	315,265	252,245	80.0	63,020	20.0	23,512	11,824	50.3	11,688	49.7
1996	311,957	248,907	79.8	63,050	20.2	23,892	11,880	49.7	12,012	50.3
1997	306,482	244,026	79.6	62,456	20.4	24,293	11,746	48.4	12,547	51.6
1998	304,818	240,630	78.9	64,188	21.1	25,023	12,016	48.0	13,007	52.0
1999	309,491	241,066	77.9	68,425	22.1	25,784	11,707	45.4	14,077	54.6
2000	309,424	234,000	75.6	75,424	24.4	26,911	11,558	42.9	15,353	57.1
2001	319,736	237,718	74.3	82,018	25.7	27,044	11,108	41.1	15,936	58.9
2002	335,166	247,842	73.9	87,324	26.1	28,371	12,407	43.7	15,964	56.3
2003	347,268	259,871	74.8	87,397	25.2	29,856	12,409	41.6	17,447	58.4
2004	352,307	265,643	75.4	86,664	24.6	30,116	12,672	42.1	17,444	57.9
2005	357,710	271,962	76.0	85,748	24.0	30,290	12,665	41.8	17,625	58.2
2006	363,246	275,905	76.0	87,341	24.0	30,245	12,573	41.6	17,672	58.4
2007old[a]	372,120	282,785	76.0	89,335	24.0	30,986	13,312	43.0	17,674	57.0
2007new[a]	384,523	293,792	76.4	90,731	23.6	31,281	13,513	43.2	17,768	56.8
2008	391,419	295,530	75.5	95,889	24.5	32,741	14,375	43.9	18,366	56.1
2009	401,008	303,700	75.7	97,308	24.3	34,388	15,800	45.9	18,588	54.1
2010[b,c]	407,291	308,108	75.6	99,183	24.4	37,351	17,793	47.6	19,558	52.4
2011[c]	414,440	312,846	75.5	101,594	24.5	37,335	17,706	47.4	19,629	52.6
2012	413,033	308,042	74.6	104,991	25.4	36,738	17,476	47.6	19,262	52.4
2013	417,251	305,563	73.2	111,688	26.8	36,289	17,551	48.4	18,738	51.6
2014old[d]	425,148	300,110	70.6	125,038	29.4	36,184	17,229	47.6	18,955	52.4
2014new[d]	437,395	308,499	70.5	128,896	29.5	37,316	17,661	47.3	19,655	52.7
2015	448,654	309,182	68.9	139,472	31.1	37,639	17,072	45.4	20,567	54.6
2016	452,046	306,710	67.8	145,336	32.2	37,941	17,615	46.4	20,326	53.6
2017old[e]	450,343	310,973	69.1	139,370	30.9	37,816	17,803	47.1	20,013	52.9
2017new[e]	415,568	281,057	67.6	134,511	32.4	38,241	17,993	47.1	20,248	52.9
2018	432,255	297,277	68.8	134,978	31.2	37,564	17,447	46.4	20,117	53.6
2019	453,691	312,368	68.9	141,323	31.1	38,503	17,344	45.0	21,159	55.0
2020	464,646	334,959	72.1	129,687	27.9	38,741	18,276	47.2	20,465	52.8
Master's students										

TABLE 1-3b

Citizenship of graduate students and postdoctoral appointees in science: 1980–2020

(Number and percent)

Year	Graduate students					Postdoctoral appointees				
	Total	U.S. citizens and permanent residents		Temporary visa holders		Total	U.S. citizens and permanent residents		Temporary visa holders	
		Number	Percent	Number	Percent		Number	Percent	Number	Percent
2017new[e]	229,169	156,831	68.4	72,338	31.6	na	na	na	na	na
2018	241,327	171,049	70.9	70,278	29.1	na	na	na	na	na
2019	259,795	185,378	71.4	74,417	28.6	na	na	na	na	na
2020	267,904	204,677	76.4	63,227	23.6	na	na	na	na	na
Doctoral students										
2017new[e]	186,399	124,226	66.6	62,173	33.4	na	na	na	na	na
2018	190,928	126,228	66.1	64,700	33.9	na	na	na	na	na
2019	193,896	126,990	65.5	66,906	34.5	na	na	na	na	na
2020	196,742	130,282	66.2	66,460	33.8	na	na	na	na	na

na = not applicable; master's and doctoral students were not reported separately until 2017.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in https://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] In 2010, the postdoctoral (postdoc) and nonfaculty researcher (NFR) section of the survey was expanded and significant effort was made to ensure that appropriate personnel were providing postdoc and NFR data. Thus, it is unclear how much of the increases in 2010 and later years over 2009 and prior years are from growth in postdocs and NFRs and how much are from improved data collection. More information on the changes to the data collection is available at https://www.nsf.gov/statistics/infbrief/nsf13334/.

[c] Postdoc and NFR data from 2010 and 2011 were reimputed following the 2012 data collection; these data supersede those contained in previous reports.

[d] In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed academic institutions in the United States with master's- or doctorate-granting programs in science, engineering, or health. A total of 151 newly eligible institutions were added, and two private for-profit institutions offering mostly practitioner-based graduate degrees were determined to be ineligible. For more information, see https://www.nsf.gov/statistics/2016/nsf16314.

[e] As part of 2017 Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) redesign, the GSS taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy of Disciplines (TOD), thus increasing comparability with other NCSES surveys. As a result, some eligible fields were reclassified and a small number of fields became fully or partially ineligible. Comparisons to prior years should use the 2017old estimates and should be limited to broad areas of study—detailed field comparisons are not recommended.

Note(s):
Percentages may not add to total because of rounding

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 1-3c

Citizenship of graduate students and postdoctoral appointees in engineering: 1980–2020

(Number and percent)

	Graduate students					Postdoctoral appointees				
		U.S. citizens and permanent residents		Temporary visa holders			U.S. citizens and permanent residents		Temporary visa holders	
Year	Total	Number	Percent	Number	Percent	Total	Number	Percent	Number	Percent
1980	74,335	56,438	75.9	17,897	24.1	981	303	30.9	678	69.1
1981	79,585	59,898	75.3	19,687	24.7	1,040	332	31.9	708	68.1
1982	83,720	58,656	70.1	25,064	29.9	980	323	33.0	657	67.0
1983	91,146	63,649	69.8	27,497	30.2	1,108	414	37.4	694	62.6
1984	92,739	64,832	69.9	27,907	30.1	1,203	439	36.5	764	63.5
1985	96,018	67,187	70.0	28,831	30.0	1,356	443	32.7	913	67.3
1986	101,905	69,949	68.6	31,956	31.4	1,405	460	32.7	945	67.3
1987	103,983	70,594	67.9	33,389	32.1	1,446	497	34.4	949	65.6
1988	102,854	67,617	65.7	35,237	34.3	1,690	588	34.8	1,102	65.2
1989	104,065	67,365	64.7	36,700	35.3	1,928	657	34.1	1,271	65.9
1990	107,658	69,454	64.5	38,204	35.5	1,950	613	31.4	1,337	68.6
1991	113,535	72,181	63.6	41,354	36.4	2,262	655	29.0	1,607	71.0
1992	118,039	76,569	64.9	41,470	35.1	2,369	767	32.4	1,602	67.6
1993	116,872	77,577	66.4	39,295	33.6	2,446	843	34.5	1,603	65.5
1994	113,024	76,018	67.3	37,006	32.7	2,606	1,018	39.1	1,588	60.9
1995	107,201	71,717	66.9	35,484	33.1	2,648	999	37.7	1,649	62.3
1996	103,224	68,168	66.0	35,056	34.0	2,677	1,050	39.2	1,627	60.8
1997	101,148	64,642	63.9	36,506	36.1	2,971	1,089	36.7	1,882	63.3
1998	100,038	62,249	62.2	37,789	37.8	2,853	950	33.3	1,903	66.7
1999	101,691	60,188	59.2	41,503	40.8	3,196	1,018	31.9	2,178	68.1
2000	104,112	56,651	54.4	47,461	45.6	3,313	1,069	32.3	2,244	67.7
2001	109,493	56,890	52.0	52,603	48.0	3,152	965	30.6	2,187	69.4
2002	119,668	61,277	51.2	58,391	48.8	3,566	1,117	31.3	2,449	68.7
2003	127,377	67,310	52.8	60,067	47.2	3,810	1,133	29.7	2,677	70.3
2004	123,566	66,379	53.7	57,187	46.3	3,949	1,297	32.8	2,652	67.2
2005	120,565	66,551	55.2	54,014	44.8	4,166	1,413	33.9	2,753	66.1
2006	123,041	67,698	55.0	55,343	45.0	4,642	1,538	33.1	3,104	66.9
2007old[a]	130,255	70,357	54.0	59,898	46.0	4,908	1,591	32.4	3,317	67.6
2007new[a]	131,676	71,299	54.1	60,377	45.9	4,942	1,594	32.3	3,348	67.7
2008	137,856	74,251	53.9	63,605	46.1	5,462	1,899	34.8	3,563	65.2
2009	144,677	78,642	54.4	66,035	45.6	6,416	2,375	37.0	4,041	63.0
2010[b,c]	149,241	82,295	55.1	66,946	44.9	6,969	2,637	37.8	4,332	62.2
2011[c]	146,501	79,314	54.1	67,187	45.9	6,786	2,634	38.8	4,152	61.2
2012	148,385	77,301	52.1	71,084	47.9	7,103	2,738	38.5	4,365	61.5
2013	153,049	75,662	49.4	77,387	50.6	7,106	2,706	38.1	4,400	61.9
2014old[d]	162,013	73,268	45.2	88,745	54.8	7,292	2,789	38.2	4,503	61.8
2014new[d]	164,488	74,013	45.0	90,475	55.0	7,307	2,792	38.2	4,515	61.8
2015	169,354	73,452	43.4	95,902	56.6	7,656	2,521	32.9	5,135	67.1
2016	168,443	73,039	43.4	95,404	56.6	7,796	2,590	33.2	5,206	66.8
2017old[e]	166,819	76,182	45.7	90,637	54.3	7,929	2,662	33.6	5,267	66.4
2017new[e]	165,581	75,160	45.4	90,421	54.6	7,839	2,650	33.8	5,189	66.2
2018	163,301	76,770	47.0	86,531	53.0	7,914	2,656	33.6	5,258	66.4
2019	164,004	79,982	48.8	84,022	51.2	8,266	2,689	32.5	5,577	67.5
2020	157,729	84,403	53.5	73,326	46.5	8,462	2,793	33.0	5,669	67.0
Master's students										

TABLE 1-3c

Citizenship of graduate students and postdoctoral appointees in engineering: 1980–2020

(Number and percent)

Year	Graduate students					Postdoctoral appointees				
		U.S. citizens and permanent residents		Temporary visa holders			U.S. citizens and permanent residents		Temporary visa holders	
	Total	Number	Percent	Number	Percent	Total	Number	Percent	Number	Percent
2017new[e]	96,756	46,470	48.0	50,286	52.0	na	na	na	na	na
2018	93,064	47,813	51.4	45,251	48.6	na	na	na	na	na
2019	91,939	49,873	54.2	42,066	45.8	na	na	na	na	na
2020	86,450	53,643	62.1	32,807	37.9	na	na	na	na	na
Doctoral students										
2017new[e]	68,825	28,690	41.7	40,135	58.3	na	na	na	na	na
2018	70,237	28,957	41.2	41,280	58.8	na	na	na	na	na
2019	72,065	30,109	41.8	41,956	58.2	na	na	na	na	na
2020	71,279	30,760	43.2	40,519	56.8	na	na	na	na	na

na = not applicable; master's and doctoral students were not reported separately until 2017.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in https://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] In 2010, the postdoctoral (postdoc) and nonfaculty researcher (NFR) section of the survey was expanded and significant effort was made to ensure that appropriate personnel were providing postdoc and NFR data. Thus, it is unclear how much of the increases in 2010 and later years over 2009 and prior years are from growth in postdocs and NFRs and how much are from improved data collection. More information on the changes to the data collection is available at https://www.nsf.gov/statistics/infbrief/nsf13334/.

[c] Postdoc and NFR data from 2010 and 2011 were reimputed following the 2012 data collection; these data supersede those contained in previous reports.

[d] In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed academic institutions in the United States with master's- or doctorate-granting programs in science, engineering, or health. A total of 151 newly eligible institutions were added, and two private for-profit institutions offering mostly practitioner-based graduate degrees were determined to be ineligible. For more information, see https://www.nsf.gov/statistics/2016/nsf16314.

[e] As part of 2017 Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) redesign, the GSS taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy of Disciplines (TOD), thus increasing comparability with other NCSES surveys. As a result, some eligible fields were reclassified and a small number of fields became fully or partially ineligible. Comparisons to prior years should use the 2017old estimates and should be limited to broad areas of study—detailed field comparisons are not recommended.

Note(s):
Percentages may not add to total because of rounding.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 1-3d

Citizenship of graduate students and postdoctoral appointees in health: 1980–2020

(Number and percent)

	Graduate students					Postdoctoral appointees				
		U.S. citizens and permanent residents		Temporary visa holders			U.S. citizens and permanent residents		Temporary visa holders	
Year	Total	Number	Percent	Number	Percent	Total	Number	Percent	Number	Percent
1980	41,478	39,435	95.1	2,043	4.9	4,376	3,283	75.0	1,093	25.0
1981	43,141	40,995	95.0	2,146	5.0	4,863	3,504	72.1	1,359	27.9
1982	43,425	40,405	93.0	3,020	7.0	4,685	3,413	72.8	1,272	27.2
1983	43,466	40,422	93.0	3,044	7.0	5,042	3,716	73.7	1,326	26.3
1984	45,028	42,099	93.5	2,929	6.5	5,353	3,861	72.1	1,492	27.9
1985	46,030	42,880	93.2	3,150	6.8	5,455	3,785	69.4	1,670	30.6
1986	47,538	44,188	93.0	3,350	7.0	5,804	3,921	67.6	1,883	32.4
1987	48,258	44,874	93.0	3,384	7.0	6,066	3,801	62.7	2,265	37.3
1988	49,360	45,717	92.6	3,643	7.4	6,409	3,976	62.0	2,433	38.0
1989	51,836	47,927	92.5	3,909	7.5	7,026	4,178	59.5	2,848	40.5
1990	55,072	50,801	92.2	4,271	7.8	7,762	4,446	57.3	3,316	42.7
1991	58,620	54,041	92.2	4,579	7.8	8,008	4,328	54.0	3,680	46.0
1992	63,005	58,522	92.9	4,483	7.1	8,864	4,616	52.1	4,248	47.9
1993	68,581	63,928	93.2	4,653	6.8	9,657	5,092	52.7	4,565	47.3
1994	73,257	68,826	94.0	4,431	6.0	10,590	5,517	52.1	5,073	47.9
1995	77,174	72,793	94.3	4,381	5.7	9,766	5,319	54.5	4,447	45.5
1996	78,898	74,020	93.8	4,878	6.2	10,538	5,482	52.0	5,056	48.0
1997	79,578	74,659	93.8	4,919	6.2	11,217	6,081	54.2	5,136	45.8
1998	80,771	75,681	93.7	5,090	6.3	12,210	6,744	55.2	5,466	44.8
1999	82,074	76,548	93.3	5,526	6.7	11,820	6,159	52.1	5,661	47.9
2000	79,775	74,243	93.1	5,532	6.9	12,891	6,825	52.9	6,066	47.1
2001	80,378	74,129	92.2	6,249	7.8	13,115	6,306	48.1	6,809	51.9
2002	85,570	78,297	91.5	7,273	8.5	13,097	6,139	46.9	6,958	53.1
2003	92,476	84,924	91.8	7,552	8.2	13,062	6,121	46.9	6,941	53.1
2004	98,590	91,196	92.5	7,394	7.5	13,175	6,187	47.0	6,988	53.0
2005	103,951	96,217	92.6	7,734	7.4	14,099	7,429	52.7	6,670	47.3
2006	111,356	103,022	92.5	8,334	7.5	14,456	7,036	48.7	7,420	51.3
2007old[a]	105,448	97,109	92.1	8,339	7.9	14,818	7,119	48.0	7,699	52.0
2007new[a]	103,300	95,203	92.2	8,097	7.8	14,617	6,996	47.9	7,621	52.1
2008	102,214	93,669	91.6	8,545	8.4	15,961	8,641	54.1	7,320	45.9
2009	85,960	77,306	89.9	8,654	10.1	17,001	8,930	52.5	8,071	47.5
2010[b,c]	76,120	68,089	89.4	8,031	10.6	19,119	9,725	50.9	9,394	49.1
2011[c]	65,879	58,363	88.6	7,516	11.4	18,518	9,372	50.6	9,146	49.4
2012	65,825	58,354	88.7	7,471	11.3	19,010	9,650	50.8	9,360	49.2
2013	62,710	55,071	87.8	7,639	12.2	18,547	9,289	50.1	9,258	49.9
2014old[d]	63,577	55,755	87.7	7,822	12.3	18,903	9,612	50.8	9,291	49.2
2014new[d]	64,703	56,797	87.8	7,906	12.2	18,970	9,642	50.8	9,328	49.2
2015	67,389	59,322	88.0	8,067	12.0	18,566	9,133	49.2	9,433	50.8
2016	64,336	56,390	87.6	7,946	12.4	18,975	9,605	50.6	9,370	49.4
2017old[e]	66,934	59,521	88.9	7,413	11.1	19,143	9,732	50.8	9,411	49.2
2017new[e]	67,963	60,264	88.7	7,699	11.3	18,653	9,467	50.8	9,186	49.2
2018	72,751	64,534	88.7	8,217	11.3	19,305	9,519	49.3	9,786	50.7
2019	72,422	64,154	88.6	8,268	11.4	19,478	9,419	48.4	10,059	51.6
2020	75,438	67,689	89.7	7,749	10.3	18,478	8,821	47.7	9,657	52.3
Master's students										

TABLE 1-3d

Citizenship of graduate students and postdoctoral appointees in health: 1980–2020

(Number and percent)

Year	Graduate students					Postdoctoral appointees				
		U.S. citizens and permanent residents		Temporary visa holders			U.S. citizens and permanent residents		Temporary visa holders	
	Total	Number	Percent	Number	Percent	Total	Number	Percent	Number	Percent
2017new[e]	52,662	48,595	92.3	4,067	7.7	na	na	na	na	na
2018	56,820	52,428	92.3	4,392	7.7	na	na	na	na	na
2019	56,494	52,119	92.3	4,375	7.7	na	na	na	na	na
2020	60,124	55,985	93.1	4,139	6.9	na	na	na	na	na
Doctoral students										
2017new[e]	15,301	11,669	76.3	3,632	23.7	na	na	na	na	na
2018	15,931	12,106	76.0	3,825	24.0	na	na	na	na	na
2019	15,928	12,035	75.6	3,893	24.4	na	na	na	na	na
2020	15,314	11,704	76.4	3,610	23.6	na	na	na	na	na

na = not applicable; master's and doctoral students were not reported separately until 2017.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in https://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] In 2010, the postdoctoral (postdoc) and nonfaculty researcher (NFR) section of the survey was expanded and significant effort was made to ensure that appropriate personnel were providing postdoc and NFR data. Thus, it is unclear how much of the increases in 2010 and later years over 2009 and prior years are from growth in postdocs and NFRs and how much are from improved data collection. More information on the changes to the data collection is available at https://www.nsf.gov/statistics/infbrief/nsf13334/.

[c] Postdoc and NFR data from 2010 and 2011 were reimputed following the 2012 data collection; these data supersede those contained in previous reports.

[d] In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed academic institutions in the United States with master's- or doctorate-granting programs in science, engineering, or health. A total of 151 newly eligible institutions were added, and two private for-profit institutions offering mostly practitioner-based graduate degrees were determined to be ineligible. For more information, see https://www.nsf.gov/statistics/2016/nsf16314.

[e] As part of 2017 Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) redesign, the GSS taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy of Disciplines (TOD), thus increasing comparability with other NCSES surveys. As a result, some eligible fields were reclassified and a small number of fields became fully or partially ineligible. Comparisons to prior years should use the 2017old estimates and should be limited to broad areas of study—detailed field comparisons are not recommended.

Note(s):
Percentages may not add to total because of rounding.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 1-4a

Ethnicity and race of U.S. citizen and permanent resident graduate students in science, engineering, and health: 2000–20

(Number and percent)

Year	Total	U.S. citizens and permanent residents															
		Hispanic or Latino		Not Hispanic or Latino												Unknown ethnicity and race	
				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
2000	364,894	21,327	5.8	2,021	0.6	28,568	7.8	25,928	7.1	1,622	0.4	261,112	71.6	520	0.1	23,796	6.5
2001	368,737	22,329	6.1	2,136	0.6	30,528	8.3	27,071	7.3	1,417	0.4	260,371	70.6	551	0.1	24,334	6.6
2002	387,416	24,282	6.3	2,239	0.6	33,625	8.7	28,715	7.4	1,293	0.3	270,025	69.7	467	0.1	26,770	6.9
2003	412,105	26,684	6.5	2,399	0.6	36,756	8.9	31,242	7.6	1,399	0.3	283,241	68.7	493	0.1	29,891	7.3
2004	423,218	28,031	6.6	2,354	0.6	36,084	8.5	32,496	7.7	1,651	0.4	288,574	68.2	569	0.1	33,459	7.9
2005	434,730	29,309	6.7	2,485	0.6	36,432	8.4	33,547	7.7	1,332	0.3	292,276	67.2	629	0.1	38,720	8.9
2006	446,625	30,510	6.8	2,689	0.6	36,635	8.2	34,866	7.8	1,228	0.3	299,275	67.0	608	0.1	40,814	9.1
2007old[a]	450,251	31,110	6.9	2,777	0.6	36,924	8.2	34,934	7.8	1,472	0.3	298,917	66.4	662	0.1	43,455	9.7
2007new[a]	460,294	31,700	6.9	2,862	0.6	37,297	8.1	35,923	7.8	1,485	0.3	306,001	66.5	667	0.1	44,359	9.6
2008	463,450	31,648	6.8	3,286	0.7	36,579	7.9	37,047	8.0	1,426	0.3	306,989	66.2	1,556	0.3	44,919	9.7
2009	459,648	32,336	7.0	3,042	0.7	37,310	8.1	37,349	8.1	1,350	0.3	302,677	65.8	2,645	0.6	42,939	9.3
2010	458,492	33,375	7.3	2,884	0.6	37,228	8.1	38,199	8.3	1,354	0.3	299,993	65.4	5,816	1.3	39,643	8.6
2011	450,523	35,028	7.8	2,741	0.6	37,516	8.3	38,902	8.6	1,318	0.3	293,640	65.2	6,899	1.5	34,479	7.7
2012	443,697	35,858	8.1	2,507	0.6	37,119	8.4	38,340	8.6	1,176	0.3	287,786	64.9	8,714	2.0	32,197	7.3
2013	436,296	37,283	8.5	2,517	0.6	37,137	8.5	37,197	8.5	1,037	0.2	281,354	64.5	9,160	2.1	30,611	7.0
2014old[b]	429,133	37,746	8.8	2,320	0.5	37,453	8.7	36,113	8.4	997	0.2	275,389	64.2	10,440	2.4	28,675	6.7
2014new[b]	439,309	39,881	9.1	2,385	0.5	38,264	8.7	36,280	8.3	1,022	0.2	281,285	64.0	10,649	2.4	29,543	6.7
2015	441,956	43,177	9.8	2,306	0.5	39,810	9.0	37,245	8.4	1,048	0.2	278,364	63.0	11,521	2.6	28,485	6.4
2016	436,139	45,171	10.4	2,147	0.5	40,500	9.3	36,634	8.4	991	0.2	272,317	62.4	12,023	2.8	26,356	6.0
2017old[c]	446,676	48,491	10.9	2,065	0.5	43,385	9.7	37,853	8.5	825	0.2	274,128	61.4	14,376	3.2	25,553	5.7
2017new[c]	416,481	44,621	10.7	1,850	0.4	42,045	10.1	32,749	7.9	703	0.2	257,302	61.8	13,539	3.3	23,672	5.7
2018	438,581	49,084	11.2	1,932	0.4	45,307	10.3	35,943	8.2	730	0.2	265,735	60.6	14,864	3.4	24,986	5.7
2019	456,504	54,467	11.9	2,077	0.5	48,844	10.7	38,048	8.3	744	0.2	272,545	59.7	15,613	3.4	24,166	5.3
2020	487,051	62,679	12.9	2,042	0.4	53,094	10.9	41,916	8.6	778	0.2	284,055	58.3	17,579	3.6	24,908	5.1
Master's students																	
2017new[c]	251,896	29,622	11.8	1,136	0.5	26,093	10.4	23,266	9.2	468	0.2	148,031	58.8	8,119	3.2	15,161	6.0
2018	271,290	32,923	12.1	1,219	0.4	28,557	10.5	25,878	9.5	497	0.2	156,010	57.5	9,120	3.4	17,086	6.3
2019	287,370	36,777	12.8	1,327	0.5	31,301	10.9	27,598	9.6	542	0.2	163,836	57.0	9,593	3.3	16,396	5.7
2020	314,305	43,750	13.9	1,284	0.4	35,075	11.2	30,842	9.8	578	0.2	175,090	55.7	11,069	3.5	16,617	5.3
Doctoral students																	

TABLE 1-4a

Ethnicity and race of U.S. citizen and permanent resident graduate students in science, engineering, and health: 2000–20

(Number and percent)

Year	Total	U.S. citizens and permanent residents															
		Hispanic or Latino		Not Hispanic or Latino												Unknown ethnicity and race	
				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
2017new[c]	164,585	14,999	9.1	714	0.4	15,952	9.7	9,483	5.8	235	0.1	109,271	66.4	5,420	3.3	8,511	5.2
2018	167,291	16,161	9.7	713	0.4	16,750	10.0	10,065	6.0	233	0.1	109,725	65.6	5,744	3.4	7,900	4.7
2019	169,134	17,690	10.5	750	0.4	17,543	10.4	10,450	6.2	202	0.1	108,709	64.3	6,020	3.6	7,770	4.6
2020	172,746	18,929	11.0	758	0.4	18,019	10.4	11,074	6.4	200	0.1	108,965	63.1	6,510	3.8	8,291	4.8

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in https://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed academic institutions in the United States with master's- or doctorate-granting programs in science, engineering, or health. A total of 151 newly eligible institutions were added, and two private for-profit institutions offering mostly practitioner-based graduate degrees were determined to be ineligible. For more information, see https://www.nsf.gov/statistics/2016/nsf16314.

[c] As part of 2017 Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) redesign, the GSS taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy of Disciplines (TOD), thus increasing comparability with other NCSES surveys. As a result, some eligible fields were reclassified and a small number of fields became fully or partially ineligible. Comparisons to prior years should use the 2017old estimates and should be limited to broad areas of study—detailed field comparisons are not recommended.

Note(s):
Percentages may not add to total because of rounding. Master's and doctoral students were not reported separately until 2017. Ethnicity and race data are available only for U.S. citizens and permanent residents.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 1-4b

Ethnicity and race of U.S. citizen and permanent resident graduate students in science: 2000–20

(Number and percent)

Year	Total	U.S. citizens and permanent residents															
		Hispanic or Latino		Not Hispanic or Latino												Unknown ethnicity and race	
				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
2000	234,000	14,185	6.1	1,394	0.6	16,839	7.2	17,857	7.6	945	0.4	166,486	71.1	399	0.2	15,895	6.8
2001	237,718	14,791	6.2	1,456	0.6	17,698	7.4	18,540	7.8	870	0.4	167,559	70.5	429	0.2	16,375	6.9
2002	247,842	16,173	6.5	1,490	0.6	19,160	7.7	19,594	7.9	770	0.3	172,576	69.6	330	0.1	17,749	7.2
2003	259,871	17,262	6.6	1,575	0.6	20,280	7.8	20,962	8.1	819	0.3	179,205	69.0	357	0.1	19,411	7.5
2004	265,643	18,048	6.8	1,575	0.6	20,007	7.5	21,225	8.0	926	0.3	181,615	68.4	437	0.2	21,810	8.2
2005	271,962	19,297	7.1	1,685	0.6	19,952	7.3	21,778	8.0	892	0.3	182,908	67.3	454	0.2	24,996	9.2
2006	275,905	19,759	7.2	1,822	0.7	20,182	7.3	22,092	8.0	818	0.3	184,700	66.9	448	0.2	26,084	9.5
2007old[a]	282,785	20,515	7.3	1,882	0.7	20,818	7.4	22,881	8.1	946	0.3	187,292	66.2	457	0.2	27,994	9.9
2007new[a]	293,792	21,176	7.2	1,972	0.7	21,261	7.2	23,862	8.1	998	0.3	194,875	66.3	464	0.2	29,184	9.9
2008	295,530	21,382	7.2	2,272	0.8	20,808	7.0	24,694	8.4	965	0.3	195,037	66.0	1,147	0.4	29,225	9.9
2009	303,700	22,047	7.3	2,205	0.7	21,976	7.2	25,801	8.5	976	0.3	200,047	65.9	1,950	0.6	28,698	9.4
2010	308,108	22,969	7.5	2,171	0.7	21,915	7.1	26,914	8.7	914	0.3	202,386	65.7	3,987	1.3	26,852	8.7
2011	312,846	24,889	8.0	2,075	0.7	23,000	7.4	28,129	9.0	842	0.3	205,437	65.7	4,865	1.6	23,609	7.5
2012	308,042	25,371	8.2	1,910	0.6	22,878	7.4	27,414	8.9	781	0.3	201,326	65.4	6,071	2.0	22,291	7.2
2013	305,563	26,585	8.7	1,939	0.6	23,108	7.6	27,199	8.9	752	0.2	198,105	64.8	6,575	2.2	21,300	7.0
2014old[b]	300,110	26,941	9.0	1,763	0.6	23,335	7.8	26,083	8.7	758	0.3	193,589	64.5	7,512	2.5	20,129	6.7
2014new[b]	308,499	28,605	9.3	1,826	0.6	24,039	7.8	26,768	8.7	784	0.3	198,185	64.2	7,697	2.5	20,595	6.7
2015	309,182	30,891	10.0	1,742	0.6	25,044	8.1	27,019	8.7	789	0.3	195,761	63.3	8,285	2.7	19,651	6.4
2016	306,710	32,616	10.6	1,615	0.5	25,772	8.4	26,890	8.8	747	0.2	191,941	62.6	8,690	2.8	18,439	6.0
2017old[c]	310,973	34,199	11.0	1,559	0.5	27,541	8.9	27,550	8.9	621	0.2	191,298	61.5	10,280	3.3	17,925	5.8
2017new[c]	281,057	30,383	10.8	1,347	0.5	26,028	9.3	22,557	8.0	487	0.2	174,801	62.2	9,434	3.4	16,020	5.7
2018	297,277	33,894	11.4	1,403	0.5	28,425	9.6	24,844	8.4	531	0.2	180,735	60.8	10,346	3.5	17,099	5.8
2019	312,368	38,193	12.2	1,526	0.5	31,482	10.1	26,450	8.5	542	0.2	186,405	59.7	10,902	3.5	16,868	5.4
2020	334,959	43,705	13.0	1,468	0.4	34,812	10.4	29,051	8.7	553	0.2	195,406	58.3	12,244	3.7	17,720	5.3
Master's students																	
2017new[c]	156,831	18,728	11.9	777	0.5	15,084	9.6	15,639	10.0	305	0.2	91,511	58.4	5,202	3.3	9,585	6.1
2018	171,049	21,203	12.4	823	0.5	16,933	9.9	17,560	10.3	350	0.2	97,081	56.8	5,915	3.5	11,184	6.5
2019	185,378	24,330	13.1	902	0.5	19,529	10.5	18,996	10.2	382	0.2	103,762	56.0	6,339	3.4	11,138	6.0
2020	204,677	28,849	14.1	851	0.4	22,270	10.9	21,126	10.3	403	0.2	112,534	55.0	7,293	3.6	11,351	5.5
Doctoral students																	

TABLE 1-4b

Ethnicity and race of U.S. citizen and permanent resident graduate students in science: 2000–20

(Number and percent)

Year	Total	U.S. citizens and permanent residents															
		Hispanic or Latino		Not Hispanic or Latino												Unknown ethnicity and race	
				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
2017new[c]	124,226	11,655	9.4	570	0.5	10,944	8.8	6,918	5.6	182	0.1	83,290	67.0	4,232	3.4	6,435	5.2
2018	126,228	12,691	10.1	580	0.5	11,492	9.1	7,284	5.8	181	0.1	83,654	66.3	4,431	3.5	5,915	4.7
2019	126,990	13,863	10.9	624	0.5	11,953	9.4	7,454	5.9	160	0.1	82,643	65.1	4,563	3.6	5,730	4.5
2020	130,282	14,856	11.4	617	0.5	12,542	9.6	7,925	6.1	150	0.1	82,872	63.6	4,951	3.8	6,369	4.9

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in https://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed academic institutions in the United States with master's- or doctorate-granting programs in science, engineering, or health. A total of 151 newly eligible institutions were added, and two private for-profit institutions offering mostly practitioner-based graduate degrees were determined to be ineligible. For more information, see https://www.nsf.gov/statistics/2016/nsf16314.

[c] As part of 2017 Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) redesign, the GSS taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy of Disciplines (TOD), thus increasing comparability with other NCSES surveys. As a result, some eligible fields were reclassified and a small number of fields became fully or partially ineligible. Comparisons to prior years should use the 2017old estimates and should be limited to broad areas of study—detailed field comparisons are not recommended.

Note(s):
Percentages may not add to total because of rounding. Master's and doctoral students were not reported separately until 2017. Ethnicity and race data are available only for U.S. citizens and permanent residents.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 1-4c

Ethnicity and race of U.S. citizen and permanent resident graduate students in engineering: 2000–20

(Number and percent)

Year	Total	U.S. citizens and permanent residents															
		Hispanic or Latino		Not Hispanic or Latino												Unknown ethnicity and race	
				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
2000	56,651	3,018	5.3	208	0.4	6,909	12.2	2,977	5.3	305	0.5	39,083	69.0	40	0.1	4,111	7.3
2001	56,890	3,183	5.6	227	0.4	7,769	13.7	2,915	5.1	157	0.3	38,459	67.6	35	0.1	4,145	7.3
2002	61,277	3,461	5.6	244	0.4	9,130	14.9	3,074	5.0	169	0.3	40,559	66.2	54	0.1	4,586	7.5
2003	67,310	3,979	5.9	304	0.5	10,466	15.5	3,212	4.8	221	0.3	43,469	64.6	66	0.1	5,593	8.3
2004	66,379	4,164	6.3	273	0.4	9,563	14.4	3,399	5.1	149	0.2	43,235	65.1	56	0.1	5,540	8.3
2005	66,551	4,090	6.1	273	0.4	9,595	14.4	3,470	5.2	135	0.2	42,868	64.4	74	0.1	6,046	9.1
2006	67,698	4,381	6.5	290	0.4	9,050	13.4	3,572	5.3	129	0.2	43,293	64.0	53	0.1	6,930	10.2
2007old[a]	70,357	4,517	6.4	286	0.4	9,316	13.2	3,684	5.2	199	0.3	44,751	63.6	86	0.1	7,518	10.7
2007new[a]	71,299	4,563	6.4	290	0.4	9,436	13.2	3,775	5.3	202	0.3	45,329	63.6	87	0.1	7,617	10.7
2008	74,251	4,716	6.4	346	0.5	9,548	12.9	3,986	5.4	156	0.2	47,586	64.1	172	0.2	7,741	10.4
2009	78,642	5,218	6.6	344	0.4	9,778	12.4	4,172	5.3	149	0.2	50,396	64.1	350	0.4	8,235	10.5
2010	82,295	5,640	6.9	329	0.4	10,270	12.5	4,180	5.1	174	0.2	52,870	64.2	1,002	1.2	7,830	9.5
2011	79,314	5,919	7.5	317	0.4	10,147	12.8	4,068	5.1	166	0.2	50,659	63.9	1,238	1.6	6,800	8.6
2012	77,301	6,035	7.8	278	0.4	9,822	12.7	3,924	5.1	139	0.2	49,457	64.0	1,507	1.9	6,139	7.9
2013	75,662	6,234	8.2	259	0.3	9,809	13.0	3,712	4.9	130	0.2	48,413	64.0	1,440	1.9	5,665	7.5
2014old[b]	73,268	6,205	8.5	285	0.4	9,646	13.2	3,631	5.0	118	0.2	46,706	63.7	1,624	2.2	5,053	6.9
2014new[b]	74,013	6,527	8.8	286	0.4	9,706	13.1	3,714	5.0	118	0.2	46,918	63.4	1,638	2.2	5,106	6.9
2015	73,452	6,916	9.4	270	0.4	9,718	13.2	3,769	5.1	146	0.2	45,888	62.5	1,745	2.4	5,000	6.8
2016	73,039	6,962	9.5	245	0.3	9,902	13.6	3,710	5.1	115	0.2	45,622	62.5	1,824	2.5	4,659	6.4
2017old[c]	76,182	7,664	10.1	222	0.3	10,531	13.8	3,941	5.2	84	0.1	47,289	62.1	2,304	3.0	4,147	5.4
2017new[c]	75,160	7,537	10.0	208	0.3	10,483	13.9	3,842	5.1	86	0.1	46,637	62.1	2,265	3.0	4,102	5.5
2018	76,770	7,939	10.3	211	0.3	10,863	14.2	4,035	5.3	75	0.1	47,447	61.8	2,460	3.2	3,740	4.9
2019	79,982	8,643	10.8	242	0.3	11,390	14.2	4,220	5.3	95	0.1	48,892	61.1	2,773	3.5	3,727	4.7
2020	84,403	9,644	11.4	239	0.3	12,020	14.2	4,583	5.4	101	0.1	50,847	60.2	3,143	3.7	3,826	4.5
Master's students																	
2017new[c]	46,470	5,130	11.0	134	0.3	6,416	13.8	2,505	5.4	56	0.1	28,281	60.9	1,422	3.1	2,526	5.4
2018	47,813	5,436	11.4	140	0.3	6,758	14.1	2,618	5.5	45	0.1	28,993	60.6	1,519	3.2	2,304	4.8
2019	49,873	5,846	11.7	168	0.3	7,009	14.1	2,708	5.4	69	0.1	30,121	60.4	1,672	3.4	2,280	4.6
2020	53,643	6,704	12.5	160	0.3	7,628	14.2	2,952	5.5	71	0.1	31,783	59.2	1,949	3.6	2,396	4.5
Doctoral students																	

TABLE 1-4c

Ethnicity and race of U.S. citizen and permanent resident graduate students in engineering: 2000–20

(Number and percent)

Year	Total	U.S. citizens and permanent residents															
		Hispanic or Latino		Not Hispanic or Latino												Unknown ethnicity and race	
				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
2017new[c]	28,690	2,407	8.4	74	0.3	4,067	14.2	1,337	4.7	30	0.1	18,356	64.0	843	2.9	1,576	5.5
2018	28,957	2,503	8.6	71	0.2	4,105	14.2	1,417	4.9	30	0.1	18,454	63.7	941	3.2	1,436	5.0
2019	30,109	2,797	9.3	74	0.2	4,381	14.6	1,512	5.0	26	0.1	18,771	62.3	1,101	3.7	1,447	4.8
2020	30,760	2,940	9.6	79	0.3	4,392	14.3	1,631	5.3	30	0.1	19,064	62.0	1,194	3.9	1,430	4.6

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in https://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed academic institutions in the United States with master's- or doctorate-granting programs in science, engineering, or health. A total of 151 newly eligible institutions were added, and two private for-profit institutions offering mostly practitioner-based graduate degrees were determined to be ineligible. For more information, see https://www.nsf.gov/statistics/2016/nsf16314.

[c] As part of 2017 Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) redesign, the GSS taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy of Disciplines (TOD), thus increasing comparability with other NCSES surveys. As a result, some eligible fields were reclassified and a small number of fields became fully or partially ineligible. Comparisons to prior years should use the 2017old estimates and should be limited to broad areas of study—detailed field comparisons are not recommended.

Note(s):
Percentages may not add to total because of rounding. Master's and doctoral students were not reported separately until 2017. Ethnicity and race data are available only for U.S. citizens and permanent residents.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 1-4d

Ethnicity and race of U.S. citizen and permanent resident graduate students in health: 2000–20

(Number and percent)

Year	Total	U.S. citizens and permanent residents															
		Hispanic or Latino		Not Hispanic or Latino												Unknown ethnicity and race	
				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
2000	74,243	4,124	5.6	419	0.6	4,820	6.5	5,094	6.9	372	0.5	55,543	74.8	81	0.1	3,790	5.1
2001	74,129	4,355	5.9	453	0.6	5,061	6.8	5,616	7.6	390	0.5	54,353	73.3	87	0.1	3,814	5.1
2002	78,297	4,648	5.9	505	0.6	5,335	6.8	6,047	7.7	354	0.5	56,890	72.7	83	0.1	4,435	5.7
2003	84,924	5,443	6.4	520	0.6	6,010	7.1	7,068	8.3	359	0.4	60,567	71.3	70	0.1	4,887	5.8
2004	91,196	5,819	6.4	506	0.6	6,514	7.1	7,872	8.6	576	0.6	63,724	69.9	76	0.1	6,109	6.7
2005	96,217	5,922	6.2	527	0.5	6,885	7.2	8,299	8.6	305	0.3	66,500	69.1	101	0.1	7,678	8.0
2006	103,022	6,370	6.2	577	0.6	7,403	7.2	9,202	8.9	281	0.3	71,282	69.2	107	0.1	7,800	7.6
2007old[a]	97,109	6,078	6.3	609	0.6	6,790	7.0	8,369	8.6	327	0.3	66,874	68.9	119	0.1	7,943	8.2
2007new[a]	95,203	5,961	6.3	600	0.6	6,600	6.9	8,286	8.7	285	0.3	65,797	69.1	116	0.1	7,558	7.9
2008	93,669	5,550	5.9	668	0.7	6,223	6.6	8,367	8.9	305	0.3	64,366	68.7	237	0.3	7,953	8.5
2009	77,306	5,071	6.6	493	0.6	5,556	7.2	7,376	9.5	225	0.3	52,234	67.6	345	0.4	6,006	7.8
2010	68,089	4,766	7.0	384	0.6	5,043	7.4	7,105	10.4	266	0.4	44,737	65.7	827	1.2	4,961	7.3
2011	58,363	4,220	7.2	349	0.6	4,369	7.5	6,705	11.5	310	0.5	37,544	64.3	796	1.4	4,070	7.0
2012	58,354	4,452	7.6	319	0.5	4,419	7.6	7,002	12.0	256	0.4	37,003	63.4	1,136	1.9	3,767	6.5
2013	55,071	4,464	8.1	319	0.6	4,220	7.7	6,286	11.4	155	0.3	34,836	63.3	1,145	2.1	3,646	6.6
2014old[b]	55,755	4,600	8.3	272	0.5	4,472	8.0	6,399	11.5	121	0.2	35,094	62.9	1,304	2.3	3,493	6.3
2014new[b]	56,797	4,749	8.4	273	0.5	4,519	8.0	5,798	10.2	120	0.2	36,182	63.7	1,314	2.3	3,842	6.8
2015	59,322	5,370	9.1	294	0.5	5,048	8.5	6,457	10.9	113	0.2	36,715	61.9	1,491	2.5	3,834	6.5
2016	56,390	5,593	9.9	287	0.5	4,826	8.6	6,034	10.7	129	0.2	34,754	61.6	1,509	2.7	3,258	5.8
2017old[c]	59,521	6,628	11.1	284	0.5	5,313	8.9	6,362	10.7	120	0.2	35,541	59.7	1,792	3.0	3,481	5.8
2017new[c]	60,264	6,701	11.1	295	0.5	5,534	9.2	6,350	10.5	130	0.2	35,864	59.5	1,840	3.1	3,550	5.9
2018	64,534	7,251	11.2	318	0.5	6,019	9.3	7,064	10.9	124	0.2	37,553	58.2	2,058	3.2	4,147	6.4
2019	64,154	7,631	11.9	309	0.5	5,972	9.3	7,378	11.5	107	0.2	37,248	58.1	1,938	3.0	3,571	5.6
2020	67,689	9,330	13.8	335	0.5	6,262	9.3	8,282	12.2	124	0.2	37,802	55.8	2,192	3.2	3,362	5.0
Master's students																	
2017new[c]	48,595	5,764	11.9	225	0.5	4,593	9.5	5,122	10.5	107	0.2	28,239	58.1	1,495	3.1	3,050	6.3
2018	52,428	6,284	12.0	256	0.5	4,866	9.3	5,700	10.9	102	0.2	29,936	57.1	1,686	3.2	3,598	6.9
2019	52,119	6,601	12.7	257	0.5	4,763	9.1	5,894	11.3	91	0.2	29,953	57.5	1,582	3.0	2,978	5.7
2020	55,985	8,197	14.6	273	0.5	5,177	9.2	6,764	12.1	104	0.2	30,773	55.0	1,827	3.3	2,870	5.1
Doctoral students																	

TABLE 1-4d

Ethnicity and race of U.S. citizen and permanent resident graduate students in health: 2000–20

(Number and percent)

Year	Total	U.S. citizens and permanent residents															
		Hispanic or Latino		Not Hispanic or Latino												Unknown ethnicity and race	
				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
2017new[c]	11,669	937	8.0	70	0.6	941	8.1	1,228	10.5	23	0.2	7,625	65.3	345	3.0	500	4.3
2018	12,106	967	8.0	62	0.5	1,153	9.5	1,364	11.3	22	0.2	7,617	62.9	372	3.1	549	4.5
2019	12,035	1,030	8.6	52	0.4	1,209	10.0	1,484	12.3	16	0.1	7,295	60.6	356	3.0	593	4.9
2020	11,704	1,133	9.7	62	0.5	1,085	9.3	1,518	13.0	20	0.2	7,029	60.1	365	3.1	492	4.2

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in https://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed academic institutions in the United States with master's- or doctorate-granting programs in science, engineering, or health. A total of 151 newly eligible institutions were added, and two private for-profit institutions offering mostly practitioner-based graduate degrees were determined to be ineligible. For more information, see https://www.nsf.gov/statistics/2016/nsf16314.

[c] As part of 2017 Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) redesign, the GSS taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy of Disciplines (TOD), thus increasing comparability with other NCSES surveys. As a result, some eligible fields were reclassified and a small number of fields became fully or partially ineligible. Comparisons to prior years should use the 2017old estimates and should be limited to broad areas of study—detailed field comparisons are not recommended.

Note(s):
Percentages may not add to total because of rounding. Master's and doctoral students were not reported separately until 2017. Ethnicity and race data are available only for U.S. citizens and permanent residents.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 1-5a

Enrollment intensity of graduate students in science, engineering, and health, by degree program: 1975–2020

(Number and percent)

Year	All science, engineering, and health graduate students					All science graduate students					All engineering graduate students					All health graduate students				
		Full time		Part time			Full time		Part time			Full time		Part time			Full time		Part time	
	Total	Number	Percent	Number	Percent	Total	Number	Percent	Number	Percent	Total	Number	Percent	Number	Percent	Total	Number	Percent	Number	Percent
1975	328,510	219,648	66.9	108,862	33.1	234,649	164,437	70.1	70,212	29.9	68,332	37,823	55.4	30,509	44.6	25,529	17,388	68.1	8,141	31.9
1976	333,716	223,412	66.9	110,304	33.1	238,675	167,867	70.3	70,808	29.7	66,723	36,948	55.4	29,775	44.6	28,318	18,597	65.7	9,721	34.3
1977	345,374	226,738	65.6	118,636	34.4	242,932	169,184	69.6	73,748	30.4	68,757	37,227	54.1	31,530	45.9	33,685	20,327	60.3	13,358	39.7
1978[a]	339,912	223,030	65.6	116,882	34.4	236,465	164,151	69.4	72,314	30.6	67,787	37,586	55.4	30,201	44.6	35,660	21,293	59.7	14,367	40.3
1979	357,578	231,760	64.8	125,818	35.2	247,235	168,959	68.3	78,276	31.7	71,808	40,041	55.8	31,767	44.2	38,535	22,760	59.1	15,775	40.9
1980	367,078	238,416	64.9	128,662	35.1	251,265	171,767	68.4	79,498	31.6	74,335	42,650	57.4	31,685	42.6	41,478	23,999	57.9	17,479	42.1
1981	375,130	242,049	64.5	133,081	35.5	252,404	172,200	68.2	80,204	31.8	79,585	45,752	57.5	33,833	42.5	43,141	24,097	55.9	19,044	44.1
1982	382,291	244,757	64.0	137,534	36.0	255,146	172,090	67.4	83,056	32.6	83,720	49,784	59.5	33,936	40.5	43,425	22,883	52.7	20,542	47.3
1983	390,432	252,017	64.5	138,415	35.5	255,820	175,472	68.6	80,348	31.4	91,146	53,932	59.2	37,214	40.8	43,466	22,613	52.0	20,853	48.0
1984	394,670	253,922	64.3	140,748	35.7	256,903	175,766	68.4	81,137	31.6	92,739	55,191	59.5	37,548	40.5	45,028	22,965	51.0	22,063	49.0
1985	404,021	257,287	63.7	146,734	36.3	261,973	178,020	68.0	83,953	32.0	96,018	55,918	58.2	40,100	41.8	46,030	23,349	50.7	22,681	49.3
1986	415,520	266,168	64.1	149,352	35.9	266,077	182,532	68.6	83,545	31.4	101,905	60,197	59.1	41,708	40.9	47,538	23,439	49.3	24,099	50.7
1987	421,497	271,056	64.3	150,441	35.7	269,256	185,143	68.8	84,113	31.2	103,983	61,962	59.6	42,021	40.4	48,258	23,951	49.6	24,307	50.4
1988	424,523	275,127	64.8	149,396	35.2	272,309	187,525	68.9	84,784	31.1	102,854	63,032	61.3	39,822	38.7	49,360	24,570	49.8	24,790	50.2
1989	434,478	282,648	65.1	151,830	34.9	278,577	192,424	69.1	86,153	30.9	104,065	64,396	61.9	39,669	38.1	51,836	25,828	49.8	26,008	50.2
1990	452,113	292,782	64.8	159,331	35.2	289,383	199,313	68.9	90,070	31.1	107,658	66,010	61.3	41,648	38.7	55,072	27,459	49.9	27,613	50.1
1991	471,212	307,010	65.2	164,202	34.8	299,057	206,036	68.9	93,021	31.1	113,535	71,034	62.6	42,501	37.4	58,620	29,940	51.1	28,680	48.9
1992	493,522	322,555	65.4	170,967	34.6	312,478	215,965	69.1	96,513	30.9	118,039	74,443	63.1	43,596	36.9	63,005	32,147	51.0	30,858	49.0
1993	504,304	329,644	65.4	174,660	34.6	318,851	220,097	69.0	98,754	31.0	116,872	73,808	63.2	43,064	36.8	68,581	35,739	52.1	32,842	47.9
1994	504,399	332,088	65.8	172,311	34.2	318,118	221,409	69.6	96,709	30.4	113,024	71,570	63.3	41,454	36.7	73,257	39,109	53.4	34,148	46.6
1995	499,640	329,283	65.9	170,357	34.1	315,265	219,389	69.6	95,876	30.4	107,201	67,782	63.2	39,419	36.8	77,174	42,112	54.6	35,062	45.4
1996	494,079	328,536	66.5	165,543	33.5	311,957	218,180	69.9	93,777	30.1	103,224	65,859	63.8	37,365	36.2	78,898	44,497	56.4	34,401	43.6
1997	487,208	327,289	67.2	159,919	32.8	306,482	214,981	70.1	91,501	29.9	101,148	65,688	64.9	35,460	35.1	79,578	46,620	58.6	32,958	41.4
1998	485,627	327,389	67.4	158,238	32.6	304,818	213,508	70.0	91,310	30.0	100,038	65,435	65.4	34,603	34.6	80,771	48,446	60.0	32,325	40.0
1999	493,256	334,423	67.8	158,833	32.2	309,491	215,870	69.8	93,621	30.2	101,691	68,023	66.9	33,668	33.1	82,074	50,530	61.6	31,544	38.4
2000	493,311	341,283	69.2	152,028	30.8	309,424	219,079	70.8	90,345	29.2	104,112	72,276	69.4	31,836	30.6	79,775	49,928	62.6	29,847	37.4
2001	509,607	354,522	69.6	155,085	30.4	319,736	226,573	70.9	93,163	29.1	109,493	77,448	70.7	32,045	29.3	80,378	50,501	62.8	29,877	37.2
2002	540,404	378,991	70.1	161,413	29.9	335,166	240,020	71.6	95,146	28.4	119,668	85,452	71.4	34,216	28.6	85,570	53,519	62.5	32,051	37.5
2003	567,121	397,420	70.1	169,701	29.9	347,268	248,812	71.6	98,456	28.4	127,377	90,216	70.8	37,161	29.2	92,476	58,392	63.1	34,084	36.9
2004	574,463	402,573	70.1	171,890	29.9	352,307	253,574	72.0	98,733	28.0	123,566	86,955	70.4	36,611	29.6	98,590	62,044	62.9	36,546	37.1
2005	582,226	406,620	69.8	175,606	30.2	357,710	257,283	71.9	100,427	28.1	120,565	84,459	70.1	36,106	29.9	103,951	64,878	62.4	39,073	37.6
2006	597,643	419,015	70.1	178,628	29.9	363,246	261,984	72.1	101,262	27.9	123,041	87,818	71.4	35,223	28.6	111,356	69,213	62.2	42,143	37.8
2007old[b]	607,823	430,860	70.9	176,963	29.1	372,120	269,821	72.5	102,299	27.5	130,255	93,155	71.5	37,100	28.5	105,448	67,884	64.4	37,564	35.6

TABLE 1-5a

Enrollment intensity of graduate students in science, engineering, and health, by degree program: 1975–2020

(Number and percent)

Year	All science, engineering, and health graduate students					All science graduate students					All engineering graduate students					All health graduate students				
		Full time		Part time			Full time		Part time			Full time		Part time			Full time		Part time	
	Total	Number	Percent	Number	Percent	Total	Number	Percent	Number	Percent	Total	Number	Percent	Number	Percent	Total	Number	Percent	Number	Percent
2007new[b]	619,499	437,365	70.6	182,134	29.4	384,523	277,229	72.1	107,294	27.9	131,676	94,313	71.6	37,363	28.4	103,300	65,823	63.7	37,477	36.3
2008	631,489	449,613	71.2	181,876	28.8	391,419	285,305	72.9	106,114	27.1	137,856	98,255	71.3	39,601	28.7	102,214	66,053	64.6	36,161	35.4
2009	631,645	456,115	72.2	175,530	27.8	401,008	293,561	73.2	107,447	26.8	144,677	104,937	72.5	39,740	27.5	85,960	57,617	67.0	28,343	33.0
2010	632,652	461,185	72.9	171,467	27.1	407,291	299,315	73.5	107,976	26.5	149,241	109,792	73.6	39,449	26.4	76,120	52,078	68.4	24,042	31.6
2011	626,820	457,292	73.0	169,528	27.0	414,440	303,015	73.1	111,425	26.9	146,501	108,153	73.8	38,348	26.2	65,879	46,124	70.0	19,755	30.0
2012	627,243	459,498	73.3	167,745	26.7	413,033	304,795	73.8	108,238	26.2	148,385	109,589	73.9	38,796	26.1	65,825	45,114	68.5	20,711	31.5
2013	633,010	468,953	74.1	164,057	25.9	417,251	309,756	74.2	107,495	25.8	153,049	114,752	75.0	38,297	25.0	62,710	44,445	70.9	18,265	29.1
2014old[c]	650,738	484,880	74.5	165,858	25.5	425,148	317,881	74.8	107,267	25.2	162,013	122,642	75.7	39,371	24.3	63,577	44,357	69.8	19,220	30.2
2014new[c]	666,586	492,170	73.8	174,416	26.2	437,395	322,714	73.8	114,681	26.2	164,488	124,382	75.6	40,106	24.4	64,703	45,074	69.7	19,629	30.3
2015	685,397	506,262	73.9	179,135	26.1	448,654	331,293	73.8	117,361	26.2	169,354	128,112	75.6	41,242	24.4	67,389	46,857	69.5	20,532	30.5
2016	684,825	508,773	74.3	176,052	25.7	452,046	334,770	74.1	117,276	25.9	168,443	128,203	76.1	40,240	23.9	64,336	45,800	71.2	18,536	28.8
2017old[d]	684,096	498,619	72.9	185,477	27.1	450,343	327,596	72.7	122,747	27.3	166,819	124,363	74.5	42,456	25.5	66,934	46,660	69.7	20,274	30.3
2017new[d]	649,112	480,788	74.1	168,324	25.9	415,568	310,809	74.8	104,759	25.2	165,581	123,107	74.3	42,474	25.7	67,963	46,872	69.0	21,091	31.0
2018	668,307	491,449	73.5	176,858	26.5	432,255	321,063	74.3	111,192	25.7	163,301	120,521	73.8	42,780	26.2	72,751	49,865	68.5	22,886	31.5
2019	690,117	502,442	72.8	187,675	27.2	453,691	331,673	73.1	122,018	26.9	164,004	121,117	73.9	42,887	26.1	72,422	49,652	68.6	22,770	31.4
2020	697,813	491,515	70.4	206,298	29.6	464,646	330,541	71.1	134,105	28.9	157,729	111,240	70.5	46,489	29.5	75,438	49,734	65.9	25,704	34.1
Master's students																				
2017new[d]	378,587	245,010	64.7	133,577	35.3	229,169	145,689	63.6	83,480	36.4	96,756	63,532	65.7	33,224	34.3	52,662	35,789	68.0	16,873	32.0
2018	391,211	248,552	63.5	142,659	36.5	241,327	151,059	62.6	90,268	37.4	93,064	59,228	63.6	33,836	36.4	56,820	38,265	67.3	18,555	32.7
2019	408,228	254,532	62.4	153,696	37.6	259,795	158,704	61.1	101,091	38.9	91,939	57,723	62.8	34,216	37.2	56,494	38,105	67.4	18,389	32.6
2020	414,478	243,859	58.8	170,619	41.2	267,904	155,502	58.0	112,402	42.0	86,450	49,179	56.9	37,271	43.1	60,124	39,178	65.2	20,946	34.8
Doctoral students																				
2017new[d]	270,525	235,778	87.2	34,747	12.8	186,399	165,120	88.6	21,279	11.4	68,825	59,575	86.6	9,250	13.4	15,301	11,083	72.4	4,218	27.6
2018	277,096	242,897	87.7	34,199	12.3	190,928	170,004	89.0	20,924	11.0	70,237	61,293	87.3	8,944	12.7	15,931	11,600	72.8	4,331	27.2
2019	281,889	247,910	87.9	33,979	12.1	193,896	172,969	89.2	20,927	10.8	72,065	63,394	88.0	8,671	12.0	15,928	11,547	72.5	4,381	27.5
2020	283,335	247,656	87.4	35,679	12.6	196,742	175,039	89.0	21,703	11.0	71,279	62,061	87.1	9,218	12.9	15,314	10,556	68.9	4,758	31.1

[a] Master's-granting institutions were not surveyed in 1978; totals represent estimates based on 1977 and 1979 data.

[b] In 2007, eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in https://www.nsf.gov/statistics/nsf10307/ for more detail.

[c] In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed academic institutions in the United States with master's- or doctorate-granting programs in science, engineering, or health. A total of 151 newly eligible institutions were added, and two private for-profit institutions offering mostly practitioner-based graduate degrees were determined to be ineligible. For

more information, see https://www.nsf.gov/statistics/2016/nsf16314.

[d] As part of 2017 Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) redesign, the GSS taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy of Disciplines (TOD), thus increasing comparability with other NCSES surveys. As a result, some eligible fields were reclassified and a small number of fields became fully or partially ineligible. Comparisons to prior years should use the 2017old estimates and should be limited to broad areas of study—detailed field comparisons are not recommended.

Note(s):
Percentages may not add to total because of rounding. Master's and doctoral students were not reported separately until 2017. For more information on the mapping of GSS 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.

TABLE 1-5b

First-time status among full-time graduate students in science, engineering, and health, by degree level: 1975–2020

(Number and percent)

Year	All full-time graduate students			Full-time master's students			Full-time doctoral students		
		First time			First time			First time	
	Total	Number	Percent	Total	Number	Percent	Total	Number	Percent
1975	219,648	76,686	34.9	na	na	na	na	na	na
1976	223,412	90,811	40.6	na	na	na	na	na	na
1977	226,738	93,116	41.1	na	na	na	na	na	na
1978[a]	223,030	70,578	31.6	na	na	na	na	na	na
1979	231,760	76,788	33.1	na	na	na	na	na	na
1980	238,416	81,259	34.1	na	na	na	na	na	na
1981	242,049	80,003	33.1	na	na	na	na	na	na
1982	244,757	80,257	32.8	na	na	na	na	na	na
1983	252,017	81,606	32.4	na	na	na	na	na	na
1984	253,922	80,186	31.6	na	na	na	na	na	na
1985	257,287	80,678	31.4	na	na	na	na	na	na
1986	266,168	82,548	31.0	na	na	na	na	na	na
1987	271,056	80,843	29.8	na	na	na	na	na	na
1988	275,127	80,580	29.3	na	na	na	na	na	na
1989	282,648	84,532	29.9	na	na	na	na	na	na
1990	292,782	87,401	29.9	na	na	na	na	na	na
1991	307,010	93,147	30.3	na	na	na	na	na	na
1992	322,555	95,802	29.7	na	na	na	na	na	na
1993	329,644	92,748	28.1	na	na	na	na	na	na
1994	332,088	92,171	27.8	na	na	na	na	na	na
1995	329,283	89,482	27.2	na	na	na	na	na	na
1996	328,536	88,984	27.1	na	na	na	na	na	na
1997	327,289	89,177	27.2	na	na	na	na	na	na
1998	327,389	90,828	27.7	na	na	na	na	na	na
1999	334,423	92,214	27.6	na	na	na	na	na	na
2000	341,283	94,340	27.6	na	na	na	na	na	na
2001	354,522	98,112	27.7	na	na	na	na	na	na
2002	378,991	104,184	27.5	na	na	na	na	na	na
2003	397,420	107,715	27.1	na	na	na	na	na	na
2004	402,573	106,544	26.5	na	na	na	na	na	na
2005	406,620	110,219	27.1	na	na	na	na	na	na
2006	419,015	116,482	27.8	na	na	na	na	na	na
2007old[b]	430,860	120,236	27.9	na	na	na	na	na	na
2007new[b]	437,365	122,449	28.0	na	na	na	na	na	na
2008	449,613	130,635	29.1	na	na	na	na	na	na
2009	456,115	134,756	29.5	na	na	na	na	na	na
2010	461,185	136,487	29.6	na	na	na	na	na	na
2011	457,292	136,610	29.9	na	na	na	na	na	na
2012	459,498	137,767	30.0	na	na	na	na	na	na
2013	468,953	143,326	30.6	na	na	na	na	na	na
2014old[c]	484,880	150,653	31.1	na	na	na	na	na	na
2014new[c]	492,170	154,219	31.3	na	na	na	na	na	na
2015	506,262	161,640	31.9	na	na	na	na	na	na
2016	508,773	161,824	31.8	na	na	na	na	na	na
2017old[d]	498,619	162,805	32.7	na	na	na	na	na	na
2017new[d]	480,788	156,157	32.5	245,010	110,980	45.3	235,778	45,177	19.2
2018	491,449	159,724	32.5	248,552	114,214	46.0	242,897	45,510	18.7

TABLE 1-5b

First-time status among full-time graduate students in science, engineering, and health, by degree level: 1975–2020

(Number and percent)

Year	All full-time graduate students			Full-time master's students			Full-time doctoral students		
	Total	First time		Total	First time		Total	First time	
		Number	Percent		Number	Percent		Number	Percent
2019	502,442	163,032	32.4	254,532	116,507	45.8	247,910	46,525	18.8
2020	491,515	143,269	29.1	243,859	102,096	41.9	247,656	41,173	16.6

na = not applicable; master's and doctoral students were not reported separately until 2017.

[a] Master's-granting institutions were not surveyed in 1978; totals represent estimates based on 1977 and 1979 data.

[b] In 2007, eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in https://www.nsf.gov/statistics/nsf10307/ for more detail.

[c] In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed academic institutions in the United States with master's- or doctorate-granting programs in science, engineering, or health. A total of 151 newly eligible institutions were added, and two private for-profit institutions offering mostly practitioner-based graduate degrees were determined to be ineligible. For more information, see https://www.nsf.gov/statistics/2016/nsf16314.

[d] As part of 2017 Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) redesign, the GSS taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy of Disciplines (TOD), thus increasing comparability with other NCSES surveys. As a result, some eligible fields were reclassified and a small number of fields became fully or partially ineligible. Comparisons to prior years should use the 2017old estimates and should be limited to broad areas of study—detailed field comparisons are not recommended.

Note(s):
Percentages may not add to total because of rounding.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 1-6

Primary source of support for full-time graduate students in science, engineering, and health: 1975–2020

(Number and percent)

Year	Total	Federal		Institutional		Nonfederal domestic		Foreign		Personal resources	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
1975	219,648	47,055	21.4	76,170	34.7	11,189	5.1	5,374	2.4	79,860	36.4
1976	223,412	49,036	21.9	81,839	36.6	11,830	5.3	6,279	2.8	74,428	33.3
1977	226,738	50,809	22.4	82,994	36.6	11,883	5.2	6,879	3.0	74,173	32.7
1978[a]	223,030	51,984	23.3	81,676	36.6	19,450	8.7	na	na	69,920	31.4
1979	231,760	52,682	22.7	84,879	36.6	12,577	5.4	7,773	3.4	73,849	31.9
1980	238,416	52,959	22.2	88,691	37.2	13,068	5.5	8,241	3.5	75,457	31.6
1981	242,049	50,896	21.0	92,089	38.0	13,735	5.7	8,807	3.6	76,522	31.6
1982	244,757	47,403	19.4	95,271	38.9	15,128	6.2	9,059	3.7	77,896	31.8
1983	252,017	47,752	18.9	98,149	38.9	15,904	6.3	8,979	3.6	81,233	32.2
1984	253,922	47,784	18.8	102,175	40.2	16,638	6.6	8,175	3.2	79,150	31.2
1985	257,287	49,051	19.1	104,058	40.4	18,778	7.3	7,770	3.0	77,630	30.2
1986	266,168	51,361	19.3	109,199	41.0	19,056	7.2	7,672	2.9	78,880	29.6
1987	271,056	53,538	19.8	112,263	41.4	18,275	6.7	7,200	2.7	79,780	29.4
1988	275,127	55,489	20.2	114,740	41.7	18,737	6.8	7,001	2.5	79,160	28.8
1989	282,648	57,433	20.3	119,114	42.1	19,140	6.8	6,710	2.4	80,251	28.4
1990	292,782	59,258	20.2	123,005	42.0	19,604	6.7	6,531	2.2	84,384	28.8
1991	307,010	63,000	20.5	125,329	40.8	20,455	6.7	6,643	2.2	91,583	29.8
1992	322,555	65,607	20.3	127,846	39.6	21,343	6.6	6,460	2.0	101,299	31.4
1993	329,644	67,673	20.5	128,950	39.1	21,264	6.5	5,481	1.7	106,276	32.2
1994	332,088	68,550	20.6	129,218	38.9	21,567	6.5	5,718	1.7	107,035	32.2
1995	329,283	67,294	20.4	129,320	39.3	20,435	6.2	5,547	1.7	106,687	32.4
1996	328,536	65,240	19.9	128,379	39.1	20,193	6.1	5,249	1.6	109,475	33.3
1997	327,289	64,522	19.7	128,927	39.4	20,251	6.2	4,848	1.5	108,741	33.2
1998	327,389	63,759	19.5	128,995	39.4	22,157	6.8	4,254	1.3	108,224	33.1
1999	334,423	65,796	19.7	133,182	39.8	22,099	6.6	3,930	1.2	109,416	32.7
2000	341,283	67,588	19.8	133,415	39.1	24,000	7.0	3,848	1.1	112,432	32.9
2001	354,522	68,843	19.4	140,787	39.7	24,420	6.9	3,836	1.1	116,636	32.9
2002	378,991	75,538	19.9	147,883	39.0	25,557	6.7	3,359	0.9	126,654	33.4
2003	397,420	81,761	20.6	151,713	38.2	26,118	6.6	3,098	0.8	134,730	33.9
2004	402,573	83,816	20.8	154,514	38.4	24,325	6.0	2,840	0.7	137,078	34.1
2005	406,620	83,723	20.6	156,332	38.4	24,548	6.0	2,614	0.6	139,403	34.3
2006	419,015	83,962	20.0	160,405	38.3	25,384	6.1	2,658	0.6	146,606	35.0
2007old[b]	430,860	81,542	18.9	167,836	39.0	24,262	5.6	2,927	0.7	154,293	35.8
2007new[b]	437,365	81,859	18.7	171,128	39.1	24,410	5.6	2,939	0.7	157,029	35.9
2008	449,613	78,464	17.5	179,439	39.9	22,238	4.9	3,814	0.8	165,658	36.8
2009	456,115	81,565	17.9	177,680	39.0	22,910	5.0	4,004	0.9	169,956	37.3
2010	461,185	86,310	18.7	177,946	38.6	22,127	4.8	4,238	0.9	170,564	37.0
2011	457,292	85,220	18.6	179,895	39.3	21,717	4.7	4,653	1.0	165,807	36.3
2012	459,498	80,962	17.6	183,965	40.0	22,443	4.9	5,228	1.1	166,900	36.3
2013	468,953	76,840	16.4	189,440	40.4	20,514	4.4	5,371	1.1	176,788	37.7
2014old[c]	484,880	72,507	15.0	195,446	40.3	19,970	4.1	5,809	1.2	191,148	39.4
2014new[c]	492,170	72,756	14.8	196,810	40.0	20,035	4.1	5,882	1.2	196,687	40.0
2015	506,262	72,393	14.3	201,681	39.8	20,771	4.1	5,739	1.1	205,678	40.6
2016	508,773	71,955	14.1	203,823	40.1	19,793	3.9	5,020	1.0	208,182	40.9
2017old[d]	498,619	69,899	14.0	201,388	40.4	21,211	4.3	5,271	1.1	200,850	40.3
2017new[d]	480,788	69,537	14.5	194,550	40.5	20,833	4.3	5,175	1.1	190,693	39.7
2018	491,449	71,594	14.6	199,298	40.6	19,568	4.0	4,875	1.0	196,114	39.9
2019	502,442	73,605	14.6	205,890	41.0	19,171	3.8	4,699	0.9	199,077	39.6

TABLE 1-6

Primary source of support for full-time graduate students in science, engineering, and health: 1975–2020

(Number and percent)

Year	Total	Federal		Institutional		Nonfederal domestic		Foreign		Personal resources	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
2020	491,515	76,218	15.5	200,422	40.8	18,380	3.7	3,824	0.8	192,671	39.2
Master's students											
2017new[d]	245,010	12,354	5.0	59,385	24.2	5,884	2.4	1,902	0.8	165,485	67.5
2018	248,552	12,324	5.0	57,999	23.3	4,758	1.9	1,541	0.6	171,930	69.2
2019	254,532	11,491	4.5	60,153	23.6	4,914	1.9	1,517	0.6	176,457	69.3
2020	243,859	12,459	5.1	56,781	23.3	4,498	1.8	1,022	0.4	169,099	69.3
Doctoral students											
2017new[d]	235,778	57,183	24.3	135,165	57.3	14,949	6.3	3,273	1.4	25,208	10.7
2018	242,897	59,270	24.4	141,299	58.2	14,810	6.1	3,334	1.4	24,184	10.0
2019	247,910	62,114	25.1	145,737	58.8	14,257	5.8	3,182	1.3	22,620	9.1
2020	247,656	63,759	25.7	143,641	58.0	13,882	5.6	2,802	1.1	23,572	9.5

na = not applicable.

[a] Master's-granting institutions were not surveyed in 1978; totals represent estimates based on 1977 and 1979 data.

[b] In 2007, eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in https://www.nsf.gov/statistics/nsf10307/ for more detail.

[c] In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed academic institutions in the United States with master's- or doctorate-granting programs in science, engineering, or health. A total of 151 newly eligible institutions were added, and two private for-profit institutions offering mostly practitioner-based graduate degrees were determined to be ineligible. For more information, see https://www.nsf.gov/statistics/2016/nsf16314.

[d] As part of 2017 Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) redesign, the GSS taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy of Disciplines (TOD), thus increasing comparability with other NCSES surveys. As a result, some eligible fields were reclassified and a small number of fields became fully or partially ineligible. Comparisons to prior years should use the 2017old estimates and should be limited to broad areas of study—detailed field comparisons are not recommended.

Note(s):
Percentages may not add to total because of rounding. Master's and doctoral students were not reported separately until 2017.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 1-7

Detailed primary source of federal support for full-time graduate students in science, engineering, and health: 1975–2020

(Number and percent)

Year	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
1975	47,055	5,061	10.8	NA	NA	12,141	25.8	7,836	16.7	NA	NA	8,790	18.7	NA	NA	13,227	28.1
1976	49,036	4,772	9.7	NA	NA	11,307	23.1	8,341	17.0	NA	NA	8,953	18.3	NA	NA	15,663	31.9
1977	50,809	4,971	9.8	NA	NA	10,861	21.4	9,397	18.5	NA	NA	9,018	17.7	NA	NA	16,562	32.6
1978[a]	51,984	NA	NA	NA	NA	10,825	20.8	10,060	19.4	NA	NA	9,007	17.3	NA	NA	22,092	42.5
1979	52,682	4,990	9.5	NA	NA	11,648	22.1	10,482	19.9	NA	NA	9,366	17.8	NA	NA	16,196	30.7
1980	52,959	5,251	9.9	NA	NA	11,499	21.7	7,522	14.2	NA	NA	9,348	17.7	NA	NA	19,339	36.5
1981	50,896	5,664	11.1	NA	NA	11,179	22.0	6,429	12.6	NA	NA	9,143	18.0	NA	NA	18,481	36.3
1982	47,403	5,941	12.5	NA	NA	10,814	22.8	4,975	10.5	NA	NA	9,257	19.5	NA	NA	16,416	34.6
1983	47,752	6,969	14.6	NA	NA	10,810	22.6	4,179	8.8	NA	NA	9,524	19.9	NA	NA	16,270	34.1
1984	47,784	7,125	14.9	NA	NA	10,983	23.0	4,124	8.6	NA	NA	9,848	20.6	NA	NA	15,704	32.9
1985	49,051	7,326	14.9	NA	NA	11,112	22.7	4,740	9.7	NA	NA	10,180	20.8	2,171	4.4	13,522	27.6
1986	51,361	7,940	15.5	NA	NA	11,877	23.1	4,500	8.8	NA	NA	10,826	21.1	2,328	4.5	13,890	27.0
1987	53,538	8,795	16.4	NA	NA	12,944	24.2	4,247	7.9	NA	NA	11,247	21.0	2,684	5.0	13,621	25.4
1988	55,489	9,546	17.2	NA	NA	13,715	24.7	4,186	7.5	NA	NA	11,634	21.0	2,591	4.7	13,817	24.9
1989	57,433	9,140	15.9	NA	NA	14,357	25.0	4,335	7.5	NA	NA	11,900	20.7	2,728	4.7	14,973	26.1
1990	59,258	8,868	15.0	NA	NA	14,996	25.3	4,512	7.6	NA	NA	12,025	20.3	2,722	4.6	16,135	27.2
1991	63,000	9,128	14.5	NA	NA	16,018	25.4	4,461	7.1	NA	NA	12,666	20.1	3,075	4.9	17,652	28.0
1992	65,607	9,247	14.1	NA	NA	17,091	26.1	4,321	6.6	NA	NA	13,366	20.4	3,216	4.9	18,366	28.0
1993	67,673	9,750	14.4	NA	NA	18,135	26.8	3,888	5.7	NA	NA	13,530	20.0	3,324	4.9	19,046	28.1
1994	68,550	9,449	13.8	NA	NA	18,292	26.7	4,374	6.4	NA	NA	13,990	20.4	3,422	5.0	19,023	27.8
1995	67,294	9,339	13.9	NA	NA	18,109	26.9	4,666	6.9	NA	NA	13,661	20.3	3,254	4.8	18,265	27.1
1996	65,240	8,802	13.5	NA	NA	17,929	27.5	4,432	6.8	2,309	3.5	13,412	20.6	3,004	4.6	15,352	23.5
1997	64,522	9,021	14.0	NA	NA	18,087	28.0	4,443	6.9	2,586	4.0	13,362	20.7	2,646	4.1	14,377	22.3
1998	63,759	8,259	13.0	NA	NA	18,215	28.6	4,489	7.0	2,646	4.2	13,459	21.1	2,485	3.9	14,206	22.3
1999	65,796	8,026	12.2	2,749	4.2	19,019	28.9	4,423	6.7	2,579	3.9	13,835	21.0	2,634	4.0	12,531	19.0
2000	67,588	8,141	12.0	2,995	4.4	19,472	28.8	4,018	5.9	2,780	4.1	14,599	21.6	2,630	3.9	12,953	19.2
2001	68,843	7,960	11.6	3,116	4.5	19,904	28.9	4,433	6.4	2,819	4.1	15,429	22.4	2,735	4.0	12,447	18.1
2002	75,538	7,977	10.6	3,548	4.7	22,129	29.3	4,830	6.4	3,082	4.1	17,135	22.7	3,100	4.1	13,737	18.2
2003	81,761	9,204	11.3	4,024	4.9	24,309	29.7	4,922	6.0	3,230	4.0	19,308	23.6	3,468	4.2	13,296	16.3
2004	83,816	9,007	10.7	4,135	4.9	26,689	31.8	4,211	5.0	2,916	3.5	19,975	23.8	3,563	4.3	13,320	15.9
2005	83,723	8,993	10.7	4,392	5.2	26,868	32.1	3,912	4.7	2,691	3.2	20,387	24.4	3,351	4.0	13,129	15.7
2006	83,962	8,867	10.6	4,480	5.3	27,587	32.9	3,662	4.4	2,364	2.8	20,339	24.2	3,000	3.6	13,663	16.3
2007old[b]	81,542	8,874	10.9	4,281	5.3	26,982	33.1	3,067	3.8	2,314	2.8	19,747	24.2	2,796	3.4	13,481	16.5
2007new[b]	81,859	8,885	10.9	4,284	5.2	27,015	33.0	3,086	3.8	2,317	2.8	19,792	24.2	2,810	3.4	13,670	16.7

TABLE 1-7

Detailed primary source of federal support for full-time graduate students in science, engineering, and health: 1975–2020

(Number and percent)

Year	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
2008	78,464	8,219	10.5	4,341	5.5	26,003	33.1	2,496	3.2	2,344	3.0	19,882	25.3	2,770	3.5	12,409	15.8
2009	81,565	8,683	10.6	4,608	5.6	26,506	32.5	2,200	2.7	2,426	3.0	21,682	26.6	2,706	3.3	12,754	15.6
2010	86,310	9,233	10.7	5,512	6.4	27,615	32.0	2,255	2.6	2,472	2.9	23,226	26.9	3,061	3.5	12,936	15.0
2011	85,220	9,107	10.7	5,738	6.7	25,670	30.1	2,201	2.6	2,394	2.8	24,226	28.4	2,862	3.4	13,022	15.3
2012	80,962	8,748	10.8	5,343	6.6	24,256	30.0	1,921	2.4	2,173	2.7	24,243	29.9	2,664	3.3	11,614	14.3
2013	76,840	8,304	10.8	4,803	6.3	22,372	29.1	1,642	2.1	2,006	2.6	23,307	30.3	2,577	3.4	11,829	15.4
2014old[c]	72,507	7,445	10.3	4,398	6.1	21,153	29.2	1,365	1.9	2,005	2.8	22,791	31.4	2,400	3.3	10,950	15.1
2014new[c]	72,756	7,454	10.2	4,401	6.0	21,191	29.1	1,382	1.9	2,013	2.8	22,899	31.5	2,420	3.3	10,996	15.1
2015	72,393	8,127	11.2	4,309	6.0	20,641	28.5	1,715	2.4	2,036	2.8	22,924	31.7	2,676	3.7	9,965	13.8
2016	71,955	8,291	11.5	4,482	6.2	20,381	28.3	1,635	2.3	2,025	2.8	22,677	31.5	2,535	3.5	9,929	13.8
2017old[d]	69,899	8,365	12.0	4,480	6.4	19,687	28.2	1,727	2.5	1,821	2.6	21,010	30.1	2,444	3.5	10,365	14.8
2017new[d]	69,537	8,323	12.0	4,480	6.4	19,645	28.3	1,719	2.5	1,818	2.6	20,946	30.1	2,415	3.5	10,191	14.7
2018	71,594	7,600	10.6	4,568	6.4	19,903	27.8	2,842	4.0	1,899	2.7	21,711	30.3	2,619	3.7	10,452	14.6
2019	73,605	8,495	11.5	5,119	7.0	21,025	28.6	2,498	3.4	2,057	2.8	21,801	29.6	2,580	3.5	10,030	13.6
2020	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
Master's students																	
2017new[d]	12,354	2,756	22.3	491	4.0	1,014	8.2	310	2.5	286	2.3	2,212	17.9	962	7.8	4,323	35.0
2018	12,324	2,345	19.0	412	3.3	975	7.9	539	4.4	300	2.4	2,160	17.5	1,059	8.6	4,534	36.8
2019	11,491	2,492	21.7	452	3.9	1,046	9.1	471	4.1	276	2.4	2,054	17.9	977	8.5	3,723	32.4
2020	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
Doctoral students																	
2017new[d]	57,183	5,567	9.7	3,989	7.0	18,631	32.6	1,409	2.5	1,532	2.7	18,734	32.8	1,453	2.5	5,868	10.3
2018	59,270	5,255	8.9	4,156	7.0	18,928	31.9	2,303	3.9	1,599	2.7	19,551	33.0	1,560	2.6	5,918	10.0
2019	62,114	6,003	9.7	4,667	7.5	19,979	32.2	2,027	3.3	1,781	2.9	19,747	31.8	1,603	2.6	6,307	10.2
2020	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

NA = not available; USDA was added in 1985, NASA was added in 1996, and DOE was added in 1999.

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.

[a] Master's-granting institutions were not surveyed in 1978; totals represent estimates based on 1977 and 1979 data.

[b] In 2007, eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in https://www.nsf.gov/statistics/nsf10307/ for more detail.

[c] In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed academic institutions in the United States with master's- or doctorate-granting programs in science, engineering, or health. A total of 151 newly eligible institutions were added, and two private for-profit institutions offering mostly practitioner-based graduate degrees were determined to be ineligible. For

more information, see https://www.nsf.gov/statistics/2016/nsf16314.

[d] As part of 2017 Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) redesign, the GSS taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy of Disciplines (TOD), thus increasing comparability with other NCSES surveys. As a result, some eligible fields were reclassified and a small number of fields became fully or partially ineligible. Comparisons to prior years should use the 2017old estimates and should be limited to broad areas of study—detailed field comparisons are not recommended.

Note(s):
Percentages may not add to total because of rounding. Master's and doctoral students were not reported separately until 2017.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 1-8

Primary mechanism of support for full-time graduate students in science, engineering, and health: 1975–2020

(Number and percent)

Year	Total	Fellowships		Research assistantships		Teaching assistantships		Traineeships		Other types of support			
										Self-support		Other	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
1975	219,648	37,163	16.9	39,964	18.2	47,156	21.5	na	na	79,860	36.4	15,505	7.1
1976	223,412	36,200	16.2	42,555	19.0	48,124	21.5	na	na	74,428	33.3	22,105	9.9
1977	226,738	37,679	16.6	43,657	19.3	48,481	21.4	na	na	74,173	32.7	22,748	10.0
1978[a]	223,030	na	na	na	na	na	na	na	na	69,920	31.4	153,110	68.6
1979	231,760	20,214	8.7	48,976	21.1	51,779	22.3	17,965	7.8	73,849	31.9	18,977	8.2
1980	238,416	20,515	8.6	51,566	21.6	53,889	22.6	17,545	7.4	75,457	31.6	19,444	8.2
1981	242,049	20,095	8.3	52,711	21.8	55,745	23.0	16,771	6.9	76,522	31.6	20,205	8.3
1982	244,757	20,855	8.5	52,580	21.5	58,334	23.8	14,637	6.0	77,896	31.8	20,455	8.4
1983	252,017	21,342	8.5	54,904	21.8	60,071	23.8	13,512	5.4	81,233	32.2	20,955	8.3
1984	253,922	21,624	8.5	57,735	22.7	61,256	24.1	13,465	5.3	79,150	31.2	20,692	8.1
1985	257,287	22,540	8.8	60,995	23.7	61,822	24.0	13,665	5.3	77,630	30.2	20,635	8.0
1986	266,168	22,954	8.6	66,010	24.8	62,552	23.5	13,526	5.1	78,880	29.6	22,246	8.4
1987	271,056	21,953	8.1	70,214	25.9	62,847	23.2	14,096	5.2	79,780	29.4	22,166	8.2
1988	275,127	22,353	8.1	74,588	27.1	63,053	22.9	14,397	5.2	79,160	28.8	21,576	7.8
1989	282,648	23,450	8.3	79,045	28.0	64,296	22.7	14,524	5.1	80,251	28.4	21,082	7.5
1990	292,782	25,254	8.6	80,746	27.6	64,950	22.2	15,198	5.2	84,384	28.8	22,250	7.6
1991	307,010	26,695	8.7	85,175	27.7	65,214	21.2	15,403	5.0	91,583	29.8	22,940	7.5
1992	322,555	28,627	8.9	88,030	27.3	65,702	20.4	15,361	4.8	101,299	31.4	23,536	7.3
1993	329,644	29,132	8.8	90,154	27.3	67,290	20.4	15,445	4.7	106,276	32.2	21,347	6.5
1994	332,088	28,892	8.7	92,008	27.7	66,844	20.1	15,681	4.7	107,035	32.2	21,628	6.5
1995	329,283	28,887	8.8	89,946	27.3	65,976	20.0	15,943	4.8	106,687	32.4	21,844	6.6
1996	328,536	28,862	8.8	87,694	26.7	65,756	20.0	15,481	4.7	109,475	33.3	21,268	6.5
1997	327,289	28,956	8.8	88,001	26.9	65,425	20.0	14,488	4.4	108,741	33.2	21,678	6.6
1998	327,389	29,106	8.9	88,097	26.9	65,173	19.9	14,946	4.6	108,224	33.1	21,843	6.7
1999	334,423	30,112	9.0	91,279	27.3	66,294	19.8	14,707	4.4	109,416	32.7	22,615	6.8
2000	341,283	31,330	9.2	94,323	27.6	66,423	19.5	14,171	4.2	112,432	32.9	22,604	6.6
2001	354,522	32,270	9.1	99,923	28.2	68,267	19.3	14,154	4.0	116,636	32.9	23,272	6.6
2002	378,991	34,849	9.2	108,185	28.5	70,732	18.7	15,006	4.0	126,654	33.4	23,565	6.2
2003	397,420	34,460	8.7	114,256	28.7	73,105	18.4	15,126	3.8	134,730	33.9	25,743	6.5
2004	402,573	35,034	8.7	114,768	28.5	73,009	18.1	14,903	3.7	137,078	34.1	27,781	6.9
2005	406,620	36,414	9.0	114,304	28.1	74,238	18.3	14,570	3.6	139,403	34.3	27,691	6.8
2006	419,015	36,689	8.8	114,774	27.4	75,911	18.1	14,571	3.5	146,606	35.0	30,464	7.3
2007old[b]	430,860	38,340	8.9	115,192	26.7	77,817	18.1	13,437	3.1	154,293	35.8	31,781	7.4
2007new[b]	437,365	38,631	8.8	116,043	26.5	79,948	18.3	13,497	3.1	157,029	35.9	32,217	7.4
2008	449,613	38,599	8.6	118,349	26.3	83,135	18.5	13,317	3.0	165,658	36.8	30,555	6.8
2009	456,115	38,931	8.5	121,443	26.6	81,828	17.9	12,830	2.8	169,956	37.3	31,127	6.8
2010	461,185	39,899	8.7	123,698	26.8	83,252	18.1	12,476	2.7	170,564	37.0	31,296	6.8
2011	457,292	41,297	9.0	122,480	26.8	84,173	18.4	12,629	2.8	165,807	36.3	30,906	6.8
2012	459,498	42,005	9.1	119,347	26.0	86,295	18.8	11,646	2.5	166,900	36.3	33,305	7.2
2013	468,953	43,432	9.3	116,377	24.8	88,689	18.9	10,514	2.2	176,788	37.7	33,153	7.1
2014old[c]	484,880	42,804	8.8	115,274	23.8	90,564	18.7	11,207	2.3	191,148	39.4	33,883	7.0
2014new[c]	492,170	43,084	8.8	115,700	23.5	90,947	18.5	11,251	2.3	196,687	40.0	34,501	7.0
2015	506,262	43,460	8.6	116,425	23.0	92,513	18.3	11,175	2.2	205,678	40.6	37,011	7.3
2016	508,773	42,584	8.4	116,222	22.8	91,545	18.0	11,833	2.3	208,182	40.9	38,407	7.5
2017old[d]	498,619	42,120	8.4	110,408	22.1	91,615	18.4	12,380	2.5	200,850	40.3	41,246	8.3
2017new[d]	480,788	41,408	8.6	108,633	22.6	88,323	18.4	12,249	2.5	190,693	39.7	39,482	8.2
2018	491,449	41,779	8.5	111,469	22.7	87,682	17.8	12,896	2.6	196,114	39.9	41,509	8.4

TABLE 1-8

Primary mechanism of support for full-time graduate students in science, engineering, and health: 1975–2020

(Number and percent)

Year	Total	Fellowships		Research assistantships		Teaching assistantships		Traineeships		Other types of support			
										Self-support		Other	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
2019	502,442	45,834	9.1	115,320	23.0	88,144	17.5	12,282	2.4	199,077	39.6	41,785	8.3
2020	491,515	43,462	8.8	115,101	23.4	85,292	17.4	12,019	2.4	192,671	39.2	42,970	8.7
Master's students													
2017new[d]	245,010	6,535	2.7	21,681	8.8	24,193	9.9	1,992	0.8	165,485	67.5	25,124	10.3
2018	248,552	6,880	2.8	20,147	8.1	22,636	9.1	2,253	0.9	171,930	69.2	24,706	9.9
2019	254,532	7,717	3.0	20,406	8.0	23,284	9.1	2,185	0.9	176,457	69.3	24,483	9.6
2020	243,859	6,112	2.5	19,274	7.9	21,699	8.9	2,268	0.9	169,099	69.3	25,407	10.4
Doctoral students													
2017new[d]	235,778	34,873	14.8	86,952	36.9	64,130	27.2	10,257	4.4	25,208	10.7	14,358	6.1
2018	242,897	34,899	14.4	91,322	37.6	65,046	26.8	10,643	4.4	24,184	10.0	16,803	6.9
2019	247,910	38,117	15.4	94,914	38.3	64,860	26.2	10,097	4.1	22,620	9.1	17,302	7.0
2020	247,656	37,350	15.1	95,827	38.7	63,593	25.7	9,751	3.9	23,572	9.5	17,563	7.1

na = not applicable.

[a] Master's-granting institutions were not surveyed in 1978; totals represent estimates based on 1977 and 1979 data.

[b] In 2007, eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in https://www.nsf.gov/statistics/nsf10307/ for more detail.

[c] In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed academic institutions in the United States with master's- or doctorate-granting programs in science, engineering, or health. A total of 151 newly eligible institutions were added, and two private for-profit institutions offering mostly practitioner-based graduate degrees were determined to be ineligible. For more information, see https://www.nsf.gov/statistics/2016/nsf16314.

[d] As part of 2017 Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) redesign, the GSS taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy of Disciplines (TOD), thus increasing comparability with other NCSES surveys. As a result, some eligible fields were reclassified and a small number of fields became fully or partially ineligible. Comparisons to prior years should use the 2017old estimates and should be limited to broad areas of study—detailed field comparisons are not recommended.

Note(s):
Percentages may not add to total because of rounding. Master's and doctoral students were not reported separately until 2017.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 1-9a

Graduate students in science broad fields: 1975–2020

(Number)

Year	Total	Agricultural and veterinary sciences[a,b]	Biological and biomedical sciences[a]	Communication[a,c,d]	Computer and information sciences	Family and consumer sciences and human sciences[a,c,d]	Geosciences, atmospheric sciences, and ocean sciences	Mathematics and statistics	Multidisciplinary and interdisciplinary studies[a,d]	Natural resources and conservation[a]	Neurobiology and neuroscience[a,d]	Physical sciences[a]	Psychology[b,c]	Social sciences[a,b]
1975	234,649	10,804	46,185	ne	8,415	ne	12,079	16,892	ne	NA	NA	26,310	36,191	77,773
1976	238,675	11,427	47,453	ne	8,627	ne	12,809	17,071	ne	NA	NA	26,641	37,458	77,189
1977	242,932	11,812	48,975	ne	9,108	ne	13,446	16,052	ne	NA	NA	26,864	38,617	78,058
1978[f]	236,465	11,981	47,665	ne	9,847	ne	13,268	14,812	ne	NA	NA	26,282	37,522	75,088
1979	247,235	12,365	47,932	ne	11,690	ne	13,731	15,031	ne	NA	NA	26,701	39,766	80,019
1980	251,265	12,689	47,261	ne	13,578	ne	14,051	15,311	ne	NA	NA	26,934	40,610	80,831
1981	252,404	12,585	46,302	ne	16,437	ne	14,263	15,881	ne	NA	NA	27,360	40,666	78,910
1982	255,146	12,826	45,627	ne	19,812	ne	15,018	17,157	ne	NA	NA	28,188	40,073	76,445
1983	255,820	12,728	45,253	ne	23,333	ne	15,443	17,358	ne	NA	NA	29,463	40,905	71,337
1984	256,903	12,528	45,353	ne	25,526	ne	15,500	17,443	ne	NA	NA	30,061	40,931	69,561
1985	261,973	11,846	45,709	ne	29,769	ne	15,414	17,563	ne	NA	NA	30,987	40,721	69,964
1986	266,077	11,771	46,302	ne	31,349	ne	15,053	17,949	ne	NA	NA	32,259	41,241	70,153
1987	269,256	11,405	46,317	ne	32,051	ne	14,357	18,508	ne	NA	NA	32,741	42,612	71,265
1988	272,309	11,438	47,126	ne	32,227	ne	13,854	19,077	ne	NA	NA	32,975	43,963	71,649
1989	278,577	11,461	48,449	ne	32,482	ne	13,630	19,247	ne	NA	NA	33,629	45,528	74,151
1990	289,383	11,563	49,602	ne	34,257	ne	13,977	19,774	ne	NA	NA	34,082	48,167	77,961
1991	299,057	11,766	51,365	ne	34,681	ne	14,466	19,952	ne	NA	NA	34,724	51,343	80,760
1992	312,478	12,153	53,693	ne	36,325	ne	15,324	20,355	ne	NA	NA	35,357	53,484	85,787
1993	318,851	12,305	55,950	ne	36,213	ne	15,721	20,000	ne	NA	NA	35,328	54,557	88,777
1994	318,118	12,611	57,676	ne	34,158	ne	15,957	19,573	ne	NA	NA	34,466	54,554	89,123
1995	315,265	12,768	58,344	ne	33,458	ne	15,716	18,504	ne	NA	NA	33,399	53,641	89,435
1996	311,957	12,301	57,749	ne	34,626	ne	15,183	18,008	ne	NA	NA	32,333	53,122	88,635
1997	306,482	12,203	56,705	ne	35,991	ne	14,548	16,719	ne	NA	NA	31,105	53,126	86,085
1998	304,818	12,168	56,695	ne	38,027	ne	14,258	16,485	ne	NA	NA	30,575	52,557	84,053
1999	309,491	12,312	56,959	ne	42,478	ne	14,083	16,257	ne	NA	NA	30,691	51,727	84,984
2000	309,424	12,023	56,282	ne	47,350	ne	13,941	15,650	ne	NA	NA	30,385	50,466	83,327
2001	319,736	12,235	57,639	ne	52,196	ne	13,841	16,651	ne	NA	NA	31,038	50,454	85,682
2002	335,166	12,698	61,088	ne	55,269	ne	14,240	18,163	ne	NA	NA	32,341	51,152	90,215
2003	347,268	13,197	64,701	ne	53,696	ne	14,620	19,465	ne	NA	NA	34,298	52,162	95,129
2004	352,307	13,445	66,565	ne	50,016	ne	15,131	19,931	ne	NA	NA	35,761	54,126	97,332
2005	357,710	13,123	68,479	ne	47,978	ne	14,836	20,210	ne	NA	NA	36,375	57,282	99,427
2006	363,246	13,016	69,941	ne	47,653	ne	14,920	20,815	ne	NA	NA	36,901	57,653	102,347

TABLE 1-9a

Graduate students in science broad fields: 1975–2020

(Number)

Year	Total	Agricultural and veterinary sciences[a,b]	Biological and biomedical sciences[a]	Communication[a,c,d]	Computer and information sciences	Family and consumer sciences and human sciences[a,c,d]	Geosciences, atmospheric sciences, and ocean sciences	Mathematics and statistics	Multidisciplinary and interdisciplinary studies[a,d]	Natural resources and conservation[a]	Neurobiology and neuroscience[a,d]	Physical sciences[a]	Psychology[b,e]	Social sciences[a,b]
2007old[d]	372,120	13,222	71,663	ne	48,959	ne	14,675	21,335	ne	NA	NA	37,111	60,284	104,871
2007new[d]	384,523	13,528	71,932	7,303	48,246	2,780	14,100	20,975	4,484	NA	1,584	36,824	59,617	103,150
2008	391,419	14,153	72,666	8,444	49,553	3,549	14,389	21,400	5,559	NA	2,012	37,319	58,991	103,384
2009	401,008	15,200	73,304	9,418	51,161	3,794	14,839	22,226	6,557	NA	2,356	38,149	56,184	107,820
2010	407,291	15,656	74,928	9,825	51,546	4,191	15,655	23,136	7,944	NA	2,798	38,973	53,419	109,220
2011	414,440	16,129	75,423	11,029	51,234	4,509	15,820	23,801	6,537	NA	4,117	39,694	54,486	111,661
2012	413,033	16,234	76,447	11,010	51,789	4,110	16,069	24,575	6,038	NA	4,547	39,928	54,117	108,169
2013	417,251	16,429	76,649	11,114	56,339	4,014	15,816	24,804	5,892	NA	4,795	40,019	54,102	107,278
2014old[g]	425,148	16,947	76,029	11,382	68,766	4,180	15,423	25,502	6,417	NA	4,923	40,196	50,938	104,445
2014new[g]	437,395	17,505	78,490	11,942	76,546	4,302	15,710	25,874	7,196	NA	4,923	40,332	48,833	105,742
2015	448,654	18,610	80,096	11,759	86,192	4,134	15,447	26,444	8,138	NA	5,002	40,386	49,740	102,706
2016	452,046	18,284	79,146	12,347	92,650	3,750	15,015	28,050	9,251	NA	5,226	40,518	47,609	100,200
2017old[a]	450,343	17,674	82,603	11,983	90,657	3,709	14,430	28,990	9,934	NA	5,457	41,081	49,896	93,929
2017new[a]	415,568	9,347	85,217	ne	89,909	ne	12,545	29,669	9,854	10,879	NA	41,829	50,033	76,286
2018	432,255	9,538	87,933	ne	93,478	ne	12,333	31,461	10,338	11,407	NA	42,075	55,707	77,985
2019	453,691	9,518	91,993	ne	101,284	ne	11,878	33,159	11,181	11,743	NA	42,867	61,069	78,999
2020[b]	464,646	10,800	94,825	ne	98,864	ne	11,792	31,971	14,533	12,498	NA	42,616	68,394	78,353
Master's students														
2017new[a]	229,169	5,603	33,926	ne	75,618	ne	6,006	16,568	6,923	7,311	NA	6,368	29,638	41,208
2018	241,327	5,658	35,306	ne	77,351	ne	5,629	18,073	7,414	7,691	NA	6,075	35,404	42,726
2019	259,795	5,629	38,078	ne	84,092	ne	5,327	19,594	8,203	8,066	NA	6,361	40,838	43,607
2020[b]	267,904	6,487	39,920	ne	80,690	ne	5,277	18,284	10,980	8,793	NA	6,275	47,279	43,919
Doctoral students														
2017new[a]	186,399	3,744	51,291	ne	14,291	ne	6,539	13,101	2,931	3,568	NA	35,461	20,395	35,078
2018	190,928	3,880	52,627	ne	16,127	ne	6,704	13,388	2,924	3,716	NA	36,000	20,303	35,259
2019	193,896	3,889	53,915	ne	17,192	ne	6,551	13,565	2,978	3,677	NA	36,506	20,231	35,392
2020[b]	196,742	4,313	54,905	ne	18,174	ne	6,515	13,687	3,553	3,705	NA	36,341	21,115	34,434

NA = not available; these fields were collected as part of other fields in other years (see footnotes a and d). ne = not eligible; the fields collected have changed over time.

[a] As part of 2017 Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) redesign, the GSS taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy of Disciplines (TOD), thus increasing comparability with other NCSES surveys. As a result, some eligible fields were reclassified and a small number of fields became fully or partially ineligible. Comparisons to prior years should use the 2017old estimates and should be limited to broad areas of study—detailed field comparisons are not recommended. Redesign includes the following: natural resources splitting from agricultural sciences; neurosciences being reported under biological and biomedical sciences; human development being reported under social sciences; physical sciences adding materials sciences; social sciences no longer including public administration; and multidisciplinary and interdisciplinary studies no longer including nanoscience; and communication as well as family and consumer sciences were removed.

[b] In 2020, for better alignment to the NCSES TOD and Classification of Instructional Programs, human development was moved from social sciences to psychology, and veterinary biomedical and clinical sciences was moved to agricultural sciences. The broad field of agricultural sciences was renamed to agricultural and veterinary sciences to reflect this change.

[c] The field communication and the field family and consumer sciences and human sciences were added as part of the 2007 field eligibility changes. These fields were dropped in 2017 to align the GSS with other NCSES surveys.

[d] In 2007, eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. The science field communication and the science field family and consumer sciences and human sciences were newly eligible in 2007; data for these two fields begin in 2007new. The science field multidisciplinary and interdisciplinary studies was also added to the GSS code list in 2007; some data reported in this field were reported under other fields before 2007 and are included in those fields in 2007old. neuroscience is reported as a separate field of science in 2007new; data were reported under health field neurology in 2007old and previous years. See appendix A in https://www.nsf.gov/statistics/nsf10307/ for more detail.

[e] Beginning in 2008, more rigorous follow-up was done with institutions regarding the exclusion of practitioner-oriented graduate degree programs in psychology. This change may affect interpretation of trends in this field. This follow-up was discontinued in 2017.

[f] Master's-granting institutions were not surveyed in 1978; totals represent estimates based on 1977 and 1979 data.

[g] In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed academic institutions in the United States with master's- or doctorate-granting programs in science, engineering, or health. A total of 151 newly eligible institutions were added, and two private for-profit institutions offering mostly practitioner-based graduate degrees were determined to be ineligible. For more information, see https://www.nsf.gov/statistics/2016/nsf16314.

Note(s):
Sum of the broad fields may not add to total because of rounding. Master's and doctoral students were not reported separately until 2017. For more information on the mapping of GSS 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.

TABLE 1-9b

Postdoctoral appointees in science broad fields: 1979–2020

(Number)

Year	Total	Agricultural and veterinary sciences[a,b]	Biological and biomedical sciences[a]	Communication[a,c,d]	Computer and information sciences	Family and consumer sciences and human sciences[a,c,d]	Geosciences, atmospheric sciences, and ocean sciences	Mathematics and statistics	Multidisciplinary and interdisciplinary studies[a,d]	Natural resources and conservation[a]	Neurobiology and neuroscience[a,d]	Physical sciences[a]	Psychology[b,c]	Social sciences[a,b]
1979	12,519	228	6,866	ne	38	ne	315	162	ne	NA	NA	4,056	454	400
1980	13,042	259	7,083	ne	43	ne	312	162	ne	NA	NA	4,279	475	429
1981	13,731	292	7,678	ne	35	ne	346	113	ne	NA	NA	4,477	471	319
1982	13,698	302	7,713	ne	47	ne	340	194	ne	NA	NA	4,298	520	284
1983	14,562	318	8,337	ne	80	ne	420	170	ne	NA	NA	4,458	437	342
1984	14,979	384	8,683	ne	59	ne	493	203	ne	NA	NA	4,408	423	326
1985	15,576	374	9,128	ne	70	ne	379	226	ne	NA	NA	4,539	510	350
1986	16,512	421	9,692	ne	75	ne	420	201	ne	NA	NA	4,860	521	322
1987	17,369	453	10,353	ne	103	ne	424	229	ne	NA	NA	4,968	460	379
1988	18,024	476	10,653	ne	96	ne	496	284	ne	NA	NA	5,201	498	320
1989	18,978	522	11,425	ne	84	ne	453	225	ne	NA	NA	5,366	536	367
1990	19,853	536	11,909	ne	71	ne	594	249	ne	NA	NA	5,592	464	438
1991	20,595	580	12,455	ne	120	ne	625	206	ne	NA	NA	5,722	508	379
1992	21,514	640	13,158	ne	145	ne	692	201	ne	NA	NA	5,792	525	361
1993	22,219	720	13,778	ne	164	ne	765	224	ne	NA	NA	5,669	521	378
1994	23,181	729	14,379	ne	185	ne	824	239	ne	NA	NA	5,884	551	390
1995	23,512	724	14,659	ne	213	ne	845	262	ne	NA	NA	5,851	582	376
1996	23,892	699	14,890	ne	250	ne	861	326	ne	NA	NA	5,828	594	444
1997	24,293	724	15,082	ne	322	ne	942	308	ne	NA	NA	5,968	586	361
1998	25,023	695	15,761	ne	374	ne	902	279	ne	NA	NA	6,004	617	391
1999	25,784	750	16,097	ne	334	ne	925	351	ne	NA	NA	6,157	716	454
2000	26,911	822	16,734	ne	344	ne	1,155	385	ne	NA	NA	6,270	730	471
2001	27,044	833	17,032	ne	336	ne	1,049	353	ne	NA	NA	6,223	809	409
2002	28,371	963	17,640	ne	356	ne	1,129	395	ne	NA	NA	6,619	815	454
2003	29,856	1,054	18,625	ne	355	ne	1,182	449	ne	NA	NA	6,829	960	402
2004	30,116	959	18,716	ne	384	ne	1,263	468	ne	NA	NA	7,059	902	365
2005	30,290	1,007	18,747	ne	406	ne	1,364	500	ne	NA	NA	7,011	884	371
2006	30,245	927	18,807	ne	467	ne	1,495	579	ne	NA	NA	6,703	873	394
2007old[d]	30,986	948	19,218	ne	516	ne	1,322	621	ne	NA	NA	6,760	1,106	495
2007new[d]	31,281	985	19,109	30	456	8	1,250	624	244	NA	285	6,719	1,088	483
2008	32,741	1,147	19,827	32	493	19	1,339	723	348	NA	343	6,885	1,077	508
2009	34,388	1,083	20,159	38	594	22	1,424	737	459	NA	645	7,447	1,219	561

TABLE 1-9b

Postdoctoral appointees in science broad fields: 1979–2020

(Number)

Year	Total	Agricultural and veterinary sciences[a,b]	Biological and biomedical sciences[a]	Communication[a,c,d]	Computer and information sciences	Family and consumer sciences and human sciences[a,c,d]	Geosciences, atmospheric sciences, and ocean sciences	Mathematics and statistics	Multidisciplinary and interdisciplinary studies[a,d]	Natural resources and conservation[a]	Neurobiology and neuroscience[a,d]	Physical sciences[a]	Psychology[b,e]	Social sciences[a,b]
2010[f,g]	37,351	1,190	21,726	62	763	30	1,740	791	785	NA	838	7,583	1,132	711
2011[g]	37,335	1,256	21,107	67	759	52	1,774	830	704	NA	1,398	7,490	1,124	774
2012	36,738	1,290	20,086	58	760	58	1,956	902	742	NA	1,525	7,430	1,132	799
2013	36,289	1,319	19,330	76	765	90	2,032	932	891	NA	1,696	7,197	1,023	938
2014old[h]	36,184	1,395	18,749	75	833	93	2,059	956	1,045	NA	1,778	7,089	1,062	1,050
2014new[h]	37,316	1,402	19,554	75	834	114	2,061	959	1,045	NA	1,878	7,277	1,066	1,051
2015	37,639	1,525	19,304	83	888	103	2,129	1,011	972	NA	1,957	7,358	1,130	1,179
2016	37,941	1,484	19,427	86	914	116	2,104	1,005	1,095	NA	2,071	7,269	1,177	1,193
2017old[a]	37,816	1,620	19,506	89	856	163	2,136	966	1,126	NA	2,109	6,946	1,072	1,227
2017new[a]	38,241	1,024	21,781	ne	854	ne	2,089	991	1,131	731	NA	7,211	1,082	1,347
2018	37,564	1,072	21,533	ne	879	ne	1,726	982	980	764	NA	6,976	1,145	1,507
2019	38,503	1,079	21,847	ne	878	ne	1,778	1,070	972	806	NA	7,159	1,152	1,762
2020	38,741	1,678	21,902	ne	823	ne	1,790	1,076	832	845	NA	6,937	1,312	1,546

NA = not available; these fields were collected as part of other fields in other years (see footnotes a and d). ne = not eligible; the fields collected have changed over time.

[a] As part of 2017 Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) redesign, the GSS taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy of Disciplines (TOD), thus increasing comparability with other NCSES surveys. As a result, some eligible fields were reclassified and a small number of fields became fully or partially ineligible. Comparisons to prior years should use the 2017old estimates and should be limited to broad areas of study—detailed field comparisons are not recommended. Redesign includes the following: natural resources splitting from agricultural sciences; neurosciences being reported under biological and biomedical sciences; human development being reported under social sciences; physical sciences adding materials sciences; and social sciences no longer including public administration (no longer collected); and multidisciplinary no longer including nanoscience (which was moved to engineering).

[b] In 2020 for better alignment to the NCSES TOD and Classification of Instructional Programs 2020, human development was moved from social sciences to psychology, and veterinary biomedical and clinical sciences was moved to agricultural sciences. The broad field of agricultural sciences was renamed to agricultural and veterinary sciences to reflect this change.

[c] The field communication and the field family and consumer sciences and human sciences were added as part of the 2007 field eligibility changes. These fields were dropped in 2017 to align the GSS with other NCSES surveys.

[d] In 2007, eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. The science field communication and the science field family and consumer sciences and human sciences were newly eligible in 2007; data for these two fields begin in 2007new. The science field multidisciplinary and interdisciplinary studies was also added to the GSS code list in 2007; some data reported in this field were reported under other fields before 2007 and are included in those fields in 2007old. neuroscience is reported as a separate field of science in 2007new; data were reported under health field neurology in 2007old and previous years. See appendix A in https://www.nsf.gov/statistics/nsf10307/ for more detail.

[e] Beginning in 2008, more rigorous follow-up was done with institutions regarding the exclusion of practitioner-oriented graduate degree programs in psychology. This change may affect interpretation of trends in this field. This follow-up was discontinued in 2017.

[f] In 2010, the postdoctoral (postdoc) and nonfaculty researcher (NFR) section of the survey was expanded and significant effort was made to ensure that appropriate personnel were providing postdoc and NFR data. Thus, it is unclear how much of the increases in 2010 and later years over 2009 and prior years are from growth in postdocs and NFRs and how much are from improved data collection. More information on the changes to the data collection is available at https://www.nsf.gov/statistics/infbrief/nsf13334/.

[g] Postdoc and NFR data from 2010 and 2011 were reimputed following the 2012 data collection; these data supersede those contained in previous reports.

[h] In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed academic institutions in the United States with master's- or doctorate-granting programs in science, engineering, or health. A total of 151 newly eligible institutions were added, and two private for-profit institutions offering mostly practitioner-based graduate degrees were determined to be ineligible. For more information, see https://www.nsf.gov/statistics/2016/nsf16314.

Note(s):
"Field" refers to the field of the unit that reports postdocs to the GSS. For more information on the mapping of GSS 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.

TABLE 1-9c

Doctorate-holding nonfaculty researchers in science broad fields: 1979–2020

(Number)

Year	Total	Agricultural and veterinary sciences[a,b]	Biological and biomedical sciences[a]	Communication[a,c,d]	Computer and information sciences	Family and consumer sciences and human sciences[a,c,d]	Geosciences, atmospheric sciences, and ocean sciences	Mathematics and statistics	Multidisciplinary and interdisciplinary studies[a,d]	Natural resources and conservation[a]	Neurobiology and neuroscience[a,d]	Physical sciences[a]	Psychology[b,c]	Social sciences[a,b]
1979	1,915	58	932	ne	44	ne	104	69	ne	NA	NA	464	63	181
1980	2,184	74	1,100	ne	51	ne	154	84	ne	NA	NA	475	103	143
1981	2,445	68	1,055	ne	57	ne	143	112	ne	NA	NA	632	156	222
1982	2,809	79	1,267	ne	47	ne	239	82	ne	NA	NA	809	150	136
1983	3,348	179	1,566	ne	61	ne	309	125	ne	NA	NA	759	158	191
1984	3,442	142	1,611	ne	58	ne	245	125	ne	NA	NA	856	221	184
1985	3,529	125	1,638	ne	78	ne	186	176	ne	NA	NA	967	210	149
1986	3,356	155	1,582	ne	97	ne	193	54	ne	NA	NA	924	216	135
1987	3,250	118	1,545	ne	123	ne	202	70	ne	NA	NA	848	256	88
1988	3,348	118	1,608	ne	98	ne	200	89	ne	NA	NA	960	174	101
1989	3,470	150	1,709	ne	68	ne	228	65	ne	NA	NA	991	180	79
1990	3,745	192	1,743	ne	61	ne	315	92	ne	NA	NA	1,006	198	138
1991	3,872	210	1,846	ne	50	ne	298	86	ne	NA	NA	1,007	192	183
1992	3,660	200	1,688	ne	42	ne	304	71	ne	NA	NA	1,071	152	132
1993	4,003	174	1,838	ne	67	ne	340	53	ne	NA	NA	1,225	171	135
1994	4,156	256	1,841	ne	49	ne	363	72	ne	NA	NA	1,244	203	128
1995	4,395	234	1,950	ne	66	ne	421	93	ne	NA	NA	1,381	146	104
1996	4,426	210	1,905	ne	107	ne	431	88	ne	NA	NA	1,291	232	162
1997	4,408	203	1,984	ne	87	ne	431	92	ne	NA	NA	1,208	225	178
1998	4,497	159	2,238	ne	125	ne	415	88	ne	NA	NA	1,083	252	137
1999	4,761	168	2,331	ne	133	ne	436	122	ne	NA	NA	1,157	250	164
2000	4,931	219	2,245	ne	153	ne	486	80	ne	NA	NA	1,271	326	151
2001	4,707	229	2,323	ne	150	ne	477	54	ne	NA	NA	1,081	254	139
2002	5,019	275	2,551	ne	123	ne	606	36	ne	NA	NA	1,089	210	129
2003	5,493	254	2,859	ne	127	ne	603	47	ne	NA	NA	1,245	240	118
2004	5,880	301	2,976	ne	170	ne	587	69	ne	NA	NA	1,374	249	154
2005	6,069	287	2,992	ne	152	ne	584	64	ne	NA	NA	1,576	257	157
2006	6,658	305	3,353	ne	184	ne	639	89	ne	NA	NA	1,615	261	212
2007old[d]	6,517	256	3,257	ne	195	ne	613	108	ne	NA	NA	1,643	277	168
2007new[d]	6,526	264	3,205	4	179	8	610	108	28	NA	14	1,670	268	168
2008	8,669	458	4,514	6	228	8	751	91	219	NA	23	1,826	297	248
2009	8,698	431	4,213	9	331	31	774	160	231	NA	77	1,773	291	377

TABLE 1-9c

Doctorate-holding nonfaculty researchers in science broad fields: 1979–2020

(Number)

Year	Total	Agricultural and veterinary sciences[a,b]	Biological and biomedical sciences[a]	Communication[a,c,d]	Computer and information sciences	Family and consumer sciences and human sciences[a,c,d]	Geosciences, atmospheric sciences, and ocean sciences	Mathematics and statistics	Multidisciplinary and interdisciplinary studies[a,d]	Natural resources and conservation[a]	Neurobiology and neuroscience[a,d]	Physical sciences[a]	Psychology[b,e]	Social sciences[a,b]
2010[f,g]	12,751	572	6,271	24	318	38	1,362	173	467	NA	191	2,251	467	617
2011[g]	13,363	581	6,224	17	326	101	1,625	174	509	NA	378	2,322	434	672
2012	13,264	567	6,249	14	349	43	1,513	209	497	NA	356	2,296	431	740
2013	13,932	550	6,527	34	459	43	1,518	224	538	NA	417	2,312	457	853
2014old[h]	14,283	609	6,492	34	450	57	1,499	221	658	NA	650	2,433	411	769
2014new[h]	14,674	616	6,841	34	450	59	1,500	221	661	NA	666	2,445	411	770
2015	15,667	747	6,948	31	459	74	1,754	235	630	NA	718	2,701	472	898
2016	15,940	767	7,058	29	470	120	1,635	213	727	NA	760	2,735	456	970
2017old[a]	na	na	na	na	na	na	na	na	na	NA	na	na	na	na
2017new[a]	17,268	496	8,203	ne	476	ne	1,794	240	806	364	NA	2,871	494	1,524
2018	18,278	565	8,250	ne	515	ne	2,106	266	832	580	NA	3,056	507	1,601
2019	18,819	645	8,229	ne	510	ne	2,177	305	820	582	NA	3,316	576	1,659
2020	18,212	964	8,112	ne	458	ne	2,150	201	679	573	NA	2,890	749	1,436

na = not applicable. NA = not available; these fields were collected as part of other fields in other years (see footnotes a and d). ne = not eligible; the fields collected have changed over time.

[a] As part of 2017 Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) redesign, the GSS taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy of Disciplines (TOD), thus increasing comparability with other NCSES surveys. As a result, some eligible fields were reclassified and a small number of fields became fully or partially ineligible. Comparisons to prior years should use the 2017old estimates and should be limited to broad areas of study—detailed field comparisons are not recommended. Redesign includes the following: natural resources splitting from agricultural sciences; neurosciences being reported under biological and biomedical sciences; human development being reported under psychology; physical sciences adding materials sciences; social sciences no longer including public administration (no longer collected); and multidisciplinary no longer including nanoscience.

[b] In 2020, for better alignment to the NCSES TOD and CIP 2020, human development was moved from social sciences to psychology, and veterinary biomedical and clinical sciences was moved to agricultural sciences. The broad field of agricultural sciences was renamed to agricultural and veterinary sciences to reflect this change.

[c] The field communication and the field family and consumer sciences and human sciences were added as part of the 2007 field eligibility changes. These fields were dropped in 2017 to align the GSS with other NCSES surveys.

[d] In 2007, eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. The science field communication and the science field and consumer sciences and human sciences were newly eligible in 2007; data for these two fields begin in 2007new. The science field multidisciplinary and interdisciplinary studies was also added to the GSS code list in 2007; some data reported in this field were reported under other fields before 2007 and are included in those fields in 2007old. neuroscience is reported as a separate field of science in 2007new; data were reported under health field neurology in 2007old and previous years. See appendix A in https://www.nsf.gov/statistics/nsf10307/ for more detail.

[e] Beginning in 2008, more rigorous follow-up was done with institutions regarding the exclusion of practitioner-oriented graduate degree programs in psychology. This change may affect interpretation of trends in this field. This follow-up was discontinued in 2017.

[f] In 2010, the postdoctoral (postdoc) and nonfaculty researcher (NFR) section of the survey was expanded and significant effort was made to ensure that appropriate personnel were providing postdoc and NFR data. Thus, it is unclear how much of the increases in 2010 and later years over 2009 and prior years are from growth in postdocs and NFRs and how much are from improved data collection. More information on the changes to the data collection is available at https://www.nsf.gov/statistics/infbrief/nsf13334/.

[g] Postdoc and NFR data from 2010 and 2011 were reimputed following the 2012 data collection; these data supersede those contained in previous reports.

[h] In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed academic institutions in the United States with master's- or doctorate-granting programs in science, engineering, or health. A total of 151 newly eligible institutions were added, and two private for-profit institutions offering mostly practitioner-based graduate degrees were determined to be ineligible. For more information, see https://www.nsf.gov/statistics/2016/nsf16314.

Note(s):
"Field" refers to the field of the unit that reports doctorate-holding nonfaculty researchers to the GSS. Sum of the broad fields may not add to total because of rounding. For more information on the mapping of GSS 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.

TABLE 1-10a

Graduate students in engineering broad fields: 1975–2020

(Number)

Year	Total	Aerospace, aeronautical, and astronautical engineering	Biological, biomedical, and biosystems engineering	Chemical, petroleum, and chemical-related engineering	Civil, environmental, transportation and related engineering fields[a]	Electrical, electronics, communications and computer engineering	Industrial, manufacturing, systems engineering and operations research	Mechanical engineering	Metallurgical, mining, materials and related engineering fields[b]	Other engineering[c]
1975	68,332	1,670	883	5,397	12,560	16,320	11,663	8,601	2,788	8,450
1976	66,723	1,477	895	5,647	11,995	15,926	10,687	8,313	2,913	8,870
1977	68,757	1,518	855	5,652	12,335	17,406	10,438	8,722	3,037	8,794
1978[d]	67,787	1,463	920	5,859	12,358	17,127	9,494	8,638	3,008	8,920
1979	71,808	1,481	1,004	6,109	12,822	17,715	10,729	9,251	3,167	9,530
1980	74,335	1,737	964	6,541	13,097	19,132	9,698	9,888	3,347	9,931
1981	79,585	1,883	1,017	7,047	14,089	20,113	9,737	10,618	3,614	11,467
1982	83,720	1,941	1,085	7,808	14,122	21,927	9,577	11,467	3,603	12,190
1983	91,146	2,305	1,220	8,327	14,910	25,295	9,247	12,911	4,001	12,930
1984	92,739	2,340	1,315	8,144	15,192	26,388	9,282	13,855	4,175	12,048
1985	96,018	2,538	1,335	7,959	14,902	28,203	10,525	14,157	4,448	11,951
1986	101,905	2,804	1,487	7,790	14,976	29,969	11,569	15,713	4,748	12,849
1987	103,983	3,015	1,628	7,959	14,682	31,399	12,353	16,366	4,910	11,671
1988	102,854	3,223	1,708	7,385	14,811	32,035	11,575	16,151	4,870	11,096
1989	104,065	3,524	1,867	7,147	14,909	33,257	11,333	16,265	5,053	10,710
1990	107,658	3,934	2,097	7,438	15,542	33,722	11,555	16,879	5,420	11,071
1991	113,535	4,120	2,199	7,862	17,398	35,111	12,996	17,730	5,692	10,427
1992	118,039	4,036	2,492	8,170	19,572	36,428	13,826	18,637	5,987	8,891
1993	116,872	3,940	2,640	8,279	19,583	35,290	13,905	18,477	5,837	8,921
1994	113,024	3,715	2,716	8,263	19,925	33,067	13,992	17,761	5,652	7,933
1995	107,201	3,343	2,693	8,062	19,218	30,861	13,475	16,363	5,329	7,857
1996	103,224	3,208	2,689	7,970	18,528	29,941	12,675	15,509	5,118	7,586
1997	101,148	3,083	2,797	7,849	17,193	30,787	11,957	15,045	5,036	7,401
1998	100,038	3,137	2,855	7,664	16,517	31,384	11,221	14,696	4,984	7,580
1999	101,691	3,349	3,069	7,525	16,226	31,822	11,803	14,956	4,809	8,132
2000	104,112	3,407	3,197	7,683	16,451	33,611	12,119	15,235	4,664	7,745
2001	109,493	3,451	3,599	7,569	16,665	36,100	12,940	15,852	4,961	8,356
2002	119,668	3,685	4,338	8,180	17,713	39,948	14,033	17,139	5,259	9,373
2003	127,377	4,048	5,301	8,365	18,890	41,763	14,313	18,393	5,409	10,895
2004	123,566	4,089	5,807	8,297	18,561	38,995	13,852	17,852	5,367	10,746
2005	120,565	4,170	6,067	7,981	18,114	37,450	13,650	17,373	5,439	10,321
2006	123,041	4,482	6,482	8,074	17,802	38,265	13,829	17,919	5,512	10,676
2007old[a]	130,255	4,616	6,881	8,397	19,867	40,207	14,290	18,366	5,672	11,959

TABLE 1-10a

Graduate students in engineering broad fields: 1975–2020

(Number)

Year	Total	Aerospace, aeronautical, and astronautical engineering	Biological, biomedical, and biosystems engineering	Chemical, petroleum, and chemical-related engineering	Civil, environmental, transportation and related engineering fields[a]	Electrical, electronics, communications and computer engineering	Industrial, manufacturing, systems engineering and operations research	Mechanical engineering	Metallurgical, mining, materials and related engineering fields[b]	Other engineering[c]
2007new[a]	131,676	4,616	6,904	8,598	16,071	40,588	14,474	18,347	5,536	16,542
2008	137,856	4,902	7,339	8,901	16,931	41,164	15,692	19,585	5,829	17,513
2009	144,677	5,266	7,904	9,378	18,638	41,218	15,825	21,243	6,175	19,030
2010	149,241	5,540	8,497	9,963	19,559	41,336	15,205	22,509	6,693	19,939
2011	146,501	5,691	9,175	10,129	19,596	41,580	14,494	21,883	7,149	16,804
2012	148,385	5,069	9,157	10,747	19,922	42,347	14,469	23,088	7,341	16,245
2013	153,049	5,181	9,198	11,307	20,110	45,562	14,363	24,087	7,501	15,740
2014old[e]	162,013	5,116	9,510	11,909	20,660	50,051	14,659	25,508	7,869	16,731
2014new[e]	164,488	5,116	9,510	11,926	20,789	51,909	14,845	25,651	7,914	16,828
2015	169,354	5,345	9,761	12,029	20,978	52,940	16,284	27,314	8,148	16,555
2016	168,443	5,416	10,208	12,049	20,569	50,062	16,200	27,898	8,484	17,557
2017old[b]	166,819	na	na	na	na	na	na	na	na	na
2017new[b]	165,581	5,708	11,116	11,744	21,132	47,752	15,905	27,428	7,082	17,714
2018	163,301	5,848	11,763	11,414	20,461	46,227	15,987	26,593	7,216	17,792
2019	164,004	6,255	12,358	10,938	19,625	46,754	15,674	26,108	7,083	19,209
2020	157,729	6,971	12,775	10,554	18,304	43,032	14,869	25,782	7,181	18,261
Master's students										
2017new[b]	96,756	3,322	4,108	4,208	13,506	29,816	12,272	16,279	2,427	10,818
2018	93,064	3,342	4,282	3,815	12,729	28,108	12,389	15,434	2,395	10,570
2019	91,939	3,701	4,424	3,274	11,873	28,177	11,912	14,861	2,266	11,451
2020	86,450	4,326	4,536	2,942	10,819	25,312	11,030	14,305	2,299	10,881
Doctoral students										
2017new[b]	68,825	2,386	7,008	7,536	7,626	17,936	3,633	11,149	4,655	6,896
2018	70,237	2,506	7,481	7,599	7,732	18,119	3,598	11,159	4,821	7,222
2019	72,065	2,554	7,934	7,664	7,752	18,577	3,762	11,247	4,817	7,758
2020	71,279	2,645	8,239	7,612	7,485	17,720	3,839	11,477	4,882	7,380

na = not applicable; data were not collected at this level of detail in the year shown.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Architecture is reported as a separate field of engineering in 2007new; data were reported under civil engineering in 2007old and previous years. See appendix A in https://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] As part of 2017 Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) redesign, the GSS taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy of Disciplines (TOD), thus increasing comparability with other NCSES surveys. As a result, some eligible fields were reclassified and a small number of fields became fully or partially ineligible. Comparisons to prior years should use the 2017old estimates and should be limited to broad areas of study—detailed field comparisons are not recommended. Materials sciences was reported as part of metallurgical and materials engineering from 2011–16, starting in 2017 materials sciences is reported as part of physical sciences, nanotechnology was reported as part of the science detailed field multidisciplinary and interdisciplinary studies from 2007–16, and starting in 2017 architecture was removed.

[c] Other engineering includes agricultural engineering; engineering mechanics, science, and physics; nuclear engineering; engineering, other; and, from 2007new to 2017old, architecture. Architecture was reported under civil engineering in 2007old and previous years.

[d] Master's-granting institutions were not surveyed in 1978; totals represent estimates based on 1977 and 1979 data.

[e] In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed academic institutions in the United States with master's- or doctorate-granting programs in science, engineering, or health. A total of 151 newly eligible institutions were added, and two private for-profit institutions offering mostly practitioner-based graduate degrees were determined to be ineligible. For more information, see https://www.nsf.gov/statistics/2016/nsf16314.

Note(s):
Prior to 2020 there were no broad fields in engineering, and this table included all engineering detailed fields. All fields have been moved to match the current broad field organization. The pre-2020 data have been master's and doctoral students were not reported separately until 2017. For more information on the mapping of GSS 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.

TABLE 1-10b

Postdoctoral appointees in engineering broad fields: 1979–2020

(Number)

Year	Total	Aerospace, aeronautical, and astronautical engineering	Biological, biomedical, and biosystems engineering	Chemical, petroleum, and chemical-related engineering	Civil, environmental, transportation and related engineering fields[a]	Electrical, electronics, communications and computer engineering	Industrial, manufacturing, systems engineering and operations research	Mechanical engineering	Metallurgical, mining, materials and related engineering fields[b]	Other engineering[c]
1979	1,067	32	28	198	128	142	8	143	214	174
1980	981	20	25	191	122	123	16	137	175	172
1981	1,040	14	32	175	103	191	13	130	210	172
1982	980	25	28	181	103	178	9	130	178	148
1983	1,108	32	27	200	131	180	13	182	223	120
1984	1,203	42	31	250	146	178	21	196	186	153
1985	1,356	51	46	280	122	183	18	207	264	185
1986	1,405	48	53	299	140	175	25	240	275	150
1987	1,446	43	44	322	174	177	26	216	309	135
1988	1,690	48	47	433	203	187	32	218	388	134
1989	1,928	38	69	486	182	193	32	304	413	211
1990	1,950	67	71	572	168	242	6	222	382	220
1991	2,262	77	59	595	186	346	27	326	403	243
1992	2,369	92	79	556	188	318	38	352	473	273
1993	2,446	116	80	542	181	388	63	358	422	296
1994	2,606	100	135	541	210	411	54	388	465	302
1995	2,648	101	129	585	201	381	30	410	509	302
1996	2,677	109	140	551	230	395	30	425	506	291
1997	2,971	125	154	657	248	508	28	440	476	335
1998	2,853	133	180	627	225	488	30	434	414	322
1999	3,196	128	242	690	299	548	27	476	427	359
2000	3,313	111	220	723	295	525	48	480	515	396
2001	3,152	128	262	591	268	436	21	501	493	452
2002	3,566	140	284	773	342	613	43	441	517	413
2003	3,810	141	388	703	300	646	45	543	551	493
2004	3,949	141	425	703	313	654	50	514	576	573
2005	4,166	153	477	715	384	689	51	562	586	549
2006	4,642	165	591	753	458	721	51	644	582	677
2007old[a]	4,908	178	640	780	419	885	73	725	559	649
2007new[a]	4,942	178	640	812	417	884	71	722	569	649
2008	5,462	154	710	908	465	987	115	784	610	729
2009	6,416	168	960	1,120	535	1,025	109	948	762	789
2010[d,e]	6,969	212	1,023	1,121	571	1,095	151	1,021	845	930
2011[e]	6,786	202	1,069	1,172	551	1,035	121	889	864	883
2012	7,103	170	1,161	1,151	590	1,152	127	985	859	908
2013	7,106	202	1,103	1,279	587	1,180	133	1,034	816	772
2014old[f]	7,292	220	1,196	1,310	629	1,177	131	1,055	791	783
2014new[f]	7,307	220	1,198	1,310	629	1,179	131	1,058	795	787
2015	7,656	217	1,201	1,356	670	1,160	142	1,161	926	823
2016	7,796	201	1,278	1,290	706	1,186	130	1,080	892	1,033
2017old[b]	7,929	na	na	na	na	na	na	na	na	na
2017new[b]	7,839	196	1,476	1,262	804	1,170	127	1,089	565	1,150
2018	7,914	207	1,529	1,205	739	1,197	156	1,069	575	1,237
2019	8,266	227	1,602	1,229	865	1,305	167	1,142	665	1,064
2020	8,462	233	1,696	1,157	1,006	1,302	194	1,149	630	1,095

na = not applicable; data were not collected at this level of detail in the year shown.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Architecture is reported as a separate field of engineering in 2007new; data were reported under civil engineering in 2007old and previous years. See appendix A in https://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] As part of 2017 Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) redesign, the GSS taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy of Disciplines (TOD), thus increasing comparability with other NCSES surveys. As a result, some eligible fields were reclassified and a small number of fields became fully or partially ineligible. Comparisons to prior years should use the 2017old estimates and should be limited to broad areas of study—detailed field comparisons are not recommended. Materials sciences was reported as part of metallurgical and materials engineering from 2011–16; starting in 2017 materials sciences is reported as part of physical sciences; nanotechnology was reported as part of the science detailed field multidisciplinary and interdisciplinary studies from 2007–16, and starting in 2017 architecture was removed.

[c] Other engineering includes agricultural engineering; engineering mechanics, science, and physics; nuclear engineering; engineering, other; and, from 2007new to 2017old, architecture. Architecture was reported under civil engineering in 2007old and previous years.

[d] In 2010, the postdoctoral appointee (postdoc) and nonfaculty researcher (NFR) section of the survey was expanded and significant effort was made to ensure that appropriate personnel were providing postdoc and NFR data. Thus, it is unclear how much of the increases in 2010 and later years over 2009 and prior years are from growth in postdocs and NFRs and how much are from improved data collection. More information on the changes to the data collection is available at https://www.nsf.gov/statistics/infbrief/nsf13334/.

[e] Postdoc and NFR data from 2010 and 2011 were reimputed following the 2012 data collection; these data supersede those contained in previous reports.

[f] In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed academic institutions in the United States with master's- or doctorate-granting programs in science, engineering, or health. A total of 151 newly eligible institutions were added, and two private for-profit institutions offering mostly practitioner-based graduate degrees were determined to be ineligible. For more information, see https://www.nsf.gov/statistics/2016/nsf16314/.

Note(s):
Prior to 2020 there were no broad fields in engineering, and this table included all engineering detailed fields. All fields have been moved to match the current broad field organization. "Field" refers to the field of the unit that reports postdocs to the GSS. Sum of the broad fields may not add to total because of rounding. For more information on the mapping of GSS 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.

TABLE 1-10c

Doctorate-holding nonfaculty researchers in engineering broad fields: 1979–2020

(Number)

Year	Total	Aerospace, aeronautical, and astronautical engineering	Biological, biomedical, and biosystems engineering	Chemical, petroleum, and chemical-related engineering	Civil, environmental, transportation and related engineering fields[a]	Electrical, electronics, communications and computer engineering	Industrial, manufacturing, systems engineering and operations research	Mechanical engineering	Metallurgical, mining, materials and related engineering fields[b]	Other engineering[c]
1979	273	18	6	38	25	65	3	45	30	43
1980	423	31	4	51	38	77	14	68	80	60
1981	503	8	3	75	30	81	4	113	96	93
1982	670	26	9	96	114	74	27	149	98	77
1983	631	24	8	54	86	127	10	128	97	97
1984	589	22	12	66	51	149	9	86	100	94
1985	615	21	14	83	31	149	3	112	131	71
1986	521	34	5	76	33	88	2	84	129	70
1987	443	28	6	51	38	62	13	85	97	63
1988	566	21	6	78	39	115	7	107	124	69
1989	581	14	18	76	37	114	11	89	120	102
1990	609	24	12	82	51	104	21	127	104	84
1991	659	26	16	74	54	121	20	113	150	85
1992	737	39	26	160	52	123	17	97	133	90
1993	805	69	25	144	67	135	8	116	147	94
1994	825	66	36	104	54	159	6	135	141	124
1995	789	80	26	81	66	175	3	108	123	127
1996	731	86	21	92	70	144	2	108	102	106
1997	848	84	31	163	66	168	8	109	86	133
1998	810	68	34	155	61	152	5	109	121	105
1999	940	87	58	151	81	169	5	127	117	145
2000	896	39	42	120	131	145	7	176	109	127
2001	801	15	36	97	98	118	12	133	107	185
2002	903	17	43	101	118	131	22	121	109	241
2003	952	30	49	100	98	172	11	125	149	218
2004	1,043	60	67	101	111	175	26	175	179	149
2005	946	54	58	89	113	178	24	165	128	137
2006	1,118	66	65	168	134	158	41	170	144	172
2007old[a]	1,298	29	91	155	141	304	32	199	152	195
2007new[a]	1,310	29	91	163	143	310	27	199	153	195
2008	1,419	41	89	188	161	283	67	193	134	263
2009	1,737	40	153	241	181	296	76	246	181	323
2010[d,e]	2,406	58	250	288	256	395	108	355	231	465
2011[e]	2,312	35	247	240	278	406	87	318	237	464
2012	2,497	49	295	251	298	405	70	389	255	485
2013	2,494	40	238	304	296	431	77	403	283	422
2014old[c]	2,744	43	322	339	313	459	90	437	287	454
2014new[c]	2,745	43	322	339	313	459	90	438	287	454
2015	2,929	67	289	320	364	492	150	425	315	507
2016	3,155	77	311	354	420	560	162	393	376	502
2017old[b]	na	na	na	na	na	na	na	na	na	na
2017new[b]	3,274	102	451	340	422	557	119	458	233	592
2018	3,570	115	491	337	414	588	105	489	267	764
2019	3,909	124	545	410	492	637	137	531	303	730
2020	3,921	149	525	330	488	706	155	469	299	800

na = not applicable; data were not collected at this level of detail in the year shown.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Architecture is reported as a separate field of engineering in 2007new; data were reported under civil engineering in 2007old and previous years. See appendix A in https://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] As part of 2017 Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) redesign, the GSS taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy of Disciplines (TOD), thus increasing comparability with other NCSES surveys. As a result, some eligible fields were reclassified and a small number of fields became fully or partially ineligible. Comparisons to prior years should use the 2017old estimates and should be limited to broad areas of study—detailed field comparisons are not recommended. Materials sciences was reported as part of metallurgical and materials engineering from 2011–16, starting in 2017 materials sciences is reported as part of physical sciences, nanotechnology was reported as part of the science detailed field multidisciplinary and interdisciplinary studies from 2007–16, and starting in 2017 architecture was removed.

[c] Other engineering includes agricultural engineering; engineering mechanics, science, and physics; nuclear engineering; engineering, other; and, from 2007new to 2017old, architecture. Architecture was reported under civil engineering in 2007old and previous years.

[d] Master's-granting institutions were not surveyed in 1978; totals represent estimates based on 1977 and 1979 data.

[e] In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed academic institutions in the United States with master's- or doctorate-granting programs in science, engineering, or health. A total of 151 newly eligible institutions were added, and two private for-profit institutions offering mostly practitioner-based graduate degrees were determined to be ineligible. For more information, see https://www.nsf.gov/statistics/2016/nsf16314.

Note(s):
"Field" refers to the field of the unit that reports doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Prior to 2020 there were no broad fields in engineering, and this table included all engineering detailed fields. All fields have been moved to match the current broad field organization. For more information on the mapping of GSS 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.

TABLE 2-1

Demographic characteristics of graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in science, engineering, and health: 2020

(Number and percent)

	Graduate students									
	All graduate students		Master's		Doctoral		Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
Sex, citizenship, ethnicity, and race	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
All individuals	697,813	100.0	414,478	100.0	283,335	100.0	65,681	100.0	29,661	100.0
Male	359,913	51.6	202,148	48.8	157,765	55.7	38,239	58.2	17,255	58.2
Female	337,900	48.4	212,330	51.2	125,570	44.3	27,442	41.8	12,406	41.8
U.S. citizens and permanent residents[a]	487,051	69.8	314,305	75.8	172,746	61.0	29,890	45.5	na	na
Hispanic or Latino	62,679	9.0	43,750	10.6	18,929	6.7	2,027	3.1	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	2,042	0.3	1,284	0.3	758	0.3	72	0.1	na	na
Asian	53,094	7.6	35,075	8.5	18,019	6.4	5,696	8.7	na	na
Black or African American	41,916	6.0	30,842	7.4	11,074	3.9	1,081	1.6	na	na
Native Hawaiian or Other Pacific Islander	778	0.1	578	0.1	200	0.1	52	0.1	na	na
White	284,055	40.7	175,090	42.2	108,965	38.5	17,123	26.1	na	na
More than one race	17,579	2.5	11,069	2.7	6,510	2.3	555	0.8	na	na
Unknown ethnicity and race	24,908	3.6	16,617	4.0	8,291	2.9	3,284	5.0	na	na
Temporary visa holders	210,762	30.2	100,173	24.2	110,589	39.0	35,791	54.5	na	na
Male										
U.S. citizens and permanent residents[a]	229,052	32.8	141,840	34.2	87,212	30.8	15,579	23.7	na	na
Hispanic or Latino	27,185	3.9	18,073	4.4	9,112	3.2	968	1.5	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	815	0.1	512	0.1	303	0.1	25	*	na	na
Asian	27,332	3.9	18,080	4.4	9,252	3.3	3,124	4.8	na	na
Black or African American	15,774	2.3	11,397	2.7	4,377	1.5	417	0.6	na	na
Native Hawaiian or Other Pacific Islander	329	*	249	0.1	80	*	22	*	na	na
White	137,625	19.7	81,117	19.6	56,508	19.9	8,987	13.7	na	na
More than one race	7,930	1.1	4,830	1.2	3,100	1.1	258	0.4	na	na
Unknown ethnicity and race	12,062	1.7	7,582	1.8	4,480	1.6	1,778	2.7	na	na
Temporary visa holders	130,861	18.8	60,308	14.6	70,553	24.9	22,660	34.5	na	na
Female										
U.S. citizens and permanent residents[a]	257,999	37.0	172,465	41.6	85,534	30.2	14,311	21.8	na	na
Hispanic or Latino	35,494	5.1	25,677	6.2	9,817	3.5	1,059	1.6	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	1,227	0.2	772	0.2	455	0.2	47	0.1	na	na
Asian	25,762	3.7	16,995	4.1	8,767	3.1	2,572	3.9	na	na
Black or African American	26,142	3.7	19,445	4.7	6,697	2.4	664	1.0	na	na
Native Hawaiian or Other Pacific Islander	449	0.1	329	0.1	120	*	30	*	na	na
White	146,430	21.0	93,973	22.7	52,457	18.5	8,136	12.4	na	na
More than one race	9,649	1.4	6,239	1.5	3,410	1.2	297	0.5	na	na
Unknown ethnicity and race	12,846	1.8	9,035	2.2	3,811	1.3	1,506	2.3	na	na
Temporary visa holders	79,901	11.5	39,865	9.6	40,036	14.1	13,131	20.0	na	na

* = value < 0.05%. na = not applicable; citizenship and race and ethnicity data are not collected for doctorate-holding nonfaculty researchers.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

Note(s):
Percentages may not add to total because of rounding.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2020.

TABLE 2-2a

Citizenship, ethnicity, and race of graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in science, by sex: 2020

(Number and percent)

Citizenship, ethnicity, race, and field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Total number	Percent female	Total number	Percent female	Total number	Percent female	Total number	Percent female	Total number	Percent female
All surveyed fields	697,813	48.4	414,478	51.2	283,335	44.3	65,681	41.8	29,661	41.8
U.S. citizens and permanent residents[a]	487,051	53.0	314,305	54.9	172,746	49.5	29,890	47.9	na	na
Hispanic or Latino	62,679	56.6	43,750	58.7	18,929	51.9	2,027	52.2	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	2,042	60.1	1,284	60.1	758	60.0	72	65.3	na	na
Asian	53,094	48.5	35,075	48.5	18,019	48.7	5,696	45.2	na	na
Black or African American	41,916	62.4	30,842	63.0	11,074	60.5	1,081	61.4	na	na
Native Hawaiian or Other Pacific Islander	778	57.7	578	56.9	200	60.0	52	57.7	na	na
White	284,055	51.5	175,090	53.7	108,965	48.1	17,123	47.5	na	na
More than one race	17,579	54.9	11,069	56.4	6,510	52.4	555	53.5	na	na
Unknown ethnicity and race	24,908	51.6	16,617	54.4	8,291	46.0	3,284	45.9	na	na
Temporary visa holders	210,762	37.9	100,173	39.8	110,589	36.2	35,791	36.7	na	na
Science	464,646	51.1	267,904	53.1	196,742	48.5	38,741	41.2	18,212	41.6
U.S. citizens and permanent residents[a]	334,959	54.4	204,677	55.9	130,282	52.0	18,276	46.4	na	na
Hispanic or Latino	43,705	58.6	28,849	60.6	14,856	54.6	1,264	52.8	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	1,468	59.5	851	58.3	617	61.3	47	61.7	na	na
Asian	34,812	50.2	22,270	49.1	12,542	52.1	3,181	43.5	na	na
Black or African American	29,051	62.8	21,126	63.0	7,925	62.1	578	58.7	na	na
Native Hawaiian or Other Pacific Islander	553	60.2	403	59.1	150	63.3	26	50.0	na	na
White	195,406	52.9	112,534	54.6	82,872	50.6	10,924	46.0	na	na
More than one race	12,244	56.9	7,293	58.1	4,951	55.1	350	53.7	na	na
Unknown ethnicity and race	17,720	52.3	11,351	54.8	6,369	47.9	1,906	43.5	na	na
Temporary visa holders	129,687	42.8	63,227	44.1	66,460	41.5	20,465	36.6	na	na
Agricultural and veterinary sciences	10,800	59.2	6,487	62.3	4,313	54.6	1,678	48.7	964	48.9
U.S. citizens and permanent residents[a]	7,844	61.2	5,453	63.2	2,391	56.5	851	57.2	na	na
Hispanic or Latino	823	62.3	626	64.5	197	55.3	73	54.8	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	27	44.4	20	45.0	7	42.9	5	60.0	na	na
Asian	335	63.6	207	68.1	128	56.3	150	44.7	na	na
Black or African American	378	62.4	279	64.2	99	57.6	14	28.6	na	na
Native Hawaiian or Other Pacific Islander	15	66.7	14	64.3	1	100.0	0	-	na	na
White	5,743	61.0	3,949	62.9	1,794	56.7	498	60.8	na	na

TABLE 2-2a

Citizenship, ethnicity, and race of graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in science, by sex: 2020

(Number and percent)

Citizenship, ethnicity, race, and field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Total number	Percent female	Total number	Percent female	Total number	Percent female	Total number	Percent female	Total number	Percent female
More than one race	231	63.6	153	66.7	78	57.7	12	33.3	na	na
Unknown ethnicity and race	292	56.5	205	57.6	87	54.0	99	66.7	na	na
Temporary visa holders	2,956	54.2	1,034	57.6	1,922	52.3	827	39.9	na	na
Biological and biomedical sciences	94,825	60.0	39,920	65.1	54,905	56.3	21,902	45.3	8,112	47.3
U.S. citizens and permanent residents[a]	76,717	60.5	35,226	65.0	41,491	56.7	9,934	49.4	na	na
Hispanic or Latino	9,442	59.9	4,464	63.9	4,978	56.3	772	54.4	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	297	59.9	111	58.6	186	60.8	25	68.0	na	na
Asian	9,520	60.0	4,682	64.1	4,838	56.0	1,978	46.1	na	na
Black or African American	6,049	68.7	3,834	71.0	2,215	64.6	308	60.7	na	na
Native Hawaiian or Other Pacific Islander	137	65.7	84	63.1	53	69.8	17	52.9	na	na
White	44,974	59.7	19,042	64.4	25,932	56.3	5,739	49.2	na	na
More than one race	2,851	61.4	1,308	65.1	1,543	58.3	158	57.6	na	na
Unknown ethnicity and race	3,447	58.8	1,701	64.3	1,746	53.5	937	47.4	na	na
Temporary visa holders	18,108	57.8	4,694	65.9	13,414	55.0	11,968	42.0	na	na
Computer and information sciences	98,864	31.1	80,690	32.0	18,174	26.9	823	21.4	458	24.5
U.S. citizens and permanent residents[a]	51,796	28.6	44,929	28.8	6,867	27.1	307	29.0	na	na
Hispanic or Latino	4,989	27.7	4,541	27.9	448	26.1	11	27.3	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	127	37.8	113	37.2	14	42.9	0	-	na	na
Asian	10,699	32.0	9,479	31.9	1,220	32.3	67	34.3	na	na
Black or African American	5,639	38.2	5,171	38.2	468	38.0	6	0.0	na	na
Native Hawaiian or Other Pacific Islander	70	25.7	62	24.2	8	37.5	1	100.0	na	na
White	25,311	24.7	21,380	24.8	3,931	24.2	179	29.1	na	na
More than one race	1,789	30.7	1,519	31.1	270	28.1	4	25.0	na	na
Unknown ethnicity and race	3,172	30.7	2,664	31.5	508	27.0	39	23.1	na	na
Temporary visa holders	47,068	33.9	35,761	36.1	11,307	26.7	516	16.9	na	na
Geosciences, atmospheric sciences, and ocean sciences	11,792	48.9	5,277	50.0	6,515	48.1	1,790	39.9	2,150	31.0
U.S. citizens and permanent residents[a]	9,429	51.1	4,861	50.6	4,568	51.7	919	45.4	na	na
Hispanic or Latino	943	55.5	496	54.2	447	56.8	53	56.6	na	na
Not Hispanic or Latino										

TABLE 2-2a

Citizenship, ethnicity, and race of graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in science, by sex: 2020

(Number and percent)

Citizenship, ethnicity, race, and field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Total number	Percent female	Total number	Percent female	Total number	Percent female	Total number	Percent female	Total number	Percent female
American Indian or Alaska Native	31	58.1	17	52.9	14	64.3	1	100.0	na	na
Asian	387	58.7	141	63.8	246	55.7	95	44.2	na	na
Black or African American	267	51.7	148	52.7	119	50.4	21	42.9	na	na
Native Hawaiian or Other Pacific Islander	8	62.5	7	57.1	1	100.0	1	100.0	na	na
White	7,036	49.8	3,703	49.6	3,333	50.1	619	44.9	na	na
More than one race	366	59.6	170	52.9	196	65.3	32	56.3	na	na
Unknown ethnicity and race	391	47.6	179	46.9	212	48.1	97	39.2	na	na
Temporary visa holders	2,363	40.2	416	43.0	1,947	39.5	871	34.1	na	na
Mathematics and statistics	31,971	36.2	18,284	41.1	13,687	29.6	1,076	21.0	201	31.3
U.S. citizens and permanent residents[a]	17,150	32.8	10,357	36.2	6,793	27.5	513	25.1	na	na
Hispanic or Latino	1,864	31.3	1,239	33.6	625	26.9	24	20.8	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	36	30.6	23	30.4	13	30.8	0	-	na	na
Asian	2,575	38.7	1,742	42.1	833	31.5	79	34.2	na	na
Black or African American	777	38.2	573	41.0	204	30.4	11	54.5	na	na
Native Hawaiian or Other Pacific Islander	12	33.3	9	11.1	3	100.0	1	0.0	na	na
White	10,392	31.5	5,904	34.9	4,488	26.9	329	22.5	na	na
More than one race	546	31.7	295	33.9	251	29.1	12	41.7	na	na
Unknown ethnicity and race	948	29.9	572	34.1	376	23.4	57	21.1	na	na
Temporary visa holders	14,821	40.2	7,927	47.6	6,894	31.6	563	17.2	na	na
Multidisciplinary and interdisciplinary studies	14,533	52.4	10,980	52.4	3,553	52.6	832	45.8	679	39.5
U.S. citizens and permanent residents[a]	10,506	54.0	8,012	53.6	2,494	55.0	467	51.4	na	na
Hispanic or Latino	1,333	55.1	1,084	54.9	249	55.8	28	42.9	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	29	58.6	20	55.0	9	66.7	4	25.0	na	na
Asian	1,281	53.3	1,038	52.8	243	55.6	51	51.0	na	na
Black or African American	955	60.5	746	59.9	209	62.7	24	79.2	na	na
Native Hawaiian or Other Pacific Islander	17	70.6	11	72.7	6	66.7	1	0.0	na	na
White	6,008	52.4	4,432	51.8	1,576	54.1	298	50.3	na	na
More than one race	370	55.7	293	56.7	77	51.9	13	69.2	na	na
Unknown ethnicity and race	513	57.1	388	59.0	125	51.2	48	47.9	na	na
Temporary visa holders	4,027	48.4	2,968	48.9	1,059	47.0	365	38.6	na	na

TABLE 2-2a

Citizenship, ethnicity, and race of graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in science, by sex: 2020

(Number and percent)

Citizenship, ethnicity, race, and field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Total number	Percent female	Total number	Percent female	Total number	Percent female	Total number	Percent female	Total number	Percent female
Natural resources and conservation	12,498	58.7	8,793	60.0	3,705	55.6	845	43.0	573	39.3
U.S. citizens and permanent residents[a]	10,901	59.9	8,106	60.5	2,795	58.3	545	44.6	na	na
Hispanic or Latino	1,156	63.4	858	63.5	298	63.1	12	41.7	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	123	61.0	88	54.5	35	77.1	1	100.0	na	na
Asian	368	65.5	269	66.5	99	62.6	36	27.8	na	na
Black or African American	404	64.6	248	63.3	156	66.7	29	55.2	na	na
Native Hawaiian or Other Pacific Islander	33	75.8	30	76.7	3	66.7	2	50.0	na	na
White	8,017	58.9	6,040	59.6	1,977	56.8	383	45.2	na	na
More than one race	387	65.1	306	66.0	81	61.7	8	50.0	na	na
Unknown ethnicity and race	413	54.2	267	56.2	146	50.7	74	44.6	na	na
Temporary visa holders	1,597	50.4	687	54.6	910	47.3	300	40.0	na	na
Physical sciences	42,616	35.2	6,275	39.5	36,341	34.5	6,937	24.7	2,890	22.7
U.S. citizens and permanent residents[a]	26,747	36.1	4,920	40.7	21,827	35.1	2,705	27.3	na	na
Hispanic or Latino	3,029	36.6	757	39.9	2,272	35.6	137	35.8	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	79	36.7	24	45.8	55	32.7	5	20.0	na	na
Asian	2,496	41.7	455	43.7	2,041	41.3	542	28.8	na	na
Black or African American	1,096	49.9	338	54.7	758	47.8	49	34.7	na	na
Native Hawaiian or Other Pacific Islander	17	41.2	3	33.3	14	42.9	2	0.0	na	na
White	17,935	34.6	2,978	39.0	14,957	33.8	1,586	26.7	na	na
More than one race	946	35.7	177	40.7	769	34.6	54	29.6	na	na
Unknown ethnicity and race	1,149	32.4	188	36.2	961	31.6	330	23.0	na	na
Temporary visa holders	15,869	33.7	1,355	35.5	14,514	33.6	4,232	23.1	na	na
Psychology	68,394	79.0	47,279	81.1	21,115	74.3	1,312	63.9	749	66.5
U.S. citizens and permanent residents[a]	64,586	79.2	45,710	81.1	18,876	74.5	986	66.1	na	na
Hispanic or Latino	11,776	80.1	8,978	82.2	2,798	73.6	82	69.5	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	302	78.5	205	80.0	97	75.3	0	-	na	na
Asian	3,445	78.8	2,180	80.6	1,265	75.7	82	73.2	na	na
Black or African American	7,044	81.9	5,425	82.8	1,619	78.6	37	81.1	na	na
Native Hawaiian or Other Pacific Islander	124	77.4	103	76.7	21	81.0	1	100.0	na	na
White	35,344	78.7	23,932	81.0	11,412	73.9	657	64.4	na	na

TABLE 2-2a

Citizenship, ethnicity, and race of graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in science, by sex: 2020

(Number and percent)

Citizenship, ethnicity, race, and field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Total number	Percent female	Total number	Percent female	Total number	Percent female	Total number	Percent female	Total number	Percent female
More than one race	2,558	78.2	1,688	79.4	870	75.7	24	83.3	na	na
Unknown ethnicity and race	3,993	77.3	3,199	78.0	794	74.3	103	59.2	na	na
Temporary visa holders	3,808	75.8	1,569	80.5	2,239	72.6	326	57.4	na	na
Social sciences	78,353	53.9	43,919	55.5	34,434	51.9	1,546	53.0	1,436	54.3
U.S. citizens and permanent residents[a]	59,283	55.2	37,103	55.5	22,180	54.6	1,049	55.3	na	na
Hispanic or Latino	8,350	59.1	5,806	59.5	2,544	57.9	72	63.9	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	417	59.7	230	56.5	187	63.6	6	83.3	na	na
Asian	3,706	60.0	2,077	60.7	1,629	59.1	101	61.4	na	na
Black or African American	6,442	63.8	4,364	65.2	2,078	60.8	79	64.6	na	na
Native Hawaiian or Other Pacific Islander	120	55.0	80	56.3	40	52.5	0	-	na	na
White	34,646	52.3	21,174	52.3	13,472	52.4	636	51.7	na	na
More than one race	2,200	60.6	1,384	60.9	816	60.0	33	60.6	na	na
Unknown ethnicity and race	3,402	48.9	1,988	47.9	1,414	50.4	122	54.9	na	na
Temporary visa holders	19,070	50.1	6,816	55.4	12,254	47.2	497	48.3	na	na

- = not calculable. na = not applicable; citizenship and race and ethnicity data are not collected for doctorate-holding nonfaculty researchers.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

Note(s):
"Field" refers to the field of the unit that reports postdoctorates and doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Percentages may not add to total because of rounding. For more information on the mapping of GSS 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.

TABLE 2-2b

Citizenship, ethnicity, and race of graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in engineering, by sex: 2020

(Number and percent)

Citizenship, ethnicity, race, and field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Total number	Percent female	Total number	Percent female	Total number	Percent female	Total number	Percent female	Total number	Percent female
All surveyed fields	697,813	48.4	414,478	51.2	283,335	44.3	65,681	41.8	29,661	41.8
U.S. citizens and permanent residents[a]	487,051	53.0	314,305	54.9	172,746	49.5	29,890	47.9	na	na
Hispanic or Latino	62,679	56.6	43,750	58.7	18,929	51.9	2,027	52.2	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	2,042	60.1	1,284	60.1	758	60.0	72	65.3	na	na
Asian	53,094	48.5	35,075	48.5	18,019	48.7	5,696	45.2	na	na
Black or African American	41,916	62.4	30,842	63.0	11,074	60.5	1,081	61.4	na	na
Native Hawaiian or Other Pacific Islander	778	57.7	578	56.9	200	60.0	52	57.7	na	na
White	284,055	51.5	175,090	53.7	108,965	48.1	17,123	47.5	na	na
More than one race	17,579	54.9	11,069	56.4	6,510	52.4	555	53.5	na	na
Unknown ethnicity and race	24,908	51.6	16,617	54.4	8,291	46.0	3,284	45.9	na	na
Temporary visa holders	210,762	37.9	100,173	39.8	110,589	36.2	35,791	36.7	na	na
Engineering	157,729	27.0	86,450	26.5	71,279	27.6	8,462	24.8	3,921	23.0
U.S. citizens and permanent residents[a]	84,403	27.3	53,643	25.6	30,760	30.3	2,793	30.4	na	na
Hispanic or Latino	9,644	28.1	6,704	26.6	2,940	31.6	152	29.6	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	239	38.1	160	38.1	79	38.0	8	75.0	na	na
Asian	12,020	30.8	7,628	28.8	4,392	34.1	708	29.7	na	na
Black or African American	4,583	31.7	2,952	29.6	1,631	35.4	68	41.2	na	na
Native Hawaiian or Other Pacific Islander	101	26.7	71	21.1	30	40.0	4	25.0	na	na
White	50,847	25.6	31,783	23.9	19,064	28.5	1,513	30.5	na	na
More than one race	3,143	31.8	1,949	29.7	1,194	35.3	59	32.2	na	na
Unknown ethnicity and race	3,826	27.3	2,396	26.0	1,430	29.7	281	27.8	na	na
Temporary visa holders	73,326	26.7	32,807	28.1	40,519	25.5	5,669	22.1	na	na
Aerospace, aeronautical, and astronautical engineering	6,971	17.9	4,326	17.6	2,645	18.6	233	15.5	149	16.8
U.S. citizens and permanent residents[a]	5,300	18.1	3,752	17.6	1,548	19.4	78	21.8	na	na
Hispanic or Latino	532	16.4	416	14.9	116	21.6	4	0.0	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	14	21.4	10	30.0	4	0.0	0	-	na	na
Asian	608	20.1	425	21.2	183	17.5	17	23.5	na	na
Black or African American	163	25.2	115	25.2	48	25.0	0	-	na	na
Native Hawaiian or Other Pacific Islander	10	20.0	5	20.0	5	20.0	0	-	na	na
White	3,552	17.6	2,479	16.8	1,073	19.5	46	21.7	na	na
More than one race	233	19.7	158	21.5	75	16.0	1	0.0	na	na

TABLE 2-2b

Citizenship, ethnicity, and race of graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in engineering, by sex: 2020

(Number and percent)

Citizenship, ethnicity, race, and field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Total number	Percent female	Total number	Percent female	Total number	Percent female	Total number	Percent female	Total number	Percent female
Unknown ethnicity and race	188	18.6	144	17.4	44	22.7	10	30.0	na	na
Temporary visa holders	1,671	17.4	574	17.4	1,097	17.3	155	12.3	na	na
Biological, biomedical, and biosystems engineering	12,775	45.0	4,536	47.0	8,239	43.9	1,696	35.8	525	36.8
U.S. citizens and permanent residents[a]	8,890	45.4	3,303	46.2	5,587	44.9	726	39.8	na	na
Hispanic or Latino	956	47.3	383	50.1	573	45.4	39	46.2	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	22	68.2	7	42.9	15	80.0	3	66.7	na	na
Asian	1,690	46.0	688	47.4	1,002	45.1	201	39.8	na	na
Black or African American	450	51.6	188	52.1	262	51.1	30	46.7	na	na
Native Hawaiian or Other Pacific Islander	14	35.7	4	0.0	10	50.0	0	-	na	na
White	4,953	43.9	1,713	44.0	3,240	43.8	386	38.9	na	na
More than one race	399	50.9	153	47.1	246	53.3	17	64.7	na	na
Unknown ethnicity and race	406	44.1	167	48.5	239	41.0	50	28.0	na	na
Temporary visa holders	3,885	44.2	1,233	49.2	2,652	41.9	970	32.8	na	na
Chemical, petroleum, and chemical-related engineering	10,554	31.8	2,942	30.7	7,612	32.3	1,157	27.7	330	26.4
U.S. citizens and permanent residents[a]	5,285	32.2	1,676	32.0	3,609	32.3	358	33.5	na	na
Hispanic or Latino	506	33.6	199	28.6	307	36.8	20	40.0	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	16	31.3	4	25.0	12	33.3	1	100.0	na	na
Asian	821	36.5	261	36.8	560	36.4	76	25.0	na	na
Black or African American	255	41.2	112	42.9	143	39.9	7	71.4	na	na
Native Hawaiian or Other Pacific Islander	4	25.0	1	0.0	3	33.3	1	0.0	na	na
White	3,281	30.2	952	30.1	2,329	30.2	209	34.4	na	na
More than one race	205	31.7	69	29.0	136	33.1	10	40.0	na	na
Unknown ethnicity and race	197	34.0	78	34.6	119	33.6	34	32.4	na	na
Temporary visa holders	5,269	31.4	1,266	29.1	4,003	32.2	799	25.2	na	na
Civil, environmental, transportation and related engineering fields	18,304	34.8	10,819	35.3	7,485	34.1	1,006	28.1	488	24.2
U.S. citizens and permanent residents[a]	9,801	38.2	7,339	36.5	2,462	43.3	339	33.3	na	na
Hispanic or Latino	1,391	39.0	1,103	36.6	288	47.9	19	31.6	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	46	43.5	36	50.0	10	20.0	1	0.0	na	na

TABLE 2-2b

Citizenship, ethnicity, and race of graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in engineering, by sex: 2020

(Number and percent)

Citizenship, ethnicity, race, and field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Total number	Percent female	Total number	Percent female	Total number	Percent female	Total number	Percent female	Total number	Percent female
Asian	1,060	40.5	817	38.9	243	45.7	76	36.8	na	na
Black or African American	509	35.8	347	34.6	162	38.3	5	40.0	na	na
Native Hawaiian or Other Pacific Islander	17	29.4	14	28.6	3	33.3	2	0.0	na	na
White	5,962	37.7	4,413	36.0	1,549	42.5	189	33.9	na	na
More than one race	347	44.4	261	42.9	86	48.8	9	22.2	na	na
Unknown ethnicity and race	469	35.8	348	33.0	121	43.8	38	28.9	na	na
Temporary visa holders	8,503	30.9	3,480	32.7	5,023	29.6	667	25.5	na	na
Electrical, electronics, communications and computer engineering	43,032	21.9	25,312	23.3	17,720	19.8	1,302	16.7	706	16.1
U.S. citizens and permanent residents[a]	17,078	17.2	11,749	16.8	5,329	17.9	360	19.4	na	na
Hispanic or Latino	1,918	15.6	1,460	16.0	458	14.4	22	13.6	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	35	31.4	28	35.7	7	14.3	0	-	na	na
Asian	3,302	22.7	2,346	21.9	956	24.8	108	13.0	na	na
Black or African American	974	19.7	674	18.4	300	22.7	6	16.7	na	na
Native Hawaiian or Other Pacific Islander	8	12.5	7	14.3	1	0.0	0	-	na	na
White	9,316	14.6	6,217	14.4	3,099	14.9	167	20.4	na	na
More than one race	595	21.0	434	19.1	161	26.1	6	16.7	na	na
Unknown ethnicity and race	930	20.6	583	19.6	347	22.5	51	33.3	na	na
Temporary visa holders	25,954	24.9	13,563	29.0	12,391	20.5	942	15.6	na	na
Industrial, manufacturing, systems engineering and operations research	14,869	30.1	11,030	29.8	3,839	31.0	194	18.6	155	20.0
U.S. citizens and permanent residents[a]	8,301	29.3	6,877	29.3	1,424	29.5	58	17.2	na	na
Hispanic or Latino	1,120	33.4	1,024	33.3	96	34.4	2	50.0	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	19	52.6	17	52.9	2	50.0	0	-	na	na
Asian	975	34.1	798	34.6	177	31.6	8	0.0	na	na
Black or African American	623	32.7	488	31.6	135	37.0	2	50.0	na	na
Native Hawaiian or Other Pacific Islander	17	23.5	16	25.0	1	0.0	0	-	na	na
White	4,879	26.8	4,011	26.9	868	26.7	40	15.0	na	na
More than one race	246	33.3	196	31.6	50	40.0	1	0.0	na	na
Unknown ethnicity and race	422	27.7	327	27.2	95	29.5	5	40.0	na	na
Temporary visa holders	6,568	31.1	4,153	30.6	2,415	31.9	136	19.1	na	na

TABLE 2-2b

Citizenship, ethnicity, and race of graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in engineering, by sex: 2020

(Number and percent)

Citizenship, ethnicity, race, and field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Total number	Percent female	Total number	Percent female	Total number	Percent female	Total number	Percent female	Total number	Percent female
Mechanical engineering	25,782	18.2	14,305	16.8	11,477	20.0	1,149	17.8	469	16.6
U.S. citizens and permanent residents[a]	14,362	20.0	9,557	18.5	4,805	23.0	332	18.7	na	na
Hispanic or Latino	1,818	19.1	1,262	17.4	556	22.8	18	11.1	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	38	26.3	24	33.3	14	14.3	0	-	na	na
Asian	1,800	23.0	1,220	20.3	580	28.6	99	18.2	na	na
Black or African American	561	24.8	336	22.6	225	28.0	4	25.0	na	na
Native Hawaiian or Other Pacific Islander	9	11.1	8	12.5	1	0.0	0	-	na	na
White	8,990	18.9	5,986	17.7	3,004	21.4	166	18.1	na	na
More than one race	538	25.3	341	23.5	197	28.4	7	0.0	na	na
Unknown ethnicity and race	608	20.4	380	20.3	228	20.6	38	28.9	na	na
Temporary visa holders	11,420	16.0	4,748	13.5	6,672	17.8	817	17.4	na	na
Metallurgical, mining, materials and related engineering fields	7,181	31.9	2,299	32.9	4,882	31.4	630	21.6	299	22.4
U.S. citizens and permanent residents[a]	3,943	34.2	1,494	35.7	2,449	33.2	169	33.1	na	na
Hispanic or Latino	423	36.4	160	43.1	263	32.3	9	33.3	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	9	33.3	4	25.0	5	40.0	3	100.0	na	na
Asian	536	39.4	198	35.4	338	41.7	48	35.4	na	na
Black or African American	168	44.0	65	53.8	103	37.9	3	66.7	na	na
Native Hawaiian or Other Pacific Islander	4	75.0	2	100.0	2	50.0	0	-	na	na
White	2,502	31.5	945	32.7	1,557	30.8	95	31.6	na	na
More than one race	166	38.6	66	45.5	100	34.0	3	0.0	na	na
Unknown ethnicity and race	135	37.0	54	33.3	81	39.5	8	12.5	na	na
Temporary visa holders	3,238	29.2	805	27.7	2,433	29.6	461	17.4	na	na
Other engineering	18,261	27.3	10,881	27.3	7,380	27.3	1,095	23.9	800	23.4
U.S. citizens and permanent residents[a]	11,443	26.4	7,896	25.8	3,547	28.0	373	30.0	na	na
Hispanic or Latino	980	29.0	697	29.0	283	29.0	19	21.1	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	40	35.0	30	26.7	10	60.0	0	-	na	na
Asian	1,228	29.6	875	30.1	353	28.3	75	40.0	na	na
Black or African American	880	32.3	627	30.5	253	36.8	11	18.2	na	na
Native Hawaiian or Other Pacific Islander	18	27.8	14	14.3	4	75.0	1	100.0	na	na

TABLE 2-2b

Citizenship, ethnicity, and race of graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in engineering, by sex: 2020

(Number and percent)

Citizenship, ethnicity, race, and field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Total number	Percent female	Total number	Percent female	Total number	Percent female	Total number	Percent female	Total number	Percent female
White	7,412	24.8	5,067	23.8	2,345	26.9	215	30.7	na	na
More than one race	414	30.4	271	31.7	143	28.0	5	20.0	na	na
Unknown ethnicity and race	471	24.2	315	24.1	156	24.4	47	17.0	na	na
Temporary visa holders	6,818	28.8	2,985	31.4	3,833	26.8	722	20.8	na	na

- = not calculable. na = not applicable; citizenship and race and ethnicity data are not collected for doctorate-holding nonfaculty researchers.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

Note(s):
"Field" refers to the field of the unit that reports postdoctorates and doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Percentages may not add to total because of rounding. For more information on the mapping of GSS 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.

TABLE 2-2c

Citizenship, ethnicity, and race of graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in health, by sex: 2020

(Number and percent)

Citizenship, ethnicity, race, and field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Total number	Percent female	Total number	Percent female	Total number	Percent female	Total number	Percent female	Total number	Percent female
All surveyed fields	697,813	48.4	414,478	51.2	283,335	44.3	65,681	41.8	29,661	41.8
U.S. citizens and permanent residents[a]	487,051	53.0	314,305	54.9	172,746	49.5	29,890	47.9	na	na
Hispanic or Latino	62,679	56.6	43,750	58.7	18,929	51.9	2,027	52.2	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	2,042	60.1	1,284	60.1	758	60.0	72	65.3	na	na
Asian	53,094	48.5	35,075	48.5	18,019	48.7	5,696	45.2	na	na
Black or African American	41,916	62.4	30,842	63.0	11,074	60.5	1,081	61.4	na	na
Native Hawaiian or Other Pacific Islander	778	57.7	578	56.9	200	60.0	52	57.7	na	na
White	284,055	51.5	175,090	53.7	108,965	48.1	17,123	47.5	na	na
More than one race	17,579	54.9	11,069	56.4	6,510	52.4	555	53.5	na	na
Unknown ethnicity and race	24,908	51.6	16,617	54.4	8,291	46.0	3,284	45.9	na	na
Temporary visa holders	210,762	37.9	100,173	39.8	110,589	36.2	35,791	36.7	na	na
Health	75,438	76.4	60,124	78.4	15,314	68.9	18,478	50.7	7,528	52.2
U.S. citizens and permanent residents[a]	67,689	77.9	55,985	79.2	11,704	71.8	8,821	56.5	na	na
Hispanic or Latino	9,330	77.0	8,197	78.2	1,133	68.0	611	56.8	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	335	78.2	273	78.8	62	75.8	17	70.6	na	na
Asian	6,262	73.3	5,177	74.5	1,085	67.5	1,807	54.1	na	na
Black or African American	8,282	77.9	6,764	77.6	1,518	78.9	435	68.3	na	na
Native Hawaiian or Other Pacific Islander	124	71.8	104	73.1	20	65.0	22	72.7	na	na
White	37,802	79.3	30,773	81.0	7,029	71.9	4,686	56.5	na	na
More than one race	2,192	76.7	1,827	77.7	365	71.5	146	61.6	na	na
Unknown ethnicity and race	3,362	75.1	2,870	76.3	492	67.9	1,097	54.6	na	na
Temporary visa holders	7,749	63.2	4,139	66.5	3,610	59.3	9,657	45.3	na	na
Clinical medicine[b]	34,544	75.5	29,748	76.2	4,796	70.9	16,287	50.4	6,500	51.9
U.S. citizens and permanent residents[a]	31,239	76.4	27,391	77.0	3,848	72.7	7,654	55.8	na	na
Hispanic or Latino	4,614	75.9	4,132	76.6	482	69.9	554	55.1	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	224	78.1	185	78.4	39	76.9	13	61.5	na	na
Asian	3,570	73.2	3,181	73.7	389	69.4	1,580	54.2	na	na
Black or African American	5,126	79.3	4,511	79.4	615	78.7	382	68.3	na	na

TABLE 2-2c

Citizenship, ethnicity, and race of graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in health, by sex: 2020

(Number and percent)

Citizenship, ethnicity, race, and field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Total number	Percent female	Total number	Percent female	Total number	Percent female	Total number	Percent female	Total number	Percent female
Native Hawaiian or Other Pacific Islander	69	82.6	57	82.5	12	83.3	21	71.4	na	na
White	14,675	76.6	12,672	77.3	2,003	72.2	4,114	55.9	na	na
More than one race	1,143	77.0	991	77.2	152	75.7	131	61.1	na	na
Unknown ethnicity and race	1,818	73.9	1,662	74.4	156	68.6	859	52.0	na	na
Temporary visa holders	3,305	66.5	2,357	67.8	948	63.4	8,633	45.7	na	na
Other health	40,894	77.2	30,376	80.4	10,518	68.0	2,191	52.4	1,028	54.4
U.S. citizens and permanent residents[a]	36,450	79.2	28,594	81.4	7,856	71.4	1,167	61.1	na	na
Hispanic or Latino	4,716	78.0	4,065	79.9	651	66.5	57	73.7	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	111	78.4	88	79.5	23	73.9	4	100.0	na	na
Asian	2,692	73.4	1,996	75.8	696	66.4	227	53.3	na	na
Black or African American	3,156	75.5	2,253	74.1	903	79.1	53	67.9	na	na
Native Hawaiian or Other Pacific Islander	55	58.2	47	61.7	8	37.5	1	100.0	na	na
White	23,127	81.1	18,101	83.6	5,026	71.7	572	60.7	na	na
More than one race	1,049	76.4	836	78.3	213	68.5	15	66.7	na	na
Unknown ethnicity and race	1,544	76.5	1,208	79.0	336	67.6	238	63.9	na	na
Temporary visa holders	4,444	60.6	1,782	64.8	2,662	57.9	1,024	42.4	na	na

na = not applicable; citizenship and race and ethnicity data are not collected for doctorate-holding nonfaculty researchers.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Clinical medicine includes graduate students in public health and in medical clinical sciences and clinical and medical laboratory sciences. Clinical medicine includes postdoctoral appointees and nonfaculty researchers in anesthesiology, cardiology, endocrinology, gastroenterology, hematology, neurology, obstetrics and gynecology, oncology and cancer research, ophthalmology, otorhinolaryngology, pediatrics, psychiatry, public health, pulmonary disease, radiological sciences, surgery, and clinical medicine not elsewhere classified.

Note(s):
"Field" refers to the field of the unit that reports postdoctorates and doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Percentages may not add to total because of rounding. For more information on the mapping of GSS 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.

TABLE 2-3

Demographic characteristics of master's and doctoral students in science, engineering, and health, by enrollment intensity: 2020

(Number and percent)

	Full time												Part time					
	All full time						First time, full time											
	Total		Master's		Doctoral		All first time, full time		Master's		Doctoral		All part time		Master's		Doctoral	
Sex, citizenship, ethnicity, and race	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
All individuals	491,515	100.0	243,859	100.0	247,656	100.0	143,269	100.0	102,096	100.0	41,173	100.0	206,298	100.0	170,619	100.0	35,679	100.0
Male	250,749	51.0	112,292	46.0	138,457	55.9	66,686	46.5	45,074	44.1	21,612	52.5	109,164	52.9	89,856	52.7	19,308	54.1
Female	240,766	49.0	131,567	54.0	109,199	44.1	76,583	53.5	57,022	55.9	19,561	47.5	97,134	47.1	80,763	47.3	16,371	45.9
U.S. citizens and permanent residents[a]	314,694	64.0	167,766	68.8	146,928	59.3	107,459	75.0	79,715	78.1	27,744	67.4	172,357	83.5	146,539	85.9	25,818	72.4
Hispanic or Latino	40,815	8.3	24,436	10.0	16,379	6.6	14,866	10.4	11,483	11.2	3,383	8.2	21,864	10.6	19,314	11.3	2,550	7.1
Not Hispanic or Latino																		
American Indian or Alaska Native	1,322	0.3	722	0.3	600	0.2	402	0.3	306	0.3	96	0.2	720	0.3	562	0.3	158	0.4
Asian	34,502	7.0	18,544	7.6	15,958	6.4	12,838	9.0	9,685	9.5	3,153	7.7	18,592	9.0	16,531	9.7	2,061	5.8
Black or African American	24,560	5.0	15,989	6.6	8,571	3.5	9,390	6.6	7,664	7.5	1,726	4.2	17,356	8.4	14,853	8.7	2,503	7.0
Native Hawaiian or Other Pacific Islander	454	0.1	294	0.1	160	0.1	162	0.1	135	0.1	27	0.1	324	0.2	284	0.2	40	0.1
White	186,375	37.9	93,614	38.4	92,761	37.5	60,893	42.5	44,007	43.1	16,886	41.0	97,680	47.3	81,476	47.8	16,204	45.4
More than one race	12,103	2.5	6,377	2.6	5,726	2.3	4,223	2.9	3,063	3.0	1,160	2.8	5,476	2.7	4,692	2.7	784	2.2
Unknown ethnicity and race	14,563	3.0	7,790	3.2	6,773	2.7	4,685	3.3	3,372	3.3	1,313	3.2	10,345	5.0	8,827	5.2	1,518	4.3
Temporary visa holders	176,821	36.0	76,093	31.2	100,728	40.7	35,810	25.0	22,381	21.9	13,429	32.6	33,941	16.5	24,080	14.1	9,861	27.6
Male																		
U.S. citizens and permanent residents[a]	141,081	28.7	66,803	27.4	74,278	30.0	45,815	32.0	32,396	31.7	13,419	32.6	87,971	42.6	75,037	44.0	12,934	36.3
Hispanic or Latino	16,978	3.5	9,035	3.7	7,943	3.2	5,950	4.2	4,403	4.3	1,547	3.8	10,207	4.9	9,038	5.3	1,169	3.3
Not Hispanic or Latino																		
American Indian or Alaska Native	519	0.1	270	0.1	249	0.1	146	0.1	105	0.1	41	0.1	296	0.1	242	0.1	54	0.2
Asian	16,728	3.4	8,536	3.5	8,192	3.3	6,024	4.2	4,439	4.3	1,585	3.8	10,604	5.1	9,544	5.6	1,060	3.0
Black or African American	8,451	1.7	5,064	2.1	3,387	1.4	3,078	2.1	2,431	2.4	647	1.6	7,323	3.5	6,333	3.7	990	2.8
Native Hawaiian or Other Pacific Islander	176	*	117	*	59	*	65	*	55	0.1	10	*	153	0.1	132	0.1	21	0.1
White	86,072	17.5	38,036	15.6	48,036	19.4	26,605	18.6	18,241	17.9	8,364	20.3	51,553	25.0	43,081	25.2	8,472	23.7
More than one race	5,258	1.1	2,517	1.0	2,741	1.1	1,766	1.2	1,231	1.2	535	1.3	2,672	1.3	2,313	1.4	359	1.0
Unknown ethnicity and race	6,899	1.4	3,228	1.3	3,671	1.5	2,181	1.5	1,491	1.5	690	1.7	5,163	2.5	4,354	2.6	809	2.3
Temporary visa holders	109,668	22.3	45,489	18.7	64,179	25.9	20,871	14.6	12,678	12.4	8,193	19.9	21,193	10.3	14,819	8.7	6,374	17.9
Female																		
U.S. citizens and permanent residents[a]	173,613	35.3	100,963	41.4	72,650	29.3	61,644	43.0	47,319	46.3	14,325	34.8	84,386	40.9	71,502	41.9	12,884	36.1
Hispanic or Latino	23,837	4.8	15,401	6.3	8,436	3.4	8,916	6.2	7,080	6.9	1,836	4.5	11,657	5.7	10,276	6.0	1,381	3.9
Not Hispanic or Latino																		
American Indian or Alaska Native	803	0.2	452	0.2	351	0.1	256	0.2	201	0.2	55	0.1	424	0.2	320	0.2	104	0.3

TABLE 2-3

Demographic characteristics of master's and doctoral students in science, engineering, and health, by enrollment intensity: 2020

(Number and percent)

	Full time												Part time					
	All full time						First time, full time											
	Total		Master's		Doctoral		All first time, full time		Master's		Doctoral		All part time		Master's		Doctoral	
Sex, citizenship, ethnicity, and race	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Asian	17,774	3.6	10,008	4.1	7,766	3.1	6,814	4.8	5,246	5.1	1,568	3.8	7,988	3.9	6,987	4.1	1,001	2.8
Black or African American	16,109	3.3	10,925	4.5	5,184	2.1	6,312	4.4	5,233	5.1	1,079	2.6	10,033	4.9	8,520	5.0	1,513	4.2
Native Hawaiian or Other Pacific Islander	278	0.1	177	0.1	101	*	97	0.1	80	0.1	17	*	171	0.1	152	0.1	19	0.1
White	100,303	20.4	55,578	22.8	44,725	18.1	34,288	23.9	25,766	25.2	8,522	20.7	46,127	22.4	38,395	22.5	7,732	21.7
More than one race	6,845	1.4	3,860	1.6	2,985	1.2	2,457	1.7	1,832	1.8	625	1.5	2,804	1.4	2,379	1.4	425	1.2
Unknown ethnicity and race	7,664	1.6	4,562	1.9	3,102	1.3	2,504	1.7	1,881	1.8	623	1.5	5,182	2.5	4,473	2.6	709	2.0
Temporary visa holders	67,153	13.7	30,604	12.5	36,549	14.8	14,939	10.4	9,703	9.5	5,236	12.7	12,748	6.2	9,261	5.4	3,487	9.8

* = value < 0.05%.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

Note(s):
Percentages may not add to total because of rounding.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2020.

TABLE 2-4

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

(Number and percent)

					Not Hispanic or Latino															
	Total		Hispanic or Latino		American Indian or Alaska Native		Asian		Black or African American		Native Hawaiian or Other Pacific Islander		White		More than one race		Unknown ethnicity and race		Temporary visa holders	
Broad field	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[a]	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

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
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

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
Clinical medicine[a]	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

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
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[a]	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

[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. 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.

TABLE 3-1

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

(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	491,515	76,218	15.5	200,422	40.8	18,380	3.7	3,824	0.8	192,671	39.2
Science	330,541	48,717	14.7	145,648	44.1	10,357	3.1	1,922	0.6	123,897	37.5
Agricultural and veterinary sciences	7,271	1,437	19.8	3,671	50.5	794	10.9	63	0.9	1,306	18.0
Biological and biomedical sciences	77,580	19,427	25.0	34,170	44.0	3,226	4.2	450	0.6	20,307	26.2
Computer and information sciences	55,402	5,589	10.1	15,688	28.3	1,415	2.6	352	0.6	32,358	58.4
Geosciences, atmospheric sciences, and ocean sciences	9,456	2,528	26.7	5,022	53.1	422	4.5	88	0.9	1,396	14.8
Mathematics and statistics	24,041	1,585	6.6	12,597	52.4	373	1.6	129	0.5	9,357	38.9
Multidisciplinary and interdisciplinary studies	9,039	548	6.1	2,881	31.9	202	2.2	44	0.5	5,364	59.3
Natural resources and conservation	8,448	1,315	15.6	3,500	41.4	397	4.7	70	0.8	3,166	37.5
Physical sciences	37,638	10,792	28.7	21,942	58.3	1,535	4.1	288	0.8	3,081	8.2
Psychology	46,168	2,716	5.9	14,701	31.8	775	1.7	94	0.2	27,882	60.4
Social sciences	55,498	2,780	5.0	31,476	56.7	1,218	2.2	344	0.6	19,680	35.5
Engineering	111,240	24,114	21.7	41,810	37.6	6,886	6.2	1,636	1.5	36,794	33.1
Aerospace, aeronautical, and astronautical engineering	4,599	1,230	26.7	1,617	35.2	260	5.7	136	3.0	1,356	29.5
Biological, biomedical, and biosystems engineering	11,075	3,016	27.2	4,618	41.7	690	6.2	74	0.7	2,677	24.2
Chemical, petroleum, and chemical-related engineering	9,030	2,533	28.1	3,936	43.6	900	10.0	152	1.7	1,509	16.7
Civil, environmental, transportation and related engineering fields	12,861	2,040	15.9	5,746	44.7	711	5.5	239	1.9	4,125	32.1
Electrical, electronics, communications and computer engineering	30,503	5,974	19.6	9,941	32.6	1,665	5.5	407	1.3	12,516	41.0
Industrial, manufacturing, systems engineering and operations research	7,728	1,095	14.2	2,456	31.8	325	4.2	83	1.1	3,769	48.8
Mechanical engineering	18,680	4,283	22.9	7,296	39.1	1,137	6.1	321	1.7	5,643	30.2
Metallurgical, mining, materials and related engineering fields	6,063	1,716	28.3	2,258	37.2	468	7.7	115	1.9	1,506	24.8
Other engineering	10,701	2,227	20.8	3,942	36.8	730	6.8	109	1.0	3,693	34.5
Health	49,734	3,387	6.8	12,964	26.1	1,137	2.3	266	0.5	31,980	64.3
Clinical medicine[a]	20,528	1,410	6.9	4,737	23.1	506	2.5	59	0.3	13,816	67.3
Other health	29,206	1,977	6.8	8,227	28.2	631	2.2	207	0.7	18,164	62.2
Master's students	243,859	12,459	5.1	56,781	23.3	4,498	1.8	1,022	0.4	169,099	69.3
Science	155,502	7,083	4.6	37,624	24.2	2,391	1.5	562	0.4	107,842	69.4
Agricultural and veterinary sciences	3,731	590	15.8	1,750	46.9	393	10.5	24	0.6	974	26.1
Biological and biomedical sciences	26,473	1,286	4.9	6,669	25.2	349	1.3	107	0.4	18,062	68.2
Computer and information sciences	39,929	1,242	3.1	7,493	18.8	407	1.0	138	0.3	30,649	76.8
Geosciences, atmospheric sciences, and ocean sciences	3,649	639	17.5	1,889	51.8	111	3.0	31	0.8	979	26.8
Mathematics and statistics	11,622	182	1.6	2,780	23.9	136	1.2	26	0.2	8,498	73.1
Multidisciplinary and interdisciplinary studies	6,169	138	2.2	1,061	17.2	75	1.2	11	0.2	4,884	79.2
Natural resources and conservation	5,536	653	11.8	1,874	33.9	190	3.4	31	0.6	2,788	50.4
Physical sciences	3,686	332	9.0	1,628	44.2	80	2.2	40	1.1	1,606	43.6
Psychology	28,716	781	2.7	4,117	14.3	164	0.6	45	0.2	23,609	82.2

TABLE 3-1

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

(Number and percent)

Broad field	Total	Federal		Institutional		Nonfederal domestic		Foreign		Self-support	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Social sciences	25,991	1,240	4.8	8,363	32.2	486	1.9	109	0.4	15,793	60.8
Engineering	49,179	3,949	8.0	11,642	23.7	1,516	3.1	336	0.7	31,736	64.5
Aerospace, aeronautical, and astronautical engineering	2,298	362	15.8	653	28.4	85	3.7	14	0.6	1,184	51.5
Biological, biomedical, and biosystems engineering	3,416	184	5.4	791	23.2	79	2.3	13	0.4	2,349	68.8
Chemical, petroleum, and chemical-related engineering	1,898	97	5.1	514	27.1	102	5.4	17	0.9	1,168	61.5
Civil, environmental, transportation and related engineering fields	6,487	506	7.8	2,274	35.1	207	3.2	63	1.0	3,437	53.0
Electrical, electronics, communications and computer engineering	15,329	913	6.0	2,839	18.5	278	1.8	90	0.6	11,209	73.1
Industrial, manufacturing, systems engineering and operations research	4,820	484	10.0	783	16.2	132	2.7	41	0.9	3,380	70.1
Mechanical engineering	8,461	866	10.2	2,318	27.4	334	3.9	61	0.7	4,882	57.7
Metallurgical, mining, materials and related engineering fields	1,566	161	10.3	368	23.5	68	4.3	12	0.8	957	61.1
Other engineering	4,904	376	7.7	1,102	22.5	231	4.7	25	0.5	3,170	64.6
Health	39,178	1,427	3.6	7,515	19.2	591	1.5	124	0.3	29,521	75.4
Clinical medicine[a]	17,186	715	4.2	3,160	18.4	295	1.7	16	0.1	13,000	75.6
Other health	21,992	712	3.2	4,355	19.8	296	1.3	108	0.5	16,521	75.1
Doctoral students	247,656	63,759	25.7	143,641	58.0	13,882	5.6	2,802	1.1	23,572	9.5
Science	175,039	41,634	23.8	108,024	61.7	7,966	4.6	1,360	0.8	16,055	9.2
Agricultural and veterinary sciences	3,540	847	23.9	1,921	54.3	401	11.3	39	1.1	332	9.4
Biological and biomedical sciences	51,107	18,141	35.5	27,501	53.8	2,877	5.6	343	0.7	2,245	4.4
Computer and information sciences	15,473	4,347	28.1	8,195	53.0	1,008	6.5	214	1.4	1,709	11.0
Geosciences, atmospheric sciences, and ocean sciences	5,807	1,889	32.5	3,133	54.0	311	5.4	57	1.0	417	7.2
Mathematics and statistics	12,419	1,403	11.3	9,817	79.0	237	1.9	103	0.8	859	6.9
Multidisciplinary and interdisciplinary studies	2,870	410	14.3	1,820	63.4	127	4.4	33	1.1	480	16.7
Natural resources and conservation	2,912	662	22.7	1,626	55.8	207	7.1	39	1.3	378	13.0
Physical sciences	33,952	10,460	30.8	20,314	59.8	1,455	4.3	248	0.7	1,475	4.3
Psychology	17,452	1,935	11.1	10,584	60.6	611	3.5	49	0.3	4,273	24.5
Social sciences	29,507	1,540	5.2	23,113	78.3	732	2.5	235	0.8	3,887	13.2
Engineering	62,061	20,165	32.5	30,168	48.6	5,370	8.7	1,300	2.1	5,058	8.2
Aerospace, aeronautical, and astronautical engineering	2,301	868	37.7	964	41.9	175	7.6	122	5.3	172	7.5
Biological, biomedical, and biosystems engineering	7,659	2,832	37.0	3,827	50.0	611	8.0	61	0.8	328	4.3
Chemical, petroleum, and chemical-related engineering	7,132	2,436	34.2	3,422	48.0	798	11.2	135	1.9	341	4.8
Civil, environmental, transportation and related engineering fields	6,374	1,534	24.1	3,472	54.5	504	7.9	176	2.8	688	10.8
Electrical, electronics, communications and computer engineering	15,174	5,061	33.4	7,102	46.8	1,387	9.1	317	2.1	1,307	8.6

TABLE 3-1

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

(Number and percent)

Broad field	Total	Federal		Institutional		Nonfederal domestic		Foreign		Self-support	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Industrial, manufacturing, systems engineering and operations research	2,908	611	21.0	1,673	57.5	193	6.6	42	1.4	389	13.4
Mechanical engineering	10,219	3,417	33.4	4,978	48.7	803	7.9	260	2.5	761	7.4
Metallurgical, mining, materials and related engineering fields	4,497	1,555	34.6	1,890	42.0	400	8.9	103	2.3	549	12.2
Other engineering	5,797	1,851	31.9	2,840	49.0	499	8.6	84	1.4	523	9.0
Health	10,556	1,960	18.6	5,449	51.6	546	5.2	142	1.3	2,459	23.3
Clinical medicine[a]	3,342	695	20.8	1,577	47.2	211	6.3	43	1.3	816	24.4
Other health	7,214	1,265	17.5	3,872	53.7	335	4.6	99	1.4	1,643	22.8

[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.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2020.

TABLE 3-2

Primary source of support for postdoctoral appointees in science, engineering, and health, by broad field: 2020

(Number and percent)

Broad field	Total	Federal		Institutional		Nonfederal domestic		Foreign		Self-support		Unknown	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
All surveyed fields	65,681	33,374	50.8	14,796	22.5	9,698	14.8	1,442	2.2	628	1.0	5,743	8.7
Science	38,741	20,150	52.0	8,815	22.8	5,293	13.7	732	1.9	261	0.7	3,490	9.0
Agricultural and veterinary sciences	1,678	721	43.0	479	28.5	198	11.8	20	1.2	1	0.1	259	15.4
Biological and biomedical sciences	21,902	12,084	55.2	4,088	18.7	3,128	14.3	373	1.7	99	0.5	2,130	9.7
Computer and information sciences	823	407	49.5	205	24.9	126	15.3	20	2.4	10	1.2	55	6.7
Geosciences, atmospheric sciences, and ocean sciences	1,790	927	51.8	453	25.3	214	12.0	52	2.9	22	1.2	122	6.8
Mathematics and statistics	1,076	319	29.6	533	49.5	103	9.6	17	1.6	4	0.4	100	9.3
Multidisciplinary and interdisciplinary studies	832	328	39.4	293	35.2	119	14.3	3	0.4	15	1.8	74	8.9
Natural resources and conservation	845	397	47.0	249	29.5	103	12.2	17	2.0	16	1.9	63	7.5
Physical sciences	6,937	3,936	56.7	1,447	20.9	895	12.9	174	2.5	65	0.9	420	6.1
Psychology	1,312	705	53.7	333	25.4	144	11.0	21	1.6	16	1.2	93	7.1
Social sciences	1,546	326	21.1	735	47.5	263	17.0	35	2.3	13	0.8	174	11.3
Engineering	8,462	4,234	50.0	1,965	23.2	1,320	15.6	286	3.4	78	0.9	579	6.8
Aerospace, aeronautical, and astronautical engineering	233	117	50.2	44	18.9	32	13.7	12	5.2	5	2.1	23	9.9
Biological, biomedical, and biosystems engineering	1,696	976	57.5	333	19.6	269	15.9	37	2.2	5	0.3	76	4.5
Chemical, petroleum, and chemical-related engineering	1,157	519	44.9	260	22.5	232	20.1	43	3.7	5	0.4	98	8.5
Civil, environmental, transportation and related engineering fields	1,006	377	37.5	349	34.7	157	15.6	39	3.9	2	0.2	82	8.2
Electrical, electronics, communications and computer engineering	1,302	739	56.8	246	18.9	186	14.3	32	2.5	26	2.0	73	5.6
Industrial, manufacturing, systems engineering and operations research	194	65	33.5	65	33.5	39	20.1	3	1.5	2	1.0	20	10.3
Mechanical engineering	1,149	575	50.0	292	25.4	159	13.8	41	3.6	6	0.5	76	6.6

TABLE 3-2

Primary source of support for postdoctoral appointees in science, engineering, and health, by broad field: 2020

(Number and percent)

Broad field	Total	Federal		Institutional		Nonfederal domestic		Foreign		Self-support		Unknown	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Metallurgical, mining, materials and related engineering fields	630	328	52.1	124	19.7	92	14.6	26	4.1	6	1.0	54	8.6
Other engineering	1,095	538	49.1	252	23.0	154	14.1	53	4.8	21	1.9	77	7.0
Health	18,478	8,990	48.7	4,016	21.7	3,085	16.7	424	2.3	289	1.6	1,674	9.1
Clinical medicine[a]	16,287	7,936	48.7	3,502	21.5	2,638	16.2	404	2.5	287	1.8	1,520	9.3
Other health	2,191	1,054	48.1	514	23.5	447	20.4	20	0.9	2	0.1	154	7.0

[a] Clinical medicine includes postdoctoral appointees in anesthesiology, cardiology, endocrinology, gastroenterology, hematology, neurology, obstetrics and gynecology, oncology and cancer research, ophthalmology, otorhinolaryngology, pediatrics, psychiatry, public health, pulmonary disease, radiological sciences, surgery, and clinical medicine not elsewhere classified.

Note(s):
"Field" refers to the field of the unit that reports postdoctoral appointees to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Percentages may not add to total because of rounding. For more information on the mapping of GSS 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.

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[a]	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

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
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[a]	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[a]	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.

[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.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2020.

TABLE 3-4

Detailed primary source of federal support for postdoctoral appointees 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 surveyed fields	33,374	2,369	7.1	2,163	6.5	20,096	60.2	916	2.7	696	2.1	3,599	10.8	856	2.6	2,679	8.0
Science	20,150	1,122	5.6	1,424	7.1	11,128	55.2	562	2.8	577	2.9	2,801	13.9	791	3.9	1,745	8.7
Agricultural and veterinary sciences	721	32	4.4	19	2.6	217	30.1	17	2.4	3	0.4	61	8.5	319	44.2	53	7.4
Biological and biomedical sciences	12,084	382	3.2	221	1.8	9,191	76.1	349	2.9	47	0.4	786	6.5	302	2.5	806	6.7
Computer and information sciences	407	155	38.1	13	3.2	30	7.4	3	0.7	4	1.0	157	38.6	4	1.0	41	10.1
Geosciences, atmospheric sciences, and ocean sciences	927	54	5.8	72	7.8	26	2.8	11	1.2	160	17.3	325	35.1	26	2.8	253	27.3
Mathematics and statistics	319	54	16.9	27	8.5	61	19.1	3	0.9	1	0.3	155	48.6	0	0.0	18	5.6
Multidisciplinary and interdisciplinary studies	328	27	8.2	11	3.4	171	52.1	13	4.0	9	2.7	63	19.2	7	2.1	27	8.2
Natural resources and conservation	397	9	2.3	28	7.1	12	3.0	15	3.8	17	4.3	95	23.9	96	24.2	125	31.5
Physical sciences	3,936	379	9.6	1,030	26.2	856	21.7	109	2.8	314	8.0	956	24.3	12	0.3	280	7.1
Psychology	705	23	3.3	1	0.1	474	67.2	31	4.4	1	0.1	96	13.6	5	0.7	74	10.5
Social sciences	326	7	2.1	2	0.6	90	27.6	11	3.4	21	6.4	107	32.8	20	6.1	68	20.9
Engineering	4,234	968	22.9	731	17.3	1,091	25.8	76	1.8	110	2.6	749	17.7	57	1.3	452	10.7
Aerospace, aeronautical, and astronautical engineering	117	54	46.2	12	10.3	4	3.4	1	0.9	19	16.2	13	11.1	0	0.0	14	12.0
Biological, biomedical, and biosystems engineering	976	92	9.4	20	2.0	693	71.0	33	3.4	6	0.6	66	6.8	6	0.6	60	6.1
Chemical, petroleum, and chemical-related engineering	519	78	15.0	160	30.8	104	20.0	17	3.3	6	1.2	94	18.1	5	1.0	55	10.6
Civil, environmental, transportation and related engineering fields	377	57	15.1	76	20.2	14	3.7	0	0.0	19	5.0	108	28.6	9	2.4	94	24.9
Electrical, electronics, communications and computer engineering	739	306	41.4	80	10.8	86	11.6	4	0.5	12	1.6	174	23.5	2	0.3	75	10.1
Industrial, manufacturing, systems engineering and operations research	65	18	27.7	14	21.5	8	12.3	2	3.1	3	4.6	15	23.1	2	3.1	3	4.6
Mechanical engineering	575	146	25.4	118	20.5	107	18.6	5	0.9	27	4.7	111	19.3	2	0.3	59	10.3
Metallurgical, mining, materials and related engineering fields	328	88	26.8	105	32.0	11	3.4	4	1.2	6	1.8	78	23.8	0	0.0	36	11.0
Other engineering	538	129	24.0	146	27.1	64	11.9	10	1.9	12	2.2	90	16.7	31	5.8	56	10.4
Health	8,990	279	3.1	8	0.1	7,877	87.6	278	3.1	9	0.1	49	0.5	8	0.1	482	5.4
Clinical medicine[a]	7,936	245	3.1	7	0.1	7,024	88.5	206	2.6	6	0.1	40	0.5	3	*	405	5.1
Other health	1,054	34	3.2	1	0.1	853	80.9	72	6.8	3	0.3	9	0.9	5	0.5	77	7.3

* = value < 0.05%.

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.

[a] Clinical medicine includes postdoctoral appointees in anesthesiology, cardiology, endocrinology, gastroenterology, hematology, neurology, obstetrics and gynecology, oncology and cancer research, ophthalmology, otorhinolaryngology, pediatrics, psychiatry, public health, pulmonary disease, radiological sciences, surgery, and clinical medicine not elsewhere classified.

Note(s):
"Field" refers to the field of the unit that reports postdoctoral appointees to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Percentages may not add to total because of rounding. For more information on the mapping of GSS 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.

TABLE 3-5

Primary mechanism of support for full-time graduate students in science, engineering, and health, by broad field: 2020

(Number and percent)

Broad field	Total	Fellowships		Research assistantships		Teaching assistantships		Traineeships		Other types of support			
										Self-support		Other	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
All graduate students	491,515	43,462	8.8	115,101	23.4	85,292	17.4	12,019	2.4	192,671	39.2	42,970	8.7
Science	330,541	31,998	9.7	71,110	21.5	67,293	20.4	9,174	2.8	123,897	37.5	27,069	8.2
Agricultural and veterinary sciences	7,271	406	5.6	4,128	56.8	992	13.6	69	0.9	1,306	18.0	370	5.1
Biological and biomedical sciences	77,580	10,017	12.9	24,296	31.3	10,644	13.7	5,890	7.6	20,307	26.2	6,426	8.3
Computer and information sciences	55,402	2,318	4.2	8,558	15.4	7,268	13.1	371	0.7	32,358	58.4	4,529	8.2
Geosciences, atmospheric sciences, and ocean sciences	9,456	1,133	12.0	3,751	39.7	2,529	26.7	99	1.0	1,396	14.8	548	5.8
Mathematics and statistics	24,041	1,859	7.7	2,108	8.8	9,098	37.8	217	0.9	9,357	38.9	1,402	5.8
Multidisciplinary and interdisciplinary studies	9,039	924	10.2	1,005	11.1	842	9.3	94	1.0	5,364	59.3	810	9.0
Natural resources and conservation	8,448	875	10.4	2,433	28.8	1,277	15.1	91	1.1	3,166	37.5	606	7.2
Physical sciences	37,638	4,194	11.1	14,556	38.7	13,422	35.7	657	1.7	3,081	8.2	1,728	4.6
Psychology	46,168	1,924	4.2	4,726	10.2	6,631	14.4	816	1.8	27,882	60.4	4,189	9.1
Social sciences	55,498	8,348	15.0	5,549	10.0	14,590	26.3	870	1.6	19,680	35.5	6,461	11.6
Engineering	111,240	9,732	8.7	39,230	35.3	14,187	12.8	1,395	1.3	36,794	33.1	9,902	8.9
Aerospace, aeronautical, and astronautical engineering	4,599	428	9.3	1,736	37.7	591	12.9	61	1.3	1,356	29.5	427	9.3
Biological, biomedical, and biosystems engineering	11,075	1,684	15.2	4,213	38.0	966	8.7	495	4.5	2,677	24.2	1,040	9.4
Chemical, petroleum, and chemical-related engineering	9,030	1,340	14.8	4,343	48.1	1,160	12.8	130	1.4	1,509	16.7	548	6.1
Civil, environmental, transportation and related engineering fields	12,861	1,052	8.2	4,488	34.9	1,875	14.6	135	1.0	4,125	32.1	1,186	9.2
Electrical, electronics, communications and computer engineering	30,503	1,925	6.3	9,428	30.9	3,973	13.0	195	0.6	12,516	41.0	2,466	8.1
Industrial, manufacturing, systems engineering and operations research	7,728	404	5.2	1,545	20.0	982	12.7	62	0.8	3,769	48.8	966	12.5

TABLE 3-5

Primary mechanism of support for full-time graduate students in science, engineering, and health, by broad field: 2020

(Number and percent)

Broad field	Total	Fellowships		Research assistantships		Teaching assistantships		Traineeships		Other types of support			
										Self-support		Other	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Mechanical engineering	18,680	1,448	7.8	6,682	35.8	2,985	16.0	174	0.9	5,643	30.2	1,748	9.4
Metallurgical, mining, materials and related engineering fields	6,063	700	11.5	2,770	45.7	616	10.2	57	0.9	1,506	24.8	414	6.8
Other engineering	10,701	751	7.0	4,025	37.6	1,039	9.7	86	0.8	3,693	34.5	1,107	10.3
Health	49,734	1,732	3.5	4,761	9.6	3,812	7.7	1,450	2.9	31,980	64.3	5,999	12.1
Clinical medicine[a]	20,528	733	3.6	1,864	9.1	1,021	5.0	786	3.8	13,816	67.3	2,308	11.2
Other health	29,206	999	3.4	2,897	9.9	2,791	9.6	664	2.3	18,164	62.2	3,691	12.6
Master's students	243,859	6,112	2.5	19,274	7.9	21,699	8.9	2,268	0.9	169,099	69.3	25,407	10.4
Science	155,502	3,977	2.6	11,699	7.5	15,580	10.0	1,144	0.7	107,842	69.4	15,260	9.8
Agricultural and veterinary sciences	3,731	119	3.2	1,880	50.4	468	12.5	45	1.2	974	26.1	245	6.6
Biological and biomedical sciences	26,473	473	1.8	2,294	8.7	3,059	11.6	157	0.6	18,062	68.2	2,428	9.2
Computer and information sciences	39,929	465	1.2	1,668	4.2	3,258	8.2	205	0.5	30,649	76.8	3,684	9.2
Geosciences, atmospheric sciences, and ocean sciences	3,649	130	3.6	1,051	28.8	1,186	32.5	16	0.4	979	26.8	287	7.9
Mathematics and statistics	11,622	169	1.5	325	2.8	1,668	14.4	60	0.5	8,498	73.1	902	7.8
Multidisciplinary and interdisciplinary studies	6,169	251	4.1	236	3.8	273	4.4	24	0.4	4,884	79.2	501	8.1
Natural resources and conservation	5,536	446	8.1	1,183	21.4	625	11.3	56	1.0	2,788	50.4	438	7.9
Physical sciences	3,686	70	1.9	528	14.3	1,077	29.2	61	1.7	1,606	43.6	344	9.3
Psychology	28,716	120	0.4	1,017	3.5	1,250	4.4	227	0.8	23,609	82.2	2,493	8.7
Social sciences	25,991	1,734	6.7	1,517	5.8	2,716	10.4	293	1.1	15,793	60.8	3,938	15.2
Engineering	49,179	1,426	2.9	5,840	11.9	4,253	8.6	413	0.8	31,736	64.5	5,511	11.2
Aerospace, aeronautical, and astronautical engineering	2,298	111	4.8	464	20.2	214	9.3	39	1.7	1,184	51.5	286	12.4
Biological, biomedical, and biosystems engineering	3,416	106	3.1	277	8.1	304	8.9	32	0.9	2,349	68.8	348	10.2
Chemical, petroleum, and chemical-related engineering	1,898	60	3.2	246	13.0	189	10.0	20	1.1	1,168	61.5	215	11.3

TABLE 3-5

Primary mechanism of support for full-time graduate students in science, engineering, and health, by broad field: 2020

(Number and percent)

Broad field	Total	Fellowships		Research assistantships		Teaching assistantships		Traineeships		Other types of support			
										Self-support		Other	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Civil, environmental, transportation and related engineering fields	6,487	353	5.4	1,148	17.7	716	11.0	67	1.0	3,437	53.0	766	11.8
Electrical, electronics, communications and computer engineering	15,329	232	1.5	1,157	7.5	1,301	8.5	95	0.6	11,209	73.1	1,335	8.7
Industrial, manufacturing, systems engineering and operations research	4,820	125	2.6	320	6.6	237	4.9	49	1.0	3,380	70.1	709	14.7
Mechanical engineering	8,461	197	2.3	1,315	15.5	859	10.2	80	0.9	4,882	57.7	1,128	13.3
Metallurgical, mining, materials and related engineering fields	1,566	81	5.2	263	16.8	127	8.1	8	0.5	957	61.1	130	8.3
Other engineering	4,904	161	3.3	650	13.3	306	6.2	23	0.5	3,170	64.6	594	12.1
Health	39,178	709	1.8	1,735	4.4	1,866	4.8	711	1.8	29,521	75.4	4,636	11.8
Clinical medicine[a]	17,186	456	2.7	799	4.6	573	3.3	431	2.5	13,000	75.6	1,927	11.2
Other health	21,992	253	1.2	936	4.3	1,293	5.9	280	1.3	16,521	75.1	2,709	12.3
Doctoral students	247,656	37,350	15.1	95,827	38.7	63,593	25.7	9,751	3.9	23,572	9.5	17,563	7.1
Science	175,039	28,021	16.0	59,411	33.9	51,713	29.5	8,030	4.6	16,055	9.2	11,809	6.7
Agricultural and veterinary sciences	3,540	287	8.1	2,248	63.5	524	14.8	24	0.7	332	9.4	125	3.5
Biological and biomedical sciences	51,107	9,544	18.7	22,002	43.1	7,585	14.8	5,733	11.2	2,245	4.4	3,998	7.8
Computer and information sciences	15,473	1,853	12.0	6,890	44.5	4,010	25.9	166	1.1	1,709	11.0	845	5.5
Geosciences, atmospheric sciences, and ocean sciences	5,807	1,003	17.3	2,700	46.5	1,343	23.1	83	1.4	417	7.2	261	4.5
Mathematics and statistics	12,419	1,690	13.6	1,783	14.4	7,430	59.8	157	1.3	859	6.9	500	4.0
Multidisciplinary and interdisciplinary studies	2,870	673	23.4	769	26.8	569	19.8	70	2.4	480	16.7	309	10.8
Natural resources and conservation	2,912	429	14.7	1,250	42.9	652	22.4	35	1.2	378	13.0	168	5.8

TABLE 3-5

Primary mechanism of support for full-time graduate students in science, engineering, and health, by broad field: 2020

(Number and percent)

Broad field	Total	Fellowships		Research assistantships		Teaching assistantships		Traineeships		Other types of support			
										Self-support		Other	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Physical sciences	33,952	4,124	12.1	14,028	41.3	12,345	36.4	596	1.8	1,475	4.3	1,384	4.1
Psychology	17,452	1,804	10.3	3,709	21.3	5,381	30.8	589	3.4	4,273	24.5	1,696	9.7
Social sciences	29,507	6,614	22.4	4,032	13.7	11,874	40.2	577	2.0	3,887	13.2	2,523	8.6
Engineering	62,061	8,306	13.4	33,390	53.8	9,934	16.0	982	1.6	5,058	8.2	4,391	7.1
Aerospace, aeronautical, and astronautical engineering	2,301	317	13.8	1,272	55.3	377	16.4	22	1.0	172	7.5	141	6.1
Biological, biomedical, and biosystems engineering	7,659	1,578	20.6	3,936	51.4	662	8.6	463	6.0	328	4.3	692	9.0
Chemical, petroleum, and chemical-related engineering	7,132	1,280	17.9	4,097	57.4	971	13.6	110	1.5	341	4.8	333	4.7
Civil, environmental, transportation and related engineering fields	6,374	699	11.0	3,340	52.4	1,159	18.2	68	1.1	688	10.8	420	6.6
Electrical, electronics, communications and computer engineering	15,174	1,693	11.2	8,271	54.5	2,672	17.6	100	0.7	1,307	8.6	1,131	7.5
Industrial, manufacturing, systems engineering and operations research	2,908	279	9.6	1,225	42.1	745	25.6	13	0.4	389	13.4	257	8.8
Mechanical engineering	10,219	1,251	12.2	5,367	52.5	2,126	20.8	94	0.9	761	7.4	620	6.1
Metallurgical, mining, materials and related engineering fields	4,497	619	13.8	2,507	55.7	489	10.9	49	1.1	549	12.2	284	6.3
Other engineering	5,797	590	10.2	3,375	58.2	733	12.6	63	1.1	523	9.0	513	8.8
Health	10,556	1,023	9.7	3,026	28.7	1,946	18.4	739	7.0	2,459	23.3	1,363	12.9
Clinical medicine[a]	3,342	277	8.3	1,065	31.9	448	13.4	355	10.6	816	24.4	381	11.4
Other health	7,214	746	10.3	1,961	27.2	1,498	20.8	384	5.3	1,643	22.8	982	13.6

[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.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2020.

TABLE 3-6

Primary mechanism of support for postdoctoral appointees in science, engineering, and health, by broad field: 2020

(Number and percent)

Broad field	Total	Fellowships		Research grants		Traineeships		Other types of support: Other	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
All surveyed fields	65,681	6,910	10.5	40,342	61.4	3,338	5.1	15,091	23.0
Science	38,741	3,849	9.9	25,032	64.6	1,457	3.8	8,403	21.7
Agricultural and veterinary sciences	1,678	161	9.6	971	57.9	99	5.9	447	26.6
Biological and biomedical sciences	21,902	1,957	8.9	14,439	65.9	940	4.3	4,566	20.8
Computer and information sciences	823	88	10.7	552	67.1	18	2.2	165	20.0
Geosciences, atmospheric sciences, and ocean sciences	1,790	212	11.8	1,221	68.2	20	1.1	337	18.8
Mathematics and statistics	1,076	184	17.1	398	37.0	74	6.9	420	39.0
Multidisciplinary and interdisciplinary studies	832	74	8.9	483	58.1	43	5.2	232	27.9
Natural resources and conservation	845	71	8.4	572	67.7	31	3.7	171	20.2
Physical sciences	6,937	685	9.9	4,947	71.3	79	1.1	1,226	17.7
Psychology	1,312	178	13.6	743	56.6	95	7.2	296	22.6
Social sciences	1,546	239	15.5	706	45.7	58	3.8	543	35.1
Engineering	8,462	714	8.4	6,209	73.4	96	1.1	1,443	17.1
Aerospace, aeronautical, and astronautical engineering	233	16	6.9	152	65.2	1	0.4	64	27.5
Biological, biomedical, and biosystems engineering	1,696	157	9.3	1,226	72.3	48	2.8	265	15.6
Chemical, petroleum, and chemical-related engineering	1,157	125	10.8	811	70.1	12	1.0	209	18.1
Civil, environmental, transportation and related engineering fields	1,006	75	7.5	767	76.2	11	1.1	153	15.2
Electrical, electronics, communications and computer engineering	1,302	104	8.0	992	76.2	7	0.5	199	15.3
Industrial, manufacturing, systems engineering and operations research	194	6	3.1	159	82.0	1	0.5	28	14.4
Mechanical engineering	1,149	139	12.1	806	70.1	13	1.1	191	16.6
Metallurgical, mining, materials and related engineering fields	630	32	5.1	490	77.8	0	0.0	108	17.1
Other engineering	1,095	60	5.5	806	73.6	3	0.3	226	20.6
Health	18,478	2,347	12.7	9,101	49.3	1,785	9.7	5,245	28.4
Clinical medicine[a]	16,287	2,040	12.5	7,935	48.7	1,585	9.7	4,727	29.0
Other health	2,191	307	14.0	1,166	53.2	200	9.1	518	23.6

[a] Clinical medicine includes postdoctoral appointees in anesthesiology, cardiology, endocrinology, gastroenterology, hematology, neurology, obstetrics and gynecology, oncology and cancer research, ophthalmology, otorhinolaryngology, pediatrics, psychiatry, public health, pulmonary disease, radiological sciences, surgery, and clinical medicine not elsewhere classified.

Note(s):
"Field" refers to the field of the unit that reports postdoctoral appointees to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Percentages may not add to total because of rounding. For more information on the mapping of GSS 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.

TABLE 4-1

Distribution of graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers across science, engineering, and health fields: 2020

(Number and percent)

Detailed field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
All detailed fields	697,813	100.0	414,478	100.0	283,335	100.0	65,681	100.0	29,661	100.0
Science	464,646	66.6	267,904	64.6	196,742	69.4	38,741	59.0	18,212	61.4
Agricultural and veterinary sciences	10,800	1.5	6,487	1.6	4,313	1.5	1,678	2.6	964	3.3
Agricultural sciences	9,380	1.3	5,589	1.3	3,791	1.3	1,046	1.6	650	2.2
Veterinary biomedical and clinical sciences	1,420	0.2	898	0.2	522	0.2	632	1.0	314	1.1
Biological and biomedical sciences	94,825	13.6	39,920	9.6	54,905	19.4	21,902	33.3	8,112	27.3
Biochemistry	5,537	0.8	889	0.2	4,648	1.6	1,863	2.8	800	2.7
Biology	15,649	2.2	8,381	2.0	7,268	2.6	2,169	3.3	776	2.6
Biomedical sciences	10,412	1.5	5,898	1.4	4,514	1.6	1,879	2.9	406	1.4
Biophysics	868	0.1	8	*	860	0.3	147	0.2	66	0.2
Biostatistics and bioinformatics	6,482	0.9	3,143	0.8	3,339	1.2	830	1.3	380	1.3
Biotechnology	3,244	0.5	3,143	0.8	101	*	96	0.1	95	0.3
Botany and plant biology	1,631	0.2	376	0.1	1,255	0.4	579	0.9	258	0.9
Cell, cellular biology, and anatomical sciences	5,962	0.9	954	0.2	5,008	1.8	1,661	2.5	548	1.8
Ecology and population biology	3,777	0.5	1,052	0.3	2,725	1.0	467	0.7	230	0.8
Epidemiology	5,185	0.7	3,153	0.8	2,032	0.7	307	0.5	126	0.4
Genetics	2,802	0.4	620	0.1	2,182	0.8	1,485	2.3	545	1.8
Microbiological sciences and immunology	5,773	0.8	1,649	0.4	4,124	1.5	2,028	3.1	750	2.5
Molecular biology	1,618	0.2	378	0.1	1,240	0.4	722	1.1	225	0.8
Neurobiology and neuroscience	5,820	0.8	545	0.1	5,275	1.9	2,075	3.2	789	2.7
Nutrition science	3,359	0.5	2,370	0.6	989	0.3	191	0.3	143	0.5
Pathology and experimental pathology	858	0.1	105	*	753	0.3	1,263	1.9	401	1.4
Pharmacology and toxicology	2,944	0.4	770	0.2	2,174	0.8	1,026	1.6	394	1.3
Physiology	5,802	0.8	3,044	0.7	2,758	1.0	1,804	2.7	731	2.5
Zoology and animal biology	2,047	0.3	869	0.2	1,178	0.4	397	0.6	137	0.5
Biological and biomedical sciences nec	5,055	0.7	2,573	0.6	2,482	0.9	913	1.4	312	1.1
Computer and information sciences	98,864	14.2	80,690	19.5	18,174	6.4	823	1.3	458	1.5
Artificial intelligence, informatics, and computer and information science topics	4,375	0.6	3,419	0.8	956	0.3	37	0.1	43	0.1
Computer and information sciences	29,107	4.2	23,625	5.7	5,482	1.9	187	0.3	104	0.4
Computer and information systems security	7,293	1.0	7,023	1.7	270	0.1	6	*	2	*
Computer science	32,328	4.6	22,670	5.5	9,658	3.4	466	0.7	218	0.7
Information science and studies	12,916	1.9	11,671	2.8	1,245	0.4	40	0.1	21	0.1
Information technology	6,023	0.9	5,618	1.4	405	0.1	18	*	14	*
Computer and information sciences nec	6,822	1.0	6,664	1.6	158	0.1	69	0.1	56	0.2
Geosciences, atmospheric sciences, and ocean sciences	11,792	1.7	5,277	1.3	6,515	2.3	1,790	2.7	2,150	7.2
Atmospheric sciences and meteorology	1,305	0.2	458	0.1	847	0.3	266	0.4	461	1.6
Geological and earth sciences	7,726	1.1	3,561	0.9	4,165	1.5	879	1.3	1,046	3.5
Ocean and marine sciences	2,761	0.4	1,258	0.3	1,503	0.5	360	0.5	330	1.1
Geosciences, atmospheric sciences, and ocean sciences nec	ne	ne	ne	ne	ne	ne	285	0.4	313	1.1
Mathematics and statistics	31,971	4.6	18,284	4.4	13,687	4.8	1,076	1.6	201	0.7
Applied mathematics	8,889	1.3	6,678	1.6	2,211	0.8	207	0.3	50	0.2
Mathematics	12,469	1.8	4,380	1.1	8,089	2.9	717	1.1	94	0.3

TABLE 4-1

Distribution of graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers across science, engineering, and health fields: 2020

(Number and percent)

Detailed field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Statistics	10,613	1.5	7,226	1.7	3,387	1.2	152	0.2	57	0.2
Multidisciplinary and interdisciplinary studies	14,533	2.1	10,980	2.6	3,553	1.3	832	1.3	679	2.3
Biological and physical sciences	1,808	0.3	993	0.2	815	0.3	119	0.2	56	0.2
Computational science	2,266	0.3	1,968	0.5	298	0.1	26	*	38	0.1
Data science and data analytics	2,166	0.3	2,124	0.5	42	*	57	0.1	22	0.1
International and global studies	1,514	0.2	1,341	0.3	173	0.1	13	*	16	0.1
Multidisciplinary and interdisciplinary studies nec	6,779	1.0	4,554	1.1	2,225	0.8	617	0.9	547	1.8
Natural resources and conservation	12,498	1.8	8,793	2.1	3,705	1.3	845	1.3	573	1.9
Environmental science and studies	5,866	0.8	4,067	1.0	1,799	0.6	279	0.4	167	0.6
Forestry, natural resources, and conservation	6,632	1.0	4,726	1.1	1,906	0.7	566	0.9	406	1.4
Physical sciences	42,616	6.1	6,275	1.5	36,341	12.8	6,937	10.6	2,890	9.7
Astronomy and astrophysics	1,506	0.2	76	*	1,430	0.5	544	0.8	569	1.9
Chemistry	22,485	3.2	3,096	0.7	19,389	6.8	3,294	5.0	906	3.1
Materials sciences	1,492	0.2	464	0.1	1,028	0.4	225	0.3	73	0.2
Physics	16,126	2.3	2,141	0.5	13,985	4.9	2,676	4.1	1,151	3.9
Physical sciences nec	1,007	0.1	498	0.1	509	0.2	198	0.3	191	0.6
Psychology	68,394	9.8	47,279	11.4	21,115	7.5	1,312	2.0	749	2.5
Applied psychology	22,506	3.2	17,673	4.3	4,833	1.7	92	0.1	64	0.2
Clinical psychology	7,148	1.0	3,480	0.8	3,668	1.3	84	0.1	16	0.1
Counseling psychology	17,339	2.5	15,979	3.9	1,360	0.5	31	*	26	0.1
Human development	2,241	0.3	1,499	0.4	742	0.3	122	0.2	137	0.5
Psychology, general	13,427	1.9	6,826	1.6	6,601	2.3	722	1.1	348	1.2
Research and experimental psychology	5,733	0.8	1,822	0.4	3,911	1.4	261	0.4	158	0.5
Social sciences	78,353	11.2	43,919	10.6	34,434	12.2	1,546	2.4	1,436	4.8
Agricultural and natural resource economics	1,242	0.2	603	0.1	639	0.2	33	0.1	52	0.2
Anthropology	6,463	0.9	2,167	0.5	4,296	1.5	153	0.2	81	0.3
Area, ethnic, cultural, gender, and group studies	5,124	0.7	2,642	0.6	2,482	0.9	226	0.3	134	0.5
Criminal justice and safety studies	6,662	1.0	5,674	1.4	988	0.3	17	*	12	*
Criminology	1,626	0.2	1,308	0.3	318	0.1	2	*	7	*
Economics (except agricultural and natural resource)	14,073	2.0	6,114	1.5	7,959	2.8	123	0.2	176	0.6
Geography and cartography	4,397	0.6	2,745	0.7	1,652	0.6	140	0.2	103	0.3
International relations and national security studies	7,730	1.1	7,322	1.8	408	0.1	68	0.1	51	0.2
Linguistics	2,850	0.4	1,164	0.3	1,686	0.6	41	0.1	39	0.1
Political science and government	8,438	1.2	3,072	0.7	5,366	1.9	148	0.2	64	0.2
Public policy analysis	8,899	1.3	6,352	1.5	2,547	0.9	229	0.3	361	1.2
Sociology and population studies	7,409	1.1	2,342	0.6	5,067	1.8	155	0.2	148	0.5
Urban studies and affairs	1,312	0.2	907	0.2	405	0.1	5	*	18	0.1
Social sciences, other	2,128	0.3	1,507	0.4	621	0.2	206	0.3	190	0.6
Engineering	157,729	22.6	86,450	20.9	71,279	25.2	8,462	12.9	3,921	13.2
Aerospace, aeronautical, and astronautical engineering	6,971	1.0	4,326	1.0	2,645	0.9	233	0.4	149	0.5

TABLE 4-1

Distribution of graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers across science, engineering, and health fields: 2020

(Number and percent)

Detailed field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Biological, biomedical, and biosystems engineering	12,775	1.8	4,536	1.1	8,239	2.9	1,696	2.6	525	1.8
Chemical, petroleum, and chemical-related engineering	10,554	1.5	2,942	0.7	7,612	2.7	1,157	1.8	330	1.1
Chemical engineering	9,457	1.4	2,426	0.6	7,031	2.5	1,108	1.7	274	0.9
Petroleum engineering	1,097	0.2	516	0.1	581	0.2	49	0.1	56	0.2
Civil, environmental, transportation and related engineering fields	18,304	2.6	10,819	2.6	7,485	2.6	1,006	1.5	488	1.6
Civil engineering	15,220	2.2	8,703	2.1	6,517	2.3	904	1.4	451	1.5
Architectural, environmental, construction and surveying engineering	3,084	0.4	2,116	0.5	968	0.3	102	0.2	37	0.1
Electrical, electronics, communications and computer engineering	43,032	6.2	25,312	6.1	17,720	6.3	1,302	2.0	706	2.4
Electrical, electronics, and communications engineering	31,440	4.5	16,746	4.0	14,694	5.2	1,242	1.9	647	2.2
Computer engineering	11,592	1.7	8,566	2.1	3,026	1.1	60	0.1	59	0.2
Industrial, manufacturing, systems engineering and operations research	14,869	2.1	11,030	2.7	3,839	1.4	194	0.3	155	0.5
Industrial and manufacturing engineering	7,982	1.1	5,569	1.3	2,413	0.9	83	0.1	53	0.2
Systems engineering and operations research	6,887	1.0	5,461	1.3	1,426	0.5	111	0.2	102	0.3
Mechanical engineering	25,782	3.7	14,305	3.5	11,477	4.1	1,149	1.7	469	1.6
Metallurgical, mining, materials and related engineering fields	7,181	1.0	2,299	0.6	4,882	1.7	630	1.0	299	1.0
Other engineering	18,261	2.6	10,881	2.6	7,380	2.6	1,095	1.7	800	2.7
Agricultural engineering	1,058	0.2	404	0.1	654	0.2	122	0.2	54	0.2
Engineering mechanics, physics, and science	2,208	0.3	740	0.2	1,468	0.5	199	0.3	177	0.6
Nuclear engineering	1,479	0.2	441	0.1	1,038	0.4	81	0.1	45	0.2
Engineering, other	13,516	1.9	9,296	2.2	4,220	1.5	693	1.1	524	1.8
Health	75,438	10.8	60,124	14.5	15,314	5.4	18,478	28.1	7,528	25.4
Clinical medicine[a]	34,544	5.0	29,748	7.2	4,796	1.7	16,287	24.8	6,500	21.9
Medical clinical sciences and clinical and medical laboratory sciences	1,370	0.2	927	0.2	443	0.2	430	0.7	167	0.6
Public health	33,174	4.8	28,821	7.0	4,353	1.5	914	1.4	616	2.1
Anesthesiology	ne	ne	ne	ne	ne	ne	466	0.7	122	0.4
Cardiology and cardiovascular disease	ne	ne	ne	ne	ne	ne	706	1.1	182	0.6
Endocrinology, diabetes, and metabolism	ne	ne	ne	ne	ne	ne	334	0.5	91	0.3
Gastroenterology	ne	ne	ne	ne	ne	ne	277	0.4	96	0.3
Hematology	ne	ne	ne	ne	ne	ne	429	0.7	164	0.6
Neurology and neurosurgery	ne	ne	ne	ne	ne	ne	1,491	2.3	469	1.6
Obstetrics and gynecology	ne	ne	ne	ne	ne	ne	289	0.4	93	0.3
Oncology and cancer research	ne	ne	ne	ne	ne	ne	1,541	2.3	644	2.2
Ophthalmology	ne	ne	ne	ne	ne	ne	456	0.7	287	1.0
Otorhinolaryngology	ne	ne	ne	ne	ne	ne	314	0.5	125	0.4
Pediatrics	ne	ne	ne	ne	ne	ne	1,337	2.0	643	2.2
Psychiatry	ne	ne	ne	ne	ne	ne	1,088	1.7	307	1.0
Pulmonary disease	ne	ne	ne	ne	ne	ne	296	0.5	119	0.4

TABLE 4-1

Distribution of graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers across science, engineering, and health fields: 2020

(Number and percent)

Detailed field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Radiological sciences	ne	ne	ne	ne	ne	ne	1,180	1.8	401	1.4
Surgery	ne	ne	ne	ne	ne	ne	1,193	1.8	507	1.7
Clinical medicine nec	ne	ne	ne	ne	ne	ne	3,546	5.4	1,467	4.9
Other health	40,894	5.9	30,376	7.3	10,518	3.7	2,191	3.3	1,028	3.5
Communication disorders sciences	17,606	2.5	16,762	4.0	844	0.3	82	0.1	49	0.2
Dental sciences	1,583	0.2	1,366	0.3	217	0.1	292	0.4	103	0.3
Kinesiology and exercise science	6,001	0.9	4,977	1.2	1,024	0.4	84	0.1	46	0.2
Nursing science	4,847	0.7	1,488	0.4	3,359	1.2	127	0.2	103	0.3
Pharmaceutical sciences	4,512	0.6	1,619	0.4	2,893	1.0	1,141	1.7	377	1.3
Other health nec	6,345	0.9	4,164	1.0	2,181	0.8	465	0.7	350	1.2

* = value < 0.05%; ne = not eligible.

nec = not elsewhere classified.

[a] Clinical medicine includes graduate students in public health and clinical medicine nec. Clinical medicine includes postdoctoral appointees and nonfaculty researchers in anesthesiology, cardiology, endocrinology, gastroenterology, hematology, neurology, obstetrics and gynecology, oncology and cancer research, ophthalmology, otorhinolaryngology, pediatrics, psychiatry, public health, pulmonary disease, radiological sciences, surgery, and clinical medicine nec.

Note(s):
"Field" refers to the field of the unit that reports postdoctoral appointees and doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Percentages may not add to total because of rounding. For more information on the mapping of GSS 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.

TABLE 4-2

Graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers, by detailed field and sex: 2020

(Number and percent)

Detailed field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Total number	Percent female	Total number	Percent female	Total number	Percent female	Total number	Percent female	Total number	Percent female
All detailed fields	697,813	48.4	414,478	51.2	283,335	44.3	65,681	41.8	29,661	41.8
Science	464,646	51.1	267,904	53.1	196,742	48.5	38,741	41.2	18,212	41.6
Agricultural and veterinary sciences	10,800	59.2	6,487	62.3	4,313	54.6	1,678	48.7	964	48.9
Agricultural sciences	9,380	57.7	5,589	60.4	3,791	53.6	1,046	42.4	650	44.2
Veterinary biomedical and clinical sciences	1,420	69.7	898	74.3	522	61.9	632	59.2	314	58.6
Biological and biomedical sciences	94,825	60.0	39,920	65.1	54,905	56.3	21,902	45.3	8,112	47.3
Biochemistry	5,537	51.9	889	55.7	4,648	51.2	1,863	39.9	800	40.5
Biology	15,649	60.2	8,381	64.0	7,268	55.8	2,169	45.4	776	47.4
Biomedical sciences	10,412	62.1	5,898	64.5	4,514	58.9	1,879	48.0	406	43.8
Biophysics	868	38.6	8	62.5	860	38.4	147	33.3	66	28.8
Biostatistics and bioinformatics	6,482	51.4	3,143	57.4	3,339	45.8	830	39.5	380	42.9
Biotechnology	3,244	59.7	3,143	59.6	101	65.3	96	39.6	95	40.0
Botany and plant biology	1,631	53.3	376	55.6	1,255	52.7	579	43.7	258	45.0
Cell, cellular biology, and anatomical sciences	5,962	56.9	954	60.3	5,008	56.2	1,661	46.7	548	46.9
Ecology and population biology	3,777	59.5	1,052	62.5	2,725	58.3	467	48.0	230	42.2
Epidemiology	5,185	73.2	3,153	74.3	2,032	71.4	307	60.3	126	63.5
Genetics	2,802	61.6	620	80.5	2,182	56.2	1,485	43.6	545	46.2
Microbiological sciences and immunology	5,773	60.1	1,649	67.0	4,124	57.3	2,028	48.1	750	52.7
Molecular biology	1,618	58.2	378	65.9	1,240	55.9	722	40.9	225	36.4
Neurobiology and neuroscience	5,820	57.6	545	65.0	5,275	56.9	2,075	45.1	789	48.5
Nutrition science	3,359	85.0	2,370	87.4	989	79.3	191	62.8	143	57.3
Pathology and experimental pathology	858	61.4	105	72.4	753	59.9	1,263	43.2	401	55.4
Pharmacology and toxicology	2,944	60.6	770	67.4	2,174	58.2	1,026	45.6	394	45.7
Physiology	5,802	56.4	3,044	58.3	2,758	54.2	1,804	48.4	731	52.9
Zoology and animal biology	2,047	56.2	869	59.1	1,178	54.0	397	42.3	137	45.3
Biological and biomedical sciences nec	5,055	62.4	2,573	66.2	2,482	58.4	913	45.6	312	47.8
Computer and information sciences	98,864	31.1	80,690	32.0	18,174	26.9	823	21.4	458	24.5
Artificial intelligence, informatics, and computer and information science topics	4,375	37.6	3,419	38.4	956	34.6	37	29.7	43	25.6
Computer and information sciences	29,107	25.4	23,625	25.8	5,482	23.7	187	17.6	104	20.2
Computer and information systems security	7,293	26.7	7,023	26.9	270	23.0	6	66.7	2	0.0
Computer science	32,328	27.1	22,670	28.3	9,658	24.4	466	18.9	218	21.1
Information science and studies	12,916	47.0	11,671	46.8	1,245	49.4	40	27.5	21	52.4
Information technology	6,023	42.5	5,618	42.4	405	43.0	18	61.1	14	35.7

TABLE 4-2

Graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers, by detailed field and sex: 2020

(Number and percent)

Detailed field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Total number	Percent female	Total number	Percent female	Total number	Percent female	Total number	Percent female	Total number	Percent female
Computer and information sciences nec	6,822	34.2	6,664	34.3	158	29.7	69	26.1	56	32.1
Geosciences, atmospheric sciences, and ocean sciences	11,792	48.9	5,277	50.0	6,515	48.1	1,790	39.9	2,150	31.0
Atmospheric sciences and meteorology	1,305	39.6	458	40.2	847	39.3	266	33.5	461	26.2
Geological and earth sciences	7,726	46.3	3,561	46.3	4,165	46.4	879	37.7	1,046	31.6
Ocean and marine sciences	2,761	60.6	1,258	64.1	1,503	57.7	360	49.2	330	40.3
Geosciences, atmospheric sciences, and ocean sciences nec	ne	ne	ne	ne	ne	ne	285	41.1	313	26.2
Mathematics and statistics	31,971	36.2	18,284	41.1	13,687	29.6	1,076	21.0	201	31.3
Applied mathematics	8,889	36.7	6,678	38.2	2,211	32.3	207	19.3	50	32.0
Mathematics	12,469	31.3	4,380	40.5	8,089	26.4	717	20.9	94	28.7
Statistics	10,613	41.4	7,226	44.2	3,387	35.5	152	23.7	57	35.1
Multidisciplinary and interdisciplinary studies	14,533	52.4	10,980	52.4	3,553	52.6	832	45.8	679	39.5
Biological and physical sciences	1,808	56.8	993	58.2	815	55.1	119	44.5	56	41.1
Computational science	2,266	30.4	1,968	31.4	298	24.2	26	42.3	38	13.2
Data science and data analytics	2,166	38.2	2,124	38.3	42	33.3	57	38.6	22	27.3
International and global studies	1,514	54.1	1,341	53.3	173	60.1	13	61.5	16	62.5
Multidisciplinary and interdisciplinary studies nec	6,779	62.8	4,554	66.4	2,225	55.3	617	46.5	547	41.0
Natural resources and conservation	12,498	58.7	8,793	60.0	3,705	55.6	845	43.0	573	39.3
Environmental science and studies	5,866	61.7	4,067	62.6	1,799	59.8	279	47.3	167	43.1
Forestry, natural resources, and conservation	6,632	56.0	4,726	57.8	1,906	51.7	566	40.8	406	37.7
Physical sciences	42,616	35.2	6,275	39.5	36,341	34.5	6,937	24.7	2,890	22.7
Astronomy and astrophysics	1,506	43.0	76	39.5	1,430	43.1	544	29.0	569	20.7
Chemistry	22,485	43.7	3,096	48.9	19,389	42.9	3,294	27.3	906	27.6
Materials sciences	1,492	32.6	464	30.2	1,028	33.8	225	24.9	73	20.5
Physics	16,126	22.0	2,141	23.3	13,985	21.8	2,676	20.7	1,151	19.6
Physical sciences nec	1,007	49.1	498	59.8	509	38.5	198	24.7	191	24.1
Psychology	68,394	79.0	47,279	81.1	21,115	74.3	1,312	63.9	749	66.5
Applied psychology	22,506	79.8	17,673	80.8	4,833	76.1	92	71.7	64	65.6
Clinical psychology	7,148	79.5	3,480	81.2	3,668	77.9	84	67.9	16	75.0
Counseling psychology	17,339	82.0	15,979	82.4	1,360	77.2	31	77.4	26	73.1
Human development	2,241	88.8	1,499	91.1	742	84.1	122	76.2	137	83.2
Psychology, general	13,427	74.6	6,826	76.6	6,601	72.6	722	61.5	348	61.5
Research and experimental psychology	5,733	72.7	1,822	81.2	3,911	68.7	261	59.4	158	61.4
Social sciences	78,353	53.9	43,919	55.5	34,434	51.9	1,546	53.0	1,436	54.3
Agricultural and natural resource economics	1,242	47.0	603	47.8	639	46.3	33	45.5	52	46.2

TABLE 4-2

Graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers, by detailed field and sex: 2020

(Number and percent)

Detailed field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Total number	Percent female	Total number	Percent female	Total number	Percent female	Total number	Percent female	Total number	Percent female
Anthropology	6,463	66.5	2,167	69.2	4,296	65.2	153	65.4	81	58.0
Area, ethnic, cultural, gender, and group studies	5,124	66.2	2,642	66.3	2,482	66.2	226	57.5	134	63.4
Criminal justice and safety studies	6,662	62.0	5,674	63.1	988	56.0	17	76.5	12	91.7
Criminology	1,626	71.0	1,308	71.9	318	67.6	2	100.0	7	71.4
Economics (except agricultural and natural resource)	14,073	37.4	6,114	40.6	7,959	34.9	123	35.8	176	43.2
Geography and cartography	4,397	48.5	2,745	45.3	1,652	53.8	140	47.9	103	37.9
International relations and national security studies	7,730	48.7	7,322	48.9	408	45.6	68	36.8	51	41.2
Linguistics	2,850	60.4	1,164	64.9	1,686	57.2	41	53.7	39	64.1
Political science and government	8,438	45.1	3,072	46.1	5,366	44.4	148	37.2	64	56.3
Public policy analysis	8,899	57.0	6,352	58.6	2,547	53.2	229	62.9	361	54.6
Sociology and population studies	7,409	65.7	2,342	69.8	5,067	63.9	155	59.4	148	60.8
Urban studies and affairs	1,312	60.0	907	59.8	405	60.5	5	60.0	18	33.3
Social sciences, other	2,128	60.2	1,507	62.4	621	54.9	206	52.4	190	62.1
Engineering	157,729	27.0	86,450	26.5	71,279	27.6	8,462	24.8	3,921	23.0
Aerospace, aeronautical, and astronautical engineering	6,971	17.9	4,326	17.6	2,645	18.6	233	15.5	149	16.8
Biological, biomedical, and biosystems engineering	12,775	45.0	4,536	47.0	8,239	43.9	1,696	35.8	525	36.8
Chemical, petroleum, and chemical-related engineering	10,554	31.8	2,942	30.7	7,612	32.3	1,157	27.7	330	26.4
Chemical engineering	9,457	33.4	2,426	33.4	7,031	33.5	1,108	28.5	274	29.2
Petroleum engineering	1,097	18.0	516	18.2	581	17.7	49	10.2	56	12.5
Civil, environmental, transportation and related engineering fields	18,304	34.8	10,819	35.3	7,485	34.1	1,006	28.1	488	24.2
Civil engineering	15,220	32.6	8,703	32.7	6,517	32.3	904	27.5	451	23.1
Architectural, environmental, construction and surveying engineering	3,084	45.8	2,116	45.6	968	46.4	102	33.3	37	37.8
Electrical, electronics, communications and computer engineering	43,032	21.9	25,312	23.3	17,720	19.8	1,302	16.7	706	16.1
Electrical, electronics, and communications engineering	31,440	20.2	16,746	20.8	14,694	19.4	1,242	16.7	647	15.6
Computer engineering	11,592	26.4	8,566	28.2	3,026	21.3	60	15.0	59	22.0
Industrial, manufacturing, systems engineering and operations research	14,869	30.1	11,030	29.8	3,839	31.0	194	18.6	155	20.0
Industrial and manufacturing engineering	7,982	31.7	5,569	30.9	2,413	33.4	83	19.3	53	20.8
Systems engineering and operations research	6,887	28.2	5,461	28.6	1,426	27.0	111	18.0	102	19.6
Mechanical engineering	25,782	18.2	14,305	16.8	11,477	20.0	1,149	17.8	469	16.6

TABLE 4-2

Graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers, by detailed field and sex: 2020

(Number and percent)

Detailed field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Total number	Percent female	Total number	Percent female	Total number	Percent female	Total number	Percent female	Total number	Percent female
Metallurgical, mining, materials and related engineering fields	7,181	31.9	2,299	32.9	4,882	31.4	630	21.6	299	22.4
Other engineering	18,261	27.3	10,881	27.3	7,380	27.3	1,095	23.9	800	23.4
Agricultural engineering	1,058	41.1	404	44.3	654	39.1	122	36.9	54	31.5
Engineering mechanics, physics, and science	2,208	27.0	740	28.6	1,468	26.2	199	17.1	177	18.6
Nuclear engineering	1,479	18.6	441	18.6	1,038	18.6	81	14.8	45	24.4
Engineering, other	13,516	27.2	9,296	26.9	4,220	28.1	693	24.7	524	24.0
Health	75,438	76.4	60,124	78.4	15,314	68.9	18,478	50.7	7,528	52.2
Clinical medicine[a]	34,544	75.5	29,748	76.2	4,796	70.9	16,287	50.4	6,500	51.9
Medical clinical sciences and clinical and medical laboratory sciences	1,370	61.0	927	60.3	443	62.5	430	52.3	167	58.7
Public health	33,174	76.1	28,821	76.7	4,353	71.7	914	64.2	616	66.2
Anesthesiology	ne	ne	ne	ne	ne	ne	466	45.3	122	46.7
Cardiology and cardiovascular disease	ne	ne	ne	ne	ne	ne	706	43.6	182	46.2
Endocrinology, diabetes, and metabolism	ne	ne	ne	ne	ne	ne	334	50.6	91	57.1
Gastroenterology	ne	ne	ne	ne	ne	ne	277	46.2	96	53.1
Hematology	ne	ne	ne	ne	ne	ne	429	48.3	164	48.2
Neurology and neurosurgery	ne	ne	ne	ne	ne	ne	1,491	51.5	469	53.5
Obstetrics and gynecology	ne	ne	ne	ne	ne	ne	289	66.8	93	79.6
Oncology and cancer research	ne	ne	ne	ne	ne	ne	1,541	48.5	644	45.2
Ophthalmology	ne	ne	ne	ne	ne	ne	456	49.3	287	43.2
Otorhinolaryngology	ne	ne	ne	ne	ne	ne	314	48.7	125	49.6
Pediatrics	ne	ne	ne	ne	ne	ne	1,337	59.2	643	53.7
Psychiatry	ne	ne	ne	ne	ne	ne	1,088	61.6	307	62.2
Pulmonary disease	ne	ne	ne	ne	ne	ne	296	50.3	119	52.1
Radiological sciences	ne	ne	ne	ne	ne	ne	1,180	37.5	401	30.2
Surgery	ne	ne	ne	ne	ne	ne	1,193	43.4	507	47.9
Clinical medicine nec	ne	ne	ne	ne	ne	ne	3,546	48.6	1,467	53.2
Other health	40,894	77.2	30,376	80.4	10,518	68.0	2,191	52.4	1,028	54.4
Communication disorders sciences	17,606	95.1	16,762	95.8	844	80.9	82	67.1	49	71.4
Dental sciences	1,583	54.3	1,366	53.9	217	56.7	292	54.5	103	52.4
Kinesiology and exercise science	6,001	49.5	4,977	49.6	1,024	49.1	84	56.0	46	47.8
Nursing science	4,847	87.3	1,488	87.8	3,359	87.1	127	89.0	103	84.5
Pharmaceutical sciences	4,512	57.2	1,619	64.1	2,893	53.3	1,141	44.2	377	41.1
Other health nec	6,345	66.2	4,164	67.9	2,181	62.9	465	57.8	350	58.9

ne = not eligible.

nec = not elsewhere classified.

[a] Clinical medicine includes graduate students in public health and in medical clinical sciences and clinical and medical laboratory sciences. Clinical medicine includes postdoctoral appointees and nonfaculty researchers in anesthesiology, cardiology, endocrinology, gastroenterology, hematology, neurology, obstetrics and gynecology, oncology and cancer research, ophthalmology, otorhinolaryngology, pediatrics, psychiatry, public health, pulmonary disease, radiological sciences, surgery, and clinical medicine nec.

Note(s):
"Field" refers to the field of the unit that reports postdoctoral appointees and doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Percentages may not add to total because of rounding. For more information on the mapping of GSS 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.

TABLE 4-3

Master's and doctoral students within science, engineering, and health fields, by enrollment intensity: 2020

(Number and percent)

Detailed field	All graduate students								Master's students								Doctoral students							
	Total		Full time				Part time		Total		Full time				Part time		Total		Full time				Part time	
			All full time		First time, full time						All full time		First time, full time						All full time		First time, full time			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
All detailed fields	697,813	100.0	491,515	100.0	143,269	100.0	206,298	100.0	414,478	100.0	243,859	100.0	102,096	100.0	170,619	100.0	283,335	100.0	247,656	100.0	41,173	100.0	35,679	100.0
Science	464,646	66.6	330,541	67.2	95,699	66.8	134,105	65.0	267,904	64.6	155,502	63.8	65,885	64.5	112,402	65.9	196,742	69.4	175,039	70.7	29,814	72.4	21,703	60.8
Agricultural and veterinary sciences	10,800	1.5	7,271	1.5	1,730	1.2	3,529	1.7	6,487	1.6	3,731	1.5	1,291	1.3	2,756	1.6	4,313	1.5	3,540	1.4	439	1.1	773	2.2
Agricultural sciences	9,380	1.3	6,485	1.3	1,526	1.1	2,895	1.4	5,589	1.3	3,402	1.4	1,157	1.1	2,187	1.3	3,791	1.3	3,083	1.2	369	0.9	708	2.0
Veterinary biomedical and clinical sciences	1,420	0.2	786	0.2	204	0.1	634	0.3	898	0.2	329	0.1	134	0.1	569	0.3	522	0.2	457	0.2	70	0.2	65	0.2
Biological and biomedical sciences	94,825	13.6	77,580	15.8	23,141	16.2	17,245	8.4	39,920	9.6	26,473	10.9	14,311	14.0	13,447	7.9	54,905	19.4	51,107	20.6	8,830	21.4	3,798	10.6
Biochemistry	5,537	0.8	4,950	1.0	1,079	0.8	587	0.3	889	0.2	613	0.3	354	0.3	276	0.2	4,648	1.6	4,337	1.8	725	1.8	311	0.9
Biology	15,649	2.2	11,094	2.3	3,140	2.2	4,555	2.2	8,381	2.0	4,504	1.8	2,023	2.0	3,877	2.3	7,268	2.6	6,590	2.7	1,117	2.7	678	1.9
Biomedical sciences	10,412	1.5	9,357	1.9	4,518	3.2	1,055	0.5	5,898	1.4	5,097	2.1	3,494	3.4	801	0.5	4,514	1.6	4,260	1.7	1,024	2.5	254	0.7
Biophysics	868	0.1	852	0.2	138	0.1	16	*	8	*	7	*	2	*	1	*	860	0.3	845	0.3	136	0.3	15	*
Biostatistics and bioinformatics	6,482	0.9	5,285	1.1	1,654	1.2	1,197	0.6	3,143	0.8	2,256	0.9	1,140	1.1	887	0.5	3,339	1.2	3,029	1.2	514	1.2	310	0.9
Biotechnology	3,244	0.5	1,392	0.3	573	0.4	1,852	0.9	3,143	0.8	1,296	0.5	558	0.5	1,847	1.1	101	*	96	*	15	*	5	*
Botany and plant biology	1,631	0.2	1,487	0.3	270	0.2	144	0.1	376	0.1	319	0.1	93	0.1	57	*	1,255	0.4	1,168	0.5	177	0.4	87	0.2
Cell, cellular biology, and anatomical sciences	5,962	0.9	5,554	1.1	1,260	0.9	408	0.2	954	0.2	756	0.3	457	0.4	198	0.1	5,008	1.8	4,798	1.9	803	2.0	210	0.6
Ecology and population biology	3,777	0.5	3,133	0.6	670	0.5	644	0.3	1,052	0.3	717	0.3	287	0.3	335	0.2	2,725	1.0	2,416	1.0	383	0.9	309	0.9
Epidemiology	5,185	0.7	4,109	0.8	1,575	1.1	1,076	0.5	3,153	0.8	2,405	1.0	1,260	1.2	748	0.4	2,032	0.7	1,704	0.7	315	0.8	328	0.9
Genetics	2,802	0.4	2,606	0.5	515	0.4	196	0.1	620	0.1	506	0.2	267	0.3	114	0.1	2,182	0.8	2,100	0.8	248	0.6	82	0.2
Microbiological sciences and immunology	5,773	0.8	4,674	1.0	921	0.6	1,099	0.5	1,649	0.4	744	0.3	359	0.4	905	0.5	4,124	1.5	3,930	1.6	562	1.4	194	0.5
Molecular biology	1,618	0.2	1,390	0.3	345	0.2	228	0.1	378	0.1	230	0.1	133	0.1	148	0.1	1,240	0.4	1,160	0.5	212	0.5	80	0.2
Neurobiology and neuroscience	5,820	0.8	5,568	1.1	1,070	0.7	252	0.1	545	0.1	409	0.2	219	0.2	136	0.1	5,275	1.9	5,159	2.1	851	2.1	116	0.3
Nutrition science	3,359	0.5	2,436	0.5	918	0.6	923	0.4	2,370	0.6	1,574	0.6	783	0.8	796	0.5	989	0.3	862	0.3	135	0.3	127	0.4
Pathology and experimental pathology	858	0.1	801	0.2	157	0.1	57	*	105	*	87	*	53	0.1	18	*	753	0.3	714	0.3	104	0.3	39	0.1
Pharmacology and toxicology	2,944	0.4	2,468	0.5	504	0.4	476	0.2	770	0.2	391	0.2	213	0.2	379	0.2	2,174	0.8	2,077	0.8	291	0.7	97	0.3
Physiology	5,802	0.8	4,809	1.0	1,691	1.2	993	0.5	3,044	0.7	2,245	0.9	1,328	1.3	799	0.5	2,758	1.0	2,564	1.0	363	0.9	194	0.5
Zoology and animal biology	2,047	0.3	1,607	0.3	329	0.2	440	0.2	869	0.2	570	0.2	159	0.2	299	0.2	1,178	0.4	1,037	0.4	170	0.4	141	0.4
Biological and biomedical sciences nec	5,055	0.7	4,008	0.8	1,814	1.3	1,047	0.5	2,573	0.6	1,747	0.7	1,129	1.1	826	0.5	2,482	0.9	2,261	0.9	685	1.7	221	0.6
Computer and information sciences	98,864	14.2	55,402	11.3	15,037	10.5	43,462	21.1	80,690	19.5	39,929	16.4	12,547	12.3	40,761	23.9	18,174	6.4	15,473	6.2	2,490	6.0	2,701	7.6

TABLE 4-3

Master's and doctoral students within science, engineering, and health fields, by enrollment intensity: 2020

(Number and percent)

Detailed field	All graduate students								Master's students								Doctoral students							
	Total		Full time				Part time		Total		Full time				Part time		Total		Full time				Part time	
			All full time		First time, full time						All full time		First time, full time						All full time		First time, full time			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Artificial intelligence, informatics, and computer and information science topics	4,375	0.6	2,765	0.6	1,031	0.7	1,610	0.8	3,419	0.8	1,919	0.8	891	0.9	1,500	0.9	956	0.3	846	0.3	140	0.3	110	0.3
Computer and information sciences	29,107	4.2	13,486	2.7	3,186	2.2	15,621	7.6	23,625	5.7	8,932	3.7	2,506	2.5	14,693	8.6	5,482	1.9	4,554	1.8	680	1.7	928	2.6
Computer and information systems security	7,293	1.0	2,079	0.4	735	0.5	5,214	2.5	7,023	1.7	1,968	0.8	696	0.7	5,055	3.0	270	0.1	111	*	39	0.1	159	0.4
Computer science	32,328	4.6	23,463	4.8	5,781	4.0	8,865	4.3	22,670	5.5	14,859	6.1	4,421	4.3	7,811	4.6	9,658	3.4	8,604	3.5	1,360	3.3	1,054	3.0
Information science and studies	12,916	1.9	6,183	1.3	2,032	1.4	6,733	3.3	11,671	2.8	5,241	2.1	1,832	1.8	6,430	3.8	1,245	0.4	942	0.4	200	0.5	303	0.8
Information technology	6,023	0.9	3,276	0.7	1,070	0.7	2,747	1.3	5,618	1.4	2,946	1.2	1,013	1.0	2,672	1.6	405	0.1	330	0.1	57	0.1	75	0.2
Computer and information sciences nec	6,822	1.0	4,150	0.8	1,202	0.8	2,672	1.3	6,664	1.6	4,064	1.7	1,188	1.2	2,600	1.5	158	0.1	86	*	14	*	72	0.2
Geosciences, atmospheric sciences, and ocean sciences	11,792	1.7	9,456	1.9	2,470	1.7	2,336	1.1	5,277	1.3	3,649	1.5	1,494	1.5	1,628	1.0	6,515	2.3	5,807	2.3	976	2.4	708	2.0
Atmospheric sciences and meteorology	1,305	0.2	1,156	0.2	251	0.2	149	0.1	458	0.1	398	0.2	146	0.1	60	*	847	0.3	758	0.3	105	0.3	89	0.2
Geological and earth sciences	7,726	1.1	6,004	1.2	1,582	1.1	1,722	0.8	3,561	0.9	2,316	0.9	950	0.9	1,245	0.7	4,165	1.5	3,688	1.5	632	1.5	477	1.3
Ocean and marine sciences	2,761	0.4	2,296	0.5	637	0.4	465	0.2	1,258	0.3	935	0.4	398	0.4	323	0.2	1,503	0.5	1,361	0.5	239	0.6	142	0.4
Geosciences, atmospheric sciences, and ocean sciences nec	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Mathematics and statistics	31,971	4.6	24,041	4.9	7,590	5.3	7,930	3.8	18,284	4.4	11,622	4.8	5,329	5.2	6,662	3.9	13,687	4.8	12,419	5.0	2,261	5.5	1,268	3.6
Applied mathematics	8,889	1.3	7,032	1.4	2,763	1.9	1,857	0.9	6,678	1.6	5,011	2.1	2,411	2.4	1,667	1.0	2,211	0.8	2,021	0.8	352	0.9	190	0.5
Mathematics	12,469	1.8	9,558	1.9	2,313	1.6	2,911	1.4	4,380	1.1	2,206	0.9	947	0.9	2,174	1.3	8,089	2.9	7,352	3.0	1,366	3.3	737	2.1
Statistics	10,613	1.5	7,451	1.5	2,514	1.8	3,162	1.5	7,226	1.7	4,405	1.8	1,971	1.9	2,821	1.7	3,387	1.2	3,046	1.2	543	1.3	341	1.0
Multidisciplinary and interdisciplinary studies	14,533	2.1	9,039	1.8	3,507	2.4	5,494	2.7	10,980	2.6	6,169	2.5	2,929	2.9	4,811	2.8	3,553	1.3	2,870	1.2	578	1.4	683	1.9
Biological and physical sciences	1,808	0.3	1,484	0.3	571	0.4	324	0.2	993	0.2	754	0.3	419	0.4	239	0.1	815	0.3	730	0.3	152	0.4	85	0.2
Computational science	2,266	0.3	1,056	0.2	421	0.3	1,210	0.6	1,968	0.5	824	0.3	378	0.4	1,144	0.7	298	0.1	232	0.1	43	0.1	66	0.2
Data science and data analytics	2,166	0.3	1,174	0.2	456	0.3	992	0.5	2,124	0.5	1,135	0.5	442	0.4	989	0.6	42	*	39	*	14	*	3	*
International and global studies	1,514	0.2	926	0.2	399	0.3	588	0.3	1,341	0.3	800	0.3	378	0.4	541	0.3	173	0.1	126	0.1	21	0.1	47	0.1
Multidisciplinary and interdisciplinary studies nec	6,779	1.0	4,399	0.9	1,660	1.2	2,380	1.2	4,554	1.1	2,656	1.1	1,312	1.3	1,898	1.1	2,225	0.8	1,743	0.7	348	0.8	482	1.4
Natural resources and conservation	12,498	1.8	8,448	1.7	2,849	2.0	4,050	2.0	8,793	2.1	5,536	2.3	2,417	2.4	3,257	1.9	3,705	1.3	2,912	1.2	432	1.0	793	2.2
Environmental science and studies	5,866	0.8	3,983	0.8	1,484	1.0	1,883	0.9	4,067	1.0	2,579	1.1	1,256	1.2	1,488	0.9	1,799	0.6	1,404	0.6	228	0.6	395	1.1

TABLE 4-3

Master's and doctoral students within science, engineering, and health fields, by enrollment intensity: 2020

(Number and percent)

Detailed field	All graduate students								Master's students								Doctoral students							
	Total		Full time				Part time		Total		Full time				Part time		Total		Full time				Part time	
			All full time		First time, full time						All full time		First time, full time						All full time		First time, full time			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Forestry, natural resources, and conservation	6,632	1.0	4,465	0.9	1,365	1.0	2,167	1.1	4,726	1.1	2,957	1.2	1,161	1.1	1,769	1.0	1,906	0.7	1,508	0.6	204	0.5	398	1.1
Physical sciences	42,616	6.1	37,638	7.7	7,012	4.9	4,978	2.4	6,275	1.5	3,686	1.5	1,430	1.4	2,589	1.5	36,341	12.8	33,952	13.7	5,582	13.6	2,389	6.7
Astronomy and astrophysics	1,506	0.2	1,438	0.3	275	0.2	68	*	76	*	48	*	21	*	28	*	1,430	0.5	1,390	0.6	254	0.6	40	0.1
Chemistry	22,485	3.2	20,033	4.1	3,734	2.6	2,452	1.2	3,096	0.7	1,816	0.7	679	0.7	1,280	0.8	19,389	6.8	18,217	7.4	3,055	7.4	1,172	3.3
Materials sciences	1,492	0.2	1,276	0.3	233	0.2	216	0.1	464	0.1	302	0.1	102	0.1	162	0.1	1,028	0.4	974	0.4	131	0.3	54	0.2
Physics	16,126	2.3	14,271	2.9	2,603	1.8	1,855	0.9	2,141	0.5	1,317	0.5	539	0.5	824	0.5	13,985	4.9	12,954	5.2	2,064	5.0	1,031	2.9
Physical sciences nec	1,007	0.1	620	0.1	167	0.1	387	0.2	498	0.1	203	0.1	89	0.1	295	0.2	509	0.2	417	0.2	78	0.2	92	0.3
Psychology	68,394	9.8	46,168	9.4	14,706	10.3	22,226	10.8	47,279	11.4	28,716	11.8	11,226	11.0	18,563	10.9	21,115	7.5	17,452	7.0	3,480	8.5	3,663	10.3
Applied psychology	22,506	3.2	13,379	2.7	4,929	3.4	9,127	4.4	17,673	4.3	10,018	4.1	4,246	4.2	7,655	4.5	4,833	1.7	3,361	1.4	683	1.7	1,472	4.1
Clinical psychology	7,148	1.0	5,217	1.1	1,364	1.0	1,931	0.9	3,480	0.8	2,141	0.9	737	0.7	1,339	0.8	3,668	1.3	3,076	1.2	627	1.5	592	1.7
Counseling psychology	17,339	2.5	11,050	2.2	3,353	2.3	6,289	3.0	15,979	3.9	10,010	4.1	3,118	3.1	5,969	3.5	1,360	0.5	1,040	0.4	235	0.6	320	0.9
Human development	2,241	0.3	1,414	0.3	528	0.4	827	0.4	1,499	0.4	842	0.3	411	0.4	657	0.4	742	0.3	572	0.2	117	0.3	170	0.5
Psychology, general	13,427	1.9	10,360	2.1	3,356	2.3	3,067	1.5	6,826	1.6	4,592	1.9	2,177	2.1	2,234	1.3	6,601	2.3	5,768	2.3	1,179	2.9	833	2.3
Research and experimental psychology	5,733	0.8	4,748	1.0	1,176	0.8	985	0.5	1,822	0.4	1,113	0.5	537	0.5	709	0.4	3,911	1.4	3,635	1.5	639	1.6	276	0.8
Social sciences	78,353	11.2	55,498	11.3	17,657	12.3	22,855	11.1	43,919	10.6	25,991	10.7	12,911	12.6	17,928	10.5	34,434	12.2	29,507	11.9	4,746	11.5	4,927	13.8
Agricultural and natural resource economics	1,242	0.2	1,031	0.2	301	0.2	211	0.1	603	0.1	466	0.2	202	0.2	137	0.1	639	0.2	565	0.2	99	0.2	74	0.2
Anthropology	6,463	0.9	5,066	1.0	1,125	0.8	1,397	0.7	2,167	0.5	1,375	0.6	647	0.6	792	0.5	4,296	1.5	3,691	1.5	478	1.2	605	1.7
Area, ethnic, cultural, gender, and group studies	5,124	0.7	3,838	0.8	1,179	0.8	1,286	0.6	2,642	0.6	1,813	0.7	873	0.9	829	0.5	2,482	0.9	2,025	0.8	306	0.7	457	1.3
Criminal justice and safety studies	6,662	1.0	3,159	0.6	1,313	0.9	3,503	1.7	5,674	1.4	2,417	1.0	1,142	1.1	3,257	1.9	988	0.3	742	0.3	171	0.4	246	0.7
Criminology	1,626	0.2	932	0.2	391	0.3	694	0.3	1,308	0.3	672	0.3	353	0.3	636	0.4	318	0.1	260	0.1	38	0.1	58	0.2
Economics (except agricultural and natural resource)	14,073	2.0	11,786	2.4	3,518	2.5	2,287	1.1	6,114	1.5	4,429	1.8	2,272	2.2	1,685	1.0	7,959	2.8	7,357	3.0	1,246	3.0	602	1.7
Geography and cartography	4,397	0.6	2,758	0.6	844	0.6	1,639	0.8	2,745	0.7	1,391	0.6	629	0.6	1,354	0.8	1,652	0.6	1,367	0.6	215	0.5	285	0.8
International relations and national security studies	7,730	1.1	4,709	1.0	2,197	1.5	3,021	1.5	7,322	1.8	4,379	1.8	2,142	2.1	2,943	1.7	408	0.1	330	0.1	55	0.1	78	0.2
Linguistics	2,850	0.4	2,189	0.4	522	0.4	661	0.3	1,164	0.3	672	0.3	281	0.3	492	0.3	1,686	0.6	1,517	0.6	241	0.6	169	0.5
Political science and government	8,438	1.2	6,243	1.3	1,537	1.1	2,195	1.1	3,072	0.7	1,485	0.6	767	0.8	1,587	0.9	5,366	1.9	4,758	1.9	770	1.9	608	1.7
Public policy analysis	8,899	1.3	6,086	1.2	2,580	1.8	2,813	1.4	6,352	1.5	4,373	1.8	2,240	2.2	1,979	1.2	2,547	0.9	1,713	0.7	340	0.8	834	2.3

TABLE 4-3

Master's and doctoral students within science, engineering, and health fields, by enrollment intensity: 2020

(Number and percent)

Detailed field	All graduate students								Master's students								Doctoral students							
	Total		Full time				Part time		Total		Full time				Part time		Total		Full time				Part time	
			All full time		First time, full time						All full time		First time, full time						All full time		First time, full time			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Sociology and population studies	7,409	1.1	5,659	1.2	1,325	0.9	1,750	0.8	2,342	0.6	1,271	0.5	653	0.6	1,071	0.6	5,067	1.8	4,388	1.8	672	1.6	679	1.9
Urban studies and affairs	1,312	0.2	651	0.1	268	0.2	661	0.3	907	0.2	409	0.2	226	0.2	498	0.3	405	0.1	242	0.1	42	0.1	163	0.5
Social sciences, other	2,128	0.3	1,391	0.3	557	0.4	737	0.4	1,507	0.4	839	0.3	484	0.5	668	0.4	621	0.2	552	0.2	73	0.2	69	0.2
Engineering	157,729	22.6	111,240	22.6	27,995	19.5	46,489	22.5	86,450	20.9	49,179	20.2	18,668	18.3	37,271	21.8	71,279	25.2	62,061	25.1	9,327	22.7	9,218	25.8
Aerospace, aeronautical, and astronautical engineering	6,971	1.0	4,599	0.9	1,301	0.9	2,372	1.1	4,326	1.0	2,298	0.9	943	0.9	2,028	1.2	2,645	0.9	2,301	0.9	358	0.9	344	1.0
Biological, biomedical, and biosystems engineering	12,775	1.8	11,075	2.3	3,295	2.3	1,700	0.8	4,536	1.1	3,416	1.4	1,882	1.8	1,120	0.7	8,239	2.9	7,659	3.1	1,413	3.4	580	1.6
Chemical, petroleum, and chemical-related engineering	10,554	1.5	9,030	1.8	2,019	1.4	1,524	0.7	2,942	0.7	1,898	0.8	778	0.8	1,044	0.6	7,612	2.7	7,132	2.9	1,241	3.0	480	1.3
Chemical engineering	9,457	1.4	8,171	1.7	1,855	1.3	1,286	0.6	2,426	0.6	1,554	0.6	701	0.7	872	0.5	7,031	2.5	6,617	2.7	1,154	2.8	414	1.2
Petroleum engineering	1,097	0.2	859	0.2	164	0.1	238	0.1	516	0.1	344	0.1	77	0.1	172	0.1	581	0.2	515	0.2	87	0.2	66	0.2
Civil, environmental, transportation and related engineering fields	18,304	2.6	12,861	2.6	3,453	2.4	5,443	2.6	10,819	2.6	6,487	2.7	2,583	2.5	4,332	2.5	7,485	2.6	6,374	2.6	870	2.1	1,111	3.1
Civil engineering	15,220	2.2	10,778	2.2	2,920	2.0	4,442	2.2	8,703	2.1	5,241	2.1	2,174	2.1	3,462	2.0	6,517	2.3	5,537	2.2	746	1.8	980	2.7
Architectural, environmental, construction and surveying engineering	3,084	0.4	2,083	0.4	533	0.4	1,001	0.5	2,116	0.5	1,246	0.5	409	0.4	870	0.5	968	0.3	837	0.3	124	0.3	131	0.4
Electrical, electronics, communications and computer engineering	43,032	6.2	30,503	6.2	6,640	4.6	12,529	6.1	25,312	6.1	15,329	6.3	4,716	4.6	9,983	5.9	17,720	6.3	15,174	6.1	1,924	4.7	2,546	7.1
Electrical, electronics, and communications engineering	31,440	4.5	22,164	4.5	4,745	3.3	9,276	4.5	16,746	4.0	9,588	3.9	3,147	3.1	7,158	4.2	14,694	5.2	12,576	5.1	1,598	3.9	2,118	5.9
Computer engineering	11,592	1.7	8,339	1.7	1,895	1.3	3,253	1.6	8,566	2.1	5,741	2.4	1,569	1.5	2,825	1.7	3,026	1.1	2,598	1.0	326	0.8	428	1.2
Industrial, manufacturing, systems engineering and operations research	14,869	2.1	7,728	1.6	2,398	1.7	7,141	3.5	11,030	2.7	4,820	2.0	1,953	1.9	6,210	3.6	3,839	1.4	2,908	1.2	445	1.1	931	2.6
Industrial and manufacturing engineering	7,982	1.1	4,702	1.0	1,253	0.9	3,280	1.6	5,569	1.3	2,810	1.2	976	1.0	2,759	1.6	2,413	0.9	1,892	0.8	277	0.7	521	1.5
Systems engineering and operations research	6,887	1.0	3,026	0.6	1,145	0.8	3,861	1.9	5,461	1.3	2,010	0.8	977	1.0	3,451	2.0	1,426	0.5	1,016	0.4	168	0.4	410	1.1
Mechanical engineering	25,782	3.7	18,680	3.8	4,785	3.3	7,102	3.4	14,305	3.5	8,461	3.5	3,343	3.3	5,844	3.4	11,477	4.1	10,219	4.1	1,442	3.5	1,258	3.5
Metallurgical, mining, materials and related engineering fields	7,181	1.0	6,063	1.2	1,412	1.0	1,118	0.5	2,299	0.6	1,566	0.6	690	0.7	733	0.4	4,882	1.7	4,497	1.8	722	1.8	385	1.1
Other engineering	18,261	2.6	10,701	2.2	2,692	1.9	7,560	3.7	10,881	2.6	4,904	2.0	1,780	1.7	5,977	3.5	7,380	2.6	5,797	2.3	912	2.2	1,583	4.4

TABLE 4-3

Master's and doctoral students within science, engineering, and health fields, by enrollment intensity: 2020

(Number and percent)

Detailed field	All graduate students								Master's students								Doctoral students							
	Total		Full time				Part time		Total		Full time				Part time		Total		Full time				Part time	
			All full time		First time, full time						All full time		First time, full time						All full time		First time, full time			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Agricultural engineering	1,058	0.2	833	0.2	133	0.1	225	0.1	404	0.1	282	0.1	75	0.1	122	0.1	654	0.2	551	0.2	58	0.1	103	0.3
Engineering mechanics, physics, and science	2,208	0.3	1,810	0.4	428	0.3	398	0.2	740	0.2	470	0.2	217	0.2	270	0.2	1,468	0.5	1,340	0.5	211	0.5	128	0.4
Nuclear engineering	1,479	0.2	1,144	0.2	215	0.2	335	0.2	441	0.1	304	0.1	110	0.1	137	0.1	1,038	0.4	840	0.3	105	0.3	198	0.6
Engineering, other	13,516	1.9	6,914	1.4	1,916	1.3	6,602	3.2	9,296	2.2	3,848	1.6	1,378	1.3	5,448	3.2	4,220	1.5	3,066	1.2	538	1.3	1,154	3.2
Health	75,438	10.8	49,734	10.1	19,575	13.7	25,704	12.5	60,124	14.5	39,178	16.1	17,543	17.2	20,946	12.3	15,314	5.4	10,556	4.3	2,032	4.9	4,758	13.3
Clinical medicine[a]	34,544	5.0	20,528	4.2	8,911	6.2	14,016	6.8	29,748	7.2	17,186	7.0	8,213	8.0	12,562	7.4	4,796	1.7	3,342	1.3	698	1.7	1,454	4.1
Medical clinical sciences and clinical and medical laboratory sciences	1,370	0.2	786	0.2	362	0.3	584	0.3	927	0.2	497	0.2	286	0.3	430	0.3	443	0.2	289	0.1	76	0.2	154	0.4
Public health	33,174	4.8	19,742	4.0	8,549	6.0	13,432	6.5	28,821	7.0	16,689	6.8	7,927	7.8	12,132	7.1	4,353	1.5	3,053	1.2	622	1.5	1,300	3.6
Anesthesiology	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Cardiology and cardiovascular disease	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Endocrinology, diabetes, and metabolism	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Gastroenterology	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Hematology	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Neurology and neurosurgery	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Obstetrics and gynecology	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Oncology and cancer research	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Ophthalmology	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Otorhinolaryngology	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Pediatrics	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Psychiatry	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Pulmonary disease	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Radiological sciences	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Surgery	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Clinical medicine nec	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Other health	40,894	5.9	29,206	5.9	10,664	7.4	11,688	5.7	30,376	7.3	21,992	9.0	9,330	9.1	8,384	4.9	10,518	3.7	7,214	2.9	1,334	3.2	3,304	9.3
Communication disorders sciences	17,606	2.5	15,468	3.1	6,327	4.4	2,138	1.0	16,762	4.0	14,708	6.0	6,197	6.1	2,054	1.2	844	0.3	760	0.3	130	0.3	84	0.2
Dental sciences	1,583	0.2	1,428	0.3	359	0.3	155	0.1	1,366	0.3	1,230	0.5	330	0.3	136	0.1	217	0.1	198	0.1	29	0.1	19	0.1
Kinesiology and exercise science	6,001	0.9	3,986	0.8	1,748	1.2	2,015	1.0	4,977	1.2	3,221	1.3	1,631	1.6	1,756	1.0	1,024	0.4	765	0.3	117	0.3	259	0.7

TABLE 4-3

Master's and doctoral students within science, engineering, and health fields, by enrollment intensity: 2020

(Number and percent)

Detailed field	All graduate students								Master's students								Doctoral students							
	Total		Full time				Part time		Total		Full time				Part time		Total		Full time				Part time	
			All full time		First time, full time						All full time		First time, full time						All full time		First time, full time			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Nursing science	4,847	0.7	2,041	0.4	426	0.3	2,806	1.4	1,488	0.4	256	0.1	51	*	1,232	0.7	3,359	1.2	1,785	0.7	375	0.9	1,574	4.4
Pharmaceutical sciences	4,512	0.6	3,294	0.7	732	0.5	1,218	0.6	1,619	0.4	828	0.3	295	0.3	791	0.5	2,893	1.0	2,466	1.0	437	1.1	427	1.2
Other health nec	6,345	0.9	2,989	0.6	1,072	0.7	3,356	1.6	4,164	1.0	1,749	0.7	826	0.8	2,415	1.4	2,181	0.8	1,240	0.5	246	0.6	941	2.6

* = value < 0.05%; ne = not eligible.

nec = not elsewhere classified.

[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.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2020.

TABLE 4-4a

Citizenship, ethnicity, and race of graduate students, by detailed field: 2020

(Number and percent)

Detailed 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 detailed fields	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
Agricultural sciences	9,380	1.3	724	1.2	25	1.2	279	0.5	334	0.8	13	1.7	4,939	1.7	198	1.1	232	0.9	2,636	1.3
Veterinary biomedical and clinical sciences	1,420	0.2	99	0.2	2	0.1	56	0.1	44	0.1	2	0.3	804	0.3	33	0.2	60	0.2	320	0.2
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
Biochemistry	5,537	0.8	591	0.9	22	1.1	469	0.9	218	0.5	12	1.5	2,532	0.9	151	0.9	135	0.5	1,407	0.7
Biology	15,649	2.2	1,737	2.8	53	2.6	999	1.9	942	2.2	30	3.9	8,342	2.9	464	2.6	507	2.0	2,575	1.2
Biomedical sciences	10,412	1.5	1,135	1.8	30	1.5	1,647	3.1	1,311	3.1	23	3.0	4,314	1.5	336	1.9	309	1.2	1,307	0.6
Biophysics	868	0.1	68	0.1	2	0.1	110	0.2	14	*	1	0.1	349	0.1	19	0.1	30	0.1	275	0.1
Biostatistics and bioinformatics	6,482	0.9	306	0.5	13	0.6	863	1.6	193	0.5	3	0.4	2,064	0.7	146	0.8	243	1.0	2,651	1.3
Biotechnology	3,244	0.5	357	0.6	8	0.4	460	0.9	346	0.8	3	0.4	1,257	0.4	117	0.7	151	0.6	545	0.3
Botany and plant biology	1,631	0.2	147	0.2	3	0.1	70	0.1	34	0.1	4	0.5	787	0.3	55	0.3	51	0.2	480	0.2
Cell, cellular biology, and anatomical sciences	5,962	0.9	679	1.1	28	1.4	622	1.2	231	0.6	7	0.9	2,731	1.0	193	1.1	195	0.8	1,276	0.6
Ecology and population biology	3,777	0.5	313	0.5	15	0.7	137	0.3	115	0.3	7	0.9	2,413	0.8	113	0.6	149	0.6	515	0.2
Epidemiology	5,185	0.7	513	0.8	10	0.5	701	1.3	439	1.0	2	0.3	2,097	0.7	154	0.9	192	0.8	1,077	0.5
Genetics	2,802	0.4	251	0.4	13	0.6	261	0.5	102	0.2	4	0.5	1,467	0.5	81	0.5	66	0.3	557	0.3
Microbiological sciences and immunology	5,773	0.8	661	1.1	22	1.1	517	1.0	292	0.7	4	0.5	2,984	1.1	175	1.0	254	1.0	864	0.4
Molecular biology	1,618	0.2	195	0.3	3	0.1	182	0.3	68	0.2	0	0.0	716	0.3	42	0.2	52	0.2	360	0.2
Neurobiology and neuroscience	5,820	0.8	655	1.0	19	0.9	586	1.1	252	0.6	2	0.3	2,980	1.0	195	1.1	192	0.8	939	0.4
Nutrition science	3,359	0.5	292	0.5	7	0.3	243	0.5	152	0.4	7	0.9	1,949	0.7	107	0.6	111	0.4	491	0.2
Pathology and experimental pathology	858	0.1	78	0.1	5	0.2	72	0.1	43	0.1	1	0.1	362	0.1	29	0.2	60	0.2	208	0.1
Pharmacology and toxicology	2,944	0.4	263	0.4	9	0.4	318	0.6	206	0.5	3	0.4	1,300	0.5	94	0.5	117	0.5	634	0.3
Physiology	5,802	0.8	476	0.8	14	0.7	634	1.2	478	1.1	5	0.6	2,798	1.0	164	0.9	295	1.2	938	0.4
Zoology and animal biology	2,047	0.3	143	0.2	6	0.3	55	0.1	49	0.1	0	0.0	1,321	0.5	61	0.3	80	0.3	332	0.2
Biological and biomedical sciences nec	5,055	0.7	582	0.9	15	0.7	574	1.1	564	1.3	19	2.4	2,211	0.8	155	0.9	258	1.0	677	0.3
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
Artificial intelligence, informatics, and computer and information science topics	4,375	0.6	233	0.4	13	0.6	354	0.7	271	0.6	1	0.1	1,300	0.5	71	0.4	129	0.5	2,003	1.0
Computer and information sciences	29,107	4.2	1,365	2.2	25	1.2	3,745	7.1	915	2.2	17	2.2	7,910	2.8	519	3.0	542	2.2	14,069	6.7
Computer and information systems security	7,293	1.0	724	1.2	22	1.1	822	1.5	1,358	3.2	14	1.8	2,689	0.9	210	1.2	407	1.6	1,047	0.5
Computer science	32,328	4.6	920	1.5	18	0.9	3,098	5.8	635	1.5	9	1.2	5,936	2.1	455	2.6	1,074	4.3	20,183	9.6

TABLE 4-4a

Citizenship, ethnicity, and race of graduate students, by detailed field: 2020

(Number and percent)

Detailed 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
Information science and studies	12,916	1.9	881	1.4	25	1.2	1,479	2.8	1,530	3.7	18	2.3	4,156	1.5	263	1.5	553	2.2	4,011	1.9
Information technology	6,023	0.9	445	0.7	14	0.7	608	1.1	518	1.2	6	0.8	1,466	0.5	151	0.9	206	0.8	2,609	1.2
Computer and information sciences nec	6,822	1.0	421	0.7	10	0.5	593	1.1	412	1.0	5	0.6	1,854	0.7	120	0.7	261	1.0	3,146	1.5
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
Atmospheric sciences and meteorology	1,305	0.2	62	0.1	0	0.0	30	0.1	31	0.1	0	0.0	739	0.3	34	0.2	46	0.2	363	0.2
Geological and earth sciences	7,726	1.1	638	1.0	29	1.4	263	0.5	180	0.4	3	0.4	4,566	1.6	225	1.3	219	0.9	1,603	0.8
Ocean and marine sciences	2,761	0.4	243	0.4	2	0.1	94	0.2	56	0.1	5	0.6	1,731	0.6	107	0.6	126	0.5	397	0.2
Geosciences, atmospheric sciences, and ocean sciences nec	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
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
Applied mathematics	8,889	1.3	479	0.8	7	0.3	613	1.2	203	0.5	1	0.1	2,261	0.8	152	0.9	252	1.0	4,921	2.3
Mathematics	12,469	1.8	926	1.5	19	0.9	800	1.5	331	0.8	4	0.5	5,307	1.9	245	1.4	410	1.6	4,427	2.1
Statistics	10,613	1.5	459	0.7	10	0.5	1,162	2.2	243	0.6	7	0.9	2,824	1.0	149	0.8	286	1.1	5,473	2.6
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
Biological and physical sciences	1,808	0.3	173	0.3	3	0.1	212	0.4	111	0.3	8	1.0	769	0.3	45	0.3	114	0.5	373	0.2
Computational science	2,266	0.3	138	0.2	1	*	234	0.4	77	0.2	1	0.1	848	0.3	42	0.2	47	0.2	878	0.4
Data science and data analytics	2,166	0.3	137	0.2	2	0.1	210	0.4	92	0.2	2	0.3	642	0.2	40	0.2	56	0.2	985	0.5
International and global studies	1,514	0.2	285	0.5	5	0.2	108	0.2	138	0.3	0	0.0	671	0.2	55	0.3	41	0.2	211	0.1
Multidisciplinary and interdisciplinary studies nec	6,779	1.0	600	1.0	18	0.9	517	1.0	537	1.3	6	0.8	3,078	1.1	188	1.1	255	1.0	1,580	0.7
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
Environmental science and studies	5,866	0.8	677	1.1	57	2.8	212	0.4	210	0.5	24	3.1	3,502	1.2	168	1.0	222	0.9	794	0.4
Forestry, natural resources, and conservation	6,632	1.0	479	0.8	66	3.2	156	0.3	194	0.5	9	1.2	4,515	1.6	219	1.2	191	0.8	803	0.4
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
Astronomy and astrophysics	1,506	0.2	134	0.2	4	0.2	113	0.2	38	0.1	0	0.0	767	0.3	63	0.4	40	0.2	347	0.2
Chemistry	22,485	3.2	1,769	2.8	44	2.2	1,428	2.7	663	1.6	12	1.5	9,483	3.3	481	2.7	622	2.5	7,983	3.8
Materials sciences	1,492	0.2	91	0.1	2	0.1	114	0.2	51	0.1	1	0.1	465	0.2	13	0.1	47	0.2	708	0.3
Physics	16,126	2.3	995	1.6	28	1.4	810	1.5	278	0.7	4	0.5	6,719	2.4	357	2.0	402	1.6	6,533	3.1
Physical sciences nec	1,007	0.1	40	0.1	1	*	31	0.1	66	0.2	0	0.0	501	0.2	32	0.2	38	0.2	298	0.1
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
Applied psychology	22,506	3.2	4,495	7.2	85	4.2	1,142	2.2	2,122	5.1	44	5.7	11,622	4.1	774	4.4	1,234	5.0	988	0.5
Clinical psychology	7,148	1.0	1,418	2.3	24	1.2	430	0.8	471	1.1	18	2.3	3,658	1.3	378	2.2	477	1.9	274	0.1
Counseling psychology	17,339	2.5	3,025	4.8	104	5.1	640	1.2	2,655	6.3	34	4.4	8,394	3.0	577	3.3	1,567	6.3	343	0.2

TABLE 4-4a

Citizenship, ethnicity, and race of graduate students, by detailed field: 2020

(Number and percent)

Detailed 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
Human development	2,241	0.3	256	0.4	5	0.2	95	0.2	239	0.6	4	0.5	1,288	0.5	77	0.4	81	0.3	196	0.1
Psychology, general	13,427	1.9	1,970	3.1	62	3.0	717	1.4	1,214	2.9	19	2.4	7,505	2.6	568	3.2	478	1.9	894	0.4
Research and experimental psychology	5,733	0.8	612	1.0	22	1.1	421	0.8	343	0.8	5	0.6	2,877	1.0	184	1.0	156	0.6	1,113	0.5
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
Agricultural and natural resource economics	1,242	0.2	60	0.1	4	0.2	36	0.1	27	0.1	0	0.0	464	0.2	15	0.1	25	0.1	611	0.3
Anthropology	6,463	0.9	712	1.1	68	3.3	226	0.4	223	0.5	6	0.8	3,671	1.3	251	1.4	327	1.3	979	0.5
Area, ethnic, cultural, gender, and group studies	5,124	0.7	907	1.4	123	6.0	288	0.5	620	1.5	29	3.7	1,781	0.6	218	1.2	203	0.8	955	0.5
Criminal justice and safety studies	6,662	1.0	964	1.5	30	1.5	154	0.3	1,366	3.3	14	1.8	3,274	1.2	231	1.3	474	1.9	155	0.1
Criminology	1,626	0.2	305	0.5	6	0.3	55	0.1	203	0.5	2	0.3	868	0.3	58	0.3	59	0.2	70	*
Economics (except agricultural and natural resource)	14,073	2.0	656	1.0	15	0.7	737	1.4	350	0.8	12	1.5	3,704	1.3	166	0.9	333	1.3	8,100	3.8
Geography and cartography	4,397	0.6	404	0.6	33	1.6	161	0.3	157	0.4	5	0.6	2,502	0.9	116	0.7	167	0.7	852	0.4
International relations and national security studies	7,730	1.1	929	1.5	15	0.7	400	0.8	606	1.4	13	1.7	3,939	1.4	246	1.4	510	2.0	1,072	0.5
Linguistics	2,850	0.4	258	0.4	28	1.4	163	0.3	73	0.2	2	0.3	1,223	0.4	85	0.5	119	0.5	899	0.4
Political science and government	8,438	1.2	804	1.3	25	1.2	344	0.6	533	1.3	12	1.5	4,171	1.5	236	1.3	349	1.4	1,964	0.9
Public policy analysis	8,899	1.3	895	1.4	35	1.7	620	1.2	891	2.1	11	1.4	4,089	1.4	239	1.4	395	1.6	1,724	0.8
Sociology and population studies	7,409	1.1	1,106	1.8	25	1.2	360	0.7	858	2.0	8	1.0	3,344	1.2	247	1.4	275	1.1	1,186	0.6
Urban studies and affairs	1,312	0.2	149	0.2	0	0.0	74	0.1	215	0.5	0	0.0	616	0.2	28	0.2	56	0.2	174	0.1
Social sciences, other	2,128	0.3	201	0.3	10	0.5	88	0.2	320	0.8	6	0.8	1,000	0.4	64	0.4	110	0.4	329	0.2
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
Chemical engineering	9,457	1.4	469	0.7	14	0.7	781	1.5	219	0.5	4	0.5	3,118	1.1	189	1.1	171	0.7	4,492	2.1
Petroleum engineering	1,097	0.2	37	0.1	2	0.1	40	0.1	36	0.1	0	0.0	163	0.1	16	0.1	26	0.1	777	0.4
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
Civil engineering	15,220	2.2	1,136	1.8	37	1.8	870	1.6	399	1.0	13	1.7	4,793	1.7	276	1.6	375	1.5	7,321	3.5
Architectural, environmental, construction and surveying engineering	3,084	0.4	255	0.4	9	0.4	190	0.4	110	0.3	4	0.5	1,169	0.4	71	0.4	94	0.4	1,182	0.6
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
Electrical, electronics, and communications engineering	31,440	4.5	1,445	2.3	23	1.1	2,380	4.5	690	1.6	4	0.5	7,211	2.5	439	2.5	687	2.8	18,561	8.8

TABLE 4-4a

Citizenship, ethnicity, and race of graduate students, by detailed field: 2020

(Number and percent)

Detailed 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
Computer engineering	11,592	1.7	473	0.8	12	0.6	922	1.7	284	0.7	4	0.5	2,105	0.7	156	0.9	243	1.0	7,393	3.5
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
Industrial and manufacturing engineering	7,982	1.1	555	0.9	7	0.3	364	0.7	241	0.6	6	0.8	1,769	0.6	86	0.5	134	0.5	4,820	2.3
Systems engineering and operations research	6,887	1.0	565	0.9	12	0.6	611	1.2	382	0.9	11	1.4	3,110	1.1	160	0.9	288	1.2	1,748	0.8
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
Agricultural engineering	1,058	0.2	45	0.1	2	0.1	55	0.1	26	0.1	1	0.1	359	0.1	26	0.1	21	0.1	523	0.2
Engineering mechanics, physics, and science	2,208	0.3	91	0.1	4	0.2	159	0.3	53	0.1	2	0.3	761	0.3	53	0.3	48	0.2	1,037	0.5
Nuclear engineering	1,479	0.2	104	0.2	4	0.2	57	0.1	33	0.1	0	0.0	771	0.3	48	0.3	47	0.2	415	0.2
Engineering, other	13,516	1.9	740	1.2	30	1.5	957	1.8	768	1.8	15	1.9	5,521	1.9	287	1.6	355	1.4	4,843	2.3
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[a]	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
Medical clinical sciences and clinical and medical laboratory sciences	1,370	0.2	117	0.2	8	0.4	208	0.4	84	0.2	5	0.6	610	0.2	36	0.2	92	0.4	210	0.1
Public health	33,174	4.8	4,497	7.2	216	10.6	3,362	6.3	5,042	12.0	64	8.2	14,065	5.0	1,107	6.3	1,726	6.9	3,095	1.5
Anesthesiology	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Cardiology and cardiovascular disease	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Endocrinology, diabetes, and metabolism	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Gastroenterology	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Hematology	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Neurology and neurosurgery	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Obstetrics and gynecology	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Oncology and cancer research	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Ophthalmology	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Otorhinolaryngology	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Pediatrics	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Psychiatry	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Pulmonary disease	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Radiological sciences	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne

TABLE 4-4a

Citizenship, ethnicity, and race of graduate students, by detailed field: 2020

(Number and percent)

Detailed 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
Surgery	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Clinical medicine nec	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
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
Communication disorders sciences	17,606	2.5	2,429	3.9	52	2.5	842	1.6	763	1.8	17	2.2	11,996	4.2	465	2.6	694	2.8	348	0.2
Dental sciences	1,583	0.2	94	0.1	2	0.1	231	0.4	61	0.1	2	0.3	620	0.2	27	0.2	104	0.4	442	0.2
Kinesiology and exercise science	6,001	0.9	846	1.3	21	1.0	168	0.3	682	1.6	17	2.2	3,333	1.2	212	1.2	162	0.7	560	0.3
Nursing science	4,847	0.7	362	0.6	16	0.8	263	0.5	631	1.5	5	0.6	2,933	1.0	96	0.5	169	0.7	372	0.2
Pharmaceutical sciences	4,512	0.6	261	0.4	4	0.2	407	0.8	274	0.7	3	0.4	1,367	0.5	103	0.6	129	0.5	1,964	0.9
Other health nec	6,345	0.9	724	1.2	16	0.8	781	1.5	745	1.8	11	1.4	2,878	1.0	146	0.8	286	1.1	758	0.4

* = value < 0.05%; ne = not eligible.

nec = not elsewhere classified.

[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. 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.

TABLE 4-4b

Citizenship, ethnicity, and race of master's students, by detailed field: 2020

(Number and percent)

Detailed 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 detailed fields	414,478	100.0	43,750	100.0	1,284	100.0	35,075	100.0	30,842	100.0	578	100.0	175,090	100.0	11,069	100.0	16,617	100.0	100,173	100.0
Science	267,904	64.6	28,849	65.9	851	66.3	22,270	63.5	21,126	68.5	403	69.7	112,534	64.3	7,293	65.9	11,351	68.3	63,227	63.1
Agricultural and veterinary sciences	6,487	1.6	626	1.4	20	1.6	207	0.6	279	0.9	14	2.4	3,949	2.3	153	1.4	205	1.2	1,034	1.0
Agricultural sciences	5,589	1.3	551	1.3	18	1.4	171	0.5	247	0.8	12	2.1	3,391	1.9	138	1.2	159	1.0	902	0.9
Veterinary biomedical and clinical sciences	898	0.2	75	0.2	2	0.2	36	0.1	32	0.1	2	0.3	558	0.3	15	0.1	46	0.3	132	0.1
Biological and biomedical sciences	39,920	9.6	4,464	10.2	111	8.6	4,682	13.3	3,834	12.4	84	14.5	19,042	10.9	1,308	11.8	1,701	10.2	4,694	4.7
Biochemistry	889	0.2	140	0.3	2	0.2	86	0.2	57	0.2	5	0.9	362	0.2	22	0.2	49	0.3	166	0.2
Biology	8,381	2.0	1,080	2.5	33	2.6	539	1.5	675	2.2	24	4.2	4,806	2.7	274	2.5	282	1.7	668	0.7
Biomedical sciences	5,898	1.4	703	1.6	12	0.9	1,214	3.5	1,038	3.4	17	2.9	2,214	1.3	193	1.7	174	1.0	333	0.3
Biophysics	8	*	0	0.0	0	0.0	1	*	0	0.0	0	0.0	3	*	0	0.0	1	*	3	*
Biostatistics and bioinformatics	3,143	0.8	187	0.4	10	0.8	446	1.3	121	0.4	1	0.2	1,017	0.6	76	0.7	104	0.6	1,181	1.2
Biotechnology	3,143	0.8	349	0.8	8	0.6	452	1.3	343	1.1	3	0.5	1,207	0.7	115	1.0	149	0.9	517	0.5
Botany and plant biology	376	0.1	38	0.1	0	0.0	13	*	6	*	3	0.5	212	0.1	22	0.2	16	0.1	66	0.1
Cell, cellular biology, and anatomical sciences	954	0.2	129	0.3	4	0.3	122	0.3	63	0.2	0	0.0	417	0.2	45	0.4	53	0.3	121	0.1
Ecology and population biology	1,052	0.3	75	0.2	7	0.5	27	0.1	37	0.1	3	0.5	779	0.4	37	0.3	41	0.2	46	*
Epidemiology	3,153	0.8	383	0.9	2	0.2	457	1.3	289	0.9	0	0.0	1,277	0.7	98	0.9	122	0.7	525	0.5
Genetics	620	0.1	53	0.1	2	0.2	69	0.2	29	0.1	1	0.2	379	0.2	18	0.2	19	0.1	50	*
Microbiological sciences and immunology	1,649	0.4	248	0.6	7	0.5	134	0.4	123	0.4	0	0.0	835	0.5	48	0.4	126	0.8	128	0.1
Molecular biology	378	0.1	53	0.1	0	0.0	44	0.1	37	0.1	0	0.0	159	0.1	14	0.1	20	0.1	51	0.1
Neurobiology and neuroscience	545	0.1	65	0.1	2	0.2	57	0.2	25	0.1	1	0.2	279	0.2	18	0.2	17	0.1	81	0.1
Nutrition science	2,370	0.6	227	0.5	6	0.5	181	0.5	100	0.3	7	1.2	1,488	0.8	80	0.7	94	0.6	187	0.2
Pathology and experimental pathology	105	*	7	*	1	0.1	8	*	7	*	1	0.2	53	*	7	0.1	2	*	19	*
Pharmacology and toxicology	770	0.2	62	0.1	3	0.2	85	0.2	62	0.2	1	0.2	354	0.2	21	0.2	32	0.2	150	0.1
Physiology	3,044	0.7	249	0.6	5	0.4	381	1.1	359	1.2	3	0.5	1,523	0.9	98	0.9	198	1.2	228	0.2
Zoology and animal biology	869	0.2	66	0.2	4	0.3	23	0.1	19	0.1	0	0.0	628	0.4	31	0.3	37	0.2	61	0.1
Biological and biomedical sciences nec	2,573	0.6	350	0.8	3	0.2	343	1.0	444	1.4	14	2.4	1,050	0.6	91	0.8	165	1.0	113	0.1
Computer and information sciences	80,690	19.5	4,541	10.4	113	8.8	9,479	27.0	5,171	16.8	62	10.7	21,380	12.2	1,519	13.7	2,664	16.0	35,761	35.7
Artificial intelligence, informatics, and computer and information science topics	3,419	0.8	206	0.5	11	0.9	299	0.9	231	0.7	1	0.2	1,078	0.6	59	0.5	103	0.6	1,431	1.4

TABLE 4-4b

Citizenship, ethnicity, and race of master's students, by detailed field: 2020

(Number and percent)

Detailed 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
Computer and information sciences	23,625	5.7	1,239	2.8	20	1.6	3,461	9.9	811	2.6	13	2.2	6,737	3.8	455	4.1	427	2.6	10,462	10.4
Computer and information systems security	7,023	1.7	701	1.6	21	1.6	795	2.3	1,305	4.2	12	2.1	2,582	1.5	205	1.9	402	2.4	1,000	1.0
Computer science	22,670	5.5	735	1.7	16	1.2	2,388	6.8	507	1.6	8	1.4	4,022	2.3	308	2.8	753	4.5	13,933	13.9
Information science and studies	11,671	2.8	818	1.9	21	1.6	1,386	4.0	1,433	4.6	17	2.9	3,781	2.2	239	2.2	521	3.1	3,455	3.4
Information technology	5,618	1.4	428	1.0	14	1.1	573	1.6	490	1.6	6	1.0	1,376	0.8	140	1.3	197	1.2	2,394	2.4
Computer and information sciences nec	6,664	1.6	414	0.9	10	0.8	577	1.6	394	1.3	5	0.9	1,804	1.0	113	1.0	261	1.6	3,086	3.1
Geosciences, atmospheric sciences, and ocean sciences	5,277	1.3	496	1.1	17	1.3	141	0.4	148	0.5	7	1.2	3,703	2.1	170	1.5	179	1.1	416	0.4
Atmospheric sciences and meteorology	458	0.1	23	0.1	0	0.0	9	*	17	0.1	0	0.0	310	0.2	18	0.2	17	0.1	64	0.1
Geological and earth sciences	3,561	0.9	342	0.8	17	1.3	92	0.3	101	0.3	3	0.5	2,514	1.4	107	1.0	99	0.6	286	0.3
Ocean and marine sciences	1,258	0.3	131	0.3	0	0.0	40	0.1	30	0.1	4	0.7	879	0.5	45	0.4	63	0.4	66	0.1
Geosciences, atmospheric sciences, and ocean sciences nec	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Mathematics and statistics	18,284	4.4	1,239	2.8	23	1.8	1,742	5.0	573	1.9	9	1.6	5,904	3.4	295	2.7	572	3.4	7,927	7.9
Applied mathematics	6,678	1.6	359	0.8	5	0.4	486	1.4	146	0.5	1	0.2	1,488	0.8	94	0.8	210	1.3	3,889	3.9
Mathematics	4,380	1.1	493	1.1	13	1.0	314	0.9	227	0.7	3	0.5	2,266	1.3	94	0.8	158	1.0	812	0.8
Statistics	7,226	1.7	387	0.9	5	0.4	942	2.7	200	0.6	5	0.9	2,150	1.2	107	1.0	204	1.2	3,226	3.2
Multidisciplinary and interdisciplinary studies	10,980	2.6	1,084	2.5	20	1.6	1,038	3.0	746	2.4	11	1.9	4,432	2.5	293	2.6	388	2.3	2,968	3.0
Biological and physical sciences	993	0.2	124	0.3	2	0.2	156	0.4	77	0.2	3	0.5	405	0.2	31	0.3	87	0.5	108	0.1
Computational science	1,968	0.5	118	0.3	1	0.1	215	0.6	63	0.2	1	0.2	756	0.4	35	0.3	33	0.2	746	0.7
Data science and data analytics	2,124	0.5	137	0.3	2	0.2	207	0.6	90	0.3	2	0.3	635	0.4	40	0.4	56	0.3	955	1.0
International and global studies	1,341	0.3	254	0.6	4	0.3	105	0.3	118	0.4	0	0.0	615	0.4	54	0.5	36	0.2	155	0.2
Multidisciplinary and interdisciplinary studies nec	4,554	1.1	451	1.0	11	0.9	355	1.0	398	1.3	5	0.9	2,021	1.2	133	1.2	176	1.1	1,004	1.0
Natural resources and conservation	8,793	2.1	858	2.0	88	6.9	269	0.8	248	0.8	30	5.2	6,040	3.4	306	2.8	267	1.6	687	0.7
Environmental science and studies	4,067	1.0	493	1.1	41	3.2	155	0.4	115	0.4	21	3.6	2,606	1.5	136	1.2	133	0.8	367	0.4
Forestry, natural resources, and conservation	4,726	1.1	365	0.8	47	3.7	114	0.3	133	0.4	9	1.6	3,434	2.0	170	1.5	134	0.8	320	0.3
Physical sciences	6,275	1.5	757	1.7	24	1.9	455	1.3	338	1.1	3	0.5	2,978	1.7	177	1.6	188	1.1	1,355	1.4

TABLE 4-4b

Citizenship, ethnicity, and race of master's students, by detailed field: 2020

(Number and percent)

Detailed 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
Astronomy and astrophysics	76	*	10	*	0	0.0	10	*	5	*	0	0.0	36	*	5	*	4	*	6	*
Chemistry	3,096	0.7	431	1.0	10	0.8	257	0.7	214	0.7	1	0.2	1,413	0.8	70	0.6	94	0.6	606	0.6
Materials sciences	464	0.1	41	0.1	1	0.1	43	0.1	15	*	0	0.0	133	0.1	5	*	3	*	223	0.2
Physics	2,141	0.5	245	0.6	12	0.9	125	0.4	82	0.3	2	0.3	1,070	0.6	72	0.7	63	0.4	470	0.5
Physical sciences nec	498	0.1	30	0.1	1	0.1	20	0.1	22	0.1	0	0.0	326	0.2	25	0.2	24	0.1	50	*
Psychology	47,279	11.4	8,978	20.5	205	16.0	2,180	6.2	5,425	17.6	103	17.8	23,932	13.7	1,688	15.2	3,199	19.3	1,569	1.6
Applied psychology	17,673	4.3	3,779	8.6	51	4.0	897	2.6	1,600	5.2	38	6.6	9,083	5.2	604	5.5	1,102	6.6	519	0.5
Clinical psychology	3,480	0.8	749	1.7	11	0.9	200	0.6	265	0.9	16	2.8	1,681	1.0	166	1.5	257	1.5	135	0.1
Counseling psychology	15,979	3.9	2,840	6.5	99	7.7	534	1.5	2,450	7.9	33	5.7	7,732	4.4	531	4.8	1,516	9.1	244	0.2
Human development	1,499	0.4	190	0.4	3	0.2	65	0.2	145	0.5	3	0.5	914	0.5	46	0.4	66	0.4	67	0.1
Psychology, general	6,826	1.6	1,145	2.6	31	2.4	346	1.0	798	2.6	10	1.7	3,698	2.1	290	2.6	193	1.2	315	0.3
Research and experimental psychology	1,822	0.4	275	0.6	10	0.8	138	0.4	167	0.5	3	0.5	824	0.5	51	0.5	65	0.4	289	0.3
Social sciences	43,919	10.6	5,806	13.3	230	17.9	2,077	5.9	4,364	14.1	80	13.8	21,174	12.1	1,384	12.5	1,988	12.0	6,816	6.8
Agricultural and natural resource economics	603	0.1	45	0.1	4	0.3	9	*	14	*	0	0.0	318	0.2	13	0.1	12	0.1	188	0.2
Anthropology	2,167	0.5	297	0.7	23	1.8	55	0.2	82	0.3	0	0.0	1,436	0.8	100	0.9	92	0.6	82	0.1
Area, ethnic, cultural, gender, and group studies	2,642	0.6	521	1.2	60	4.7	153	0.4	232	0.8	23	4.0	994	0.6	132	1.2	100	0.6	427	0.4
Criminal justice and safety studies	5,674	1.4	872	2.0	26	2.0	135	0.4	1,223	4.0	12	2.1	2,763	1.6	197	1.8	359	2.2	87	0.1
Criminology	1,308	0.3	267	0.6	6	0.5	43	0.1	184	0.6	2	0.3	667	0.4	52	0.5	52	0.3	35	*
Economics (except agricultural and natural resource)	6,114	1.5	451	1.0	11	0.9	349	1.0	227	0.7	10	1.7	1,954	1.1	97	0.9	164	1.0	2,851	2.8
Geography and cartography	2,745	0.7	279	0.6	25	1.9	101	0.3	105	0.3	3	0.5	1,778	1.0	85	0.8	92	0.6	277	0.3
International relations and national security studies	7,322	1.8	895	2.0	14	1.1	380	1.1	579	1.9	13	2.2	3,778	2.2	238	2.2	504	3.0	921	0.9
Linguistics	1,164	0.3	165	0.4	12	0.9	83	0.2	43	0.1	2	0.3	574	0.3	38	0.3	58	0.3	189	0.2
Political science and government	3,072	0.7	477	1.1	12	0.9	119	0.3	287	0.9	5	0.9	1,655	0.9	100	0.9	128	0.8	289	0.3
Public policy analysis	6,352	1.5	718	1.6	22	1.7	451	1.3	557	1.8	8	1.4	3,092	1.8	167	1.5	243	1.5	1,094	1.1
Sociology and population studies	2,342	0.6	531	1.2	8	0.6	79	0.2	370	1.2	1	0.2	1,024	0.6	95	0.9	80	0.5	154	0.2
Urban studies and affairs	907	0.2	126	0.3	0	0.0	59	0.2	161	0.5	0	0.0	458	0.3	22	0.2	26	0.2	55	0.1
Social sciences, other	1,507	0.4	162	0.4	7	0.5	61	0.2	300	1.0	1	0.2	683	0.4	48	0.4	78	0.5	167	0.2
Engineering	86,450	20.9	6,704	15.3	160	12.5	7,628	21.7	2,952	9.6	71	12.3	31,783	18.2	1,949	17.6	2,396	14.4	32,807	32.8

TABLE 4-4b

Citizenship, ethnicity, and race of master's students, by detailed field: 2020

(Number and percent)

Detailed 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
Aerospace, aeronautical, and astronautical engineering	4,326	1.0	416	1.0	10	0.8	425	1.2	115	0.4	5	0.9	2,479	1.4	158	1.4	144	0.9	574	0.6
Biological, biomedical, and biosystems engineering	4,536	1.1	383	0.9	7	0.5	688	2.0	188	0.6	4	0.7	1,713	1.0	153	1.4	167	1.0	1,233	1.2
Chemical, petroleum, and chemical-related engineering	2,942	0.7	199	0.5	4	0.3	261	0.7	112	0.4	1	0.2	952	0.5	69	0.6	78	0.5	1,266	1.3
Chemical engineering	2,426	0.6	167	0.4	2	0.2	237	0.7	88	0.3	1	0.2	845	0.5	57	0.5	64	0.4	965	1.0
Petroleum engineering	516	0.1	32	0.1	2	0.2	24	0.1	24	0.1	0	0.0	107	0.1	12	0.1	14	0.1	301	0.3
Civil, environmental, transportation and related engineering fields	10,819	2.6	1,103	2.5	36	2.8	817	2.3	347	1.1	14	2.4	4,413	2.5	261	2.4	348	2.1	3,480	3.5
Civil engineering	8,703	2.1	901	2.1	28	2.2	670	1.9	268	0.9	11	1.9	3,512	2.0	210	1.9	275	1.7	2,828	2.8
Architectural, environmental, construction and surveying engineering	2,116	0.5	202	0.5	8	0.6	147	0.4	79	0.3	3	0.5	901	0.5	51	0.5	73	0.4	652	0.7
Electrical, electronics, communications and computer engineering	25,312	6.1	1,460	3.3	28	2.2	2,346	6.7	674	2.2	7	1.2	6,217	3.6	434	3.9	583	3.5	13,563	13.5
Electrical, electronics, and communications engineering	16,746	4.0	1,048	2.4	20	1.6	1,577	4.5	456	1.5	3	0.5	4,658	2.7	310	2.8	426	2.6	8,248	8.2
Computer engineering	8,566	2.1	412	0.9	8	0.6	769	2.2	218	0.7	4	0.7	1,559	0.9	124	1.1	157	0.9	5,315	5.3
Industrial, manufacturing, systems engineering and operations research	11,030	2.7	1,024	2.3	17	1.3	798	2.3	488	1.6	16	2.8	4,011	2.3	196	1.8	327	2.0	4,153	4.1
Industrial and manufacturing engineering	5,569	1.3	500	1.1	6	0.5	284	0.8	167	0.5	6	1.0	1,347	0.8	68	0.6	89	0.5	3,102	3.1
Systems engineering and operations research	5,461	1.3	524	1.2	11	0.9	514	1.5	321	1.0	10	1.7	2,664	1.5	128	1.2	238	1.4	1,051	1.0
Mechanical engineering	14,305	3.5	1,262	2.9	24	1.9	1,220	3.5	336	1.1	8	1.4	5,986	3.4	341	3.1	380	2.3	4,748	4.7
Metallurgical, mining, materials and related engineering fields	2,299	0.6	160	0.4	4	0.3	198	0.6	65	0.2	2	0.3	945	0.5	66	0.6	54	0.3	805	0.8
Other engineering	10,881	2.6	697	1.6	30	2.3	875	2.5	627	2.0	14	2.4	5,067	2.9	271	2.4	315	1.9	2,985	3.0
Agricultural engineering	404	0.1	22	0.1	1	0.1	28	0.1	8	*	0	0.0	212	0.1	11	0.1	7	*	115	0.1
Engineering mechanics, physics, and science	740	0.2	32	0.1	2	0.2	67	0.2	29	0.1	1	0.2	325	0.2	20	0.2	18	0.1	246	0.2
Nuclear engineering	441	0.1	40	0.1	2	0.2	17	*	11	*	0	0.0	254	0.1	14	0.1	13	0.1	90	0.1
Engineering, other	9,296	2.2	603	1.4	25	1.9	763	2.2	579	1.9	13	2.2	4,276	2.4	226	2.0	277	1.7	2,534	2.5
Health	60,124	14.5	8,197	18.7	273	21.3	5,177	14.8	6,764	21.9	104	18.0	30,773	17.6	1,827	16.5	2,870	17.3	4,139	4.1

TABLE 4-4b

Citizenship, ethnicity, and race of master's students, by detailed field: 2020

(Number and percent)

Detailed 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
Clinical medicine[a]	29,748	7.2	4,132	9.4	185	14.4	3,181	9.1	4,511	14.6	57	9.9	12,672	7.2	991	9.0	1,662	10.0	2,357	2.4
Medical clinical sciences and clinical and medical laboratory sciences	927	0.2	76	0.2	3	0.2	168	0.5	61	0.2	3	0.5	381	0.2	25	0.2	74	0.4	136	0.1
Public health	28,821	7.0	4,056	9.3	182	14.2	3,013	8.6	4,450	14.4	54	9.3	12,291	7.0	966	8.7	1,588	9.6	2,221	2.2
Anesthesiology	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Cardiology and cardiovascular disease	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Endocrinology, diabetes, and metabolism	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Gastroenterology	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Hematology	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Neurology and neurosurgery	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Obstetrics and gynecology	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Oncology and cancer research	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Ophthalmology	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Otorhinolaryngology	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Pediatrics	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Psychiatry	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Pulmonary disease	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Radiological sciences	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Surgery	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Clinical medicine nec	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Other health	30,376	7.3	4,065	9.3	88	6.9	1,996	5.7	2,253	7.3	47	8.1	18,101	10.3	836	7.6	1,208	7.3	1,782	1.8
Communication disorders sciences	16,762	4.0	2,355	5.4	52	4.0	797	2.3	719	2.3	16	2.8	11,494	6.6	446	4.0	669	4.0	214	0.2
Dental sciences	1,366	0.3	87	0.2	2	0.2	212	0.6	57	0.2	2	0.3	568	0.3	23	0.2	99	0.6	316	0.3
Kinesiology and exercise science	4,977	1.2	783	1.8	18	1.4	134	0.4	631	2.0	17	2.9	2,732	1.6	186	1.7	142	0.9	334	0.3
Nursing science	1,488	0.4	154	0.4	6	0.5	67	0.2	173	0.6	1	0.2	983	0.6	29	0.3	64	0.4	11	*
Pharmaceutical sciences	1,619	0.4	117	0.3	2	0.2	181	0.5	148	0.5	2	0.3	575	0.3	52	0.5	41	0.2	501	0.5
Other health nec	4,164	1.0	569	1.3	8	0.6	605	1.7	525	1.7	9	1.6	1,749	1.0	100	0.9	193	1.2	406	0.4

* = value < 0.05%; ne = not eligible.

nec = not elsewhere classified.

[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. 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.

TABLE 4-4c

Citizenship, ethnicity, and race of doctoral students, by detailed field: 2020

(Number and percent)

Detailed 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 detailed fields	283,335	100.0	18,929	100.0	758	100.0	18,019	100.0	11,074	100.0	200	100.0	108,965	100.0	6,510	100.0	8,291	100.0	110,589	100.0
Science	196,742	69.4	14,856	78.5	617	81.4	12,542	69.6	7,925	71.6	150	75.0	82,872	76.1	4,951	76.1	6,369	76.8	66,460	60.1
Agricultural and veterinary sciences	4,313	1.5	197	1.0	7	0.9	128	0.7	99	0.9	1	0.5	1,794	1.6	78	1.2	87	1.0	1,922	1.7
Agricultural sciences	3,791	1.3	173	0.9	7	0.9	108	0.6	87	0.8	1	0.5	1,548	1.4	60	0.9	73	0.9	1,734	1.6
Veterinary biomedical and clinical sciences	522	0.2	24	0.1	0	0.0	20	0.1	12	0.1	0	0.0	246	0.2	18	0.3	14	0.2	188	0.2
Biological and biomedical sciences	54,905	19.4	4,978	26.3	186	24.5	4,838	26.8	2,215	20.0	53	26.5	25,932	23.8	1,543	23.7	1,746	21.1	13,414	12.1
Biochemistry	4,648	1.6	451	2.4	20	2.6	383	2.1	161	1.5	7	3.5	2,170	2.0	129	2.0	86	1.0	1,241	1.1
Biology	7,268	2.6	657	3.5	20	2.6	460	2.6	267	2.4	6	3.0	3,536	3.2	190	2.9	225	2.7	1,907	1.7
Biomedical sciences	4,514	1.6	432	2.3	18	2.4	433	2.4	273	2.5	6	3.0	2,100	1.9	143	2.2	135	1.6	974	0.9
Biophysics	860	0.3	68	0.4	2	0.3	109	0.6	14	0.1	1	0.5	346	0.3	19	0.3	29	0.3	272	0.2
Biostatistics and bioinformatics	3,339	1.2	119	0.6	3	0.4	417	2.3	72	0.7	2	1.0	1,047	1.0	70	1.1	139	1.7	1,470	1.3
Biotechnology	101	*	8	*	0	0.0	8	*	3	*	0	0.0	50	*	2	*	2	*	28	*
Botany and plant biology	1,255	0.4	109	0.6	3	0.4	57	0.3	28	0.3	1	0.5	575	0.5	33	0.5	35	0.4	414	0.4
Cell, cellular biology, and anatomical sciences	5,008	1.8	550	2.9	24	3.2	500	2.8	168	1.5	7	3.5	2,314	2.1	148	2.3	142	1.7	1,155	1.0
Ecology and population biology	2,725	1.0	238	1.3	8	1.1	110	0.6	78	0.7	4	2.0	1,634	1.5	76	1.2	108	1.3	469	0.4
Epidemiology	2,032	0.7	130	0.7	8	1.1	244	1.4	150	1.4	2	1.0	820	0.8	56	0.9	70	0.8	552	0.5
Genetics	2,182	0.8	198	1.0	11	1.5	192	1.1	73	0.7	3	1.5	1,088	1.0	63	1.0	47	0.6	507	0.5
Microbiological sciences and immunology	4,124	1.5	413	2.2	15	2.0	383	2.1	169	1.5	4	2.0	2,149	2.0	127	2.0	128	1.5	736	0.7
Molecular biology	1,240	0.4	142	0.8	3	0.4	138	0.8	31	0.3	0	0.0	557	0.5	28	0.4	32	0.4	309	0.3
Neurobiology and neuroscience	5,275	1.9	590	3.1	17	2.2	529	2.9	227	2.0	1	0.5	2,701	2.5	177	2.7	175	2.1	858	0.8
Nutrition science	989	0.3	65	0.3	1	0.1	62	0.3	52	0.5	0	0.0	461	0.4	27	0.4	17	0.2	304	0.3
Pathology and experimental pathology	753	0.3	71	0.4	4	0.5	64	0.4	36	0.3	0	0.0	309	0.3	22	0.3	58	0.7	189	0.2
Pharmacology and toxicology	2,174	0.8	201	1.1	6	0.8	233	1.3	144	1.3	2	1.0	946	0.9	73	1.1	85	1.0	484	0.4
Physiology	2,758	1.0	227	1.2	9	1.2	253	1.4	119	1.1	2	1.0	1,275	1.2	66	1.0	97	1.2	710	0.6
Zoology and animal biology	1,178	0.4	77	0.4	2	0.3	32	0.2	30	0.3	0	0.0	693	0.6	30	0.5	43	0.5	271	0.2
Biological and biomedical sciences nec	2,482	0.9	232	1.2	12	1.6	231	1.3	120	1.1	5	2.5	1,161	1.1	64	1.0	93	1.1	564	0.5
Computer and information sciences	18,174	6.4	448	2.4	14	1.8	1,220	6.8	468	4.2	8	4.0	3,931	3.6	270	4.1	508	6.1	11,307	10.2
Artificial intelligence, informatics, and computer and information science topics	956	0.3	27	0.1	2	0.3	55	0.3	40	0.4	0	0.0	222	0.2	12	0.2	26	0.3	572	0.5
Computer and information sciences	5,482	1.9	126	0.7	5	0.7	284	1.6	104	0.9	4	2.0	1,173	1.1	64	1.0	115	1.4	3,607	3.3
Computer and information systems security	270	0.1	23	0.1	1	0.1	27	0.1	53	0.5	2	1.0	107	0.1	5	0.1	5	0.1	47	*
Computer science	9,658	3.4	185	1.0	2	0.3	710	3.9	128	1.2	1	0.5	1,914	1.8	147	2.3	321	3.9	6,250	5.7

TABLE 4-4c

Citizenship, ethnicity, and race of doctoral students, by detailed field: 2020

(Number and percent)

Detailed 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
Information science and studies	1,245	0.4	63	0.3	4	0.5	93	0.5	97	0.9	1	0.5	375	0.3	24	0.4	32	0.4	556	0.5
Information technology	405	0.1	17	0.1	0	0.0	35	0.2	28	0.3	0	0.0	90	0.1	11	0.2	9	0.1	215	0.2
Computer and information sciences nec	158	0.1	7	*	0	0.0	16	0.1	18	0.2	0	0.0	50	*	7	0.1	0	0.0	60	0.1
Geosciences, atmospheric sciences, and ocean sciences	6,515	2.3	447	2.4	14	1.8	246	1.4	119	1.1	1	0.5	3,333	3.1	196	3.0	212	2.6	1,947	1.8
Atmospheric sciences and meteorology	847	0.3	39	0.2	0	0.0	21	0.1	14	0.1	0	0.0	429	0.4	16	0.2	29	0.3	299	0.3
Geological and earth sciences	4,165	1.5	296	1.6	12	1.6	171	0.9	79	0.7	0	0.0	2,052	1.9	118	1.8	120	1.4	1,317	1.2
Ocean and marine sciences	1,503	0.5	112	0.6	2	0.3	54	0.3	26	0.2	1	0.5	852	0.8	62	1.0	63	0.8	331	0.3
Geosciences, atmospheric sciences, and ocean sciences nec	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Mathematics and statistics	13,687	4.8	625	3.3	13	1.7	833	4.6	204	1.8	3	1.5	4,488	4.1	251	3.9	376	4.5	6,894	6.2
Applied mathematics	2,211	0.8	120	0.6	2	0.3	127	0.7	57	0.5	0	0.0	773	0.7	58	0.9	42	0.5	1,032	0.9
Mathematics	8,089	2.9	433	2.3	6	0.8	486	2.7	104	0.9	1	0.5	3,041	2.8	151	2.3	252	3.0	3,615	3.3
Statistics	3,387	1.2	72	0.4	5	0.7	220	1.2	43	0.4	2	1.0	674	0.6	42	0.6	82	1.0	2,247	2.0
Multidisciplinary and interdisciplinary studies	3,553	1.3	249	1.3	9	1.2	243	1.3	209	1.9	6	3.0	1,576	1.4	77	1.2	125	1.5	1,059	1.0
Biological and physical sciences	815	0.3	49	0.3	1	0.1	56	0.3	34	0.3	5	2.5	364	0.3	14	0.2	27	0.3	265	0.2
Computational science	298	0.1	20	0.1	0	0.0	19	0.1	14	0.1	0	0.0	92	0.1	7	0.1	14	0.2	132	0.1
Data science and data analytics	42	*	0	0.0	0	0.0	3	*	2	*	0	0.0	7	*	0	0.0	0	0.0	30	*
International and global studies	173	0.1	31	0.2	1	0.1	3	*	20	0.2	0	0.0	56	0.1	1	*	5	0.1	56	0.1
Multidisciplinary and interdisciplinary studies nec	2,225	0.8	149	0.8	7	0.9	162	0.9	139	1.3	1	0.5	1,057	1.0	55	0.8	79	1.0	576	0.5
Natural resources and conservation	3,705	1.3	298	1.6	35	4.6	99	0.5	156	1.4	3	1.5	1,977	1.8	81	1.2	146	1.8	910	0.8
Environmental science and studies	1,799	0.6	184	1.0	16	2.1	57	0.3	95	0.9	3	1.5	896	0.8	32	0.5	89	1.1	427	0.4
Forestry, natural resources, and conservation	1,906	0.7	114	0.6	19	2.5	42	0.2	61	0.6	0	0.0	1,081	1.0	49	0.8	57	0.7	483	0.4
Physical sciences	36,341	12.8	2,272	12.0	55	7.3	2,041	11.3	758	6.8	14	7.0	14,957	13.7	769	11.8	961	11.6	14,514	13.1
Astronomy and astrophysics	1,430	0.5	124	0.7	4	0.5	103	0.6	33	0.3	0	0.0	731	0.7	58	0.9	36	0.4	341	0.3
Chemistry	19,389	6.8	1,338	7.1	34	4.5	1,171	6.5	449	4.1	11	5.5	8,070	7.4	411	6.3	528	6.4	7,377	6.7
Materials sciences	1,028	0.4	50	0.3	1	0.1	71	0.4	36	0.3	1	0.5	332	0.3	8	0.1	44	0.5	485	0.4
Physics	13,985	4.9	750	4.0	16	2.1	685	3.8	196	1.8	2	1.0	5,649	5.2	285	4.4	339	4.1	6,063	5.5
Physical sciences nec	509	0.2	10	0.1	0	0.0	11	0.1	44	0.4	0	0.0	175	0.2	7	0.1	14	0.2	248	0.2
Psychology	21,115	7.5	2,798	14.8	97	12.8	1,265	7.0	1,619	14.6	21	10.5	11,412	10.5	870	13.4	794	9.6	2,239	2.0
Applied psychology	4,833	1.7	716	3.8	34	4.5	245	1.4	522	4.7	6	3.0	2,539	2.3	170	2.6	132	1.6	469	0.4
Clinical psychology	3,668	1.3	669	3.5	13	1.7	230	1.3	206	1.9	2	1.0	1,977	1.8	212	3.3	220	2.7	139	0.1
Counseling psychology	1,360	0.5	185	1.0	5	0.7	106	0.6	205	1.9	1	0.5	662	0.6	46	0.7	51	0.6	99	0.1

TABLE 4-4c

Citizenship, ethnicity, and race of doctoral students, by detailed field: 2020

(Number and percent)

Detailed 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
Human development	742	0.3	66	0.3	2	0.3	30	0.2	94	0.8	1	0.5	374	0.3	31	0.5	15	0.2	129	0.1
Psychology, general	6,601	2.3	825	4.4	31	4.1	371	2.1	416	3.8	9	4.5	3,807	3.5	278	4.3	285	3.4	579	0.5
Research and experimental psychology	3,911	1.4	337	1.8	12	1.6	283	1.6	176	1.6	2	1.0	2,053	1.9	133	2.0	91	1.1	824	0.7
Social sciences	34,434	12.2	2,544	13.4	187	24.7	1,629	9.0	2,078	18.8	40	20.0	13,472	12.4	816	12.5	1,414	17.1	12,254	11.1
Agricultural and natural resource economics	639	0.2	15	0.1	0	0.0	27	0.1	13	0.1	0	0.0	146	0.1	2	*	13	0.2	423	0.4
Anthropology	4,296	1.5	415	2.2	45	5.9	171	0.9	141	1.3	6	3.0	2,235	2.1	151	2.3	235	2.8	897	0.8
Area, ethnic, cultural, gender, and group studies	2,482	0.9	386	2.0	63	8.3	135	0.7	388	3.5	6	3.0	787	0.7	86	1.3	103	1.2	528	0.5
Criminal justice and safety studies	988	0.3	92	0.5	4	0.5	19	0.1	143	1.3	2	1.0	511	0.5	34	0.5	115	1.4	68	0.1
Criminology	318	0.1	38	0.2	0	0.0	12	0.1	19	0.2	0	0.0	201	0.2	6	0.1	7	0.1	35	*
Economics (except agricultural and natural resource)	7,959	2.8	205	1.1	4	0.5	388	2.2	123	1.1	2	1.0	1,750	1.6	69	1.1	169	2.0	5,249	4.7
Geography and cartography	1,652	0.6	125	0.7	8	1.1	60	0.3	52	0.5	2	1.0	724	0.7	31	0.5	75	0.9	575	0.5
International relations and national security studies	408	0.1	34	0.2	1	0.1	20	0.1	27	0.2	0	0.0	161	0.1	8	0.1	6	0.1	151	0.1
Linguistics	1,686	0.6	93	0.5	16	2.1	80	0.4	30	0.3	0	0.0	649	0.6	47	0.7	61	0.7	710	0.6
Political science and government	5,366	1.9	327	1.7	13	1.7	225	1.2	246	2.2	7	3.5	2,516	2.3	136	2.1	221	2.7	1,675	1.5
Public policy analysis	2,547	0.9	177	0.9	13	1.7	169	0.9	334	3.0	3	1.5	997	0.9	72	1.1	152	1.8	630	0.6
Sociology and population studies	5,067	1.8	575	3.0	17	2.2	281	1.6	488	4.4	7	3.5	2,320	2.1	152	2.3	195	2.4	1,032	0.9
Urban studies and affairs	405	0.1	23	0.1	0	0.0	15	0.1	54	0.5	0	0.0	158	0.1	6	0.1	30	0.4	119	0.1
Social sciences, other	621	0.2	39	0.2	3	0.4	27	0.1	20	0.2	5	2.5	317	0.3	16	0.2	32	0.4	162	0.1
Engineering	71,279	25.2	2,940	15.5	79	10.4	4,392	24.4	1,631	14.7	30	15.0	19,064	17.5	1,194	18.3	1,430	17.2	40,519	36.6
Aerospace, aeronautical, and astronautical engineering	2,645	0.9	116	0.6	4	0.5	183	1.0	48	0.4	5	2.5	1,073	1.0	75	1.2	44	0.5	1,097	1.0
Biological, biomedical, and biosystems engineering	8,239	2.9	573	3.0	15	2.0	1,002	5.6	262	2.4	10	5.0	3,240	3.0	246	3.8	239	2.9	2,652	2.4
Chemical, petroleum, and chemical-related engineering	7,612	2.7	307	1.6	12	1.6	560	3.1	143	1.3	3	1.5	2,329	2.1	136	2.1	119	1.4	4,003	3.6
Chemical engineering	7,031	2.5	302	1.6	12	1.6	544	3.0	131	1.2	3	1.5	2,273	2.1	132	2.0	107	1.3	3,527	3.2
Petroleum engineering	581	0.2	5	*	0	0.0	16	0.1	12	0.1	0	0.0	56	0.1	4	0.1	12	0.1	476	0.4
Civil, environmental, transportation and related engineering fields	7,485	2.6	288	1.5	10	1.3	243	1.3	162	1.5	3	1.5	1,549	1.4	86	1.3	121	1.5	5,023	4.5
Civil engineering	6,517	2.3	235	1.2	9	1.2	200	1.1	131	1.2	2	1.0	1,281	1.2	66	1.0	100	1.2	4,493	4.1
Architectural, environmental, construction and surveying engineering	968	0.3	53	0.3	1	0.1	43	0.2	31	0.3	1	0.5	268	0.2	20	0.3	21	0.3	530	0.5
Electrical, electronics, communications and computer engineering	17,720	6.3	458	2.4	7	0.9	956	5.3	300	2.7	1	0.5	3,099	2.8	161	2.5	347	4.2	12,391	11.2
Electrical, electronics, and communications engineering	14,694	5.2	397	2.1	3	0.4	803	4.5	234	2.1	1	0.5	2,553	2.3	129	2.0	261	3.1	10,313	9.3

TABLE 4-4c

Citizenship, ethnicity, and race of doctoral students, by detailed field: 2020

(Number and percent)

Detailed 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
Computer engineering	3,026	1.1	61	0.3	4	0.5	153	0.8	66	0.6	0	0.0	546	0.5	32	0.5	86	1.0	2,078	1.9
Industrial, manufacturing, systems engineering and operations research	3,839	1.4	96	0.5	2	0.3	177	1.0	135	1.2	1	0.5	868	0.8	50	0.8	95	1.1	2,415	2.2
Industrial and manufacturing engineering	2,413	0.9	55	0.3	1	0.1	80	0.4	74	0.7	0	0.0	422	0.4	18	0.3	45	0.5	1,718	1.6
Systems engineering and operations research	1,426	0.5	41	0.2	1	0.1	97	0.5	61	0.6	1	0.5	446	0.4	32	0.5	50	0.6	697	0.6
Mechanical engineering	11,477	4.1	556	2.9	14	1.8	580	3.2	225	2.0	1	0.5	3,004	2.8	197	3.0	228	2.7	6,672	6.0
Metallurgical, mining, materials and related engineering fields	4,882	1.7	263	1.4	5	0.7	338	1.9	103	0.9	2	1.0	1,557	1.4	100	1.5	81	1.0	2,433	2.2
Other engineering	7,380	2.6	283	1.5	10	1.3	353	2.0	253	2.3	4	2.0	2,345	2.2	143	2.2	156	1.9	3,833	3.5
Agricultural engineering	654	0.2	23	0.1	1	0.1	27	0.1	18	0.2	1	0.5	147	0.1	15	0.2	14	0.2	408	0.4
Engineering mechanics, physics, and science	1,468	0.5	59	0.3	2	0.3	92	0.5	24	0.2	1	0.5	436	0.4	33	0.5	30	0.4	791	0.7
Nuclear engineering	1,038	0.4	64	0.3	2	0.3	40	0.2	22	0.2	0	0.0	517	0.5	34	0.5	34	0.4	325	0.3
Engineering, other	4,220	1.5	137	0.7	5	0.7	194	1.1	189	1.7	2	1.0	1,245	1.1	61	0.9	78	0.9	2,309	2.1
Health	15,314	5.4	1,133	6.0	62	8.2	1,085	6.0	1,518	13.7	20	10.0	7,029	6.5	365	5.6	492	5.9	3,610	3.3
Clinical medicine[a]	4,796	1.7	482	2.5	39	5.1	389	2.2	615	5.6	12	6.0	2,003	1.8	152	2.3	156	1.9	948	0.9
Medical clinical sciences and clinical and medical laboratory sciences	443	0.2	41	0.2	5	0.7	40	0.2	23	0.2	2	1.0	229	0.2	11	0.2	18	0.2	74	0.1
Public health	4,353	1.5	441	2.3	34	4.5	349	1.9	592	5.3	10	5.0	1,774	1.6	141	2.2	138	1.7	874	0.8
Anesthesiology	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Cardiology and cardiovascular disease	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Endocrinology, diabetes, and metabolism	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Gastroenterology	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Hematology	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Neurology and neurosurgery	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Obstetrics and gynecology	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Oncology and cancer research	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Ophthalmology	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Otorhinolaryngology	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Pediatrics	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Psychiatry	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Pulmonary disease	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Radiological sciences	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne

TABLE 4-4c

Citizenship, ethnicity, and race of doctoral students, by detailed field: 2020

(Number and percent)

Detailed 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
Surgery	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Clinical medicine nec	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Other health	10,518	3.7	651	3.4	23	3.0	696	3.9	903	8.2	8	4.0	5,026	4.6	213	3.3	336	4.1	2,662	2.4
Communication disorders sciences	844	0.3	74	0.4	0	0.0	45	0.2	44	0.4	1	0.5	502	0.5	19	0.3	25	0.3	134	0.1
Dental sciences	217	0.1	7	*	0	0.0	19	0.1	4	*	0	0.0	52	*	4	0.1	5	0.1	126	0.1
Kinesiology and exercise science	1,024	0.4	63	0.3	3	0.4	34	0.2	51	0.5	0	0.0	601	0.6	26	0.4	20	0.2	226	0.2
Nursing science	3,359	1.2	208	1.1	10	1.3	196	1.1	458	4.1	4	2.0	1,950	1.8	67	1.0	105	1.3	361	0.3
Pharmaceutical sciences	2,893	1.0	144	0.8	2	0.3	226	1.3	126	1.1	1	0.5	792	0.7	51	0.8	88	1.1	1,463	1.3
Other health nec	2,181	0.8	155	0.8	8	1.1	176	1.0	220	2.0	2	1.0	1,129	1.0	46	0.7	93	1.1	352	0.3

* = value < 0.05%; ne = not eligible.

nec = not elsewhere classified.

[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. 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.

TABLE 4-5

Units and institutions with graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers, by detailed field: 2020

(Number)

Detailed field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Units	Institutions	Units	Institutions	Units	Institutions	Units	Institutions	Units	Institutions
All detailed fields	13,659	705	10,704	695	7,205	404	7,613	338	5,671	270
Science	9,720	682	7,364	666	5,161	374	4,399	325	3,258	258
Agricultural and veterinary sciences	333	90	299	89	212	55	259	69	236	59
Agricultural sciences	300	88	275	88	187	54	179	53	169	47
Veterinary biomedical and clinical sciences	33	25	24	22	25	20	80	41	67	31
Biological and biomedical sciences	2,632	507	1,591	487	1,814	285	1,796	273	1,271	201
Biochemistry	180	149	87	79	150	126	140	109	118	90
Biology	382	347	336	318	162	151	186	163	139	108
Biomedical sciences	174	125	119	94	100	80	71	51	33	31
Biophysics	39	36	6	6	39	36	19	15	13	13
Biostatistics and bioinformatics	194	118	139	98	120	81	89	54	64	42
Biotechnology	85	73	80	68	7	7	20	18	14	12
Botany and plant biology	68	49	55	45	58	42	48	35	31	22
Cell, cellular biology, and anatomical sciences	186	128	76	67	154	110	116	89	83	69
Ecology and population biology	108	88	74	62	78	64	53	44	42	34
Epidemiology	86	72	61	55	63	59	40	38	28	28
Genetics	93	70	49	41	71	59	100	64	80	50
Microbiological sciences and immunology	172	127	82	70	143	110	156	109	122	78
Molecular biology	54	48	20	20	41	35	50	39	30	23
Neurobiology and neuroscience	169	134	42	40	153	125	146	96	101	68
Nutrition science	103	84	87	75	56	52	42	30	25	22
Pathology and experimental pathology	43	41	12	12	37	37	80	52	46	37
Pharmacology and toxicology	135	103	56	53	117	92	100	80	73	60
Physiology	192	133	107	88	137	100	188	93	116	66
Zoology and animal biology	72	49	59	44	64	44	46	37	37	31
Biological and biomedical sciences nec	97	66	44	35	64	49	106	51	76	34
Computer and information sciences	976	425	899	421	275	179	169	126	138	81
Artificial intelligence, informatics, and computer and information science topics	78	60	69	56	18	14	16	14	18	16
Computer and information sciences	209	165	180	161	81	64	47	46	28	22
Computer and information systems security	123	103	121	102	6	5	3	3	1	1
Computer science	268	226	252	219	116	105	76	69	57	49
Information science and studies	129	95	118	91	31	27	10	10	10	8
Information technology	84	68	81	67	10	8	5	5	4	4
Computer and information sciences nec	85	67	78	64	13	12	12	10	20	15
Geosciences, atmospheric sciences, and ocean sciences	396	222	338	206	267	155	258	144	219	111
Atmospheric sciences and meteorology	51	47	43	40	43	41	42	30	43	29
Geological and earth sciences	260	193	225	177	166	133	140	113	117	80

TABLE 4-5

Units and institutions with graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers, by detailed field: 2020

(Number)

Detailed field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Units	Institutions	Units	Institutions	Units	Institutions	Units	Institutions	Units	Institutions
Ocean and marine sciences	85	60	70	54	58	46	52	39	43	32
Geosciences, atmospheric sciences, and ocean sciences nec	ne	ne	ne	ne	ne	ne	24	9	16	8
Mathematics and statistics	710	349	614	340	331	191	176	127	68	47
Applied mathematics	200	150	162	129	79	70	31	30	13	11
Mathematics	318	291	278	263	163	157	104	97	28	27
Statistics	192	159	174	153	89	82	41	39	27	25
Multidisciplinary and interdisciplinary studies	354	209	279	184	124	93	179	90	151	74
Biological and physical sciences	37	34	31	28	15	15	17	14	13	12
Computational science	47	41	37	33	15	14	8	8	6	6
Data science and data analytics	35	32	34	31	2	2	14	11	10	9
International and global studies	30	28	27	26	7	6	6	6	10	8
Multidisciplinary and interdisciplinary studies nec	205	139	150	112	85	66	134	69	112	53
Natural resources and conservation	354	207	302	195	152	101	139	87	126	67
Environmental science and studies	199	154	163	136	70	57	55	48	44	36
Forestry, natural resources, and conservation	155	87	139	85	82	55	84	49	82	42
Physical sciences	783	329	572	308	545	227	565	227	420	173
Astronomy and astrophysics	58	51	15	15	51	46	66	49	55	37
Chemistry	354	307	284	262	224	203	223	196	164	144
Materials sciences	59	47	37	33	47	39	29	21	24	18
Physics	284	239	215	198	210	187	226	184	155	119
Physical sciences nec	28	25	21	20	13	12	21	19	22	16
Psychology	1,143	470	827	426	503	234	249	147	167	107
Applied psychology	391	275	330	246	141	115	36	29	21	18
Clinical psychology	126	114	65	59	71	68	17	16	7	7
Counseling psychology	130	118	97	89	44	44	8	8	5	4
Human development	71	65	63	61	27	25	41	32	32	24
Psychology, general	274	251	204	196	117	105	104	95	77	72
Research and experimental psychology	151	109	68	54	103	80	43	37	25	22
Social sciences	2,039	408	1,643	395	938	204	609	152	462	132
Agricultural and natural resource economics	42	38	36	36	20	18	20	18	18	17
Anthropology	173	156	134	128	103	99	66	58	39	35
Area, ethnic, cultural, gender, and group studies	311	139	249	128	121	67	102	41	57	28
Criminal justice and safety studies	112	105	108	103	21	21	10	9	8	8
Criminology	42	41	39	39	14	14	2	2	3	3
Economics (except agricultural and natural resource)	268	200	211	171	146	128	56	46	48	43
Geography and cartography	169	140	162	138	69	66	46	39	32	23
International relations and national security studies	98	79	94	76	13	13	16	12	11	8
Linguistics	104	91	74	67	63	59	27	26	14	13
Political science and government	211	193	161	153	127	123	48	44	27	23

TABLE 4-5

Units and institutions with graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers, by detailed field: 2020

(Number)

Detailed field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Units	Institutions	Units	Institutions	Units	Institutions	Units	Institutions	Units	Institutions
Public policy analysis	148	107	112	85	60	52	61	42	73	46
Sociology and population studies	230	208	162	152	127	120	61	50	47	39
Urban studies and affairs	37	31	30	26	14	13	4	4	8	8
Social sciences, other	94	75	71	60	40	37	90	53	77	33
Engineering	2,459	330	2,188	325	1,416	229	1,108	203	851	174
Aerospace, aeronautical, and astronautical engineering	69	61	65	60	51	48	35	31	29	25
Biological, biomedical, and biosystems engineering	220	175	186	157	155	138	156	116	102	84
Chemical, petroleum, and chemical-related engineering	189	143	169	136	144	121	139	113	86	68
Chemical engineering	163	139	145	131	128	120	127	112	75	67
Petroleum engineering	26	24	24	24	16	16	12	11	11	10
Civil, environmental, transportation and related engineering fields	379	203	350	201	203	139	175	121	127	88
Civil engineering	249	194	233	192	151	135	152	108	112	81
Architectural, environmental, construction and surveying engineering	130	95	117	91	52	45	23	23	15	15
Electrical, electronics, communications and computer engineering	466	256	434	254	242	174	160	132	139	101
Electrical, electronics, and communications engineering	287	232	265	227	172	166	144	125	127	98
Computer engineering	179	133	169	132	70	65	16	14	12	12
Industrial, manufacturing, systems engineering and operations research	243	148	222	140	110	87	49	40	43	29
Industrial and manufacturing engineering	134	108	129	105	61	59	30	27	22	18
Systems engineering and operations research	109	75	93	70	49	35	19	14	21	15
Mechanical engineering	284	228	263	224	169	157	148	134	99	88
Metallurgical, mining, materials and related engineering fields	152	97	133	90	109	82	85	63	64	45
Other engineering	457	189	366	169	233	124	161	92	162	84
Agricultural engineering	32	26	29	26	27	23	20	19	15	15
Engineering mechanics, physics, and science	72	51	51	39	45	36	20	17	20	15
Nuclear engineering	33	28	31	28	30	26	13	13	11	9
Engineering, other	320	158	255	140	131	82	108	71	116	71
Health	1,480	440	1,152	420	628	215	2,106	173	1,562	146
Clinical medicine[a]	538	255	473	252	195	108	1,743	133	1,268	105
Medical clinical sciences and clinical and medical laboratory sciences	62	53	50	44	23	22	46	35	55	32
Public health	476	245	423	242	172	99	177	88	137	69
Anesthesiology	ne	ne	ne	ne	ne	ne	56	45	38	30
Cardiology and cardiovascular disease	ne	ne	ne	ne	ne	ne	54	38	34	26

TABLE 4-5

Units and institutions with graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers, by detailed field: 2020

(Number)

Detailed field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Units	Institutions	Units	Institutions	Units	Institutions	Units	Institutions	Units	Institutions
Endocrinology, diabetes, and metabolism	ne	ne	ne	ne	ne	ne	43	36	29	26
Gastroenterology	ne	ne	ne	ne	ne	ne	41	35	20	19
Hematology	ne	ne	ne	ne	ne	ne	30	24	27	21
Neurology and neurosurgery	ne	ne	ne	ne	ne	ne	121	56	75	43
Obstetrics and gynecology	ne	ne	ne	ne	ne	ne	54	40	33	29
Oncology and cancer research	ne	ne	ne	ne	ne	ne	110	47	65	35
Ophthalmology	ne	ne	ne	ne	ne	ne	70	53	46	37
Otorhinolaryngology	ne	ne	ne	ne	ne	ne	37	34	28	27
Pediatrics	ne	ne	ne	ne	ne	ne	132	60	96	48
Psychiatry	ne	ne	ne	ne	ne	ne	83	52	51	38
Pulmonary disease	ne	ne	ne	ne	ne	ne	43	37	28	24
Radiological sciences	ne	ne	ne	ne	ne	ne	110	53	70	38
Surgery	ne	ne	ne	ne	ne	ne	175	62	127	50
Clinical medicine nec	ne	ne	ne	ne	ne	ne	361	79	309	62
Other health	942	388	679	352	433	194	363	131	294	106
Communication disorders sciences	249	226	228	220	68	62	32	30	24	22
Dental sciences	87	43	79	41	19	17	56	34	35	22
Kinesiology and exercise science	159	150	151	145	42	40	29	27	20	20
Nursing science	137	127	22	22	121	115	49	43	38	30
Pharmaceutical sciences	127	84	83	60	95	65	93	62	83	51
Other health nec	183	126	116	90	88	68	104	63	94	47

ne = not eligible.

nec = not elsewhere classified.

[a] Clinical medicine includes graduate students in public health and in medical clinical sciences and clinical and medical laboratory sciences. Clinical medicine includes postdoctoral appointees and nonfaculty researchers in anesthesiology, cardiology, endocrinology, gastroenterology, hematology, neurology, obstetrics and gynecology, oncology and cancer research, ophthalmology, otorhinolaryngology, pediatrics, psychiatry, public health, pulmonary disease, radiological sciences, surgery, and clinical medicine nec.

Note(s):
"Field" refers to the field of the unit that reports postdoctoral appointees and doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Unit counts do not sum across columns. For more information on the mapping of GSS 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.

TABLE 4-6a

Agricultural and veterinary sciences master's and doctoral student demographics, enrollment status, and funding: 2020

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Institutions	90	12.6	89	12.5	55	7.7
Schools	90	11.2	89	11.0	55	6.8
Units	333	1.6	299	1.4	212	1.0
All graduate students	10,800	100.0	6,487	100.0	4,313	100.0
Male	4,402	40.8	2,445	37.7	1,957	45.4
Female	6,398	59.2	4,042	62.3	2,356	54.6
U.S. citizens and permanent residents[a]	7,844	72.6	5,453	84.1	2,391	55.4
Hispanic or Latino	823	7.6	626	9.7	197	4.6
Not Hispanic or Latino						
American Indian or Alaska Native	27	0.3	20	0.3	7	0.2
Asian	335	3.1	207	3.2	128	3.0
Black or African American	378	3.5	279	4.3	99	2.3
Native Hawaiian or Other Pacific Islander	15	0.1	14	0.2	1	*
White	5,743	53.2	3,949	60.9	1,794	41.6
More than one race	231	2.1	153	2.4	78	1.8
Unknown ethnicity and race	292	2.7	205	3.2	87	2.0
Temporary visa holders	2,956	27.4	1,034	15.9	1,922	44.6
Part time	3,529	32.7	2,756	42.5	773	17.9
Full time	7,271	67.3	3,731	57.5	3,540	82.1
First time	1,730	16.0	1,291	19.9	439	10.2
Primary source of support for full-time students[b]						
Federal	1,437	13.3	590	9.1	847	19.6
DOD	12	0.1	2	*	10	0.2
DOE	17	0.2	3	*	14	0.3
HHS	208	1.9	60	0.9	148	3.4
NIH	126	1.2	25	0.4	101	2.3
Other HHS	82	0.8	35	0.5	47	1.1
NASA	3	*	0	0.0	3	0.1
NSF	127	1.2	40	0.6	87	2.0
USDA	905	8.4	398	6.1	507	11.8
Other	165	1.5	87	1.3	78	1.8
Nonfederal	4,528	41.9	2,167	33.4	2,361	54.7
Institutional	3,671	34.0	1,750	27.0	1,921	44.5
Domestic	794	7.4	393	6.1	401	9.3
Foreign	63	0.6	24	0.4	39	0.9
Self-support	1,306	12.1	974	15.0	332	7.7
Primary mechanism of support for full-time students[b]						
Fellowships	406	3.8	119	1.8	287	6.7
Research assistantships	4,128	38.2	1,880	29.0	2,248	52.1
Teaching assistantships	992	9.2	468	7.2	524	12.1
Traineeships	69	0.6	45	0.7	24	0.6
Other types of support	1,676	15.5	1,219	18.8	457	10.6
Self-support	1,306	12.1	974	15.0	332	7.7
Other	370	3.4	245	3.8	125	2.9

* = value < 0.05%.

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.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Funding data are available only for full-time students.

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.

TABLE 4-6b

Agricultural and veterinary sciences postdoctoral appointee and doctorate-holding nonfaculty researcher demographics and funding: 2020

(Number and percent)

Characteristic	Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	Number	Percent	Number	Percent
Institutions	69	9.7	59	8.3
Schools	70	8.7	59	7.3
Units	259	1.2	236	1.1
All individuals	1,678	100.0	964	100.0
Male	861	51.3	493	51.1
Female	817	48.7	471	48.9
U.S. citizens and permanent residents[a]	851	50.7	na	na
Hispanic or Latino	73	4.4	na	na
Not Hispanic or Latino				
American Indian or Alaska Native	5	0.3	na	na
Asian	150	8.9	na	na
Black or African American	14	0.8	na	na
Native Hawaiian or Other Pacific Islander	0	0.0	na	na
White	498	29.7	na	na
More than one race	12	0.7	na	na
Unknown ethnicity and race	99	5.9	na	na
Temporary visa holders	827	49.3	na	na
Primary source of support				
Federal	721	43.0	na	na
Nonfederal[b]	697	41.5	na	na
Personal resources	1	0.1	na	na
Unknown or not stated	259	15.4	na	na
Primary mechanism of support				
Fellowships	161	9.6	na	na
Research grants	971	57.9	na	na
Traineeships	99	5.9	na	na
Other types of support	447	26.6	na	na
Degree type[c]				
Doctoral degree	919	54.8	677	70.2
Professional degree	104	6.2	118	12.2
Dual degree	10	0.6	9	0.9
Doctoral degree type unknown	645	38.4	160	16.6
Degree origin				
United States	483	28.8	na	na
Foreign country	265	15.8	na	na
Unknown	930	55.4	na	na

na = not applicable; citizenship, race and ethnicity, source of support, mechanism of support, and degree origin data are not collected for doctorate-holding nonfaculty researchers.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Nonfederal includes foreign support.

[c] Doctoral degree includes PhD, ScD, DEng, etc.; professional degree includes MD, DVM, DO, DDS, etc.; dual degree includes both professional and doctoral degrees (MD-PhD, DVM-PhD, etc.).

Note(s):
"Field" refers to the field of the unit that reports postdoctorates and doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering. Percentages may not add to total because of rounding. For more information on the mapping of GSS 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.

TABLE 4-7a

Biological and biomedical sciences master's and doctoral student demographics, enrollment status, and funding: 2020

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Institutions	507	71.2	487	68.4	285	40.0
Schools	565	70.1	537	66.6	332	41.2
Units	2,632	12.4	1,591	7.5	1,814	8.6
All graduate students	94,825	100.0	39,920	100.0	54,905	100.0
Male	37,928	40.0	13,930	34.9	23,998	43.7
Female	56,897	60.0	25,990	65.1	30,907	56.3
U.S. citizens and permanent residents[a]	76,717	80.9	35,226	88.2	41,491	75.6
Hispanic or Latino	9,442	10.0	4,464	11.2	4,978	9.1
Not Hispanic or Latino						
American Indian or Alaska Native	297	0.3	111	0.3	186	0.3
Asian	9,520	10.0	4,682	11.7	4,838	8.8
Black or African American	6,049	6.4	3,834	9.6	2,215	4.0
Native Hawaiian or Other Pacific Islander	137	0.1	84	0.2	53	0.1
White	44,974	47.4	19,042	47.7	25,932	47.2
More than one race	2,851	3.0	1,308	3.3	1,543	2.8
Unknown ethnicity and race	3,447	3.6	1,701	4.3	1,746	3.2
Temporary visa holders	18,108	19.1	4,694	11.8	13,414	24.4
Part time	17,245	18.2	13,447	33.7	3,798	6.9
Full time	77,580	81.8	26,473	66.3	51,107	93.1
First time	23,141	24.4	14,311	35.8	8,830	16.1
Primary source of support for full-time students[b]						
Federal	19,427	20.5	1,286	3.2	18,141	33.0
DOD	398	0.4	74	0.2	324	0.6
DOE	155	0.2	9	*	146	0.3
HHS	14,354	15.1	390	1.0	13,964	25.4
NIH	13,399	14.1	321	0.8	13,078	23.8
Other HHS	955	1.0	69	0.2	886	1.6
NASA	66	0.1	10	*	56	0.1
NSF	2,573	2.7	204	0.5	2,369	4.3
USDA	686	0.7	197	0.5	489	0.9
Other	1,195	1.3	402	1.0	793	1.4
Nonfederal	37,846	39.9	7,125	17.8	30,721	56.0
Institutional	34,170	36.0	6,669	16.7	27,501	50.1
Domestic	3,226	3.4	349	0.9	2,877	5.2
Foreign	450	0.5	107	0.3	343	0.6
Self-support	20,307	21.4	18,062	45.2	2,245	4.1
Primary mechanism of support for full-time students[b]						
Fellowships	10,017	10.6	473	1.2	9,544	17.4
Research assistantships	24,296	25.6	2,294	5.7	22,002	40.1
Teaching assistantships	10,644	11.2	3,059	7.7	7,585	13.8
Traineeships	5,890	6.2	157	0.4	5,733	10.4
Other types of support	26,733	28.2	20,490	51.3	6,243	11.4
Self-support	20,307	21.4	18,062	45.2	2,245	4.1
Other	6,426	6.8	2,428	6.1	3,998	7.3

* = value < 0.05%.

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.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Funding data are available only for full-time students.

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.

TABLE 4-7b

Biological and biomedical sciences postdoctoral appointee and doctorate-holding nonfaculty researcher demographics and funding: 2020

(Number and percent)

Characteristic	Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	Number	Percent	Number	Percent
Institutions	273	38.3	201	28.2
Schools	333	41.3	236	29.3
Units	1,796	8.5	1,271	6.0
All individuals	21,902	100.0	8,112	100.0
Male	11,977	54.7	4,278	52.7
Female	9,925	45.3	3,834	47.3
U.S. citizens and permanent residents[a]	9,934	45.4	na	na
Hispanic or Latino	772	3.5	na	na
Not Hispanic or Latino				
American Indian or Alaska Native	25	0.1	na	na
Asian	1,978	9.0	na	na
Black or African American	308	1.4	na	na
Native Hawaiian or Other Pacific Islander	17	0.1	na	na
White	5,739	26.2	na	na
More than one race	158	0.7	na	na
Unknown ethnicity and race	937	4.3	na	na
Temporary visa holders	11,968	54.6	na	na
Primary source of support				
Federal	12,084	55.2	na	na
Nonfederal[b]	7,589	34.6	na	na
Personal resources	99	0.5	na	na
Unknown or not stated	2,130	9.7	na	na
Primary mechanism of support				
Fellowships	1,957	8.9	na	na
Research grants	14,439	65.9	na	na
Traineeships	940	4.3	na	na
Other types of support	4,566	20.8	na	na
Degree type[c]				
Doctoral degree	17,615	80.4	5,973	73.6
Professional degree	754	3.4	438	5.4
Dual degree	634	2.9	155	1.9
Doctoral degree type unknown	2,899	13.2	1,546	19.1
Degree origin				
United States	7,844	35.8	na	na
Foreign country	7,855	35.9	na	na
Unknown	6,203	28.3	na	na

na = not applicable; citizenship, race and ethnicity, source of support, mechanism of support, and degree origin data are not collected for doctorate-holding nonfaculty researchers.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Nonfederal includes foreign support.

[c] Doctoral degree includes PhD, ScD, DEng, etc.; professional degree includes MD, DVM, DO, DDS, etc.; dual degree includes both professional and doctoral degrees (MD-PhD, DVM-PhD, etc.).

Note(s):
"Field" refers to the field of the unit that reports postdoctorates and doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Percentages may not add to total because of rounding. For more information on the mapping of GSS 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.

TABLE 4-8a

Computer and information sciences master's and doctoral student demographics, enrollment status, and funding: 2020

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Institutions	425	59.7	421	59.1	179	25.1
Schools	436	54.1	432	53.6	183	22.7
Units	976	4.6	899	4.2	275	1.3
All graduate students	98,864	100.0	80,690	100.0	18,174	100.0
Male	68,122	68.9	54,834	68.0	13,288	73.1
Female	30,742	31.1	25,856	32.0	4,886	26.9
U.S. citizens and permanent residents[a]	51,796	52.4	44,929	55.7	6,867	37.8
Hispanic or Latino	4,989	5.0	4,541	5.6	448	2.5
Not Hispanic or Latino						
American Indian or Alaska Native	127	0.1	113	0.1	14	0.1
Asian	10,699	10.8	9,479	11.7	1,220	6.7
Black or African American	5,639	5.7	5,171	6.4	468	2.6
Native Hawaiian or Other Pacific Islander	70	0.1	62	0.1	8	*
White	25,311	25.6	21,380	26.5	3,931	21.6
More than one race	1,789	1.8	1,519	1.9	270	1.5
Unknown ethnicity and race	3,172	3.2	2,664	3.3	508	2.8
Temporary visa holders	47,068	47.6	35,761	44.3	11,307	62.2
Part time	43,462	44.0	40,761	50.5	2,701	14.9
Full time	55,402	56.0	39,929	49.5	15,473	85.1
First time	15,037	15.2	12,547	15.5	2,490	13.7
Primary source of support for full-time students[b]						
Federal	5,589	5.7	1,242	1.5	4,347	23.9
DOD	1,321	1.3	398	0.5	923	5.1
DOE	99	0.1	21	*	78	0.4
HHS	409	0.4	66	0.1	343	1.9
NIH	335	0.3	45	0.1	290	1.6
Other HHS	74	0.1	21	*	53	0.3
NASA	43	*	12	*	31	0.2
NSF	2,867	2.9	365	0.5	2,502	13.8
USDA	41	*	20	*	21	0.1
Other	809	0.8	360	0.4	449	2.5
Nonfederal	17,455	17.7	8,038	10.0	9,417	51.8
Institutional	15,688	15.9	7,493	9.3	8,195	45.1
Domestic	1,415	1.4	407	0.5	1,008	5.5
Foreign	352	0.4	138	0.2	214	1.2
Self-support	32,358	32.7	30,649	38.0	1,709	9.4
Primary mechanism of support for full-time students[b]						
Fellowships	2,318	2.3	465	0.6	1,853	10.2
Research assistantships	8,558	8.7	1,668	2.1	6,890	37.9
Teaching assistantships	7,268	7.4	3,258	4.0	4,010	22.1
Traineeships	371	0.4	205	0.3	166	0.9
Other types of support	36,887	37.3	34,333	42.5	2,554	14.1
Self-support	32,358	32.7	30,649	38.0	1,709	9.4
Other	4,529	4.6	3,684	4.6	845	4.6

* = value < 0.05%.

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.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Funding data are available only for full-time students.

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.

TABLE 4-8b

Computer and information sciences postdoctoral appointee and doctorate-holding nonfaculty researcher demographics and funding: 2020

(Number and percent)

Characteristic	Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	Number	Percent	Number	Percent
Institutions	126	17.7	81	11.4
Schools	129	16.0	82	10.2
Units	169	0.8	138	0.7
All individuals	823	100.0	458	100.0
Male	647	78.6	346	75.5
Female	176	21.4	112	24.5
U.S. citizens and permanent residents[a]	307	37.3	na	na
Hispanic or Latino	11	1.3	na	na
Not Hispanic or Latino				
American Indian or Alaska Native	0	0.0	na	na
Asian	67	8.1	na	na
Black or African American	6	0.7	na	na
Native Hawaiian or Other Pacific Islander	1	0.1	na	na
White	179	21.7	na	na
More than one race	4	0.5	na	na
Unknown ethnicity and race	39	4.7	na	na
Temporary visa holders	516	62.7	na	na
Primary source of support				
Federal	407	49.5	na	na
Nonfederal[b]	351	42.6	na	na
Personal resources	10	1.2	na	na
Unknown or not stated	55	6.7	na	na
Primary mechanism of support				
Fellowships	88	10.7	na	na
Research grants	552	67.1	na	na
Traineeships	18	2.2	na	na
Other types of support	165	20.0	na	na
Degree type[c]				
Doctoral degree	627	76.2	367	80.1
Professional degree	11	1.3	9	2.0
Dual degree	16	1.9	0	0.0
Doctoral degree type unknown	169	20.5	82	17.9
Degree origin				
United States	312	37.9	na	na
Foreign country	198	24.1	na	na
Unknown	313	38.0	na	na

na = not applicable; citizenship, race and ethnicity, source of support, mechanism of support, and degree origin data are not collected for doctorate-holding nonfaculty researchers.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Nonfederal includes foreign support.

[c] Doctoral degree includes PhD, ScD, DEng, etc.; professional degree includes MD, DVM, DO, DDS, etc.; dual degree includes both professional and doctoral degrees (MD-PhD, DVM-PhD, etc.).

Note(s):
"Field" refers to the field of the unit that reports postdoctorates and doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Percentages may not add to total because of rounding. For more information on the mapping of GSS 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.

TABLE 4-9a

Geosciences, atmospheric sciences, and ocean sciences master's and doctoral student demographics, enrollment status, and funding: 2020

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Institutions	222	31.2	206	28.9	155	21.8
Schools	226	28.0	209	25.9	156	19.4
Units	396	1.9	338	1.6	267	1.3
All graduate students	11,792	100.0	5,277	100.0	6,515	100.0
Male	6,023	51.1	2,639	50.0	3,384	51.9
Female	5,769	48.9	2,638	50.0	3,131	48.1
U.S. citizens and permanent residents[a]	9,429	80.0	4,861	92.1	4,568	70.1
Hispanic or Latino	943	8.0	496	9.4	447	6.9
Not Hispanic or Latino						
American Indian or Alaska Native	31	0.3	17	0.3	14	0.2
Asian	387	3.3	141	2.7	246	3.8
Black or African American	267	2.3	148	2.8	119	1.8
Native Hawaiian or Other Pacific Islander	8	0.1	7	0.1	1	*
White	7,036	59.7	3,703	70.2	3,333	51.2
More than one race	366	3.1	170	3.2	196	3.0
Unknown ethnicity and race	391	3.3	179	3.4	212	3.3
Temporary visa holders	2,363	20.0	416	7.9	1,947	29.9
Part time	2,336	19.8	1,628	30.9	708	10.9
Full time	9,456	80.2	3,649	69.1	5,807	89.1
First time	2,470	20.9	1,494	28.3	976	15.0
Primary source of support for full-time students[b]						
Federal	2,528	21.4	639	12.1	1,889	29.0
DOD	143	1.2	43	0.8	100	1.5
DOE	105	0.9	24	0.5	81	1.2
HHS	38	0.3	5	0.1	33	0.5
NIH	27	0.2	3	0.1	24	0.4
Other HHS	11	0.1	2	*	9	0.1
NASA	421	3.6	62	1.2	359	5.5
NSF	1,218	10.3	232	4.4	986	15.1
USDA	32	0.3	19	0.4	13	0.2
Other	571	4.8	254	4.8	317	4.9
Nonfederal	5,532	46.9	2,031	38.5	3,501	53.7
Institutional	5,022	42.6	1,889	35.8	3,133	48.1
Domestic	422	3.6	111	2.1	311	4.8
Foreign	88	0.7	31	0.6	57	0.9
Self-support	1,396	11.8	979	18.6	417	6.4
Primary mechanism of support for full-time students[b]						
Fellowships	1,133	9.6	130	2.5	1,003	15.4
Research assistantships	3,751	31.8	1,051	19.9	2,700	41.4
Teaching assistantships	2,529	21.4	1,186	22.5	1,343	20.6
Traineeships	99	0.8	16	0.3	83	1.3
Other types of support	1,944	16.5	1,266	24.0	678	10.4
Self-support	1,396	11.8	979	18.6	417	6.4
Other	548	4.6	287	5.4	261	4.0

* = value < 0.05%.

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.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Funding data are available only for full-time students.

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.

TABLE 4-9b

Geosciences, atmospheric sciences, and ocean sciences postdoctoral appointee and doctorate-holding nonfaculty researcher demographics and funding: 2020

(Number and percent)

Characteristic	Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	Number	Percent	Number	Percent
Institutions	144	20.2	111	15.6
Schools	144	17.9	112	13.9
Units	258	1.2	219	1.0
All individuals	1,790	100.0	2,150	100.0
Male	1,076	60.1	1,483	69.0
Female	714	39.9	667	31.0
U.S. citizens and permanent residents[a]	919	51.3	na	na
Hispanic or Latino	53	3.0	na	na
Not Hispanic or Latino				
American Indian or Alaska Native	1	0.1	na	na
Asian	95	5.3	na	na
Black or African American	21	1.2	na	na
Native Hawaiian or Other Pacific Islander	1	0.1	na	na
White	619	34.6	na	na
More than one race	32	1.8	na	na
Unknown ethnicity and race	97	5.4	na	na
Temporary visa holders	871	48.7	na	na
Primary source of support				
Federal	927	51.8	na	na
Nonfederal[b]	719	40.2	na	na
Personal resources	22	1.2	na	na
Unknown or not stated	122	6.8	na	na
Primary mechanism of support				
Fellowships	212	11.8	na	na
Research grants	1,221	68.2	na	na
Traineeships	20	1.1	na	na
Other types of support	337	18.8	na	na
Degree type[c]				
Doctoral degree	1,431	79.9	1,634	76.0
Professional degree	17	0.9	40	1.9
Dual degree	22	1.2	1	*
Doctoral degree type unknown	320	17.9	475	22.1
Degree origin				
United States	795	44.4	na	na
Foreign country	406	22.7	na	na
Unknown	589	32.9	na	na

* = value < 0.05%; na = not applicable; citizenship, race and ethnicity, source of support, mechanism of support, and degree origin data are not collected for doctorate-holding nonfaculty researchers.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Nonfederal includes foreign support.

[c] Doctoral degree includes PhD, ScD, DEng, etc.; professional degree includes MD, DVM, DO, DDS, etc.; dual degree includes both professional and doctoral degrees (MD-PhD, DVM-PhD, etc.).

Note(s):
"Field" refers to the field of the unit that reports postdoctorates and doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Percentages may not add to total because of rounding. For more information on the mapping of GSS 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.

TABLE 4-10a

Mathematics and statistics master's and doctoral student demographics, enrollment status, and funding: 2020

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Institutions	349	49.0	340	47.8	191	26.8
Schools	358	44.4	348	43.2	195	24.2
Units	710	3.4	614	2.9	331	1.6
All graduate students	31,971	100.0	18,284	100.0	13,687	100.0
Male	20,402	63.8	10,764	58.9	9,638	70.4
Female	11,569	36.2	7,520	41.1	4,049	29.6
U.S. citizens and permanent residents[a]	17,150	53.6	10,357	56.6	6,793	49.6
Hispanic or Latino	1,864	5.8	1,239	6.8	625	4.6
Not Hispanic or Latino						
American Indian or Alaska Native	36	0.1	23	0.1	13	0.1
Asian	2,575	8.1	1,742	9.5	833	6.1
Black or African American	777	2.4	573	3.1	204	1.5
Native Hawaiian or Other Pacific Islander	12	*	9	*	3	*
White	10,392	32.5	5,904	32.3	4,488	32.8
More than one race	546	1.7	295	1.6	251	1.8
Unknown ethnicity and race	948	3.0	572	3.1	376	2.7
Temporary visa holders	14,821	46.4	7,927	43.4	6,894	50.4
Part time	7,930	24.8	6,662	36.4	1,268	9.3
Full time	24,041	75.2	11,622	63.6	12,419	90.7
First time	7,590	23.7	5,329	29.1	2,261	16.5
Primary source of support for full-time students[b]						
Federal	1,585	5.0	182	1.0	1,403	10.3
DOD	153	0.5	31	0.2	122	0.9
DOE	48	0.2	9	*	39	0.3
HHS	213	0.7	26	0.1	187	1.4
NIH	188	0.6	24	0.1	164	1.2
Other HHS	25	0.1	2	*	23	0.2
NASA	12	*	0	0.0	12	0.1
NSF	983	3.1	46	0.3	937	6.8
USDA	14	*	3	*	11	0.1
Other	162	0.5	67	0.4	95	0.7
Nonfederal	13,099	41.0	2,942	16.1	10,157	74.2
Institutional	12,597	39.4	2,780	15.2	9,817	71.7
Domestic	373	1.2	136	0.7	237	1.7
Foreign	129	0.4	26	0.1	103	0.8
Self-support	9,357	29.3	8,498	46.5	859	6.3
Primary mechanism of support for full-time students[b]						
Fellowships	1,859	5.8	169	0.9	1,690	12.3
Research assistantships	2,108	6.6	325	1.8	1,783	13.0
Teaching assistantships	9,098	28.5	1,668	9.1	7,430	54.3
Traineeships	217	0.7	60	0.3	157	1.1
Other types of support	10,759	33.7	9,400	51.4	1,359	9.9
Self-support	9,357	29.3	8,498	46.5	859	6.3
Other	1,402	4.4	902	4.9	500	3.7

* = value < 0.05%.

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.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Funding data are available only for full-time students.

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.

TABLE 4-10b

Mathematics and statistics postdoctoral appointee and doctorate-holding nonfaculty researcher demographics and funding: 2020

(Number and percent)

Characteristic	Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	Number	Percent	Number	Percent
Institutions	127	17.8	47	6.6
Schools	129	16.0	48	6.0
Units	176	0.8	68	0.3
All individuals	1,076	100.0	201	100.0
Male	850	79.0	138	68.7
Female	226	21.0	63	31.3
U.S. citizens and permanent residents[a]	513	47.7	na	na
Hispanic or Latino	24	2.2	na	na
Not Hispanic or Latino				
American Indian or Alaska Native	0	0.0	na	na
Asian	79	7.3	na	na
Black or African American	11	1.0	na	na
Native Hawaiian or Other Pacific Islander	1	0.1	na	na
White	329	30.6	na	na
More than one race	12	1.1	na	na
Unknown ethnicity and race	57	5.3	na	na
Temporary visa holders	563	52.3	na	na
Primary source of support				
Federal	319	29.6	na	na
Nonfederal[b]	653	60.7	na	na
Personal resources	4	0.4	na	na
Unknown or not stated	100	9.3	na	na
Primary mechanism of support				
Fellowships	184	17.1	na	na
Research grants	398	37.0	na	na
Traineeships	74	6.9	na	na
Other types of support	420	39.0	na	na
Degree type[c]				
Doctoral degree	893	83.0	184	91.5
Professional degree	15	1.4	3	1.5
Dual degree	10	0.9	0	0.0
Doctoral degree type unknown	158	14.7	14	7.0
Degree origin				
United States	441	41.0	na	na
Foreign country	199	18.5	na	na
Unknown	436	40.5	na	na

na = not applicable; citizenship, race and ethnicity, source of support, mechanism of support, and degree origin data are not collected for doctorate-holding nonfaculty researchers.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Nonfederal includes foreign support.

[c] Doctoral degree includes PhD, ScD, DEng, etc.; professional degree includes MD, DVM, DO, DDS, etc.; dual degree includes both professional and doctoral degrees (MD-PhD, DVM-PhD, etc.).

Note(s):
"Field" refers to the field of the unit that reports postdoctorates and doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Percentages may not add to total because of rounding. For more information on the mapping of GSS 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.

TABLE 4-11a

Multidisciplinary and interdisciplinary studies master's and doctoral student demographics, enrollment status, and funding: 2020

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Institutions	209	29.4	184	25.8	93	13.1
Schools	218	27.0	189	23.4	98	12.2
Units	354	1.7	279	1.3	124	0.6
All graduate students	14,533	100.0	10,980	100.0	3,553	100.0
Male	6,914	47.6	5,231	47.6	1,683	47.4
Female	7,619	52.4	5,749	52.4	1,870	52.6
U.S. citizens and permanent residents[a]	10,506	72.3	8,012	73.0	2,494	70.2
Hispanic or Latino	1,333	9.2	1,084	9.9	249	7.0
Not Hispanic or Latino						
American Indian or Alaska Native	29	0.2	20	0.2	9	0.3
Asian	1,281	8.8	1,038	9.5	243	6.8
Black or African American	955	6.6	746	6.8	209	5.9
Native Hawaiian or Other Pacific Islander	17	0.1	11	0.1	6	0.2
White	6,008	41.3	4,432	40.4	1,576	44.4
More than one race	370	2.5	293	2.7	77	2.2
Unknown ethnicity and race	513	3.5	388	3.5	125	3.5
Temporary visa holders	4,027	27.7	2,968	27.0	1,059	29.8
Part time	5,494	37.8	4,811	43.8	683	19.2
Full time	9,039	62.2	6,169	56.2	2,870	80.8
First time	3,507	24.1	2,929	26.7	578	16.3
Primary source of support for full-time students[b]						
Federal	548	3.8	138	1.3	410	11.5
DOD	71	0.5	27	0.2	44	1.2
DOE	33	0.2	3	*	30	0.8
HHS	127	0.9	14	0.1	113	3.2
NIH	119	0.8	14	0.1	105	3.0
Other HHS	8	0.1	0	0.0	8	0.2
NASA	8	0.1	4	*	4	0.1
NSF	164	1.1	14	0.1	150	4.2
USDA	38	0.3	17	0.2	21	0.6
Other	107	0.7	59	0.5	48	1.4
Nonfederal	3,127	21.5	1,147	10.4	1,980	55.7
Institutional	2,881	19.8	1,061	9.7	1,820	51.2
Domestic	202	1.4	75	0.7	127	3.6
Foreign	44	0.3	11	0.1	33	0.9
Self-support	5,364	36.9	4,884	44.5	480	13.5
Primary mechanism of support for full-time students[b]						
Fellowships	924	6.4	251	2.3	673	18.9
Research assistantships	1,005	6.9	236	2.1	769	21.6
Teaching assistantships	842	5.8	273	2.5	569	16.0
Traineeships	94	0.6	24	0.2	70	2.0
Other types of support	6,174	42.5	5,385	49.0	789	22.2
Self-support	5,364	36.9	4,884	44.5	480	13.5
Other	810	5.6	501	4.6	309	8.7

* = value < 0.05%.

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.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Funding data are available only for full-time students.

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.

TABLE 4-11b

Multidisciplinary and interdisciplinary studies postdoctoral appointee and doctorate-holding nonfaculty researcher demographics and funding: 2020

(Number and percent)

Characteristic	Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	Number	Percent	Number	Percent
Institutions	90	12.6	74	10.4
Schools	92	11.4	74	9.2
Units	179	0.8	151	0.7
All individuals	832	100.0	679	100.0
Male	451	54.2	411	60.5
Female	381	45.8	268	39.5
U.S. citizens and permanent residents[a]	467	56.1	na	na
Hispanic or Latino	28	3.4	na	na
Not Hispanic or Latino				
American Indian or Alaska Native	4	0.5	na	na
Asian	51	6.1	na	na
Black or African American	24	2.9	na	na
Native Hawaiian or Other Pacific Islander	1	0.1	na	na
White	298	35.8	na	na
More than one race	13	1.6	na	na
Unknown ethnicity and race	48	5.8	na	na
Temporary visa holders	365	43.9	na	na
Primary source of support				
Federal	328	39.4	na	na
Nonfederal[b]	415	49.9	na	na
Personal resources	15	1.8	na	na
Unknown or not stated	74	8.9	na	na
Primary mechanism of support				
Fellowships	74	8.9	na	na
Research grants	483	58.1	na	na
Traineeships	43	5.2	na	na
Other types of support	232	27.9	na	na
Degree type[c]				
Doctoral degree	653	78.5	580	85.4
Professional degree	16	1.9	22	3.2
Dual degree	5	0.6	3	0.4
Doctoral degree type unknown	158	19.0	74	10.9
Degree origin				
United States	405	48.7	na	na
Foreign country	190	22.8	na	na
Unknown	237	28.5	na	na

na = not applicable; citizenship, race and ethnicity, source of support, mechanism of support, and degree origin data are not collected for doctorate-holding nonfaculty researchers.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Nonfederal includes foreign support.

[c] Doctoral degree includes PhD, ScD, DEng, etc.; professional degree includes MD, DVM, DO, DDS, etc.; dual degree includes both professional and doctoral degrees (MD-PhD, DVM-PhD, etc.).

Note(s):
"Field" refers to the field of the unit that reports postdoctorates and doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Percentages may not add to total because of rounding. For more information on the mapping of GSS 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.

TABLE 4-12a

Natural resources and conservation master's and doctoral student demographics, enrollment status, and funding: 2020

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Institutions	207	29.1	195	27.4	101	14.2
Schools	211	26.2	198	24.6	103	12.8
Units	354	1.7	302	1.4	152	0.7
All graduate students	12,498	100.0	8,793	100.0	3,705	100.0
Male	5,160	41.3	3,515	40.0	1,645	44.4
Female	7,338	58.7	5,278	60.0	2,060	55.6
U.S. citizens and permanent residents[a]	10,901	87.2	8,106	92.2	2,795	75.4
Hispanic or Latino	1,156	9.2	858	9.8	298	8.0
Not Hispanic or Latino						
American Indian or Alaska Native	123	1.0	88	1.0	35	0.9
Asian	368	2.9	269	3.1	99	2.7
Black or African American	404	3.2	248	2.8	156	4.2
Native Hawaiian or Other Pacific Islander	33	0.3	30	0.3	3	0.1
White	8,017	64.1	6,040	68.7	1,977	53.4
More than one race	387	3.1	306	3.5	81	2.2
Unknown ethnicity and race	413	3.3	267	3.0	146	3.9
Temporary visa holders	1,597	12.8	687	7.8	910	24.6
Part time	4,050	32.4	3,257	37.0	793	21.4
Full time	8,448	67.6	5,536	63.0	2,912	78.6
First time	2,849	22.8	2,417	27.5	432	11.7
Primary source of support for full-time students[b]						
Federal	1,315	10.5	653	7.4	662	17.9
DOD	34	0.3	23	0.3	11	0.3
DOE	39	0.3	24	0.3	15	0.4
HHS	119	1.0	38	0.4	81	2.2
NIH	55	0.4	6	0.1	49	1.3
Other HHS	64	0.5	32	0.4	32	0.9
NASA	45	0.4	8	0.1	37	1.0
NSF	287	2.3	89	1.0	198	5.3
USDA	346	2.8	196	2.2	150	4.0
Other	445	3.6	275	3.1	170	4.6
Nonfederal	3,967	31.7	2,095	23.8	1,872	50.5
Institutional	3,500	28.0	1,874	21.3	1,626	43.9
Domestic	397	3.2	190	2.2	207	5.6
Foreign	70	0.6	31	0.4	39	1.1
Self-support	3,166	25.3	2,788	31.7	378	10.2
Primary mechanism of support for full-time students[b]						
Fellowships	875	7.0	446	5.1	429	11.6
Research assistantships	2,433	19.5	1,183	13.5	1,250	33.7
Teaching assistantships	1,277	10.2	625	7.1	652	17.6
Traineeships	91	0.7	56	0.6	35	0.9
Other types of support	3,772	30.2	3,226	36.7	546	14.7
Self-support	3,166	25.3	2,788	31.7	378	10.2
Other	606	4.8	438	5.0	168	4.5

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.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Funding data are available only for full-time students.

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.

TABLE 4-12b

Natural resources and conservation postdoctoral appointee and doctorate-holding nonfaculty researcher demographics and funding: 2020

(Number and percent)

Characteristic	Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	Number	Percent	Number	Percent
Institutions	87	12.2	67	9.4
Schools	88	10.9	67	8.3
Units	139	0.7	126	0.6
All individuals	845	100.0	573	100.0
Male	482	57.0	348	60.7
Female	363	43.0	225	39.3
U.S. citizens and permanent residents[a]	545	64.5	na	na
Hispanic or Latino	12	1.4	na	na
Not Hispanic or Latino				
American Indian or Alaska Native	1	0.1	na	na
Asian	36	4.3	na	na
Black or African American	29	3.4	na	na
Native Hawaiian or Other Pacific Islander	2	0.2	na	na
White	383	45.3	na	na
More than one race	8	0.9	na	na
Unknown ethnicity and race	74	8.8	na	na
Temporary visa holders	300	35.5	na	na
Primary source of support				
Federal	397	47.0	na	na
Nonfederal[b]	369	43.7	na	na
Personal resources	16	1.9	na	na
Unknown or not stated	63	7.5	na	na
Primary mechanism of support				
Fellowships	71	8.4	na	na
Research grants	572	67.7	na	na
Traineeships	31	3.7	na	na
Other types of support	171	20.2	na	na
Degree type[c]				
Doctoral degree	599	70.9	420	73.3
Professional degree	9	1.1	10	1.7
Dual degree	8	0.9	1	0.2
Doctoral degree type unknown	229	27.1	142	24.8
Degree origin				
United States	345	40.8	na	na
Foreign country	133	15.7	na	na
Unknown	367	43.4	na	na

na = not applicable; citizenship, race and ethnicity, source of support, mechanism of support, and degree origin data are not collected for doctorate-holding nonfaculty researchers.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Nonfederal includes foreign support.

[c] Doctoral degree includes PhD, ScD, DEng, etc.; professional degree includes MD, DVM, DO, DDS, etc.; dual degree includes both professional and doctoral degrees (MD-PhD, DVM-PhD, etc.).

Note(s):
"Field" refers to the field of the unit that reports postdoctorates and doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Percentages may not add to total because of rounding. For more information on the mapping of GSS 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.

TABLE 4-13a

Physical sciences master's and doctoral student demographics, enrollment status, and funding: 2020

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Institutions	329	46.2	308	43.3	227	31.9
Schools	335	41.6	314	39.0	229	28.4
Units	783	3.7	572	2.7	545	2.6
All graduate students	42,616	100.0	6,275	100.0	36,341	100.0
Male	27,604	64.8	3,794	60.5	23,810	65.5
Female	15,012	35.2	2,481	39.5	12,531	34.5
U.S. citizens and permanent residents[a]	26,747	62.8	4,920	78.4	21,827	60.1
Hispanic or Latino	3,029	7.1	757	12.1	2,272	6.3
Not Hispanic or Latino						
American Indian or Alaska Native	79	0.2	24	0.4	55	0.2
Asian	2,496	5.9	455	7.3	2,041	5.6
Black or African American	1,096	2.6	338	5.4	758	2.1
Native Hawaiian or Other Pacific Islander	17	*	3	*	14	*
White	17,935	42.1	2,978	47.5	14,957	41.2
More than one race	946	2.2	177	2.8	769	2.1
Unknown ethnicity and race	1,149	2.7	188	3.0	961	2.6
Temporary visa holders	15,869	37.2	1,355	21.6	14,514	39.9
Part time	4,978	11.7	2,589	41.3	2,389	6.6
Full time	37,638	88.3	3,686	58.7	33,952	93.4
First time	7,012	16.5	1,430	22.8	5,582	15.4
Primary source of support for full-time students[b]						
Federal	10,792	25.3	332	5.3	10,460	28.8
DOD	811	1.9	55	0.9	756	2.1
DOE	2,185	5.1	29	0.5	2,156	5.9
HHS	2,040	4.8	25	0.4	2,015	5.5
NIH	1,817	4.3	22	0.4	1,795	4.9
Other HHS	223	0.5	3	*	220	0.6
NASA	624	1.5	27	0.4	597	1.6
NSF	4,317	10.1	98	1.6	4,219	11.6
USDA	33	0.1	5	0.1	28	0.1
Other	782	1.8	93	1.5	689	1.9
Nonfederal	23,765	55.8	1,748	27.9	22,017	60.6
Institutional	21,942	51.5	1,628	25.9	20,314	55.9
Domestic	1,535	3.6	80	1.3	1,455	4.0
Foreign	288	0.7	40	0.6	248	0.7
Self-support	3,081	7.2	1,606	25.6	1,475	4.1
Primary mechanism of support for full-time students[b]						
Fellowships	4,194	9.8	70	1.1	4,124	11.3
Research assistantships	14,556	34.2	528	8.4	14,028	38.6
Teaching assistantships	13,422	31.5	1,077	17.2	12,345	34.0
Traineeships	657	1.5	61	1.0	596	1.6
Other types of support	4,809	11.3	1,950	31.1	2,859	7.9
Self-support	3,081	7.2	1,606	25.6	1,475	4.1
Other	1,728	4.1	344	5.5	1,384	3.8

* = value < 0.05%.

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.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Funding data are available only for full-time students.

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.

TABLE 4-13b

Physical sciences postdoctoral appointee and doctorate-holding nonfaculty researcher demographics and funding: 2020

(Number and percent)

Characteristic	Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	Number	Percent	Number	Percent
Institutions	227	31.9	173	24.3
Schools	232	28.8	175	21.7
Units	565	2.7	420	2.0
All individuals	6,937	100.0	2,890	100.0
Male	5,221	75.3	2,235	77.3
Female	1,716	24.7	655	22.7
U.S. citizens and permanent residents[a]	2,705	39.0	na	na
Hispanic or Latino	137	2.0	na	na
Not Hispanic or Latino				
American Indian or Alaska Native	5	0.1	na	na
Asian	542	7.8	na	na
Black or African American	49	0.7	na	na
Native Hawaiian or Other Pacific Islander	2	*	na	na
White	1,586	22.9	na	na
More than one race	54	0.8	na	na
Unknown ethnicity and race	330	4.8	na	na
Temporary visa holders	4,232	61.0	na	na
Primary source of support				
Federal	3,936	56.7	na	na
Nonfederal[b]	2,516	36.3	na	na
Personal resources	65	0.9	na	na
Unknown or not stated	420	6.1	na	na
Primary mechanism of support				
Fellowships	685	9.9	na	na
Research grants	4,947	71.3	na	na
Traineeships	79	1.1	na	na
Other types of support	1,226	17.7	na	na
Degree type[c]				
Doctoral degree	5,495	79.2	2,429	84.0
Professional degree	28	0.4	23	0.8
Dual degree	175	2.5	1	*
Doctoral degree type unknown	1,239	17.9	437	15.1
Degree origin				
United States	2,418	34.9	na	na
Foreign country	1,918	27.6	na	na
Unknown	2,601	37.5	na	na

* = value < 0.05%. na = not applicable; citizenship, race and ethnicity, source of support, mechanism of support, and degree origin data are not collected for doctorate-holding nonfaculty researchers.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Nonfederal includes foreign support.

[c] Doctoral degree includes PhD, ScD, DEng, etc.; professional degree includes MD, DVM, DO, DDS, etc.; dual degree includes both professional and doctoral degrees (MD-PhD, DVM-PhD, etc.).

Note(s):
"Field" refers to the field of the unit that reports postdoctorates and doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Percentages may not add to total because of rounding. For more information on the mapping of GSS 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.

TABLE 4-14a

Psychology master's and doctoral student demographics, enrollment status, and funding: 2020

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Institutions	470	66.0	426	59.8	234	32.9
Schools	482	59.8	433	53.7	240	29.8
Units	1,143	5.4	827	3.9	503	2.4
All graduate students	68,394	100.0	47,279	100.0	21,115	100.0
Male	14,347	21.0	8,925	18.9	5,422	25.7
Female	54,047	79.0	38,354	81.1	15,693	74.3
U.S. citizens and permanent residents[a]	64,586	94.4	45,710	96.7	18,876	89.4
Hispanic or Latino	11,776	17.2	8,978	19.0	2,798	13.3
Not Hispanic or Latino						
American Indian or Alaska Native	302	0.4	205	0.4	97	0.5
Asian	3,445	5.0	2,180	4.6	1,265	6.0
Black or African American	7,044	10.3	5,425	11.5	1,619	7.7
Native Hawaiian or Other Pacific Islander	124	0.2	103	0.2	21	0.1
White	35,344	51.7	23,932	50.6	11,412	54.0
More than one race	2,558	3.7	1,688	3.6	870	4.1
Unknown ethnicity and race	3,993	5.8	3,199	6.8	794	3.8
Temporary visa holders	3,808	5.6	1,569	3.3	2,239	10.6
Part time	22,226	32.5	18,563	39.3	3,663	17.3
Full time	46,168	67.5	28,716	60.7	17,452	82.7
First time	14,706	21.5	11,226	23.7	3,480	16.5
Primary source of support for full-time students[b]						
Federal	2,716	4.0	781	1.7	1,935	9.2
DOD	162	0.2	61	0.1	101	0.5
DOE	5	*	0	0.0	5	*
HHS	1,029	1.5	79	0.2	950	4.5
NIH	828	1.2	33	0.1	795	3.8
Other HHS	201	0.3	46	0.1	155	0.7
NASA	0	0.0	0	0.0	0	0.0
NSF	432	0.6	22	*	410	1.9
USDA	15	*	9	*	6	*
Other	1,073	1.6	610	1.3	463	2.2
Nonfederal	15,570	22.8	4,326	9.1	11,244	53.3
Institutional	14,701	21.5	4,117	8.7	10,584	50.1
Domestic	775	1.1	164	0.3	611	2.9
Foreign	94	0.1	45	0.1	49	0.2
Self-support	27,882	40.8	23,609	49.9	4,273	20.2
Primary mechanism of support for full-time students[b]						
Fellowships	1,924	2.8	120	0.3	1,804	8.5
Research assistantships	4,726	6.9	1,017	2.2	3,709	17.6
Teaching assistantships	6,631	9.7	1,250	2.6	5,381	25.5
Traineeships	816	1.2	227	0.5	589	2.8
Other types of support	32,071	46.9	26,102	55.2	5,969	28.3
Self-support	27,882	40.8	23,609	49.9	4,273	20.2
Other	4,189	6.1	2,493	5.3	1,696	8.0

* = value < 0.05%.

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.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Funding data are available only for full-time students.

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.

TABLE 4-14b

Psychology postdoctoral appointee and doctorate-holding nonfaculty researcher demographics and funding: 2020

(Number and percent)

Characteristic	Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	Number	Percent	Number	Percent
Institutions	147	20.6	107	15.0
Schools	157	19.5	108	13.4
Units	249	1.2	167	0.8
All individuals	1,312	100.0	749	100.0
Male	473	36.1	251	33.5
Female	839	63.9	498	66.5
U.S. citizens and permanent residents[a]	986	75.2	na	na
Hispanic or Latino	82	6.3	na	na
Not Hispanic or Latino				
American Indian or Alaska Native	0	0.0	na	na
Asian	82	6.3	na	na
Black or African American	37	2.8	na	na
Native Hawaiian or Other Pacific Islander	1	0.1	na	na
White	657	50.1	na	na
More than one race	24	1.8	na	na
Unknown ethnicity and race	103	7.9	na	na
Temporary visa holders	326	24.8	na	na
Primary source of support				
Federal	705	53.7	na	na
Nonfederal[b]	498	38.0	na	na
Personal resources	16	1.2	na	na
Unknown or not stated	93	7.1	na	na
Primary mechanism of support				
Fellowships	178	13.6	na	na
Research grants	743	56.6	na	na
Traineeships	95	7.2	na	na
Other types of support	296	22.6	na	na
Degree type[c]				
Doctoral degree	1,027	78.3	589	78.6
Professional degree	25	1.9	29	3.9
Dual degree	24	1.8	9	1.2
Doctoral degree type unknown	236	18.0	122	16.3
Degree origin				
United States	716	54.6	na	na
Foreign country	173	13.2	na	na
Unknown	423	32.2	na	na

na = not applicable; citizenship, race and ethnicity, source of support, mechanism of support, and degree origin data are not collected for doctorate-holding nonfaculty researchers.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Nonfederal includes foreign support.

[c] Doctoral degree includes PhD, ScD, DEng, etc.; professional degree includes MD, DVM, DO, DDS, etc.; dual degree includes both professional and doctoral degrees (MD-PhD, DVM-PhD, etc.).

Note(s):
"Field" refers to the field of the unit that reports postdoctorates and doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Percentages may not add to total because of rounding. For more information on the mapping of GSS 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.

TABLE 4-15a

Social sciences master's and doctoral student demographics, enrollment status, and funding: 2020

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Institutions	408	57.3	395	55.5	204	28.7
Schools	418	51.9	405	50.2	211	26.2
Units	2,039	9.6	1,643	7.8	938	4.4
All graduate students	78,353	100.0	43,919	100.0	34,434	100.0
Male	36,097	46.1	19,542	44.5	16,555	48.1
Female	42,256	53.9	24,377	55.5	17,879	51.9
U.S. citizens and permanent residents[a]	59,283	75.7	37,103	84.5	22,180	64.4
Hispanic or Latino	8,350	10.7	5,806	13.2	2,544	7.4
Not Hispanic or Latino						
American Indian or Alaska Native	417	0.5	230	0.5	187	0.5
Asian	3,706	4.7	2,077	4.7	1,629	4.7
Black or African American	6,442	8.2	4,364	9.9	2,078	6.0
Native Hawaiian or Other Pacific Islander	120	0.2	80	0.2	40	0.1
White	34,646	44.2	21,174	48.2	13,472	39.1
More than one race	2,200	2.8	1,384	3.2	816	2.4
Unknown ethnicity and race	3,402	4.3	1,988	4.5	1,414	4.1
Temporary visa holders	19,070	24.3	6,816	15.5	12,254	35.6
Part time	22,855	29.2	17,928	40.8	4,927	14.3
Full time	55,498	70.8	25,991	59.2	29,507	85.7
First time	17,657	22.5	12,911	29.4	4,746	13.8
Primary source of support for full-time students[b]						
Federal	2,780	3.5	1,240	2.8	1,540	4.5
DOD	509	0.6	445	1.0	64	0.2
DOE	13	*	2	*	11	*
HHS	256	0.3	15	*	241	0.7
NIH	198	0.3	7	*	191	0.6
Other HHS	58	0.1	8	*	50	0.1
NASA	29	*	8	*	21	0.1
NSF	708	0.9	88	0.2	620	1.8
USDA	230	0.3	92	0.2	138	0.4
Other	1,035	1.3	590	1.3	445	1.3
Nonfederal	33,038	42.2	8,958	20.4	24,080	69.9
Institutional	31,476	40.2	8,363	19.0	23,113	67.1
Domestic	1,218	1.6	486	1.1	732	2.1
Foreign	344	0.4	109	0.2	235	0.7
Self-support	19,680	25.1	15,793	36.0	3,887	11.3
Primary mechanism of support for full-time students[b]						
Fellowships	8,348	10.7	1,734	3.9	6,614	19.2
Research assistantships	5,549	7.1	1,517	3.5	4,032	11.7
Teaching assistantships	14,590	18.6	2,716	6.2	11,874	34.5
Traineeships	870	1.1	293	0.7	577	1.7
Other types of support	26,141	33.4	19,731	44.9	6,410	18.6
Self-support	19,680	25.1	15,793	36.0	3,887	11.3
Other	6,461	8.2	3,938	9.0	2,523	7.3

* = value < 0.05%.

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.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Funding data are available only for full-time students.

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.

TABLE 4-15b

Social sciences postdoctoral appointee and doctorate-holding nonfaculty researcher demographics and funding: 2020

(Number and percent)

Characteristic	Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	Number	Percent	Number	Percent
Institutions	152	21.3	132	18.5
Schools	159	19.7	136	16.9
Units	609	2.9	462	2.2
All individuals	1,546	100.0	1,436	100.0
Male	726	47.0	656	45.7
Female	820	53.0	780	54.3
U.S. citizens and permanent residents[a]	1,049	67.9	na	na
Hispanic or Latino	72	4.7	na	na
Not Hispanic or Latino				
American Indian or Alaska Native	6	0.4	na	na
Asian	101	6.5	na	na
Black or African American	79	5.1	na	na
Native Hawaiian or Other Pacific Islander	0	0.0	na	na
White	636	41.1	na	na
More than one race	33	2.1	na	na
Unknown ethnicity and race	122	7.9	na	na
Temporary visa holders	497	32.1	na	na
Primary source of support				
Federal	326	21.1	na	na
Nonfederal[b]	1,033	66.8	na	na
Personal resources	13	0.8	na	na
Unknown or not stated	174	11.3	na	na
Primary mechanism of support				
Fellowships	239	15.5	na	na
Research grants	706	45.7	na	na
Traineeships	58	3.8	na	na
Other types of support	543	35.1	na	na
Degree type[c]				
Doctoral degree	1,252	81.0	1,081	75.3
Professional degree	18	1.2	95	6.6
Dual degree	43	2.8	10	0.7
Doctoral degree type unknown	233	15.1	250	17.4
Degree origin				
United States	869	56.2	na	na
Foreign country	204	13.2	na	na
Unknown	473	30.6	na	na

na = not applicable; citizenship, race and ethnicity, source of support, mechanism of support, and degree origin data are not collected for doctorate-holding nonfaculty researchers.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Nonfederal includes foreign support.

[c] Doctoral degree includes PhD, ScD, DEng, etc.; professional degree includes MD, DVM, DO, DDS, etc.; dual degree includes both professional and doctoral degrees (MD-PhD, DVM-PhD, etc.).

Note(s):
"Field" refers to the field of the unit that reports postdoctorates and doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Percentages may not add to total because of rounding. For more information on the mapping of GSS 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.

TABLE 4-16a

Aerospace, aeronautical, and astronautical engineering master's and doctoral student demographics, enrollment status, and funding: 2020

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Institutions	61	8.6	60	8.4	48	6.7
Schools	61	7.6	60	7.4	48	6.0
Units	69	0.3	65	0.3	51	0.2
All graduate students	6,971	100.0	4,326	100.0	2,645	100.0
Male	5,720	82.1	3,566	82.4	2,154	81.4
Female	1,251	17.9	760	17.6	491	18.6
U.S. citizens and permanent residents[a]	5,300	76.0	3,752	86.7	1,548	58.5
Hispanic or Latino	532	7.6	416	9.6	116	4.4
Not Hispanic or Latino						
American Indian or Alaska Native	14	0.2	10	0.2	4	0.2
Asian	608	8.7	425	9.8	183	6.9
Black or African American	163	2.3	115	2.7	48	1.8
Native Hawaiian or Other Pacific Islander	10	0.1	5	0.1	5	0.2
White	3,552	51.0	2,479	57.3	1,073	40.6
More than one race	233	3.3	158	3.7	75	2.8
Unknown ethnicity and race	188	2.7	144	3.3	44	1.7
Temporary visa holders	1,671	24.0	574	13.3	1,097	41.5
Part time	2,372	34.0	2,028	46.9	344	13.0
Full time	4,599	66.0	2,298	53.1	2,301	87.0
First time	1,301	18.7	943	21.8	358	13.5
Primary source of support for full-time students[b]						
Federal	1,230	17.6	362	8.4	868	32.8
DOD	559	8.0	207	4.8	352	13.3
DOE	62	0.9	17	0.4	45	1.7
HHS	4	0.1	1	*	3	0.1
NIH	3	*	1	*	2	0.1
Other HHS	1	*	0	0.0	1	*
NASA	199	2.9	45	1.0	154	5.8
NSF	232	3.3	35	0.8	197	7.4
USDA	2	*	0	0.0	2	0.1
Other	172	2.5	57	1.3	115	4.3
Nonfederal	2,013	28.9	752	17.4	1,261	47.7
Institutional	1,617	23.2	653	15.1	964	36.4
Domestic	260	3.7	85	2.0	175	6.6
Foreign	136	2.0	14	0.3	122	4.6
Self-support	1,356	19.5	1,184	27.4	172	6.5
Primary mechanism of support for full-time students[b]						
Fellowships	428	6.1	111	2.6	317	12.0
Research assistantships	1,736	24.9	464	10.7	1,272	48.1
Teaching assistantships	591	8.5	214	4.9	377	14.3
Traineeships	61	0.9	39	0.9	22	0.8
Other types of support	1,783	25.6	1,470	34.0	313	11.8
Self-support	1,356	19.5	1,184	27.4	172	6.5
Other	427	6.1	286	6.6	141	5.3

* = value < 0.05%.

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.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Funding data are available only for full-time students.

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.

TABLE 4-16b

Aerospace, aeronautical, and astronautical engineering postdoctoral appointee and doctorate-holding nonfaculty researcher demographics and funding: 2020

(Number and percent)

Characteristic	Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	Number	Percent	Number	Percent
Institutions	31	4.4	25	3.5
Schools	31	3.8	25	3.1
Units	35	0.2	29	0.1
All individuals	233	100.0	149	100.0
Male	197	84.5	124	83.2
Female	36	15.5	25	16.8
U.S. citizens and permanent residents[a]	78	33.5	na	na
Hispanic or Latino	4	1.7	na	na
Not Hispanic or Latino				
American Indian or Alaska Native	0	0.0	na	na
Asian	17	7.3	na	na
Black or African American	0	0.0	na	na
Native Hawaiian or Other Pacific Islander	0	0.0	na	na
White	46	19.7	na	na
More than one race	1	0.4	na	na
Unknown ethnicity and race	10	4.3	na	na
Temporary visa holders	155	66.5	na	na
Primary source of support				
Federal	117	50.2	na	na
Nonfederal[b]	88	37.8	na	na
Personal resources	5	2.1	na	na
Unknown or not stated	23	9.9	na	na
Primary mechanism of support				
Fellowships	16	6.9	na	na
Research grants	152	65.2	na	na
Traineeships	1	0.4	na	na
Other types of support	64	27.5	na	na
Degree type[c]				
Doctoral degree	201	86.3	141	94.6
Professional degree	6	2.6	5	3.4
Dual degree	0	0.0	0	0.0
Doctoral degree type unknown	26	11.2	3	2.0
Degree origin				
United States	105	45.1	na	na
Foreign country	59	25.3	na	na
Unknown	69	29.6	na	na

na = not applicable; citizenship, race and ethnicity, source of support, mechanism of support, and degree origin data are not collected for doctorate-holding nonfaculty researchers.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Nonfederal includes foreign support.

[c] Doctoral degree includes PhD, ScD, DEng, etc.; professional degree includes MD, DVM, DO, DDS, etc.; dual degree includes both professional and doctoral degrees (MD-PhD, DVM-PhD, etc.).

Note(s):
"Field" refers to the field of the unit that reports postdoctorates and doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Percentages may not add to total because of rounding. For more information on the mapping of GSS 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.

TABLE 4-17a

Biological, biomedical, and biosystems engineering master's and doctoral student demographics, enrollment status, and funding: 2020

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Institutions	175	24.6	157	22.1	138	19.4
Schools	178	22.1	159	19.7	139	17.2
Units	220	1.0	186	0.9	155	0.7
All graduate students	12,775	100.0	4,536	100.0	8,239	100.0
Male	7,022	55.0	2,403	53.0	4,619	56.1
Female	5,753	45.0	2,133	47.0	3,620	43.9
U.S. citizens and permanent residents[a]	8,890	69.6	3,303	72.8	5,587	67.8
Hispanic or Latino	956	7.5	383	8.4	573	7.0
Not Hispanic or Latino						
American Indian or Alaska Native	22	0.2	7	0.2	15	0.2
Asian	1,690	13.2	688	15.2	1,002	12.2
Black or African American	450	3.5	188	4.1	262	3.2
Native Hawaiian or Other Pacific Islander	14	0.1	4	0.1	10	0.1
White	4,953	38.8	1,713	37.8	3,240	39.3
More than one race	399	3.1	153	3.4	246	3.0
Unknown ethnicity and race	406	3.2	167	3.7	239	2.9
Temporary visa holders	3,885	30.4	1,233	27.2	2,652	32.2
Part time	1,700	13.3	1,120	24.7	580	7.0
Full time	11,075	86.7	3,416	75.3	7,659	93.0
First time	3,295	25.8	1,882	41.5	1,413	17.2
Primary source of support for full-time students[b]						
Federal	3,016	23.6	184	4.1	2,832	34.4
DOD	192	1.5	27	0.6	165	2.0
DOE	23	0.2	2	*	21	0.3
HHS	1,918	15.0	70	1.5	1,848	22.4
NIH	1,831	14.3	67	1.5	1,764	21.4
Other HHS	87	0.7	3	0.1	84	1.0
NASA	22	0.2	8	0.2	14	0.2
NSF	682	5.3	27	0.6	655	7.9
USDA	33	0.3	7	0.2	26	0.3
Other	146	1.1	43	0.9	103	1.3
Nonfederal	5,382	42.1	883	19.5	4,499	54.6
Institutional	4,618	36.1	791	17.4	3,827	46.4
Domestic	690	5.4	79	1.7	611	7.4
Foreign	74	0.6	13	0.3	61	0.7
Self-support	2,677	21.0	2,349	51.8	328	4.0
Primary mechanism of support for full-time students[b]						
Fellowships	1,684	13.2	106	2.3	1,578	19.2
Research assistantships	4,213	33.0	277	6.1	3,936	47.8
Teaching assistantships	966	7.6	304	6.7	662	8.0
Traineeships	495	3.9	32	0.7	463	5.6
Other types of support	3,717	29.1	2,697	59.5	1,020	12.4
Self-support	2,677	21.0	2,349	51.8	328	4.0
Other	1,040	8.1	348	7.7	692	8.4

* = value < 0.05%.

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.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Funding data are available only for full-time students.

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.

TABLE 4-17b

Biological, biomedical, and biosystems engineering postdoctoral appointee and doctorate-holding nonfaculty researcher demographics and funding: 2020

(Number and percent)

Characteristic	Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	Number	Percent	Number	Percent
Institutions	116	16.3	84	11.8
Schools	125	15.5	87	10.8
Units	156	0.7	102	0.5
All individuals	1,696	100.0	525	100.0
Male	1,089	64.2	332	63.2
Female	607	35.8	193	36.8
U.S. citizens and permanent residents[a]	726	42.8	na	na
Hispanic or Latino	39	2.3	na	na
Not Hispanic or Latino				
American Indian or Alaska Native	3	0.2	na	na
Asian	201	11.9	na	na
Black or African American	30	1.8	na	na
Native Hawaiian or Other Pacific Islander	0	0.0	na	na
White	386	22.8	na	na
More than one race	17	1.0	na	na
Unknown ethnicity and race	50	2.9	na	na
Temporary visa holders	970	57.2	na	na
Primary source of support				
Federal	976	57.5	na	na
Nonfederal[b]	639	37.7	na	na
Personal resources	5	0.3	na	na
Unknown or not stated	76	4.5	na	na
Primary mechanism of support				
Fellowships	157	9.3	na	na
Research grants	1,226	72.3	na	na
Traineeships	48	2.8	na	na
Other types of support	265	15.6	na	na
Degree type[c]				
Doctoral degree	1,260	74.3	431	82.1
Professional degree	42	2.5	19	3.6
Dual degree	23	1.4	4	0.8
Doctoral degree type unknown	371	21.9	71	13.5
Degree origin				
United States	640	37.7	na	na
Foreign country	433	25.5	na	na
Unknown	623	36.7	na	na

na = not applicable; citizenship, race and ethnicity, source of support, mechanism of support, and degree origin data are not collected for doctorate-holding nonfaculty researchers.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Nonfederal includes foreign support.

[c] Doctoral degree includes PhD, ScD, DEng, etc.; professional degree includes MD, DVM, DO, DDS, etc.; dual degree includes both professional and doctoral degrees (MD-PhD, DVM-PhD, etc.).

Note(s):
"Field" refers to the field of the unit that reports postdoctorates and doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Percentages may not add to total because of rounding. For more information on the mapping of GSS 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.

TABLE 4-18a

Chemical, petroleum, and chemical-related engineering master's and doctoral student demographics, enrollment status, and funding: 2020

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Institutions	143	20.1	136	19.1	121	17.0
Schools	144	17.9	137	17.0	121	15.0
Units	189	0.9	169	0.8	144	0.7
All graduate students	10,554	100.0	2,942	100.0	7,612	100.0
Male	7,194	68.2	2,038	69.3	5,156	67.7
Female	3,360	31.8	904	30.7	2,456	32.3
U.S. citizens and permanent residents[a]	5,285	50.1	1,676	57.0	3,609	47.4
Hispanic or Latino	506	4.8	199	6.8	307	4.0
Not Hispanic or Latino						
American Indian or Alaska Native	16	0.2	4	0.1	12	0.2
Asian	821	7.8	261	8.9	560	7.4
Black or African American	255	2.4	112	3.8	143	1.9
Native Hawaiian or Other Pacific Islander	4	*	1	*	3	*
White	3,281	31.1	952	32.4	2,329	30.6
More than one race	205	1.9	69	2.3	136	1.8
Unknown ethnicity and race	197	1.9	78	2.7	119	1.6
Temporary visa holders	5,269	49.9	1,266	43.0	4,003	52.6
Part time	1,524	14.4	1,044	35.5	480	6.3
Full time	9,030	85.6	1,898	64.5	7,132	93.7
First time	2,019	19.1	778	26.4	1,241	16.3
Primary source of support for full-time students[b]						
Federal	2,533	24.0	97	3.3	2,436	32.0
DOD	216	2.0	13	0.4	203	2.7
DOE	508	4.8	20	0.7	488	6.4
HHS	346	3.3	7	0.2	339	4.5
NIH	293	2.8	7	0.2	286	3.8
Other HHS	53	0.5	0	0.0	53	0.7
NASA	49	0.5	9	0.3	40	0.5
NSF	1,142	10.8	30	1.0	1,112	14.6
USDA	22	0.2	3	0.1	19	0.2
Other	250	2.4	15	0.5	235	3.1
Nonfederal	4,988	47.3	633	21.5	4,355	57.2
Institutional	3,936	37.3	514	17.5	3,422	45.0
Domestic	900	8.5	102	3.5	798	10.5
Foreign	152	1.4	17	0.6	135	1.8
Self-support	1,509	14.3	1,168	39.7	341	4.5
Primary mechanism of support for full-time students[b]						
Fellowships	1,340	12.7	60	2.0	1,280	16.8
Research assistantships	4,343	41.2	246	8.4	4,097	53.8
Teaching assistantships	1,160	11.0	189	6.4	971	12.8
Traineeships	130	1.2	20	0.7	110	1.4
Other types of support	2,057	19.5	1,383	47.0	674	8.9
Self-support	1,509	14.3	1,168	39.7	341	4.5
Other	548	5.2	215	7.3	333	4.4

* = value < 0.05%.

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.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Funding data are available only for full-time students.

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.

TABLE 4-18b

Chemical, petroleum, and chemical-related engineering postdoctoral appointee and doctorate-holding nonfaculty researcher demographics and funding: 2020

(Number and percent)

Characteristic	Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	Number	Percent	Number	Percent
Institutions	113	15.9	68	9.6
Schools	113	14.0	68	8.4
Units	139	0.7	86	0.4
All individuals	1,157	100.0	330	100.0
Male	836	72.3	243	73.6
Female	321	27.7	87	26.4
U.S. citizens and permanent residents[a]	358	30.9	na	na
Hispanic or Latino	20	1.7	na	na
Not Hispanic or Latino				
American Indian or Alaska Native	1	0.1	na	na
Asian	76	6.6	na	na
Black or African American	7	0.6	na	na
Native Hawaiian or Other Pacific Islander	1	0.1	na	na
White	209	18.1	na	na
More than one race	10	0.9	na	na
Unknown ethnicity and race	34	2.9	na	na
Temporary visa holders	799	69.1	na	na
Primary source of support				
Federal	519	44.9	na	na
Nonfederal[b]	535	46.2	na	na
Personal resources	5	0.4	na	na
Unknown or not stated	98	8.5	na	na
Primary mechanism of support				
Fellowships	125	10.8	na	na
Research grants	811	70.1	na	na
Traineeships	12	1.0	na	na
Other types of support	209	18.1	na	na
Degree type[c]				
Doctoral degree	848	73.3	276	83.6
Professional degree	26	2.2	7	2.1
Dual degree	9	0.8	2	0.6
Doctoral degree type unknown	274	23.7	45	13.6
Degree origin				
United States	391	33.8	na	na
Foreign country	299	25.8	na	na
Unknown	467	40.4	na	na

na = not applicable; citizenship, race and ethnicity, source of support, mechanism of support, and degree origin data are not collected for doctorate-holding nonfaculty researchers.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Nonfederal includes foreign support.

[c] Doctoral degree includes PhD, ScD, DEng, etc.; professional degree includes MD, DVM, DO, DDS, etc.; dual degree includes both professional and doctoral degrees (MD-PhD, DVM-PhD, etc.).

Note(s):
"Field" refers to the field of the unit that reports postdoctorates and doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Percentages may not add to total because of rounding. For more information on the mapping of GSS 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.

TABLE 4-19a

Civil, environmental, transportation and related engineering fields master's and doctoral student demographics, enrollment status, and funding: 2020

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Institutions	203	28.5	201	28.2	139	19.5
Schools	205	25.4	203	25.2	140	17.4
Units	379	1.8	350	1.7	203	1.0
All graduate students	18,304	100.0	10,819	100.0	7,485	100.0
Male	11,935	65.2	7,004	64.7	4,931	65.9
Female	6,369	34.8	3,815	35.3	2,554	34.1
U.S. citizens and permanent residents[a]	9,801	53.5	7,339	67.8	2,462	32.9
Hispanic or Latino	1,391	7.6	1,103	10.2	288	3.8
Not Hispanic or Latino						
American Indian or Alaska Native	46	0.3	36	0.3	10	0.1
Asian	1,060	5.8	817	7.6	243	3.2
Black or African American	509	2.8	347	3.2	162	2.2
Native Hawaiian or Other Pacific Islander	17	0.1	14	0.1	3	*
White	5,962	32.6	4,413	40.8	1,549	20.7
More than one race	347	1.9	261	2.4	86	1.1
Unknown ethnicity and race	469	2.6	348	3.2	121	1.6
Temporary visa holders	8,503	46.5	3,480	32.2	5,023	67.1
Part time	5,443	29.7	4,332	40.0	1,111	14.8
Full time	12,861	70.3	6,487	60.0	6,374	85.2
First time	3,453	18.9	2,583	23.9	870	11.6
Primary source of support for full-time students[b]						
Federal	2,040	11.1	506	4.7	1,534	20.5
DOD	147	0.8	50	0.5	97	1.3
DOE	154	0.8	27	0.2	127	1.7
HHS	147	0.8	44	0.4	103	1.4
NIH	30	0.2	7	0.1	23	0.3
Other HHS	117	0.6	37	0.3	80	1.1
NASA	83	0.5	7	0.1	76	1.0
NSF	848	4.6	138	1.3	710	9.5
USDA	58	0.3	17	0.2	41	0.5
Other	603	3.3	223	2.1	380	5.1
Nonfederal	6,696	36.6	2,544	23.5	4,152	55.5
Institutional	5,746	31.4	2,274	21.0	3,472	46.4
Domestic	711	3.9	207	1.9	504	6.7
Foreign	239	1.3	63	0.6	176	2.4
Self-support	4,125	22.5	3,437	31.8	688	9.2
Primary mechanism of support for full-time students[b]						
Fellowships	1,052	5.7	353	3.3	699	9.3
Research assistantships	4,488	24.5	1,148	10.6	3,340	44.6
Teaching assistantships	1,875	10.2	716	6.6	1,159	15.5
Traineeships	135	0.7	67	0.6	68	0.9
Other types of support	5,311	29.0	4,203	38.8	1,108	14.8
Self-support	4,125	22.5	3,437	31.8	688	9.2
Other	1,186	6.5	766	7.1	420	5.6

* = value < 0.05%.

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.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Funding data are available only for full-time students.

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.

TABLE 4-19b

Civil, environmental, transportation and related engineering fields postdoctoral appointee and doctorate-holding nonfaculty researcher demographics and funding: 2020

(Number and percent)

Characteristic	Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	Number	Percent	Number	Percent
Institutions	121	17.0	88	12.4
Schools	122	15.1	89	11.0
Units	175	0.8	127	0.6
All individuals	1,006	100.0	488	100.0
Male	723	71.9	370	75.8
Female	283	28.1	118	24.2
U.S. citizens and permanent residents[a]	339	33.7	na	na
Hispanic or Latino	19	1.9	na	na
Not Hispanic or Latino				
American Indian or Alaska Native	1	0.1	na	na
Asian	76	7.6	na	na
Black or African American	5	0.5	na	na
Native Hawaiian or Other Pacific Islander	2	0.2	na	na
White	189	18.8	na	na
More than one race	9	0.9	na	na
Unknown ethnicity and race	38	3.8	na	na
Temporary visa holders	667	66.3	na	na
Primary source of support				
Federal	377	37.5	na	na
Nonfederal[b]	545	54.2	na	na
Personal resources	2	0.2	na	na
Unknown or not stated	82	8.2	na	na
Primary mechanism of support				
Fellowships	75	7.5	na	na
Research grants	767	76.2	na	na
Traineeships	11	1.1	na	na
Other types of support	153	15.2	na	na
Degree type[c]				
Doctoral degree	825	82.0	419	85.9
Professional degree	5	0.5	23	4.7
Dual degree	6	0.6	2	0.4
Doctoral degree type unknown	170	16.9	44	9.0
Degree origin				
United States	496	49.3	na	na
Foreign country	204	20.3	na	na
Unknown	306	30.4	na	na

na = not applicable; citizenship, race and ethnicity, source of support, mechanism of support, and degree origin data are not collected for doctorate-holding nonfaculty researchers.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Nonfederal includes foreign support.

[c] Doctoral degree includes PhD, ScD, DEng, etc.; professional degree includes MD, DVM, DO, DDS, etc.; dual degree includes both professional and doctoral degrees (MD-PhD, DVM-PhD, etc.).

Note(s):
"Field" refers to the field of the unit that reports postdoctorates and doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Percentages may not add to total because of rounding. For more information on the mapping of GSS 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.

TABLE 4-20a

Electrical, electronics, communications and computer engineering master's and doctoral student demographics, enrollment status, and funding: 2020

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Institutions	256	36.0	254	35.7	174	24.4
Schools	261	32.4	259	32.1	176	21.8
Units	466	2.2	434	2.1	242	1.1
All graduate students	43,032	100.0	25,312	100.0	17,720	100.0
Male	33,626	78.1	19,407	76.7	14,219	80.2
Female	9,406	21.9	5,905	23.3	3,501	19.8
U.S. citizens and permanent residents[a]	17,078	39.7	11,749	46.4	5,329	30.1
Hispanic or Latino	1,918	4.5	1,460	5.8	458	2.6
Not Hispanic or Latino						
American Indian or Alaska Native	35	0.1	28	0.1	7	*
Asian	3,302	7.7	2,346	9.3	956	5.4
Black or African American	974	2.3	674	2.7	300	1.7
Native Hawaiian or Other Pacific Islander	8	*	7	*	1	*
White	9,316	21.6	6,217	24.6	3,099	17.5
More than one race	595	1.4	434	1.7	161	0.9
Unknown ethnicity and race	930	2.2	583	2.3	347	2.0
Temporary visa holders	25,954	60.3	13,563	53.6	12,391	69.9
Part time	12,529	29.1	9,983	39.4	2,546	14.4
Full time	30,503	70.9	15,329	60.6	15,174	85.6
First time	6,640	15.4	4,716	18.6	1,924	10.9
Primary source of support for full-time students[b]						
Federal	5,974	13.9	913	3.6	5,061	28.6
DOD	1,643	3.8	356	1.4	1,287	7.3
DOE	434	1.0	81	0.3	353	2.0
HHS	511	1.2	48	0.2	463	2.6
NIH	424	1.0	33	0.1	391	2.2
Other HHS	87	0.2	15	0.1	72	0.4
NASA	134	0.3	21	0.1	113	0.6
NSF	2,494	5.8	236	0.9	2,258	12.7
USDA	27	0.1	4	*	23	0.1
Other	731	1.7	167	0.7	564	3.2
Nonfederal	12,013	27.9	3,207	12.7	8,806	49.7
Institutional	9,941	23.1	2,839	11.2	7,102	40.1
Domestic	1,665	3.9	278	1.1	1,387	7.8
Foreign	407	0.9	90	0.4	317	1.8
Self-support	12,516	29.1	11,209	44.3	1,307	7.4
Primary mechanism of support for full-time students[b]						
Fellowships	1,925	4.5	232	0.9	1,693	9.6
Research assistantships	9,428	21.9	1,157	4.6	8,271	46.7
Teaching assistantships	3,973	9.2	1,301	5.1	2,672	15.1
Traineeships	195	0.5	95	0.4	100	0.6
Other types of support	14,982	34.8	12,544	49.6	2,438	13.8
Self-support	12,516	29.1	11,209	44.3	1,307	7.4
Other	2,466	5.7	1,335	5.3	1,131	6.4

* = value < 0.05%.

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.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Funding data are available only for full-time students.

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.

TABLE 4-20b

Electrical, electronics, communications and computer engineering postdoctoral appointee and doctorate-holding nonfaculty researcher demographics and funding: 2020

(Number and percent)

Characteristic	Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	Number	Percent	Number	Percent
Institutions	132	18.5	101	14.2
Schools	134	16.6	102	12.7
Units	160	0.8	139	0.7
All individuals	1,302	100.0	706	100.0
Male	1,085	83.3	592	83.9
Female	217	16.7	114	16.1
U.S. citizens and permanent residents[a]	360	27.6	na	na
Hispanic or Latino	22	1.7	na	na
Not Hispanic or Latino				
American Indian or Alaska Native	0	0.0	na	na
Asian	108	8.3	na	na
Black or African American	6	0.5	na	na
Native Hawaiian or Other Pacific Islander	0	0.0	na	na
White	167	12.8	na	na
More than one race	6	0.5	na	na
Unknown ethnicity and race	51	3.9	na	na
Temporary visa holders	942	72.4	na	na
Primary source of support				
Federal	739	56.8	na	na
Nonfederal[b]	464	35.6	na	na
Personal resources	26	2.0	na	na
Unknown or not stated	73	5.6	na	na
Primary mechanism of support				
Fellowships	104	8.0	na	na
Research grants	992	76.2	na	na
Traineeships	7	0.5	na	na
Other types of support	199	15.3	na	na
Degree type[c]				
Doctoral degree	1,046	80.3	606	85.8
Professional degree	8	0.6	8	1.1
Dual degree	7	0.5	1	0.1
Doctoral degree type unknown	241	18.5	91	12.9
Degree origin				
United States	477	36.6	na	na
Foreign country	372	28.6	na	na
Unknown	453	34.8	na	na

na = not applicable; citizenship, race and ethnicity, source of support, mechanism of support, and degree origin data are not collected for doctorate-holding nonfaculty researchers.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Nonfederal includes foreign support.

[c] Doctoral degree includes PhD, ScD, DEng, etc.; professional degree includes MD, DVM, DO, DDS, etc.; dual degree includes both professional and doctoral degrees (MD-PhD, DVM-PhD, etc.).

Note(s):
"Field" refers to the field of the unit that reports postdoctorates and doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Percentages may not add to total because of rounding. For more information on the mapping of GSS 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.

TABLE 4-21a

Industrial, manufacturing, systems engineering and operations research master's and doctoral student demographics, enrollment status, and funding: 2020

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Institutions	148	20.8	140	19.7	87	12.2
Schools	149	18.5	141	17.5	88	10.9
Units	243	1.1	222	1.0	110	0.5
All graduate students	14,869	100.0	11,030	100.0	3,839	100.0
Male	10,395	69.9	7,747	70.2	2,648	69.0
Female	4,474	30.1	3,283	29.8	1,191	31.0
U.S. citizens and permanent residents[a]	8,301	55.8	6,877	62.3	1,424	37.1
Hispanic or Latino	1,120	7.5	1,024	9.3	96	2.5
Not Hispanic or Latino						
American Indian or Alaska Native	19	0.1	17	0.2	2	0.1
Asian	975	6.6	798	7.2	177	4.6
Black or African American	623	4.2	488	4.4	135	3.5
Native Hawaiian or Other Pacific Islander	17	0.1	16	0.1	1	*
White	4,879	32.8	4,011	36.4	868	22.6
More than one race	246	1.7	196	1.8	50	1.3
Unknown ethnicity and race	422	2.8	327	3.0	95	2.5
Temporary visa holders	6,568	44.2	4,153	37.7	2,415	62.9
Part time	7,141	48.0	6,210	56.3	931	24.3
Full time	7,728	52.0	4,820	43.7	2,908	75.7
First time	2,398	16.1	1,953	17.7	445	11.6
Primary source of support for full-time students[b]						
Federal	1,095	7.4	484	4.4	611	15.9
DOD	502	3.4	365	3.3	137	3.6
DOE	45	0.3	10	0.1	35	0.9
HHS	67	0.5	14	0.1	53	1.4
NIH	29	0.2	3	*	26	0.7
Other HHS	38	0.3	11	0.1	27	0.7
NASA	22	0.1	2	*	20	0.5
NSF	314	2.1	25	0.2	289	7.5
USDA	4	*	0	0.0	4	0.1
Other	141	0.9	68	0.6	73	1.9
Nonfederal	2,864	19.3	956	8.7	1,908	49.7
Institutional	2,456	16.5	783	7.1	1,673	43.6
Domestic	325	2.2	132	1.2	193	5.0
Foreign	83	0.6	41	0.4	42	1.1
Self-support	3,769	25.3	3,380	30.6	389	10.1
Primary mechanism of support for full-time students[b]						
Fellowships	404	2.7	125	1.1	279	7.3
Research assistantships	1,545	10.4	320	2.9	1,225	31.9
Teaching assistantships	982	6.6	237	2.1	745	19.4
Traineeships	62	0.4	49	0.4	13	0.3
Other types of support	4,735	31.8	4,089	37.1	646	16.8
Self-support	3,769	25.3	3,380	30.6	389	10.1
Other	966	6.5	709	6.4	257	6.7

* = value < 0.05%.

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.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Funding data are available only for full-time students.

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.

TABLE 4-21b

Industrial, manufacturing, systems engineering and operations research postdoctoral appointee and doctorate-holding nonfaculty researcher demographics and funding: 2020

(Number and percent)

Characteristic	Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	Number	Percent	Number	Percent
Institutions	40	5.6	29	4.1
Schools	41	5.1	29	3.6
Units	49	0.2	43	0.2
All individuals	194	100.0	155	100.0
Male	158	81.4	124	80.0
Female	36	18.6	31	20.0
U.S. citizens and permanent residents[a]	58	29.9	na	na
Hispanic or Latino	2	1.0	na	na
Not Hispanic or Latino				
American Indian or Alaska Native	0	0.0	na	na
Asian	8	4.1	na	na
Black or African American	2	1.0	na	na
Native Hawaiian or Other Pacific Islander	0	0.0	na	na
White	40	20.6	na	na
More than one race	1	0.5	na	na
Unknown ethnicity and race	5	2.6	na	na
Temporary visa holders	136	70.1	na	na
Primary source of support				
Federal	65	33.5	na	na
Nonfederal[b]	107	55.2	na	na
Personal resources	2	1.0	na	na
Unknown or not stated	20	10.3	na	na
Primary mechanism of support				
Fellowships	6	3.1	na	na
Research grants	159	82.0	na	na
Traineeships	1	0.5	na	na
Other types of support	28	14.4	na	na
Degree type[c]				
Doctoral degree	167	86.1	122	78.7
Professional degree	0	0.0	6	3.9
Dual degree	0	0.0	1	0.6
Doctoral degree type unknown	27	13.9	26	16.8
Degree origin				
United States	99	51.0	na	na
Foreign country	51	26.3	na	na
Unknown	44	22.7	na	na

na = not applicable; citizenship, race and ethnicity, source of support, mechanism of support, and degree origin data are not collected for doctorate-holding nonfaculty researchers.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Nonfederal includes foreign support.

[c] Doctoral degree includes PhD, ScD, DEng, etc.; professional degree includes MD, DVM, DO, DDS, etc.; dual degree includes both professional and doctoral degrees (MD-PhD, DVM-PhD, etc.).

Note(s):
"Field" refers to the field of the unit that reports postdoctorates and doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Percentages may not add to total because of rounding. For more information on the mapping of GSS 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.

TABLE 4-22a

Mechanical engineering master's and doctoral student demographics, enrollment status, and funding: 2020

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Institutions	228	32.0	224	31.5	157	22.1
Schools	234	29.0	230	28.5	159	19.7
Units	284	1.3	263	1.2	169	0.8
All graduate students	25,782	100.0	14,305	100.0	11,477	100.0
Male	21,079	81.8	11,897	83.2	9,182	80.0
Female	4,703	18.2	2,408	16.8	2,295	20.0
U.S. citizens and permanent residents[a]	14,362	55.7	9,557	66.8	4,805	41.9
Hispanic or Latino	1,818	7.1	1,262	8.8	556	4.8
Not Hispanic or Latino						
American Indian or Alaska Native	38	0.1	24	0.2	14	0.1
Asian	1,800	7.0	1,220	8.5	580	5.1
Black or African American	561	2.2	336	2.3	225	2.0
Native Hawaiian or Other Pacific Islander	9	*	8	0.1	1	*
White	8,990	34.9	5,986	41.8	3,004	26.2
More than one race	538	2.1	341	2.4	197	1.7
Unknown ethnicity and race	608	2.4	380	2.7	228	2.0
Temporary visa holders	11,420	44.3	4,748	33.2	6,672	58.1
Part time	7,102	27.5	5,844	40.9	1,258	11.0
Full time	18,680	72.5	8,461	59.1	10,219	89.0
First time	4,785	18.6	3,343	23.4	1,442	12.6
Primary source of support for full-time students[b]						
Federal	4,283	16.6	866	6.1	3,417	29.8
DOD	1,013	3.9	292	2.0	721	6.3
DOE	576	2.2	111	0.8	465	4.1
HHS	328	1.3	39	0.3	289	2.5
NIH	254	1.0	24	0.2	230	2.0
Other HHS	74	0.3	15	0.1	59	0.5
NASA	235	0.9	49	0.3	186	1.6
NSF	1,595	6.2	227	1.6	1,368	11.9
USDA	24	0.1	3	*	21	0.2
Other	512	2.0	145	1.0	367	3.2
Nonfederal	8,754	34.0	2,713	19.0	6,041	52.6
Institutional	7,296	28.3	2,318	16.2	4,978	43.4
Domestic	1,137	4.4	334	2.3	803	7.0
Foreign	321	1.2	61	0.4	260	2.3
Self-support	5,643	21.9	4,882	34.1	761	6.6
Primary mechanism of support for full-time students[b]						
Fellowships	1,448	5.6	197	1.4	1,251	10.9
Research assistantships	6,682	25.9	1,315	9.2	5,367	46.8
Teaching assistantships	2,985	11.6	859	6.0	2,126	18.5
Traineeships	174	0.7	80	0.6	94	0.8
Other types of support	7,391	28.7	6,010	42.0	1,381	12.0
Self-support	5,643	21.9	4,882	34.1	761	6.6
Other	1,748	6.8	1,128	7.9	620	5.4

* = value < 0.05%.

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.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Funding data are available only for full-time students.

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.

TABLE 4-22b

Mechanical engineering postdoctoral appointee and doctorate-holding nonfaculty researcher demographics and funding: 2020

(Number and percent)

Characteristic	Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	Number	Percent	Number	Percent
Institutions	134	18.8	88	12.4
Schools	137	17.0	89	11.0
Units	148	0.7	99	0.5
All individuals	1,149	100.0	469	100.0
Male	945	82.2	391	83.4
Female	204	17.8	78	16.6
U.S. citizens and permanent residents[a]	332	28.9	na	na
Hispanic or Latino	18	1.6	na	na
Not Hispanic or Latino				
American Indian or Alaska Native	0	0.0	na	na
Asian	99	8.6	na	na
Black or African American	4	0.3	na	na
Native Hawaiian or Other Pacific Islander	0	0.0	na	na
White	166	14.4	na	na
More than one race	7	0.6	na	na
Unknown ethnicity and race	38	3.3	na	na
Temporary visa holders	817	71.1	na	na
Primary source of support				
Federal	575	50.0	na	na
Nonfederal[b]	492	42.8	na	na
Personal resources	6	0.5	na	na
Unknown or not stated	76	6.6	na	na
Primary mechanism of support				
Fellowships	139	12.1	na	na
Research grants	806	70.1	na	na
Traineeships	13	1.1	na	na
Other types of support	191	16.6	na	na
Degree type[c]				
Doctoral degree	905	78.8	400	85.3
Professional degree	9	0.8	17	3.6
Dual degree	3	0.3	2	0.4
Doctoral degree type unknown	232	20.2	50	10.7
Degree origin				
United States	504	43.9	na	na
Foreign country	225	19.6	na	na
Unknown	420	36.6	na	na

na = not applicable; citizenship, race and ethnicity, source of support, mechanism of support, and degree origin data are not collected for doctorate-holding nonfaculty researchers.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Nonfederal includes foreign support.

[c] Doctoral degree includes PhD, ScD, DEng, etc.; professional degree includes MD, DVM, DO, DDS, etc.; dual degree includes both professional and doctoral degrees (MD-PhD, DVM-PhD, etc.).

Note(s):
"Field" refers to the field of the unit that reports postdoctorates and doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Percentages may not add to total because of rounding. For more information on the mapping of GSS 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.

TABLE 4-23a

Metallurgical, mining, materials and related engineering fields master's and doctoral student demographics, enrollment status, and funding: 2020

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Institutions	97	13.6	90	12.6	82	11.5
Schools	98	12.2	91	11.3	82	10.2
Units	152	0.7	133	0.6	109	0.5
All graduate students	7,181	100.0	2,299	100.0	4,882	100.0
Male	4,890	68.1	1,542	67.1	3,348	68.6
Female	2,291	31.9	757	32.9	1,534	31.4
U.S. citizens and permanent residents[a]	3,943	54.9	1,494	65.0	2,449	50.2
Hispanic or Latino	423	5.9	160	7.0	263	5.4
Not Hispanic or Latino						
American Indian or Alaska Native	9	0.1	4	0.2	5	0.1
Asian	536	7.5	198	8.6	338	6.9
Black or African American	168	2.3	65	2.8	103	2.1
Native Hawaiian or Other Pacific Islander	4	0.1	2	0.1	2	*
White	2,502	34.8	945	41.1	1,557	31.9
More than one race	166	2.3	66	2.9	100	2.0
Unknown ethnicity and race	135	1.9	54	2.3	81	1.7
Temporary visa holders	3,238	45.1	805	35.0	2,433	49.8
Part time	1,118	15.6	733	31.9	385	7.9
Full time	6,063	84.4	1,566	68.1	4,497	92.1
First time	1,412	19.7	690	30.0	722	14.8
Primary source of support for full-time students[b]						
Federal	1,716	23.9	161	7.0	1,555	31.9
DOD	314	4.4	54	2.3	260	5.3
DOE	409	5.7	41	1.8	368	7.5
HHS	135	1.9	13	0.6	122	2.5
NIH	77	1.1	5	0.2	72	1.5
Other HHS	58	0.8	8	0.3	50	1.0
NASA	50	0.7	7	0.3	43	0.9
NSF	657	9.1	30	1.3	627	12.8
USDA	8	0.1	2	0.1	6	0.1
Other	143	2.0	14	0.6	129	2.6
Nonfederal	2,841	39.6	448	19.5	2,393	49.0
Institutional	2,258	31.4	368	16.0	1,890	38.7
Domestic	468	6.5	68	3.0	400	8.2
Foreign	115	1.6	12	0.5	103	2.1
Self-support	1,506	21.0	957	41.6	549	11.2
Primary mechanism of support for full-time students[b]						
Fellowships	700	9.7	81	3.5	619	12.7
Research assistantships	2,770	38.6	263	11.4	2,507	51.4
Teaching assistantships	616	8.6	127	5.5	489	10.0
Traineeships	57	0.8	8	0.3	49	1.0
Other types of support	1,920	26.7	1,087	47.3	833	17.1
Self-support	1,506	21.0	957	41.6	549	11.2
Other	414	5.8	130	5.7	284	5.8

* = value < 0.05%.

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.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Funding data are available only for full-time students.

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.

TABLE 4-23b

Metallurgical, mining, materials and related engineering fields postdoctoral appointee and doctorate-holding nonfaculty researcher demographics and funding: 2020

(Number and percent)

Characteristic	Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	Number	Percent	Number	Percent
Institutions	63	8.8	45	6.3
Schools	63	7.8	45	5.6
Units	85	0.4	64	0.3
All individuals	630	100.0	299	100.0
Male	494	78.4	232	77.6
Female	136	21.6	67	22.4
U.S. citizens and permanent residents[a]	169	26.8	na	na
Hispanic or Latino	9	1.4	na	na
Not Hispanic or Latino				
American Indian or Alaska Native	3	0.5	na	na
Asian	48	7.6	na	na
Black or African American	3	0.5	na	na
Native Hawaiian or Other Pacific Islander	0	0.0	na	na
White	95	15.1	na	na
More than one race	3	0.5	na	na
Unknown ethnicity and race	8	1.3	na	na
Temporary visa holders	461	73.2	na	na
Primary source of support				
Federal	328	52.1	na	na
Nonfederal[b]	242	38.4	na	na
Personal resources	6	1.0	na	na
Unknown or not stated	54	8.6	na	na
Primary mechanism of support				
Fellowships	32	5.1	na	na
Research grants	490	77.8	na	na
Traineeships	0	0.0	na	na
Other types of support	108	17.1	na	na
Degree type[c]				
Doctoral degree	421	66.8	241	80.6
Professional degree	5	0.8	10	3.3
Dual degree	3	0.5	5	1.7
Doctoral degree type unknown	201	31.9	43	14.4
Degree origin				
United States	197	31.3	na	na
Foreign country	168	26.7	na	na
Unknown	265	42.1	na	na

na = not applicable; citizenship, race and ethnicity, source of support, mechanism of support, and degree origin data are not collected for doctorate-holding nonfaculty researchers.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Nonfederal includes foreign support.

[c] Doctoral degree includes PhD, ScD, DEng, etc.; professional degree includes MD, DVM, DO, DDS, etc.; dual degree includes both professional and doctoral degrees (MD-PhD, DVM-PhD, etc.).

Note(s):
"Field" refers to the field of the unit that reports postdoctorates and doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Percentages may not add to total because of rounding. For more information on the mapping of GSS 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.

TABLE 4-24a

Other engineering master's and doctoral student demographics, enrollment status, and funding: 2020

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Institutions	189	26.5	169	23.7	124	17.4
Schools	194	24.1	174	21.6	124	15.4
Units	457	2.2	366	1.7	233	1.1
All graduate students	18,261	100.0	10,881	100.0	7,380	100.0
Male	13,272	72.7	7,910	72.7	5,362	72.7
Female	4,989	27.3	2,971	27.3	2,018	27.3
U.S. citizens and permanent residents[a]	11,443	62.7	7,896	72.6	3,547	48.1
Hispanic or Latino	980	5.4	697	6.4	283	3.8
Not Hispanic or Latino						
American Indian or Alaska Native	40	0.2	30	0.3	10	0.1
Asian	1,228	6.7	875	8.0	353	4.8
Black or African American	880	4.8	627	5.8	253	3.4
Native Hawaiian or Other Pacific Islander	18	0.1	14	0.1	4	0.1
White	7,412	40.6	5,067	46.6	2,345	31.8
More than one race	414	2.3	271	2.5	143	1.9
Unknown ethnicity and race	471	2.6	315	2.9	156	2.1
Temporary visa holders	6,818	37.3	2,985	27.4	3,833	51.9
Part time	7,560	41.4	5,977	54.9	1,583	21.4
Full time	10,701	58.6	4,904	45.1	5,797	78.6
First time	2,692	14.7	1,780	16.4	912	12.4
Primary source of support for full-time students[b]						
Federal	2,227	12.2	376	3.5	1,851	25.1
DOD	315	1.7	97	0.9	218	3.0
DOE	430	2.4	54	0.5	376	5.1
HHS	259	1.4	15	0.1	244	3.3
NIH	177	1.0	10	0.1	167	2.3
Other HHS	82	0.4	5	*	77	1.0
NASA	47	0.3	11	0.1	36	0.5
NSF	642	3.5	60	0.6	582	7.9
USDA	130	0.7	48	0.4	82	1.1
Other	404	2.2	91	0.8	313	4.2
Nonfederal	4,781	26.2	1,358	12.5	3,423	46.4
Institutional	3,942	21.6	1,102	10.1	2,840	38.5
Domestic	730	4.0	231	2.1	499	6.8
Foreign	109	0.6	25	0.2	84	1.1
Self-support	3,693	20.2	3,170	29.1	523	7.1
Primary mechanism of support for full-time students[b]						
Fellowships	751	4.1	161	1.5	590	8.0
Research assistantships	4,025	22.0	650	6.0	3,375	45.7
Teaching assistantships	1,039	5.7	306	2.8	733	9.9
Traineeships	86	0.5	23	0.2	63	0.9
Other types of support	4,800	26.3	3,764	34.6	1,036	14.0
Self-support	3,693	20.2	3,170	29.1	523	7.1
Other	1,107	6.1	594	5.5	513	7.0

* = value < 0.05%.

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.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Funding data are available only for full-time students.

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.

TABLE 4-24b

Other engineering postdoctoral appointee and doctorate-holding nonfaculty researcher demographics and funding: 2020

(Number and percent)

Characteristic	Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	Number	Percent	Number	Percent
Institutions	92	12.9	84	11.8
Schools	92	11.4	84	10.4
Units	161	0.8	162	0.8
All individuals	1,095	100.0	800	100.0
Male	833	76.1	613	76.6
Female	262	23.9	187	23.4
U.S. citizens and permanent residents[a]	373	34.1	na	na
Hispanic or Latino	19	1.7	na	na
Not Hispanic or Latino				
American Indian or Alaska Native	0	0.0	na	na
Asian	75	6.8	na	na
Black or African American	11	1.0	na	na
Native Hawaiian or Other Pacific Islander	1	0.1	na	na
White	215	19.6	na	na
More than one race	5	0.5	na	na
Unknown ethnicity and race	47	4.3	na	na
Temporary visa holders	722	65.9	na	na
Primary source of support				
Federal	538	49.1	na	na
Nonfederal[b]	459	41.9	na	na
Personal resources	21	1.9	na	na
Unknown or not stated	77	7.0	na	na
Primary mechanism of support				
Fellowships	60	5.5	na	na
Research grants	806	73.6	na	na
Traineeships	3	0.3	na	na
Other types of support	226	20.6	na	na
Degree type[c]				
Doctoral degree	886	80.9	639	79.9
Professional degree	3	0.3	15	1.9
Dual degree	3	0.3	5	0.6
Doctoral degree type unknown	203	18.5	141	17.6
Degree origin				
United States	460	42.0	na	na
Foreign country	308	28.1	na	na
Unknown	327	29.9	na	na

na = not applicable; citizenship, race and ethnicity, source of support, mechanism of support, and degree origin data are not collected for doctorate-holding nonfaculty researchers.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Nonfederal includes foreign support.

[c] Doctoral degree includes PhD, ScD, DEng, etc.; professional degree includes MD, DVM, DO, DDS, etc.; dual degree includes both professional and doctoral degrees (MD-PhD, DVM-PhD, etc.).

Note(s):
"Field" refers to the field of the unit that reports postdoctorates and doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Percentages may not add to total because of rounding. For more information on the mapping of GSS 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.

TABLE 4-25a

Clinical medicine master's and doctoral student demographics, enrollment status, and funding: 2020

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Institutions	255	35.8	252	35.4	108	15.2
Schools	271	33.6	266	33.0	115	14.3
Units	538	2.5	473	2.2	195	0.9
All graduate students	34,544	100.0	29,748	100.0	4,796	100.0
Male	8,467	24.5	7,071	23.8	1,396	29.1
Female	26,077	75.5	22,677	76.2	3,400	70.9
U.S. citizens and permanent residents[a]	31,239	90.4	27,391	92.1	3,848	80.2
Hispanic or Latino	4,614	13.4	4,132	13.9	482	10.1
Not Hispanic or Latino						
American Indian or Alaska Native	224	0.6	185	0.6	39	0.8
Asian	3,570	10.3	3,181	10.7	389	8.1
Black or African American	5,126	14.8	4,511	15.2	615	12.8
Native Hawaiian or Other Pacific Islander	69	0.2	57	0.2	12	0.3
White	14,675	42.5	12,672	42.6	2,003	41.8
More than one race	1,143	3.3	991	3.3	152	3.2
Unknown ethnicity and race	1,818	5.3	1,662	5.6	156	3.3
Temporary visa holders	3,305	9.6	2,357	7.9	948	19.8
Part time	14,016	40.6	12,562	42.2	1,454	30.3
Full time	20,528	59.4	17,186	57.8	3,342	69.7
First time	8,911	25.8	8,213	27.6	698	14.6
Primary source of support for full-time students[b]						
Federal	1,410	4.1	715	2.4	695	14.5
DOD	31	0.1	20	0.1	11	0.2
DOE	3	*	0	0.0	3	0.1
HHS	842	2.4	299	1.0	543	11.3
NIH	546	1.6	155	0.5	391	8.2
Other HHS	296	0.9	144	0.5	152	3.2
NASA	1	*	1	*	0	0.0
NSF	35	0.1	15	0.1	20	0.4
USDA	15	*	9	*	6	0.1
Other	483	1.4	371	1.2	112	2.3
Nonfederal	5,302	15.3	3,471	11.7	1,831	38.2
Institutional	4,737	13.7	3,160	10.6	1,577	32.9
Domestic	506	1.5	295	1.0	211	4.4
Foreign	59	0.2	16	0.1	43	0.9
Self-support	13,816	40.0	13,000	43.7	816	17.0
Primary mechanism of support for full-time students[b]						
Fellowships	733	2.1	456	1.5	277	5.8
Research assistantships	1,864	5.4	799	2.7	1,065	22.2
Teaching assistantships	1,021	3.0	573	1.9	448	9.3
Traineeships	786	2.3	431	1.4	355	7.4
Other types of support	16,124	46.7	14,927	50.2	1,197	25.0
Self-support	13,816	40.0	13,000	43.7	816	17.0
Other	2,308	6.7	1,927	6.5	381	7.9

* = value < 0.05%.

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.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Funding data are available only for full-time students.

Note(s):
Percentages may not add to total because of rounding. Clinical medicine includes graduate students in public health and medical and clinical sciences only. For more information on the mapping of GSS 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.

TABLE 4-25b

Clinical medicine postdoctoral appointee and doctorate-holding nonfaculty researcher demographics and funding: 2020

(Number and percent)

Characteristic	Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	Number	Percent	Number	Percent
Institutions	133	18.7	105	14.7
Schools	160	19.9	121	15.0
Units	1,743	8.2	1,268	6.0
All individuals	16,287	100.0	6,500	100.0
Male	8,071	49.6	3,126	48.1
Female	8,216	50.4	3,374	51.9
U.S. citizens and permanent residents[a]	7,654	47.0	na	na
Hispanic or Latino	554	3.4	na	na
Not Hispanic or Latino				
American Indian or Alaska Native	13	0.1	na	na
Asian	1,580	9.7	na	na
Black or African American	382	2.3	na	na
Native Hawaiian or Other Pacific Islander	21	0.1	na	na
White	4,114	25.3	na	na
More than one race	131	0.8	na	na
Unknown ethnicity and race	859	5.3	na	na
Temporary visa holders	8,633	53.0	na	na
Primary source of support				
Federal	7,936	48.7	na	na
Nonfederal[b]	6,544	40.2	na	na
Personal resources	287	1.8	na	na
Unknown or not stated	1,520	9.3	na	na
Primary mechanism of support				
Fellowships	2,040	12.5	na	na
Research grants	7,935	48.7	na	na
Traineeships	1,585	9.7	na	na
Other types of support	4,727	29.0	na	na
Degree type[c]				
Doctoral degree	10,261	63.0	3,642	56.0
Professional degree	3,025	18.6	837	12.9
Dual degree	802	4.9	216	3.3
Doctoral degree type unknown	2,199	13.5	1,805	27.8
Degree origin				
United States	5,862	36.0	na	na
Foreign country	5,760	35.4	na	na
Unknown	4,665	28.6	na	na

na = not applicable; citizenship, race and ethnicity, source of support, mechanism of support, and degree origin data are not collected for doctorate-holding nonfaculty researchers.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Nonfederal includes foreign support.

[c] Doctoral degree includes PhD, ScD, DEng, etc.; professional degree includes MD, DVM, DO, DDS, etc.; dual degree includes both professional and doctoral degrees (MD-PhD, DVM-PhD, etc.).

Note(s):

"Field" refers to the field of the unit that reports postdoctorates and doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Percentages may not add to total because of rounding. Clinical medicine includes postdoctoral appointees and nonfaculty researchers in anesthesiology, cardiology, endocrinology, gastroenterology, hematology, neurology, obstetrics and gynecology, oncology and cancer research, ophthalmology, otorhinolaryngology, pediatrics, psychiatry, public health, pulmonary disease, radiological sciences, surgery, and clinical medicine not elsewhere classified. For more information on the mapping of GSS 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.

TABLE 4-26a

Other health master's and doctoral student demographics, enrollment status, and funding: 2020

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Institutions	388	54.5	352	49.4	194	27.2
Schools	415	51.5	370	45.9	209	25.9
Units	942	4.5	679	3.2	433	2.0
All graduate students	40,894	100.0	30,376	100.0	10,518	100.0
Male	9,314	22.8	5,944	19.6	3,370	32.0
Female	31,580	77.2	24,432	80.4	7,148	68.0
U.S. citizens and permanent residents[a]	36,450	89.1	28,594	94.1	7,856	74.7
Hispanic or Latino	4,716	11.5	4,065	13.4	651	6.2
Not Hispanic or Latino						
American Indian or Alaska Native	111	0.3	88	0.3	23	0.2
Asian	2,692	6.6	1,996	6.6	696	6.6
Black or African American	3,156	7.7	2,253	7.4	903	8.6
Native Hawaiian or Other Pacific Islander	55	0.1	47	0.2	8	0.1
White	23,127	56.6	18,101	59.6	5,026	47.8
More than one race	1,049	2.6	836	2.8	213	2.0
Unknown ethnicity and race	1,544	3.8	1,208	4.0	336	3.2
Temporary visa holders	4,444	10.9	1,782	5.9	2,662	25.3
Part time	11,688	28.6	8,384	27.6	3,304	31.4
Full time	29,206	71.4	21,992	72.4	7,214	68.6
First time	10,664	26.1	9,330	30.7	1,334	12.7
Primary source of support for full-time students[b]						
Federal	1,977	4.8	712	2.3	1,265	12.0
DOD	89	0.2	41	0.1	48	0.5
DOE	1	*	0	0.0	1	*
HHS	1,119	2.7	156	0.5	963	9.2
NIH	952	2.3	96	0.3	856	8.1
Other HHS	167	0.4	60	0.2	107	1.0
NASA	3	*	0	0.0	3	*
NSF	96	0.2	37	0.1	59	0.6
USDA	26	0.1	18	0.1	8	0.1
Other	643	1.6	460	1.5	183	1.7
Nonfederal	9,065	22.2	4,759	15.7	4,306	40.9
Institutional	8,227	20.1	4,355	14.3	3,872	36.8
Domestic	631	1.5	296	1.0	335	3.2
Foreign	207	0.5	108	0.4	99	0.9
Self-support	18,164	44.4	16,521	54.4	1,643	15.6
Primary mechanism of support for full-time students[b]						
Fellowships	999	2.4	253	0.8	746	7.1
Research assistantships	2,897	7.1	936	3.1	1,961	18.6
Teaching assistantships	2,791	6.8	1,293	4.3	1,498	14.2
Traineeships	664	1.6	280	0.9	384	3.7
Other types of support	21,855	53.4	19,230	63.3	2,625	25.0
Self-support	18,164	44.4	16,521	54.4	1,643	15.6
Other	3,691	9.0	2,709	8.9	982	9.3

* = value < 0.05%.

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.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Funding data are available only for full-time students.

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.

TABLE 4-26b

Other health postdoctoral appointee and doctorate-holding nonfaculty researcher demographics and funding: 2020

(Number and percent)

Characteristic	Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	Number	Percent	Number	Percent
Institutions	131	18.4	106	14.9
Schools	154	19.1	118	14.6
Units	363	1.7	294	1.4
All individuals	2,191	100.0	1,028	100.0
Male	1,044	47.6	469	45.6
Female	1,147	52.4	559	54.4
U.S. citizens and permanent residents[a]	1,167	53.3	na	na
Hispanic or Latino	57	2.6	na	na
Not Hispanic or Latino				
American Indian or Alaska Native	4	0.2	na	na
Asian	227	10.4	na	na
Black or African American	53	2.4	na	na
Native Hawaiian or Other Pacific Islander	1	*	na	na
White	572	26.1	na	na
More than one race	15	0.7	na	na
Unknown ethnicity and race	238	10.9	na	na
Temporary visa holders	1,024	46.7	na	na
Primary source of support				
Federal	1,054	48.1	na	na
Nonfederal[b]	981	44.8	na	na
Personal resources	2	0.1	na	na
Unknown or not stated	154	7.0	na	na
Primary mechanism of support				
Fellowships	307	14.0	na	na
Research grants	1,166	53.2	na	na
Traineeships	200	9.1	na	na
Other types of support	518	23.6	na	na
Degree type[c]				
Doctoral degree	1,523	69.5	582	56.6
Professional degree	229	10.5	129	12.5
Dual degree	124	5.7	19	1.8
Doctoral degree type unknown	315	14.4	298	29.0
Degree origin				
United States	811	37.0	na	na
Foreign country	679	31.0	na	na
Unknown	701	32.0	na	na

* = value < 0.05%; na = not applicable; citizenship, race and ethnicity, source of support, mechanism of support, and degree origin data are not collected for doctorate-holding nonfaculty researchers.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Nonfederal includes foreign support.

[c] Doctoral degree includes PhD, ScD, DEng, etc.; professional degree includes MD, DVM, DO, DDS, etc.; dual degree includes both professional and doctoral degrees (MD-PhD, DVM-PhD, etc.).

Note(s):
"Field" refers to the field of the unit that reports postdoctorates and doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Percentages may not add to total because of rounding. For more information on the mapping of GSS 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.

TABLE 5-1

Graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in science, engineering, and health broad fields, by institutional control: 2020

(Number and percent)

Broad field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Total number	Percent in public institutions	Total number	Percent in public institutions	Total number	Percent in public institutions	Total number	Percent in public institutions	Total number	Percent in public institutions
All broad fields	697,813	67.0	414,478	64.4	283,335	70.6	65,681	53.7	29,661	64.9
Science	464,646	65.3	267,904	62.3	196,742	69.5	38,741	55.9	18,212	65.4
Agricultural and veterinary sciences	10,800	95.9	6,487	96.5	4,313	95.0	1,678	90.8	964	87.0
Biological and biomedical sciences	94,825	62.5	39,920	59.2	54,905	64.8	21,902	49.0	8,112	55.9
Computer and information sciences	98,864	68.2	80,690	67.7	18,174	70.4	823	53.3	458	72.9
Geosciences, atmospheric sciences, and ocean sciences	11,792	84.4	5,277	91.3	6,515	78.8	1,790	69.1	2,150	83.5
Mathematics and statistics	31,971	68.0	18,284	61.8	13,687	76.2	1,076	66.0	201	75.6
Multidisciplinary and interdisciplinary studies	14,533	60.0	10,980	57.2	3,553	68.8	832	57.0	679	66.7
Natural resources and conservation	12,498	83.5	8,793	81.3	3,705	88.7	845	84.1	573	93.4
Physical sciences	42,616	72.1	6,275	73.4	36,341	71.9	6,937	61.1	2,890	65.4
Psychology	68,394	51.6	47,279	45.2	21,115	65.9	1,312	59.0	749	72.0
Social sciences	78,353	63.5	43,919	61.1	34,434	66.6	1,546	53.6	1,436	58.3
Engineering	157,729	70.7	86,450	68.7	71,279	73.2	8,462	60.9	3,921	74.6
Aerospace, aeronautical, and astronautical engineering	6,971	75.3	4,326	71.9	2,645	80.8	233	68.2	149	82.6
Biological, biomedical, and biosystems engineering	12,775	60.0	4,536	60.8	8,239	59.6	1,696	45.6	525	57.5
Chemical, petroleum, and chemical-related engineering	10,554	70.6	2,942	69.8	7,612	71.0	1,157	59.7	330	66.1
Civil, environmental, transportation and related engineering fields	18,304	78.9	10,819	77.7	7,485	80.6	1,006	66.5	488	81.4
Electrical, electronics, communications and computer engineering	43,032	67.5	25,312	63.6	17,720	73.2	1,302	61.6	706	79.7

TABLE 5-1

Graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in science, engineering, and health broad fields, by institutional control: 2020

(Number and percent)

Broad field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Total number	Percent in public institutions	Total number	Percent in public institutions	Total number	Percent in public institutions	Total number	Percent in public institutions	Total number	Percent in public institutions
Industrial, manufacturing, systems engineering and operations research	14,869	63.6	11,030	58.2	3,839	79.1	194	72.7	155	64.5
Mechanical engineering	25,782	70.9	14,305	70.1	11,477	72.0	1,149	60.9	469	77.6
Metallurgical, mining, materials and related engineering fields	7,181	78.4	2,299	77.8	4,882	78.6	630	59.5	299	78.6
Other engineering	18,261	78.4	10,881	80.4	7,380	75.4	1,095	76.7	800	77.8
Health	75,438	69.0	60,124	67.8	15,314	73.6	18,478	45.6	7,528	58.8
Clinical medicine[a]	34,544	62.0	29,748	60.4	4,796	71.9	16,287	40.3	6,500	54.7
Other health	40,894	74.8	30,376	75.0	10,518	74.4	2,191	84.3	1,028	84.8

[a] Clinical medicine includes graduate students in public health and in medical clinical sciences and clinical and medical laboratory sciences. Clinical medicine includes postdoctoral appointees and nonfaculty researchers in anesthesiology, cardiology, endocrinology, gastroenterology, hematology, neurology, obstetrics and gynecology, oncology and cancer research, ophthalmology, otorhinolaryngology, pediatrics, psychiatry, public health, pulmonary disease, radiological sciences, surgery, and clinical medicine not elsewhere classified.

Note(s):
"Field" refers to the field of the unit that reports postdoctoral appointees and doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Percentages may not add to total because of rounding. For more information on the mapping of GSS 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.

TABLE 5-2

Graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in science, engineering, and health broad fields at HBCUs: 2020

(Number and percent)

Sex, citizenship, ethnicity, race, and broad field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Total number	Percent in HBCUs	Total number	Percent in HBCUs	Total number	Percent in HBCUs	Total number	Percent in HBCUs	Total number	Percent in HBCUs
All individuals	697,813	0.9	414,478	1.1	283,335	0.7	65,681	0.2	29,661	0.5
Male	359,913	0.7	202,148	0.8	157,765	0.6	38,239	0.2	17,255	0.5
Female	337,900	1.2	212,330	1.3	125,570	0.9	27,442	0.2	12,406	0.5
U.S. citizens and permanent residents[a]	487,051	1.1	314,305	1.3	172,746	0.9	29,890	0.3	na	0.0
Hispanic or Latino	62,679	0.3	43,750	0.3	18,929	0.2	2,027	0.1	na	0.0
Not Hispanic or Latino		0.0		0.0		0.0		0.0		0.0
American Indian or Alaska Native	2,042	1.2	1,284	1.1	758	1.5	72	1.4	na	0.0
Asian	53,094	0.4	35,075	0.4	18,019	0.4	5,696	0.3	na	0.0
Black or African American	41,916	9.7	30,842	9.5	11,074	10.1	1,081	2.9	na	0.0
Native Hawaiian or Other Pacific Islander	778	0.8	578	0.3	200	2.0	52	3.8	na	0.0
White	284,055	0.2	175,090	0.3	108,965	0.1	17,123	0.1	na	0.0
More than one race	17,579	0.7	11,069	0.7	6,510	0.6	555	0.2	na	0.0
Unknown ethnicity and race	24,908	0.9	16,617	1.0	8,291	0.6	3,284	0.2	na	0.0
Temporary visa holders	210,762	0.5	100,173	0.4	110,589	0.5	35,791	0.2	na	0.0
Science	464,646	1.0	267,904	1.2	196,742	0.7	38,741	0.3	18,212	0.6
Agricultural and veterinary sciences	10,800	2.7	6,487	3.8	4,313	0.9	1,678	0.7	964	0.7
Biological and biomedical sciences	94,825	1.1	39,920	1.7	54,905	0.7	21,902	0.2	8,112	0.6
Computer and information sciences	98,864	0.7	80,690	0.8	18,174	0.5	823	0.2	458	0.2
Geosciences, atmospheric sciences, and ocean sciences	11,792	0.6	5,277	1.0	6,515	0.3	1,790	0.1	2,150	1.2
Mathematics and statistics	31,971	0.5	18,284	0.5	13,687	0.4	1,076	0.3	201	1.0
Multidisciplinary and interdisciplinary studies	14,533	0.3	10,980	0.1	3,553	0.8	832	0.5	679	0.1
Natural resources and conservation	12,498	1.3	8,793	0.8	3,705	2.7	845	2.1	573	1.0
Physical sciences	42,616	0.8	6,275	2.3	36,341	0.5	6,937	0.5	2,890	0.2
Psychology	68,394	1.1	47,279	1.2	21,115	1.0	1,312	0.0	749	0.0
Social sciences	78,353	1.1	43,919	1.4	34,434	0.7	1,546	0.1	1,436	0.3
Engineering	157,729	0.6	86,450	0.6	71,279	0.6	8,462	0.2	3,921	0.3
Aerospace, aeronautical, and astronautical engineering	6,971	0.0	4,326	0.0	2,645	0.0	233	0.0	149	0.0
Biological, biomedical, and biosystems engineering	12,775	0.2	4,536	0.5	8,239	*	1,696	0.0	525	0.0
Chemical, petroleum, and chemical-related engineering	10,554	0.2	2,942	0.4	7,612	0.1	1,157	0.2	330	0.0
Civil, environmental, transportation and related engineering fields	18,304	0.2	10,819	0.2	7,485	0.3	1,006	0.1	488	0.4

TABLE 5-2

Graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in science, engineering, and health broad fields at HBCUs: 2020

(Number and percent)

Sex, citizenship, ethnicity, race, and broad field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Total number	Percent in HBCUs	Total number	Percent in HBCUs	Total number	Percent in HBCUs	Total number	Percent in HBCUs	Total number	Percent in HBCUs
Electrical, electronics, communications and computer engineering	43,032	0.5	25,312	0.4	17,720	0.7	1,302	0.3	706	0.0
Industrial, manufacturing, systems engineering and operations research	14,869	0.5	11,030	0.2	3,839	1.1	194	0.5	155	0.0
Mechanical engineering	25,782	0.3	14,305	0.3	11,477	0.4	1,149	0.1	469	0.0
Metallurgical, mining, materials and related engineering fields	7,181	0.2	2,299	0.3	4,882	0.1	630	0.3	299	0.0
Other engineering	18,261	2.5	10,881	2.3	7,380	2.7	1,095	0.2	800	1.0
Health	75,438	1.4	60,124	1.4	15,314	1.6	18,478	*	7,528	0.4
Clinical medicine[b]	34,544	1.3	29,748	1.1	4,796	2.9	16,287	0.0	6,500	0.3
Other health	40,894	1.5	30,376	1.6	10,518	1.1	2,191	0.4	1,028	1.1
Black or African American individuals		0.0		0.0		0.0		0.0		0.0
Male	15,774	8.8	11,397	8.4	4,377	9.6	417	2.2	na	0.0
Female	26,142	10.2	19,445	10.1	6,697	10.5	664	3.3	na	0.0
Science	29,051	10.1	21,126	10.1	7,925	10.0	578	4.3	na	0.0
Agricultural and veterinary sciences	378	35.7	279	42.3	99	17.2	14	7.1	na	0.0
Biological and biomedical sciences	6,049	11.6	3,834	13.3	2,215	8.5	308	1.6	na	0.0
Computer and information sciences	5,639	7.9	5,171	7.8	468	8.8	6	0.0	na	0.0
Geosciences, atmospheric sciences, and ocean sciences	267	12.4	148	19.6	119	3.4	21	0.0	na	0.0
Mathematics and statistics	777	9.3	573	9.2	204	9.3	11	0.0	na	0.0
Multidisciplinary and interdisciplinary studies	955	1.7	746	1.1	209	3.8	24	4.2	na	0.0
Natural resources and conservation	404	23.0	248	10.5	156	42.9	29	48.3	na	0.0
Physical sciences	1,096	16.0	338	23.4	758	12.7	49	6.1	na	0.0
Psychology	7,044	8.2	5,425	7.9	1,619	8.9	37	0.0	na	0.0
Social sciences	6,442	10.7	4,364	11.0	2,078	10.0	79	1.3	na	0.0
Engineering	4,583	9.3	2,952	9.0	1,631	9.7	68	2.9	na	0.0
Aerospace, aeronautical, and astronautical engineering	163	0.0	115	0.0	48	0.0	0	0.0	na	0.0
Biological, biomedical, and biosystems engineering	450	4.0	188	8.0	262	1.1	30	0.0	na	0.0
Chemical, petroleum, and chemical-related engineering	255	4.7	112	4.5	143	4.9	7	0.0	na	0.0
Civil, environmental, transportation and related engineering fields	509	3.5	347	2.9	162	4.9	5	0.0	na	0.0

TABLE 5-2

Graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in science, engineering, and health broad fields at HBCUs: 2020

(Number and percent)

Sex, citizenship, ethnicity, race, and broad field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Total number	Percent in HBCUs	Total number	Percent in HBCUs	Total number	Percent in HBCUs	Total number	Percent in HBCUs	Total number	Percent in HBCUs
Electrical, electronics, communications and computer engineering	974	7.7	674	5.9	300	11.7	6	0.0	na	0.0
Industrial, manufacturing, systems engineering and operations research	623	5.8	488	3.3	135	14.8	2	50.0	na	0.0
Mechanical engineering	561	5.3	336	3.9	225	7.6	4	0.0	na	0.0
Metallurgical, mining, materials and related engineering fields	168	1.8	65	1.5	103	1.9	3	0.0	na	0.0
Other engineering	880	26.5	627	26.6	253	26.1	11	9.1	na	0.0
Health	8,282	8.3	6,764	7.6	1,518	11.4	435	0.9	na	0.0
Clinical medicine[b]	5,126	7.5	4,511	6.2	615	17.1	382	0.0	na	0.0
Other health	3,156	9.7	2,253	10.6	903	7.5	53	7.5	na	0.0

* = value < 0.05%; - = not calculable; na = not applicable.

HBCU = historically Black college or university.

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] Clinical medicine includes graduate students in public health and in medical clinical sciences and clinical and medical laboratory sciences. Clinical medicine includes postdoctoral appointees and nonfaculty researchers in anesthesiology, cardiology, endocrinology, gastroenterology, hematology, neurology, obstetrics and gynecology, oncology and cancer research, ophthalmology, otorhinolaryngology, pediatrics, psychiatry, public health, pulmonary disease, radiological sciences, surgery, and clinical medicine not elsewhere classified.

Note(s):
"Field" refers to the field of the unit that reports postdoctoral appointees and doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Percentages may not add to total because of rounding. For more information on the mapping of GSS 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.

TABLE 5-3

Graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in science, engineering, and health, by broad field and Carnegie classification: 2020

(Number and percent)

2018 Carnegie classification by area of study	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
All broad fields	697,813	100.0	414,478	100.0	283,335	100.0	65,681	100.0	29,661	100.0
Doctoral: highest research	455,214	65.2	224,652	54.2	230,562	81.4	54,592	83.1	25,102	84.6
Doctoral: higher research	108,922	15.6	73,200	17.7	35,722	12.6	3,023	4.6	2,588	8.7
Doctoral: moderate research	43,287	6.2	38,134	9.2	5,153	1.8	164	0.2	1	*
Master's: larger programs	62,628	9.0	61,133	14.7	1,495	0.5	92	0.1	59	0.2
Master's: medium programs	4,629	0.7	4,301	1.0	328	0.1	34	0.1	89	0.3
Master's: small programs and baccalaureate	4,034	0.6	3,413	0.8	621	0.2	68	0.1	19	0.1
Medical schools and centers	17,005	2.4	8,807	2.1	8,198	2.9	6,350	9.7	1,472	5.0
Other 4-year special focus	860	0.1	551	0.1	309	0.1	8	*	17	0.1
Not classified	1,234	0.2	287	0.1	947	0.3	1,350	2.1	314	1.1
Science	464,646	100.0	267,904	100.0	196,742	100.0	38,741	100.0	18,212	100.0
Doctoral: highest research	295,679	63.6	136,695	51.0	158,984	80.8	31,581	81.5	15,262	83.8
Doctoral: higher research	71,299	15.3	46,849	17.5	24,450	12.4	2,207	5.7	1,766	9.7
Doctoral: moderate research	34,063	7.3	30,209	11.3	3,854	2.0	104	0.3	1	*
Master's: larger programs	44,962	9.7	43,908	16.4	1,054	0.5	79	0.2	44	0.2
Master's: medium programs	3,323	0.7	3,172	1.2	151	0.1	14	*	15	0.1
Master's: small programs and baccalaureate	3,135	0.7	2,576	1.0	559	0.3	63	0.2	16	0.1
Medical schools and centers	10,750	2.3	4,203	1.6	6,547	3.3	3,432	8.9	816	4.5
Other 4-year special focus	338	0.1	126	*	212	0.1	7	*	1	*
Not classified	1,097	0.2	166	0.1	931	0.5	1,254	3.2	291	1.6
Engineering	157,729	100.0	86,450	100.0	71,279	100.0	8,462	100.0	3,921	100.0
Doctoral: highest research	120,918	76.7	59,569	68.9	61,349	86.1	7,798	92.2	3,174	80.9
Doctoral: higher research	24,220	15.4	15,472	17.9	8,748	12.3	505	6.0	590	15.0
Doctoral: moderate research	2,044	1.3	1,835	2.1	209	0.3	10	0.1	0	0.0
Master's: larger programs	8,392	5.3	8,112	9.4	280	0.4	12	0.1	14	0.4
Master's: medium programs	653	0.4	476	0.6	177	0.2	20	0.2	74	1.9
Master's: small programs and baccalaureate	524	0.3	493	0.6	31	*	3	*	2	0.1
Medical schools and centers	455	0.3	67	0.1	388	0.5	101	1.2	33	0.8
Other 4-year special focus	522	0.3	425	0.5	97	0.1	1	*	16	0.4
Not classified	1	*	1	*	0	0.0	12	0.1	18	0.5
Health	75,438	100.0	60,124	100.0	15,314	100.0	18,478	100.0	7,528	100.0
Doctoral: highest research	38,617	51.2	28,388	47.2	10,229	66.8	15,213	82.3	6,666	88.5
Doctoral: higher research	13,403	17.8	10,879	18.1	2,524	16.5	311	1.7	232	3.1
Doctoral: moderate research	7,180	9.5	6,090	10.1	1,090	7.1	50	0.3	0	0.0
Master's: larger programs	9,274	12.3	9,113	15.2	161	1.1	1	*	1	*
Master's: medium programs	653	0.9	653	1.1	0	0.0	0	0.0	0	0.0
Master's: small programs and baccalaureate	375	0.5	344	0.6	31	0.2	2	*	1	*
Medical schools and centers	5,800	7.7	4,537	7.5	1,263	8.2	2,817	15.2	623	8.3
Other 4-year special focus	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Not classified	136	0.2	120	0.2	16	0.1	84	0.5	5	0.1

* = value < 0.05%.

Note(s):
Institutions are designated by 2018 Carnegie classification code. 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.

TABLE 5-4a

Institutional rankings for graduate students: 2020

(Number)

Institution	All graduate students					Full-time students					Part-time students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
All institutions[a]	-	697,813	464,646	157,729	75,438	-	491,515	330,541	111,240	49,734	-	206,298	134,105	46,489	25,704
Georgia Institute of Technology	1	15,148	11,516	3,607	25	18	4,999	2,074	2,914	11	1	10,149	9,442	693	14
Johns Hopkins U.	2	12,315	7,127	3,392	1,796	24	4,645	2,765	1,228	652	2	7,670	4,362	2,164	1,144
Liberty U.	3	10,197	8,725	20	1,452	16	5,226	4,556	19	651	3	4,971	4,169	1	801
U. Michigan	4	10,022	5,363	4,009	650	1	8,592	4,812	3,170	610	22	1,430	551	839	40
Columbia U. in the City of New York	5	9,531	6,212	2,511	808	5	6,350	4,459	1,221	670	7	3,181	1,753	1,290	138
U. Southern California	6	9,120	5,571	2,777	772	3	6,919	4,552	1,760	607	11	2,201	1,019	1,017	165
New York U.	7	8,782	6,661	1,425	696	4	6,593	4,931	1,215	447	12	2,189	1,730	210	249
Arizona State U.	8	8,716	5,538	3,033	145	14	5,311	3,271	1,917	123	6	3,405	2,267	1,116	22
U. Illinois, Urbana-Champaign	9	8,698	5,881	2,623	194	2	7,280	4,697	2,394	189	23	1,418	1,184	229	5
Texas A&M U.	10	7,886	4,534	2,987	365	6	6,259	3,568	2,381	310	18	1,627	966	606	55
U. Washington	11	7,882	4,858	2,064	960	7	5,872	3,785	1,327	760	15	2,010	1,073	737	200
Purdue U.	12	7,197	2,754	4,029	414	25	4,598	2,099	2,220	279	8	2,599	655	1,809	135
U. Florida	13	7,164	4,634	1,961	569	17	5,137	3,253	1,449	435	14	2,027	1,381	512	134
Pennsylvania State U.	14	7,065	4,510	2,333	222	27	4,595	2,951	1,482	162	9	2,470	1,559	851	60
U. Colorado	15	6,888	3,947	2,285	656	10	5,672	3,407	1,708	557	29	1,216	540	577	99
U. California, Berkeley	16	6,556	4,282	1,679	595	11	5,580	3,546	1,636	398	47	976	736	43	197
U. Maryland, College Park	17	6,374	3,560	1,660	1,154	21	4,730	3,074	1,190	466	17	1,644	486	470	688
George Washington U.	18	6,358	3,855	801	1,702	45	2,855	2,171	262	422	5	3,503	1,684	539	1,280
U. Texas, Austin	19	6,043	3,647	2,005	391	20	4,905	2,924	1,681	300	31	1,138	723	324	91
Stanford U.	20	5,943	3,554	2,231	158	9	5,698	3,426	2,133	139	204	245	128	98	19
Boston U.	21	5,880	4,011	997	872	31	4,305	2,863	798	644	20	1,575	1,148	199	228
U. Wisconsin-Madison	22	5,876	4,080	1,396	400	19	4,908	3,500	1,068	340	49	968	580	328	60
U. Minnesota	23	5,794	3,750	1,257	787	15	5,258	3,476	1,130	652	100	536	274	127	135
U. California, Los Angeles	24	5,757	3,384	1,826	547	8	5,757	3,384	1,826	547	640	0	0	0	0
Northeastern U.	25	5,740	2,458	3,167	115	12	5,389	2,260	3,020	109	153	351	198	147	6
North Carolina State U.	26	5,717	3,248	2,469	0	29	4,501	2,625	1,876	0	29	1,216	623	593	0
Cornell U.	27	5,339	3,541	1,707	91	13	5,339	3,541	1,707	91	640	0	0	0	0
Ohio State U.	28	5,076	2,874	1,662	540	28	4,568	2,698	1,458	412	108	508	176	204	128
U. California, San Diego	29	5,003	2,980	2,023	0	23	4,677	2,809	1,868	0	162	326	171	155	0
Carnegie Mellon U.	30	4,805	2,516	2,289	0	25	4,598	2,443	2,155	0	232	207	73	134	0
U. Chicago	31	4,719	4,511	208	0	32	4,105	3,898	207	0	83	614	613	1	0
Massachusetts Institute of Technology	32	4,692	2,397	2,295	0	22	4,682	2,395	2,287	0	572	10	2	8	0
Indiana U.	33	4,646	3,464	399	783	37	3,510	2,767	204	539	32	1,136	697	195	244

TABLE 5-4a

Institutional rankings for graduate students: 2020

(Number)

Institution	All graduate students					Full-time students					Part-time students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Virginia Polytechnic Institute and State U.	34	4,533	2,590	1,883	60	38	3,236	1,628	1,562	46	26	1,297	962	321	14
Harvard U.	35	4,405	3,289	463	653	33	4,088	3,154	452	482	165	317	135	11	171
U. California, Davis	36	4,385	3,203	939	243	30	4,306	3,171	901	234	379	79	32	38	9
George Mason U.	37	4,336	3,535	520	281	61	2,248	1,853	245	150	13	2,088	1,682	275	131
U. South Florida, Tampa	38	4,330	2,297	822	1,211	42	3,037	1,839	637	561	27	1,293	458	185	650
Rutgers, State U. New Jersey	39	4,206	3,306	832	68	40	3,162	2,578	539	45	40	1,044	728	293	23
U. Arizona	40	4,132	2,691	784	657	46	2,666	1,864	407	395	21	1,466	827	377	262
Northwestern U.	41	4,101	2,657	1,192	252	36	3,512	2,288	1,054	170	88	589	369	138	82
U. Texas, Dallas	42	4,045	2,843	969	233	41	3,072	2,151	699	222	48	973	692	270	11
SUNY, U. Buffalo	43	3,957	2,138	1,334	485	72	1,965	1,115	521	329	16	1,992	1,023	813	156
U. California, Irvine	44	3,886	2,679	1,039	168	34	3,707	2,557	990	160	256	179	122	49	8
U. North Carolina, Chapel Hill	45	3,811	2,440	109	1,262	35	3,531	2,388	108	1,035	178	280	52	1	227
U. Pittsburgh	46	3,782	2,369	848	565	39	3,219	2,109	683	427	94	563	260	165	138
U. Maryland, U. C.	47	3,742	3,742	0	0	527	52	52	0	0	4	3,690	3,690	0	0
U. Central Florida	48	3,713	1,779	1,283	651	55	2,450	1,276	758	416	28	1,263	503	525	235
Colorado State U., Fort Collins	49	3,629	2,675	892	62	114	1,261	1,018	200	43	10	2,368	1,657	692	19
U. Utah	50	3,618	2,231	891	496	47	2,661	1,661	646	354	50	957	570	245	142
Michigan State U.	51	3,590	2,736	554	300	43	2,891	2,224	473	194	75	699	512	81	106
Florida State U.	52	3,348	2,777	311	260	60	2,295	1,937	220	138	38	1,053	840	91	122
U. Massachusetts, Amherst	53	3,314	2,236	643	435	50	2,530	1,894	464	172	62	784	342	179	263
U. Cincinnati	54	3,305	1,633	872	800	75	1,922	1,026	491	405	24	1,383	607	381	395
U. Illinois, Chicago	55	3,286	1,738	849	699	52	2,513	1,391	668	454	64	773	347	181	245
U. Connecticut	56	3,275	2,064	884	327	48	2,639	1,790	590	259	80	636	274	294	68
Oregon State U.	57	3,062	1,881	849	332	58	2,365	1,439	709	217	76	697	442	140	115
Washington U., Saint Louis	58	2,964	1,714	1,000	250	49	2,555	1,568	797	190	136	409	146	203	60
SUNY, Stony Brook U.	59	2,955	2,216	548	191	54	2,501	1,897	444	160	122	454	319	104	31
Georgetown U.	60	2,954	2,873	0	81	56	2,446	2,409	0	37	108	508	464	0	44
Texas Tech U.	61	2,909	1,886	814	209	63	2,188	1,467	570	151	72	721	419	244	58
Iowa State U.	62	2,902	1,919	955	28	82	1,772	1,186	566	20	33	1,130	733	389	8
U. Virginia	63	2,897	1,849	863	185	57	2,442	1,570	711	161	121	455	279	152	24
U. Texas, Arlington	63	2,897	1,422	1,366	109	77	1,823	933	831	59	36	1,074	489	535	50
Duke U.	65	2,886	1,931	809	146	44	2,886	1,931	809	146	640	0	0	0	0
U. Houston	66	2,873	1,691	1,008	174	65	2,161	1,261	744	156	73	712	430	264	18
U. Georgia	67	2,738	2,297	169	272	53	2,509	2,104	158	247	214	229	193	11	25

TABLE 5-4a

Institutional rankings for graduate students: 2020

(Number)

Institution	All graduate students					Full-time students					Part-time students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
U. Tennessee, Knoxville	68	2,619	1,490	981	148	111	1,295	772	419	104	25	1,324	718	562	44
Lamar U.	69	2,575	2,109	177	289	87	1,557	1,266	117	174	45	1,018	843	60	115
U. Pennsylvania	70	2,559	2,007	552	0	51	2,516	1,988	528	0	454	43	19	24	0
Syracuse U.	71	2,549	2,051	469	29	79	1,798	1,416	357	25	67	751	635	112	4
San Jose State U.	72	2,530	724	1,663	143	91	1,466	439	913	114	37	1,064	285	750	29
Clemson U.	73	2,486	1,343	1,018	125	71	1,967	942	936	89	105	519	401	82	36
Florida International U.	74	2,462	1,602	477	383	73	1,961	1,300	364	297	110	501	302	113	86
Tufts U.	75	2,430	1,866	327	237	74	1,941	1,529	260	152	113	489	337	67	85
Pepperdine U.	76	2,429	2,429	0	0	152	807	807	0	0	19	1,622	1,622	0	0
U. Alabama, Birmingham	77	2,382	1,284	555	543	103	1,361	953	148	260	44	1,021	331	407	283
National U.	78	2,354	2,200	0	154	116	1,239	1,129	0	110	34	1,115	1,071	0	44
Auburn U.	79	2,352	1,247	1,018	87	110	1,311	674	570	67	42	1,041	573	448	20
U. Oklahoma	80	2,300	1,677	517	106	94	1,435	1,053	304	78	56	865	624	213	28
U. California, Riverside	81	2,299	1,636	663	0	64	2,181	1,634	547	0	325	118	2	116	0
Princeton U.	82	2,296	1,586	710	0	59	2,296	1,586	710	0	640	0	0	0	0
Case Western Reserve U.	83	2,289	1,505	627	157	68	2,003	1,307	561	135	175	286	198	66	22
U. Missouri, Columbia	84	2,282	1,620	298	364	104	1,359	1,026	138	195	54	923	594	160	169
U. North Texas, Denton	85	2,264	1,816	285	163	109	1,318	984	184	150	52	946	832	101	13
Georgia State U.	86	2,261	1,864	0	397	76	1,849	1,571	0	278	135	412	293	0	119
Drexel U.	87	2,253	1,537	549	167	96	1,419	950	374	95	58	834	587	175	72
U. Kentucky	88	2,249	1,520	358	371	69	1,979	1,365	314	300	186	270	155	44	71
U. Delaware	89	2,243	1,464	663	116	67	2,081	1,350	618	113	271	162	114	45	3
U. California, Santa Barbara	90	2,241	1,774	467	0	62	2,241	1,774	467	0	640	0	0	0	0
DePaul U.	91	2,220	1,992	116	112	96	1,419	1,245	82	92	61	801	747	34	20
Wayne State U.	92	2,169	1,310	515	344	85	1,608	1,015	325	268	95	561	295	190	76
U. New Mexico	92	2,169	1,240	608	321	127	1,132	653	253	226	43	1,037	587	355	95
Yale U.	94	2,114	1,816	125	173	66	2,092	1,800	121	171	518	22	16	4	2
U. Kansas	95	2,101	1,503	342	256	83	1,713	1,234	282	197	143	388	269	60	59
U. Nebraska-Lincoln	96	2,064	1,487	514	63	88	1,554	1,118	384	52	107	510	369	130	11
Louisiana State U.	97	2,044	1,394	425	225	80	1,778	1,224	348	206	188	266	170	77	19
Washington State U.	98	2,037	1,422	509	106	84	1,685	1,188	406	91	151	352	234	103	15
U. Texas, San Antonio	99	2,032	1,455	467	110	133	1,040	761	227	52	46	992	694	240	58
Brown U.	100	2,021	1,549	263	209	70	1,973	1,522	251	200	447	48	27	12	9
U. Denver	101	2,011	1,851	130	30	102	1,367	1,292	64	11	79	644	559	66	19

TABLE 5-4a

Institutional rankings for graduate students: 2020

(Number)

Institution	All graduate students					Full-time students					Part-time students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
SUNY, Binghamton U.	102	1,983	1,285	634	64	95	1,431	958	433	40	98	552	327	201	24
U. Miami	103	1,976	1,602	229	145	81	1,776	1,459	211	106	237	200	143	18	39
New Jersey Institute of Technology	104	1,943	1,038	889	16	128	1,130	676	445	9	59	813	362	444	7
U. Texas Health Science Center, Houston	105	1,935	1,092	41	802	120	1,177	789	39	349	65	758	303	2	453
Florida Institute of Technology	106	1,908	1,405	503	0	120	1,177	924	253	0	69	731	481	250	0
Mississippi State U.	107	1,893	1,217	614	62	131	1,082	765	272	45	60	811	452	342	17
Stevens Institute of Technology	108	1,886	671	1,209	6	108	1,337	564	769	4	99	549	107	440	2
Illinois Institute of Technology	109	1,879	1,276	560	43	112	1,291	883	403	5	89	588	393	157	38
SUNY, U. Albany	110	1,858	1,551	30	277	130	1,083	928	24	131	63	775	623	6	146
Vanderbilt U.	111	1,848	1,413	384	51	78	1,820	1,398	374	48	503	28	15	10	3
U. Iowa	112	1,839	1,243	285	311	86	1,572	1,074	239	259	187	267	169	46	52
Columbia U., Teachers C.	113	1,827	1,580	0	247	122	1,170	1,015	0	155	78	657	565	0	92
Temple U.	114	1,826	1,457	187	182	93	1,445	1,152	143	150	144	381	305	44	32
Oklahoma State U.	115	1,815	1,272	455	88	114	1,261	897	287	77	97	554	375	168	11
San Diego State U.	116	1,787	1,073	282	432	119	1,209	681	154	374	92	578	392	128	58
U. Wisconsin-Milwaukee	117	1,774	1,178	258	338	99	1,394	929	185	280	145	380	249	73	58
U. Massachusetts, Lowell	118	1,768	794	833	141	150	820	350	391	79	51	948	444	442	62
U. South Carolina	119	1,740	965	352	423	100	1,389	847	286	256	153	351	118	66	167
California State U., Northridge	120	1,733	485	289	959	180	644	228	127	289	35	1,089	257	162	670
West Virginia U.	121	1,722	1,021	413	288	98	1,413	857	311	245	167	309	164	102	43
Rochester Institute of Technology	122	1,717	1,210	501	6	106	1,339	978	358	3	147	378	232	143	3
American U.	123	1,698	1,676	0	22	134	1,012	999	0	13	77	686	677	0	9
Tulane U.	124	1,689	1,045	104	540	92	1,453	1,008	104	341	207	236	37	0	199
U. North Carolina, Charlotte	125	1,677	1,243	321	113	125	1,142	836	222	84	101	535	407	99	29
Kansas State U.	126	1,641	1,325	278	38	122	1,170	965	184	21	117	471	360	94	17
U. Alabama, Tuscaloosa	127	1,634	870	494	270	117	1,236	721	327	188	140	398	149	167	82
U. Notre Dame	128	1,625	998	627	0	89	1,524	909	615	0	345	101	89	12	0
Old Dominion U.	129	1,613	691	818	104	199	565	339	143	83	39	1,048	352	675	21
U. Hawaii, Manoa	130	1,612	1,226	236	150	105	1,352	1,057	189	106	191	260	169	47	44
California State U., Fullerton	131	1,611	847	580	184	170	681	382	161	138	53	930	465	419	46
U. Rochester	132	1,579	1,167	322	90	90	1,503	1,140	318	45	387	76	27	4	45
Worcester Polytechnic Institute	133	1,545	572	973	0	179	648	302	346	0	55	897	270	627	0
U. Arkansas, Fayetteville	134	1,539	844	593	102	214	496	284	136	76	41	1,043	560	457	26
U. Nevada, Reno	135	1,531	871	341	319	118	1,220	752	304	164	166	311	119	37	155

TABLE 5-4a

Institutional rankings for graduate students: 2020

(Number)

Institution	All graduate students					Full-time students					Part-time students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Naval Postgraduate School	136	1,492	539	953	0	139	963	539	424	0	102	529	0	529	0
Portland State U.	137	1,481	958	432	91	142	900	601	227	72	91	581	357	205	19
Rice U.	138	1,449	759	690	0	101	1,387	719	668	0	415	62	40	22	0
U. Louisville	139	1,446	582	560	304	135	1,010	462	300	248	130	436	120	260	56
Baylor U.	140	1,429	596	93	740	129	1,120	535	80	505	167	309	61	13	235
Southern Methodist U.	141	1,426	862	564	0	173	671	497	174	0	66	755	365	390	0
Colorado School of Mines	142	1,423	432	991	0	124	1,163	375	788	0	191	260	57	203	0
Virginia Commonwealth U.	143	1,373	771	278	324	132	1,080	611	211	258	172	293	160	67	66
U. Texas, El Paso	144	1,368	639	608	121	156	778	386	304	88	87	590	253	304	33
Texas State U.	145	1,345	1,057	126	162	142	900	683	76	141	124	445	374	50	21
California Institute of Technology	146	1,339	790	549	0	106	1,339	790	549	0	640	0	0	0	0
Emory U.	146	1,339	1,110	120	109	113	1,289	1,107	96	86	444	50	3	24	23
New Mexico State U.	148	1,337	841	334	162	147	867	591	210	66	118	470	250	124	96
Utah State U.	149	1,325	925	238	162	219	473	269	104	100	57	852	656	134	62
U. Maryland, Baltimore County	150	1,317	1,090	227	0	146	873	718	155	0	126	444	372	72	0
Kent State U.	151	1,285	870	0	415	145	878	669	0	209	138	407	201	0	206
U. Texas Rio Grande Valley	151	1,285	702	205	378	200	562	393	122	47	71	723	309	83	331
U. Massachusetts, Boston	153	1,277	1,008	0	269	176	660	593	0	67	82	617	415	0	202
California State U., Long Beach	154	1,256	837	298	121	175	661	472	104	85	86	595	365	194	36
Northern Illinois U.	155	1,248	718	169	361	174	665	474	91	100	90	583	244	78	261
Miami U.	156	1,217	1,055	42	120	192	588	438	38	112	81	629	617	4	8
Texas Woman's U.	156	1,217	770	0	447	216	491	282	0	209	70	726	488	0	238
U. San Francisco	158	1,215	1,018	0	197	185	619	574	0	45	85	596	444	0	152
Ohio U.	159	1,209	744	346	119	162	735	484	143	108	116	474	260	203	11
U. Memphis	160	1,193	752	163	278	164	724	464	87	173	119	469	288	76	105
U. Oregon	161	1,185	1,108	0	77	126	1,141	1,066	0	75	453	44	42	0	2
Florida Atlantic U.	162	1,171	800	229	142	191	600	416	100	84	93	571	384	129	58
Western Michigan U.	163	1,144	722	287	135	137	978	636	231	111	268	166	86	56	24
U. Nevada, Las Vegas	164	1,140	788	179	173	154	788	577	109	102	151	352	211	70	71
U. North Carolina, Greensboro	165	1,131	711	0	420	189	607	403	0	204	103	524	308	0	216
Carlos Albizu U.	166	1,110	902	0	208	140	962	819	0	143	286	148	83	0	65
Michigan Technological U.	166	1,110	488	610	12	157	765	330	426	9	156	345	158	184	3
Missouri U. of Science and Technology	168	1,104	295	809	0	172	676	218	458	0	132	428	77	351	0
California Baptist U.	169	1,096	690	25	381	160	758	532	16	210	158	338	158	9	171

TABLE 5-4a

Institutional rankings for graduate students: 2020

(Number)

Institution	All graduate students					Full-time students					Part-time students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Troy U.	170	1,090	1,071	0	19	259	346	339	0	7	68	744	732	0	12
Claremont Graduate U.	171	1,082	949	0	133	168	691	599	0	92	142	391	350	0	41
Brigham Young U.	172	1,077	620	361	96	250	376	203	109	64	74	701	417	252	32
Brandeis U.	173	1,062	1,062	0	0	138	966	966	0	0	349	96	96	0	0
U. Idaho	174	1,047	719	328	0	190	605	447	158	0	127	442	272	170	0
Lehigh U.	175	1,020	484	536	0	151	811	403	408	0	231	209	81	128	0
U. New Hampshire	176	1,014	747	184	83	148	843	621	152	70	263	171	126	32	13
Montclair State U.	177	1,000	760	0	240	153	796	606	0	190	235	204	154	0	50
U. California, San Francisco	178	999	703	98	198	136	994	703	98	193	598	5	0	0	5
U. Toledo	179	996	551	250	195	167	701	412	141	148	171	295	139	109	47
North Dakota State U.	180	993	695	237	61	204	545	410	94	41	123	448	285	143	20
Kennesaw State U.	181	977	662	207	108	231	419	342	46	31	96	558	320	161	77
Antioch U.	182	976	976	0	0	149	832	832	0	0	290	144	144	0	0
Oakland U.	183	969	392	519	58	207	524	253	225	46	124	445	139	294	12
Saint Louis U.	184	966	561	102	303	144	895	515	93	287	398	71	46	9	16
U. Wyoming	185	961	712	185	64	161	736	556	142	38	218	225	156	43	26
U. Dayton	186	951	458	493	0	155	779	371	408	0	262	172	87	85	0
U. Rhode Island	187	950	607	212	131	165	718	482	131	105	211	232	125	81	26
Dartmouth C.	188	948	614	191	143	141	932	613	187	132	546	16	1	4	11
Southern Illinois U., Carbondale	189	946	659	194	93	163	729	520	122	87	224	217	139	72	6
Long Island U.	189	946	560	3	383	183	628	341	2	285	164	318	219	1	98
Santa Clara U.	191	935	448	487	0	197	569	252	317	0	148	366	196	170	0
U. North Dakota	192	921	524	257	140	227	435	216	129	90	114	486	308	128	50
Wright State U.	193	912	583	299	30	177	659	440	199	20	198	253	143	100	10
Northern Arizona U.	194	896	648	63	185	166	710	555	58	97	251	186	93	5	88
U. Alabama, Huntsville	195	889	385	493	11	253	373	219	146	8	106	516	166	347	3
San Francisco State U.	196	856	659	67	130	195	581	416	44	121	181	275	243	23	9
Maharishi U. of Management	197	848	848	0	0	158	761	761	0	0	362	87	87	0	0
Pace U.	197	848	761	12	75	201	561	490	7	64	174	287	271	5	11
U. Central Missouri	199	845	695	35	115	213	509	417	18	74	159	336	278	17	41
U. Maine	200	842	597	198	47	158	761	537	180	44	373	81	60	18	3
U. Akron	201	839	440	304	95	187	613	324	219	70	217	226	116	85	25
U. Vermont	202	832	560	101	171	183	628	478	74	76	235	204	82	27	95
California State U., Sacramento	202	832	506	220	106	268	331	165	91	75	110	501	341	129	31

TABLE 5-4a

Institutional rankings for graduate students: 2020

(Number)

Institution	All graduate students					Full-time students					Part-time students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Montana State U.	204	831	658	173	0	171	678	526	152	0	280	153	132	21	0
U. Southern Mississippi	205	830	494	76	260	181	642	358	72	212	246	188	136	4	48
U. Missouri, Kansas City	206	823	559	189	75	270	329	256	69	4	112	494	303	120	71
Cleveland State U.	207	816	440	286	90	194	582	335	173	74	208	234	105	113	16
U. Mississippi	208	814	493	63	258	169	689	396	57	236	318	125	97	6	22
East Carolina U.	209	812	500	46	266	205	537	379	24	134	181	275	121	22	132
Boston C.	210	808	787	0	21	182	638	620	0	18	264	170	167	0	3
U. New Haven	211	802	468	279	55	193	584	352	180	52	222	218	116	99	3
California State Polytechnic U., Pomona	212	801	443	358	0	299	277	161	116	0	103	524	282	242	0
Regis U.	213	789	769	0	20	202	548	533	0	15	206	241	236	0	5
New School	214	788	788	0	0	178	654	654	0	0	305	134	134	0	0
Missouri State U.	215	775	631	0	144	220	467	337	0	130	169	308	294	0	14
Wichita State U.	215	775	448	262	65	233	416	255	100	61	149	359	193	162	4
Sam Houston State U.	217	761	699	0	62	258	352	319	0	33	136	409	380	0	29
U. West Florida	218	757	572	23	162	387	148	95	5	48	84	609	477	18	114
Bowling Green State U.	219	747	653	24	70	206	530	443	20	67	224	217	210	4	3
U. Houston-Clear Lake	219	747	640	93	14	246	390	357	29	4	150	357	283	64	10
Azusa Pacific U.	221	745	636	0	109	218	487	398	0	89	195	258	238	0	20
Ball State U.	222	737	657	0	80	248	388	324	0	64	155	349	333	0	16
California State U., Los Angeles	223	734	482	149	103	242	398	284	48	66	159	336	198	101	37
Marquette U.	224	721	361	188	172	222	447	220	110	117	183	274	141	78	55
Villanova U.	225	718	284	434	0	243	397	206	191	0	163	321	78	243	0
CUNY, City C.	225	718	399	319	0	252	374	149	225	0	157	344	250	94	0
Towson U.	227	712	618	0	94	230	421	328	0	93	173	291	290	0	1
U. San Diego	228	682	443	0	239	303	268	238	0	30	134	414	205	0	209
U. Puerto Rico, Mayaguez	229	674	432	242	0	185	619	409	210	0	432	55	23	32	0
U. Nebraska, Omaha	230	663	619	0	44	294	284	253	0	31	146	379	366	0	13
Texas A&M U.-Kingsville	231	661	350	231	80	237	413	247	116	50	201	248	103	115	30
Air Force Institute of Technology	232	654	129	521	4	210	521	116	402	3	307	133	13	119	1
California Institute of Integral Studies	233	652	652	0	0	207	524	524	0	0	315	128	128	0	0
Barry U.	234	648	524	0	124	244	396	344	0	52	200	252	180	0	72
Loyola U., Chicago	235	646	536	29	81	207	524	459	19	46	321	122	77	10	35
U. Illinois, Springfield	235	646	589	0	57	360	180	154	0	26	120	466	435	0	31
U. Puerto Rico, Rio Piedras	237	644	644	0	0	195	581	581	0	0	411	63	63	0	0

TABLE 5-4a

Institutional rankings for graduate students: 2020

(Number)

Institution	All graduate students					Full-time students					Part-time students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Howard U.	238	634	514	39	81	221	456	355	34	67	257	178	159	5	14
South Dakota State U.	239	633	476	115	42	249	380	301	72	7	198	253	175	43	35
U. Puerto Rico, Medical Sciences Campus	240	629	186	0	443	202	548	166	0	382	373	81	20	0	61
Fielding Graduate U.	241	624	624	0	0	211	518	518	0	0	337	106	106	0	0
Texas A&M U.-Commerce	242	621	529	0	92	327	227	182	0	45	141	394	347	0	47
CUNY, Queens C.	243	620	538	0	82	255	355	303	0	52	189	265	235	0	30
U. California, Merced	244	614	421	164	29	188	610	419	162	29	602	4	2	2	0
CUNY, Hunter C.	244	614	571	0	43	403	130	87	0	43	115	484	484	0	0
Saint Mary's U. Minnesota	246	611	566	0	45	223	442	406	0	36	267	169	160	0	9
Boise State U.	246	611	378	160	73	239	405	256	110	39	233	206	122	50	34
U. North Texas, Health Science Center	248	603	380	0	223	238	410	380	0	30	243	193	0	0	193
East Tennessee State U.	249	599	215	0	384	229	424	164	0	260	259	175	51	0	124
Grand Valley State U.	250	590	328	42	220	232	417	192	20	205	261	173	136	22	15
California State U., Fresno	251	588	342	88	158	254	370	179	49	142	222	218	163	39	16
U. South Dakota	252	584	385	21	178	228	428	323	16	89	279	156	62	5	89
U. Montana	252	584	420	0	164	255	355	260	0	95	214	229	160	0	69
U. Massachusetts, Dartmouth	252	584	418	140	26	308	255	185	70	0	161	329	233	70	26
Tarleton State U.	252	584	584	0	0	394	143	143	0	0	128	441	441	0	0
U. Louisiana, Lafayette	256	573	341	152	80	215	495	293	129	73	381	78	48	23	7
Southern Illinois U., Edwardsville	257	572	359	134	79	305	266	157	37	72	170	306	202	97	7
Baylor C. of Medicine	258	568	550	0	18	198	568	550	0	18	640	0	0	0	0
Rowan U.	258	568	311	208	49	280	308	142	135	31	191	260	169	73	18
St. John's U., Queens	260	560	351	0	209	233	416	275	0	141	290	144	76	0	68
Illinois State U.	261	554	466	0	88	223	442	369	0	73	331	112	97	0	15
Georgia Southern U.	262	553	218	80	255	233	416	161	51	204	299	137	57	29	51
Marshall U.	263	550	376	37	137	225	440	288	24	128	332	110	88	13	9
West Chester U. Pennsylvania	264	543	290	0	253	292	286	107	0	179	196	257	183	0	74
Adelphi U.	265	538	320	0	218	284	304	120	0	184	208	234	200	0	34
National Louis U.	266	537	537	0	0	245	393	393	0	0	290	144	144	0	0
Wake Forest U.	267	534	391	67	76	212	511	388	67	56	514	23	3	0	20
Seton Hall U.	268	524	310	0	214	290	290	194	0	96	208	234	116	0	118
Marymount U.	269	513	470	0	43	288	291	265	0	26	220	222	205	0	17
Idaho State U.	270	510	243	72	195	283	305	166	40	99	234	205	77	32	96
Central Michigan U.	271	509	385	6	118	277	311	202	1	108	239	198	183	5	10

TABLE 5-4a

Institutional rankings for graduate students: 2020

(Number)

Institution	All graduate students					Full-time students					Part-time students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Eastern Illinois U.	272	501	407	0	94	278	310	229	0	81	244	191	178	0	13
CUNY, Baruch C.	273	500	439	61	0	503	63	53	10	0	129	437	386	51	0
North Carolina Agricultural and Technical State U.	274	494	179	315	0	264	335	136	199	0	274	159	43	116	0
U. Texas Southwestern Medical Center	275	493	442	51	0	216	491	440	51	0	618	2	2	0	0
Palo Alto U.	275	493	493	0	0	226	436	436	0	0	426	57	57	0	0
U. New England	277	491	107	0	384	262	339	72	0	267	281	152	35	0	117
U. Alaska, Fairbanks	278	490	428	62	0	337	214	181	33	0	179	276	247	29	0
Rivier U.	279	483	77	0	406	537	49	48	0	1	131	434	29	0	405
Loma Linda U.	280	480	192	0	288	278	310	140	0	170	264	170	52	0	118
U. Northern Colorado	281	474	187	0	287	324	228	83	0	145	203	246	104	0	142
Pontifical Catholic U. Puerto Rico	282	473	473	0	0	335	218	218	0	0	197	255	255	0	0
California State U., San Bernardino	283	472	434	0	38	236	414	378	0	36	424	58	56	0	2
St. Cloud State U.	283	472	310	79	83	338	211	152	9	50	190	261	158	70	33
U. Arkansas for Medical Sciences	285	469	132	0	337	352	197	99	0	98	184	272	33	0	239
U. North Carolina, Wilmington	286	462	462	0	0	266	334	334	0	0	315	128	128	0	0
California State U., East Bay	287	459	373	0	86	273	326	258	0	68	307	133	115	0	18
A. T. Still U.	288	458	16	0	442	294	284	9	0	275	260	174	7	0	167
U. South Alabama	289	453	307	89	57	247	389	265	67	57	407	64	42	22	0
California Polytechnic State U., San Luis Obispo	290	450	199	251	0	272	328	125	203	0	321	122	74	48	0
Massachusetts C. of Pharmacy and Health Sciences	291	443	23	0	420	381	158	21	0	137	177	285	2	0	283
Embry-Riddle Aeronautical U.	292	441	104	337	0	241	399	96	303	0	460	42	8	34	0
Hofstra U.	293	438	233	0	205	257	353	188	0	165	367	85	45	0	40
Western Kentucky U.	294	435	193	0	242	287	295	117	0	178	296	140	76	0	64
Simmons U.	294	435	389	0	46	652	8	8	0	0	133	427	381	0	46
Thomas Jefferson U.	296	432	311	5	116	339	210	168	3	39	220	222	143	2	77
Middle Tennessee State U.	297	426	408	0	18	349	199	186	0	13	216	227	222	0	5
U. Texas Health Science Center, San Antonio	298	425	260	23	142	264	335	241	4	90	355	90	19	19	52
Clarkson U.	299	420	126	265	29	301	273	109	162	2	289	147	17	103	27
U. Texas, Tyler	300	415	283	27	105	307	258	192	18	48	277	157	91	9	57
CUNY, Brooklyn C.	300	415	290	0	125	404	129	54	0	75	175	286	236	0	50
Alabama A&M U.	302	414	263	68	83	312	248	149	33	66	268	166	114	35	17
Touro C.	303	413	307	0	106	260	340	237	0	103	395	73	70	0	3
North Carolina Central U.	304	411	315	0	96	298	280	186	0	94	312	131	129	0	2
Eastern Michigan U.	305	408	330	0	78	364	176	132	0	44	211	232	198	0	34

TABLE 5-4a

Institutional rankings for graduate students: 2020

(Number)

Institution	All graduate students					Full-time students					Part-time students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
U. Wisconsin-Platteville	305	408	200	208	0	659	5	2	3	0	139	403	198	205	0
New York Institute of Technology	307	407	273	114	20	293	285	198	67	20	321	122	75	47	0
Keck Graduate Institute	308	405	282	123	0	240	404	281	123	0	629	1	1	0	0
U. Nebraska, Medical Center	309	403	373	0	30	315	242	223	0	19	273	161	150	0	11
Angelo State U.	310	398	342	0	56	373	166	157	0	9	211	232	185	0	47
U. Missouri, Saint Louis	311	395	365	0	30	344	201	193	0	8	241	194	172	0	22
Roosevelt U.	312	392	386	0	6	291	288	286	0	2	341	104	100	0	4
Keiser U., Fort Lauderdale	313	387	387	0	0	300	274	274	0	0	330	113	113	0	0
Oregon Health and Science U.	314	386	242	80	64	276	320	217	67	36	404	66	25	13	28
U. Louisiana, Monroe	314	386	257	0	129	311	250	142	0	108	300	136	115	0	21
U. Arkansas, Little Rock	316	385	355	25	5	341	204	189	15	0	255	181	166	10	5
Lewis U.	316	385	348	0	37	407	125	88	0	37	191	260	260	0	0
Appalachian State U.	318	382	268	0	114	275	321	210	0	111	418	61	58	0	3
Clark U.	319	381	381	0	0	273	326	326	0	0	432	55	55	0	0
U. Tulsa	320	379	215	131	33	250	376	213	130	33	612	3	2	1	0
Benedictine U.	321	378	96	0	282	430	106	57	0	49	184	272	39	0	233
Fordham U.	322	376	376	0	0	324	228	228	0	0	286	148	148	0	0
Central Washington U.	323	375	328	31	16	317	236	220	0	16	297	139	108	31	0
Southern Connecticut State U.	323	375	181	10	184	327	227	85	4	138	286	148	96	6	46
U. New Orleans	325	374	252	122	0	319	232	167	65	0	294	142	85	57	0
Nova Southeastern U.	326	369	369	0	0	321	230	230	0	0	297	139	139	0	0
C. of William and Mary	327	366	366	0	0	270	329	329	0	0	477	37	37	0	0
Dakota State U.	327	366	355	0	11	321	230	224	0	6	300	136	131	0	5
Morgan State U.	329	362	119	135	108	281	307	109	108	90	432	55	10	27	18
Tennessee State U.	330	361	230	58	73	318	234	162	35	37	317	127	68	23	36
Jackson State U.	330	361	131	39	191	378	162	65	16	81	238	199	66	23	110
Philadelphia C. of Osteopathic Medicine	332	360	360	0	0	262	339	339	0	0	524	21	21	0	0
Eastern U.	332	360	360	0	0	387	148	148	0	0	228	212	212	0	0
Western Illinois U.	334	357	300	0	57	302	272	220	0	52	367	85	80	0	5
Louisiana Tech U.	335	356	185	112	59	297	281	134	90	57	390	75	51	22	2
Polytechnic U. Puerto Rico	336	355	52	303	0	368	170	35	135	0	252	185	17	168	0
Texas A&M U.-Corpus Christi	337	353	283	13	57	309	254	227	8	19	347	99	56	5	38
Humboldt State U.	338	351	318	0	33	426	109	95	0	14	205	242	223	0	19
New York Medical C.	339	350	221	0	129	296	283	184	0	99	401	67	37	0	30

TABLE 5-4a

Institutional rankings for graduate students: 2020

(Number)

Institution	All graduate students					Full-time students					Part-time students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Lawrence Technological U.	339	350	83	267	0	478	74	11	63	0	179	276	72	204	0
Eastern Washington U.	341	346	258	0	88	281	307	229	0	78	469	39	29	0	10
Southern U. and A&M C.	342	342	283	24	35	344	201	150	16	35	295	141	133	8	0
U. Massachusetts, Medical School	343	340	340	0	0	260	340	340	0	0	640	0	0	0	0
SUNY, Downstate Medical Center	344	337	58	9	270	340	205	55	8	142	311	132	3	1	128
Eastern Kentucky U.	345	334	247	0	87	389	147	77	0	70	248	187	170	0	17
Albert Einstein C. of Medicine	346	333	283	0	50	267	333	283	0	50	640	0	0	0	0
Chapman U.	346	333	195	0	138	323	229	100	0	129	341	104	95	0	9
U. North Florida	348	331	184	42	105	344	201	97	24	80	314	130	87	18	25
Lake Erie C. of Osteopathic Medicine	349	330	330	0	0	269	330	330	0	0	640	0	0	0	0
Midwestern U.	350	329	329	0	0	286	298	298	0	0	494	31	31	0	0
Mayo Clinic, Mayo Graduate School	351	326	274	47	5	306	259	216	43	0	401	67	58	4	5
Governors State U.	352	325	227	0	98	367	173	111	0	62	281	152	116	0	36
U. Central Oklahoma	353	322	213	17	92	376	163	111	4	48	274	159	102	13	44
Mississippi C.	354	319	319	0	0	315	242	242	0	0	384	77	77	0	0
Seattle U.	354	319	294	25	0	372	167	154	13	0	281	152	140	12	0
Kean U.	356	318	256	0	62	347	200	182	0	18	325	118	74	0	44
Catholic U. of America	357	317	188	129	0	353	193	104	89	0	320	124	84	40	0
Columbus State U.	357	317	301	0	16	410	123	113	0	10	241	194	188	0	6
CUNY, John Jay C. of Criminal Justice	359	316	316	0	0	400	134	134	0	0	254	182	182	0	0
Indiana U. Pennsylvania	360	315	232	1	82	347	200	130	1	69	328	115	102	0	13
U. Tennessee, Health Science Center	361	314	182	5	127	285	302	170	5	127	561	12	12	0	0
Florida A&M U.	362	311	204	66	41	313	246	153	59	34	406	65	51	7	7
California State U., Chico	362	311	245	0	66	331	223	159	0	64	360	88	86	0	2
U. Hartford	364	309	234	75	0	413	122	92	30	0	248	187	142	45	0
U. Northern Iowa	365	308	198	0	110	365	175	70	0	105	307	133	128	0	5
Northeastern Illinois U.	366	305	266	0	39	450	88	73	0	15	224	217	193	0	24
U. of Saint Joseph	366	305	295	0	10	465	82	80	0	2	219	223	215	0	8
Murray State U.	368	303	241	0	62	362	178	116	0	62	318	125	125	0	0
Medical C. Wisconsin	369	302	198	34	70	309	254	198	32	24	447	48	0	2	46
Minnesota State U., Mankato	369	302	209	21	72	373	166	94	11	61	300	136	115	10	11
Eastern Virginia Medical School	371	300	0	0	300	330	224	0	0	224	387	76	0	0	76
Western Washington U.	371	300	244	0	56	333	219	172	0	47	373	81	72	0	9
Northwest Missouri State U.	371	300	300	0	0	435	103	103	0	0	240	197	197	0	0

TABLE 5-4a

Institutional rankings for graduate students: 2020

(Number)

Institution	All graduate students					Full-time students					Part-time students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
U. Nebraska, Kearney	374	298	258	0	40	450	88	49	0	39	230	210	209	0	1
Tennessee Technological U.	375	297	116	181	0	460	86	39	47	0	229	211	77	134	0
New Mexico Institute of Mining and Technology	376	295	138	157	0	333	219	115	104	0	387	76	23	53	0
Mercer U.	377	294	55	61	178	320	231	47	29	155	411	63	8	32	23
Fairleigh Dickinson U.	378	293	255	12	26	329	225	199	9	17	400	68	56	3	9
Scripps Research Institute	379	291	291	0	0	288	291	291	0	0	640	0	0	0	0
U. Baltimore	379	291	291	0	0	428	108	108	0	0	253	183	183	0	0
Augusta U.	381	288	189	0	99	351	198	147	0	51	355	90	42	0	48
James Madison U.	382	286	206	0	80	349	199	140	0	59	362	87	66	0	21
Inter American U. Puerto Rico, Metro	383	285	285	0	0	362	178	178	0	0	334	107	107	0	0
Arkansas State U.	384	283	202	6	75	369	169	103	0	66	329	114	99	6	9
U. Central Arkansas	385	282	113	0	169	375	164	71	0	93	325	118	42	0	76
Emporia State U.	386	279	279	0	0	447	91	91	0	0	246	188	188	0	0
Sage Colleges	387	278	274	0	4	584	31	31	0	0	202	247	243	0	4
U. Tennessee, Chattanooga	388	275	189	49	37	354	191	131	29	31	371	84	58	20	6
U. Wisconsin-La Crosse	388	275	220	33	22	438	99	63	21	15	258	176	157	12	7
Central Connecticut State U.	390	274	253	21	0	454	87	81	6	0	248	187	172	15	0
Stephen F. Austin State U.	391	272	192	0	80	396	139	65	0	74	307	133	127	0	6
Duquesne U.	392	271	160	0	111	324	228	134	0	94	454	43	26	0	17
Lipscomb U.	393	270	247	6	17	314	245	226	5	14	508	25	21	1	3
Rockefeller U.	394	268	268	0	0	303	268	268	0	0	640	0	0	0	0
Rush U.	395	260	44	61	155	361	179	44	61	74	373	81	0	0	81
Indiana State U.	396	258	197	0	61	385	153	93	0	60	339	105	104	0	1
U. Detroit Mercy	397	256	63	168	25	382	157	34	98	25	347	99	29	70	0
Loyola U., Maryland	398	254	144	0	110	369	169	59	0	110	367	85	85	0	0
Saint Joseph's U.	399	250	247	0	3	510	60	60	0	0	245	190	187	0	3
Northeastern State U.	400	248	163	0	85	378	162	93	0	69	364	86	70	0	16
U. Texas Medical Branch	401	246	236	0	10	358	184	178	0	6	415	62	58	0	4
Eastern New Mexico U.	402	243	80	0	163	384	154	37	0	117	358	89	43	0	46
U. West Georgia	403	242	175	0	67	386	151	84	0	67	354	91	91	0	0
SUNY, Polytechnic Institute	403	242	171	71	0	430	106	65	41	0	300	136	106	30	0
Chicago State U.	403	242	238	0	4	447	91	90	0	1	284	151	148	0	3
U. Wisconsin-Stout	406	241	189	52	0	433	105	95	10	0	300	136	94	42	0
Medical U. South Carolina	407	239	165	0	74	355	189	164	0	25	444	50	1	0	49

TABLE 5-4a

Institutional rankings for graduate students: 2020

(Number)

Institution	All graduate students					Full-time students					Part-time students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
U. Wisconsin-Eau Claire	407	239	133	0	106	494	69	20	0	49	264	170	113	0	57
U. Indianapolis	409	237	102	0	135	450	88	52	0	36	285	149	50	0	99
Uniformed Services U. of the Health Sciences	410	233	147	0	86	341	204	144	0	60	501	29	3	0	26
New Jersey City U.	411	232	161	0	71	439	98	71	0	27	305	134	90	0	44
Jacksonville U.	412	231	93	0	138	389	147	21	0	126	371	84	72	0	12
Hood C.	412	231	231	0	0	499	66	66	0	0	270	165	165	0	0
Prairie View A&M U.	414	230	112	118	0	409	124	79	45	0	337	106	33	73	0
McNeese State U.	415	229	167	12	50	365	175	126	8	41	435	54	41	4	9
California State U., San Marcos	416	226	202	0	24	413	122	98	0	24	341	104	104	0	0
U. Michigan, Flint	417	225	87	1	137	420	118	26	0	92	334	107	61	1	45
Austin Peay State U.	417	225	225	0	0	503	63	63	0	0	271	162	162	0	0
Touro U., Vallejo	419	223	0	0	223	331	223	0	0	223	640	0	0	0	0
Texas Christian U.	420	222	160	0	62	336	217	159	0	58	598	5	1	0	4
Manhattan C.	421	221	0	221	0	355	189	0	189	0	491	32	0	32	0
C. of Saint Rose	422	219	122	0	97	382	157	67	0	90	415	62	55	0	7
Kansas City U. of Medicine and Biosciences	423	217	138	0	79	398	136	136	0	0	373	81	2	0	79
Montana Tech of U. Montana	424	213	44	66	103	359	181	43	62	76	491	32	1	4	27
Robert Morris U.	424	213	163	0	50	680	0	0	0	0	227	213	163	0	50
Northern Kentucky U.	426	212	93	0	119	523	54	26	0	28	276	158	67	0	91
West Texas A&M U.	427	211	104	32	75	430	106	43	3	60	339	105	61	29	15
Citadel Military C. South Carolina	428	209	164	19	26	499	66	51	1	14	293	143	113	18	12
Pacific U.	429	208	138	0	70	355	189	120	0	69	537	19	18	0	1
Meharry Medical C.	430	207	163	0	44	343	203	163	0	40	602	4	0	0	4
U. of the District of Columbia	431	205	150	24	31	392	144	99	16	29	418	61	51	8	2
Western New England U.	432	202	166	36	0	549	45	45	0	0	277	157	121	36	0
Southeastern Louisiana U.	433	201	98	0	103	380	159	71	0	88	460	42	27	0	15
Valdosta State U.	434	199	69	0	130	369	169	41	0	128	496	30	28	0	2
U. La Verne	434	199	199	0	0	442	96	96	0	0	344	103	103	0	0
U. Alaska, Anchorage	436	197	101	28	68	499	66	52	6	8	312	131	49	22	60
William Carey U.	437	185	115	0	70	421	113	74	0	39	396	72	41	0	31
Loyola Marymount U.	438	181	58	110	13	376	163	55	95	13	539	18	3	15	0
C. Charleston	439	180	180	0	0	450	88	88	0	0	352	92	92	0	0
U. Dallas	439	180	180	0	0	514	58	58	0	0	321	122	122	0	0
William Paterson U.	441	179	92	0	87	405	128	54	0	74	442	51	38	0	13

TABLE 5-4a

Institutional rankings for graduate students: 2020

(Number)

Institution	All graduate students					Full-time students					Part-time students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Midwestern State U.	441	179	177	2	0	484	72	72	0	0	334	107	105	2	0
Chatham U.	443	176	176	0	0	402	131	131	0	0	452	45	45	0	0
Avila U.	444	175	175	0	0	391	145	145	0	0	496	30	30	0	0
Richard Stockton C. New Jersey, The	444	175	111	0	64	425	112	48	0	64	411	63	63	0	0
U. Houston-Victoria	446	172	172	0	0	454	87	87	0	0	367	85	85	0	0
Southern Arkansas U.	446	172	172	0	0	484	72	72	0	0	346	100	100	0	0
Weber State U.	448	170	66	9	95	419	119	25	6	88	442	51	41	3	7
CUNY, Lehman C.	449	166	63	0	103	454	87	15	0	72	379	79	48	0	31
Fort Hays State U.	450	165	128	0	37	410	123	87	0	36	460	42	41	0	1
La Salle U.	450	165	101	0	64	454	87	35	0	52	381	78	66	0	12
Texas Southern U.	452	164	149	0	15	429	107	98	0	9	426	57	51	0	6
Arcadia U.	453	156	112	0	44	437	100	60	0	40	429	56	52	0	4
Western Carolina U.	454	155	91	0	64	392	144	80	0	64	565	11	11	0	0
California State U., Dominguez Hills	454	155	155	0	0	466	81	81	0	0	393	74	74	0	0
Radford U.	456	154	88	0	66	401	133	67	0	66	524	21	21	0	0
Norfolk State U.	456	154	131	23	0	444	93	83	10	0	418	61	48	13	0
Clark Atlanta U.	456	154	154	0	0	454	87	87	0	0	401	67	67	0	0
Morehouse School of Medicine	459	152	96	0	56	395	142	94	0	48	572	10	2	0	8
Sul Ross State U.	460	146	113	0	33	572	36	35	0	1	332	110	78	0	32
East Stroudsburg U. Pennsylvania	461	145	34	0	111	416	120	25	0	95	508	25	9	0	16
Worcester State U.	462	143	53	0	90	421	113	48	0	65	496	30	5	0	25
Abilene Christian U.	463	142	30	0	112	399	135	23	0	112	585	7	7	0	0
Commonwealth Medical C.	464	141	141	0	0	397	137	137	0	0	602	4	4	0	0
Hawaii Pacific U.	464	141	119	0	22	439	98	82	0	16	454	43	37	0	6
American International C.	466	140	140	0	0	416	120	120	0	0	531	20	20	0	0
U. Wisconsin-Stevens Point	466	140	87	0	53	468	80	27	0	53	422	60	60	0	0
Tuskegee U.	468	139	109	21	9	415	121	91	21	9	539	18	18	0	0
Niagara U.	468	139	139	0	0	462	85	85	0	0	435	54	54	0	0
Salem State U.	470	138	138	0	0	499	66	66	0	0	396	72	72	0	0
St. Mary's U., San Antonio	471	135	98	37	0	494	69	50	19	0	404	66	48	18	0
SUNY, New Paltz	472	134	64	8	62	433	105	44	3	58	501	29	20	5	4
Nicholls State U.	472	134	134	0	0	472	78	78	0	0	429	56	56	0	0
Youngstown State U.	474	132	91	41	0	416	120	81	39	0	561	12	10	2	0
Millersville U. Pennsylvania	474	132	132	0	0	523	54	54	0	0	381	78	78	0	0

TABLE 5-4a

Institutional rankings for graduate students: 2020

(Number)

Institution	All graduate students					Full-time students					Part-time students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Iona C.	476	131	76	0	55	421	113	58	0	55	539	18	18	0	0
Quinnipiac U.	477	130	130	0	0	550	44	44	0	0	364	86	86	0	0
Campbell U.	478	129	0	0	129	406	127	0	0	127	618	2	0	0	2
Lincoln Memorial U.	479	127	127	0	0	436	101	101	0	0	505	26	26	0	0
Creighton U.	479	127	44	0	83	472	78	41	0	37	446	49	3	0	46
California Lutheran U.	481	126	126	0	0	460	86	86	0	0	465	40	40	0	0
MGH Institute of Health Professions	482	125	0	0	125	407	125	0	0	125	640	0	0	0	0
Florida Gulf Coast U.	482	125	73	18	34	533	50	36	1	13	390	75	37	17	21
Des Moines U., Osteopathic Medical Center	482	125	48	0	77	574	35	34	0	1	355	90	14	0	76
Frederick S. Pardee RAND Graduate School	485	123	123	0	0	410	123	123	0	0	640	0	0	0	0
Wayland Baptist U.	486	122	122	0	0	464	83	83	0	0	469	39	39	0	0
California State U., Monterey Bay	486	122	122	0	0	478	74	74	0	0	447	48	48	0	0
Molloy C.	488	121	16	0	105	463	84	11	0	73	477	37	5	0	32
U. Maryland, Eastern Shore	488	121	114	0	7	559	41	40	0	1	378	80	74	0	6
Slippery Rock U. Pennsylvania	490	120	81	0	39	498	67	32	0	35	437	53	49	0	4
Southern U., New Orleans	490	120	120	0	0	533	50	50	0	0	399	70	70	0	0
U. North Alabama	492	119	116	3	0	557	42	42	0	0	384	77	74	3	0
Texas A&M U., San Antonio	493	118	106	0	12	550	44	38	0	6	393	74	68	0	6
Fayetteville State U.	494	117	99	0	18	517	56	41	0	15	418	61	58	0	3
Dominican U. California	495	115	115	0	0	468	80	80	0	0	484	35	35	0	0
U. Wisconsin-Green Bay	495	115	115	0	0	618	19	19	0	0	349	96	96	0	0
Pittsburg State U.	497	114	90	0	24	444	93	79	0	14	524	21	11	0	10
Suffolk U.	497	114	93	0	21	489	71	58	0	13	454	43	35	0	8
Cameron U.	497	114	114	0	0	515	57	57	0	0	426	57	57	0	0
SUNY, Upstate Medical U.	500	113	113	0	0	421	113	113	0	0	640	0	0	0	0
Northern Michigan U.	500	113	80	0	33	478	74	58	0	16	469	39	22	0	17
Wesleyan U.	502	109	109	0	0	426	109	109	0	0	640	0	0	0	0
CUNY, C. Staten Island	503	108	97	11	0	632	14	14	0	0	351	94	83	11	0
Delaware State U.	504	107	99	0	8	442	96	88	0	8	565	11	11	0	0
Clarion U. Pennsylvania	504	107	16	0	91	481	73	0	0	73	486	34	16	0	18
Yeshiva U.	504	107	107	0	0	491	70	70	0	0	477	37	37	0	0
SUNY, Oswego	504	107	44	0	63	550	44	32	0	12	411	63	12	0	51
Texas A&M International U.	508	105	105	0	0	588	30	30	0	0	390	75	75	0	0
Marywood U.	509	104	80	0	24	441	97	73	0	24	585	7	7	0	0

TABLE 5-4a

Institutional rankings for graduate students: 2020

(Number)

Institution	All graduate students					Full-time students					Part-time students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Indiana Institute of Technology	509	104	104	0	0	491	70	70	0	0	486	34	34	0	0
Monmouth U.	509	104	89	15	0	561	40	35	5	0	407	64	54	10	0
U. Hawaii, Hilo	512	103	96	0	7	517	56	54	0	2	451	47	42	0	5
U. Texas, Permian Basin	512	103	81	7	15	530	51	40	6	5	439	52	41	1	10
SUNY, Buffalo State	512	103	91	12	0	563	39	38	1	0	407	64	53	11	0
U. Wisconsin-Oshkosh	512	103	103	0	0	632	14	14	0	0	358	89	89	0	0
Inter American U. Puerto Rico, San German	516	102	102	0	0	632	14	14	0	0	360	88	88	0	0
Shippensburg U. Pennsylvania	517	101	101	0	0	537	49	49	0	0	439	52	52	0	0
Salus U.	518	98	12	0	86	446	92	7	0	85	592	6	5	0	1
U. del Turabo	518	98	81	17	0	563	39	29	10	0	423	59	52	7	0
Framingham State C.	518	98	98	0	0	637	12	12	0	0	364	86	86	0	0
California State U., Bakersfield	521	97	97	0	0	476	75	75	0	0	518	22	22	0	0
Oklahoma State U., Center for Health Sciences	521	97	97	0	0	481	73	73	0	0	511	24	24	0	0
Frostburg State U.	523	96	96	0	0	540	48	48	0	0	447	48	48	0	0
Texas A&M U.-Central Texas	523	96	96	0	0	666	4	4	0	0	352	92	92	0	0
Hampton U.	525	95	59	0	36	484	72	49	0	23	514	23	10	0	13
Jacksonville State U.	525	95	95	0	0	523	54	54	0	0	463	41	41	0	0
Sonoma State U.	527	93	93	0	0	476	75	75	0	0	539	18	18	0	0
Western State Colorado U.	527	93	93	0	0	484	72	72	0	0	524	21	21	0	0
Tiffin U.	527	93	93	0	0	521	55	55	0	0	473	38	38	0	0
Mississippi U. for Women	530	92	8	0	84	484	72	2	0	70	531	20	6	0	14
Metropolitan State U.	530	92	86	0	6	629	15	9	0	6	384	77	77	0	0
Andrews U.	532	91	91	0	0	466	81	81	0	0	572	10	10	0	0
Oklahoma Christian U.	532	91	0	91	0	563	39	0	39	0	439	52	0	52	0
City of Hope, Irell and Manella Graduate School of Biological Sciences	534	90	90	0	0	449	90	90	0	0	640	0	0	0	0
Bastyr U.	534	90	90	0	0	470	79	79	0	0	565	11	11	0	0
Fitchburg State U.	534	90	90	0	0	496	68	68	0	0	518	22	22	0	0
Aurora U.	534	90	43	0	47	533	50	22	0	28	465	40	21	0	19
Memorial Sloan Kettering Cancer Center	538	88	88	0	0	470	79	79	0	0	578	9	9	0	0
Southern Nazarene U.	539	87	87	0	0	454	87	87	0	0	640	0	0	0	0
Cedars-Sinai Medical Center	539	87	87	0	0	530	51	51	0	0	481	36	36	0	0
U. of the Incarnate Word	541	83	71	0	12	474	76	65	0	11	585	7	6	0	1
Virginia State U.	541	83	83	0	0	508	62	62	0	0	524	21	21	0	0
Bridgewater State U.	541	83	83	0	0	540	48	48	0	0	484	35	35	0	0

TABLE 5-4a

Institutional rankings for graduate students: 2020

(Number)

Institution	All graduate students					Full-time students					Part-time students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Bowie State U.	544	82	82	0	0	550	44	44	0	0	473	38	38	0	0
Canisius C.	544	82	67	0	15	595	29	19	0	10	437	53	48	0	5
U. Guam	544	82	82	0	0	603	24	24	0	0	424	58	58	0	0
Alcorn State U.	547	81	81	0	0	556	43	43	0	0	473	38	38	0	0
Valparaiso U.	548	80	80	0	0	496	68	68	0	0	561	12	12	0	0
Evergreen State C.	548	80	80	0	0	563	39	39	0	0	463	41	41	0	0
LeTourneau U.	548	80	70	10	0	627	16	9	7	0	407	64	61	3	0
Vanguard U. of Southern California	551	79	79	0	0	474	76	76	0	0	612	3	3	0	0
Lindenwood U.	552	78	39	0	39	489	71	37	0	34	585	7	2	0	5
Bradley U.	553	77	34	43	0	526	53	27	26	0	511	24	7	17	0
Gannon U.	553	77	39	38	0	543	47	22	25	0	496	30	17	13	0
Southeast Missouri State U.	553	77	77	0	0	559	41	41	0	0	481	36	36	0	0
Charles R. Drew U. of Medicine and Science	556	75	34	0	41	481	73	33	0	40	618	2	1	0	1
Endicott C.	556	75	54	0	21	581	32	32	0	0	454	43	22	0	21
SUNY, C. Cortland	558	74	3	0	71	527	52	3	0	49	518	22	0	0	22
Minnesota State U., Moorhead	559	73	26	0	47	503	63	16	0	47	572	10	10	0	0
Springfield C.	559	73	66	0	7	512	59	53	0	6	551	14	13	0	1
New Mexico Highlands U.	559	73	73	0	0	543	47	47	0	0	505	26	26	0	0
Widener U.	559	73	0	30	43	569	37	0	22	15	481	36	0	8	28
SUNY, C. Brockport	559	73	58	0	15	578	33	25	0	8	465	40	33	0	7
Florida Polytechnic U.	564	72	44	28	0	503	63	38	25	0	578	9	6	3	0
Cooper Union for the Advancement of Science and Art	564	72	0	72	0	595	29	0	29	0	454	43	0	43	0
Bloomsburg U. Pennsylvania	566	71	9	0	62	503	63	1	0	62	581	8	8	0	0
Gallaudet U.	566	71	38	0	33	530	51	21	0	30	531	20	17	0	3
Albany Medical C.	568	70	70	0	0	491	70	70	0	0	640	0	0	0	0
Oklahoma City U.	568	70	51	0	19	569	37	31	0	6	490	33	20	0	13
Xavier U.	570	69	41	0	28	588	30	29	0	1	469	39	12	0	27
South Carolina State U.	571	68	0	0	68	515	57	0	0	57	565	11	0	0	11
Mercyhurst U.	572	67	67	0	0	537	49	49	0	0	539	18	18	0	0
Edinboro U. Pennsylvania	572	67	26	0	41	546	46	5	0	41	524	21	21	0	0
Georgia C. and State U.	572	67	21	0	46	578	33	17	0	16	486	34	4	0	30
SUNY, Fredonia	575	66	20	0	46	508	62	16	0	46	602	4	4	0	0
U. West Alabama	575	66	66	0	0	517	56	56	0	0	572	10	10	0	0
Fort Valley State U.	577	65	20	0	45	557	42	18	0	24	514	23	2	0	21

TABLE 5-4a

Institutional rankings for graduate students: 2020

(Number)

Institution	All graduate students					Full-time students					Part-time students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
U. Arkansas, Pine Bluff	578	64	64	0	0	533	50	50	0	0	551	14	14	0	0
Oregon Institute of Technology	578	64	18	46	0	603	24	7	17	0	465	40	11	29	0
U. of Saint Mary	580	62	62	0	0	517	56	56	0	0	592	6	6	0	0
U. Wisconsin-Whitewater	580	62	35	0	27	521	55	28	0	27	585	7	7	0	0
Coastal Carolina U.	580	62	62	0	0	584	31	31	0	0	494	31	31	0	0
California U. of Science and Medicine	583	60	60	0	0	510	60	60	0	0	640	0	0	0	0
U. Montevallo	584	59	0	0	59	512	59	0	0	59	640	0	0	0	0
Caldwell U.	585	57	57	0	0	675	1	1	0	0	429	56	56	0	0
DeSales U.	586	56	54	0	2	610	22	21	0	1	486	34	33	0	1
Western U. of Health Sciences	587	54	40	0	14	581	32	22	0	10	518	22	18	0	4
Roger Williams U.	587	54	54	0	0	584	31	31	0	0	514	23	23	0	0
Arkansas Tech U.	587	54	44	10	0	610	22	15	7	0	491	32	29	3	0
Kettering U.	587	54	0	54	0	624	17	0	17	0	477	37	0	37	0
Cold Spring Harbor Laboratory	591	52	52	0	0	527	52	52	0	0	640	0	0	0	0
Kentucky State U.	592	51	51	0	0	599	27	27	0	0	511	24	24	0	0
Drew U.	593	50	11	0	39	637	12	6	0	6	473	38	5	0	33
Biola U.	594	49	49	0	0	540	48	48	0	0	629	1	1	0	0
Gonzaga U.	594	49	32	17	0	603	24	24	0	0	508	25	8	17	0
Winthrop U.	596	48	48	0	0	546	46	46	0	0	618	2	2	0	0
St. Thomas U.	596	48	37	0	11	550	44	33	0	11	602	4	4	0	0
Longwood U.	598	47	0	0	47	543	47	0	0	47	640	0	0	0	0
Bard C.	598	47	47	0	0	546	46	46	0	0	629	1	1	0	0
U. of the Virgin Islands	600	46	46	0	0	561	40	40	0	0	592	6	6	0	0
John Carroll U.	600	46	46	0	0	576	34	34	0	0	561	12	12	0	0
Toyota Technological Institute, Chicago	602	44	44	0	0	550	44	44	0	0	640	0	0	0	0
Alfred U.	603	43	0	43	0	588	30	0	30	0	558	13	0	13	0
Calvin C.	604	41	0	0	41	563	39	0	0	39	618	2	0	0	2
SUNY, C. Plattsburgh	604	41	41	0	0	588	30	30	0	0	565	11	11	0	0
Christopher Newport U.	604	41	41	0	0	618	19	19	0	0	518	22	22	0	0
Northeastern Ohio Universities, C. of Medicine	607	40	15	0	25	572	36	15	0	21	602	4	0	0	4
U. Texas Health Science Center, Tyler	607	40	10	0	30	600	26	10	0	16	551	14	0	0	14
Wilkes U.	607	40	4	11	25	646	10	1	9	0	496	30	3	2	25
Truman State U.	610	39	0	0	39	569	37	0	0	37	618	2	0	0	2
U. of Mary Hardin Baylor	610	39	39	0	0	578	33	33	0	0	592	6	6	0	0

TABLE 5-4a

Institutional rankings for graduate students: 2020

(Number)

Institution	All graduate students					Full-time students					Part-time students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Loras C.	610	39	39	0	0	584	31	31	0	0	581	8	8	0	0
Van Andel Institute	613	38	38	0	0	568	38	38	0	0	640	0	0	0	0
Ithaca C.	613	38	38	0	0	603	24	24	0	0	551	14	14	0	0
Mills C.	615	37	37	0	0	608	23	23	0	0	551	14	14	0	0
Bryn Mawr C.	616	36	36	0	0	574	35	35	0	0	629	1	1	0	0
Kutztown U. Pennsylvania	617	35	35	0	0	612	21	21	0	0	551	14	14	0	0
Smith C.	617	35	11	0	24	615	20	0	0	20	547	15	11	0	4
Pacific States U.	619	34	34	0	0	576	34	34	0	0	640	0	0	0	0
Morehead State U.	619	34	34	0	0	618	19	19	0	0	547	15	15	0	0
Bethune-Cookman U.	621	33	25	0	8	588	30	22	0	8	612	3	3	0	0
Saint Martin's U.	621	33	15	18	0	597	28	14	14	0	598	5	1	4	0
Sanford-Burnham Medical Research Institute	623	32	32	0	0	581	32	32	0	0	640	0	0	0	0
Fisk U.	624	31	31	0	0	588	30	30	0	0	629	1	1	0	0
Lincoln U., Jefferson City	624	31	31	0	0	642	11	11	0	0	531	20	20	0	0
American Museum of Natural History	626	30	30	0	0	588	30	30	0	0	640	0	0	0	0
Coppin State U.	626	30	30	0	0	648	9	9	0	0	524	21	21	0	0
Georgia Southwestern State U.	628	29	29	0	0	648	9	9	0	0	531	20	20	0	0
Salisbury U.	628	29	29	0	0	648	9	9	0	0	531	20	20	0	0
Furman U.	630	28	8	0	20	597	28	8	0	20	640	0	0	0	0
U. Southern Maine	630	28	28	0	0	673	2	2	0	0	505	26	26	0	0
Bemidji State U.	630	28	28	0	0	675	1	1	0	0	504	27	27	0	0
Savannah State U.	633	27	27	0	0	600	26	26	0	0	629	1	1	0	0
U. South Carolina, Aiken	633	27	27	0	0	615	20	20	0	0	585	7	7	0	0
Alaska Pacific U.	633	27	27	0	0	637	12	12	0	0	547	15	15	0	0
Point Loma Nazarene U.	633	27	27	0	0	652	8	8	0	0	537	19	19	0	0
U. Central del Caribe	637	26	26	0	0	600	26	26	0	0	640	0	0	0	0
Colorado State U., Pueblo	637	26	19	7	0	624	17	13	4	0	578	9	6	3	0
Elizabeth City State U.	639	25	25	0	0	624	17	17	0	0	581	8	8	0	0
SUNY, C. of Optometry	639	25	25	0	0	632	14	14	0	0	565	11	11	0	0
Rosalind Franklin U. of Medicine and Science	641	24	24	0	0	603	24	24	0	0	640	0	0	0	0
Bucknell U.	642	23	16	7	0	608	23	16	7	0	640	0	0	0	0
Northwestern Polytechnic U.	643	22	21	1	0	627	16	16	0	0	592	6	5	1	0
Alabama State U.	643	22	22	0	0	637	12	12	0	0	572	10	10	0	0
Milwaukee School of Engineering	643	22	0	22	0	659	5	0	5	0	544	17	0	17	0

TABLE 5-4a

Institutional rankings for graduate students: 2020

(Number)

Institution	All graduate students					Full-time students					Part-time students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
New England C. of Optometry	646	21	21	0	0	612	21	21	0	0	640	0	0	0	0
San Juan Bautista School of Medicine	646	21	0	0	21	612	21	0	0	21	640	0	0	0	0
Northwestern State U. Louisiana	646	21	21	0	0	618	19	19	0	0	618	2	2	0	0
West Virginia State U.	649	20	20	0	0	615	20	20	0	0	640	0	0	0	0
U. Wisconsin-Parkside	649	20	20	0	0	655	7	7	0	0	558	13	13	0	0
Claflin U.	651	19	19	0	0	618	19	19	0	0	640	0	0	0	0
Southern Oregon U.	651	19	19	0	0	618	19	19	0	0	640	0	0	0	0
Mississippi Valley State U.	651	19	11	0	8	629	15	10	0	5	602	4	1	0	3
Delta State U.	651	19	19	0	0	642	11	11	0	0	581	8	8	0	0
Montana State U., Billings	655	18	18	0	0	629	15	15	0	0	612	3	3	0	0
California State U., Stanislaus	655	18	18	0	0	659	5	5	0	0	558	13	13	0	0
U. Arkansas, Monticello	655	18	18	0	0	675	1	1	0	0	544	17	17	0	0
Pontifical Catholic U. Puerto Rico, Mayaguez	658	17	17	0	0	636	13	13	0	0	602	4	4	0	0
Rhode Island C.	659	15	15	0	0	666	4	4	0	0	565	11	11	0	0
Inter American U. Puerto Rico, Fajardo	659	15	15	0	0	680	0	0	0	0	547	15	15	0	0
U. Portland	661	14	0	14	0	642	11	0	11	0	612	3	0	3	0
U. of Saint Francis, Fort Wayne	661	14	14	0	0	642	11	11	0	0	612	3	3	0	0
U.S. Merchant Marine Academy	661	14	0	14	0	680	0	0	0	0	551	14	0	14	0
Albany C. of Pharmacy and Health Sciences	664	12	6	0	6	637	12	6	0	6	640	0	0	0	0
Tougaloo C.	664	12	12	0	0	652	8	8	0	0	602	4	4	0	0
Marshall B. Ketchum U.	666	11	11	0	0	646	10	10	0	0	629	1	1	0	0
Wagner C.	666	11	11	0	0	656	6	6	0	0	598	5	5	0	0
Rose-Hulman Institute of Technology	668	10	0	10	0	666	4	0	4	0	592	6	0	6	0
Elmezzi Graduate School of Molecular Medicine	669	9	9	0	0	648	9	9	0	0	640	0	0	0	0
Walla Walla U.	669	9	9	0	0	659	5	5	0	0	602	4	4	0	0
Alderson-Broaddus U.	671	7	7	0	0	656	6	6	0	0	629	1	1	0	0
Missouri Western State U.	671	7	7	0	0	659	5	5	0	0	618	2	2	0	0
Western Connecticut State U.	671	7	7	0	0	680	0	0	0	0	585	7	7	0	0
St. Francis C.	674	6	6	0	0	656	6	6	0	0	640	0	0	0	0
Point Park U.	675	5	5	0	0	659	5	5	0	0	640	0	0	0	0
Sitting Bull C.	675	5	5	0	0	659	5	5	0	0	640	0	0	0	0
SUNY, Oneonta	675	5	5	0	0	666	4	4	0	0	629	1	1	0	0
Winston-Salem State U.	675	5	5	0	0	666	4	4	0	0	629	1	1	0	0
Black Hills State U.	679	4	4	0	0	666	4	4	0	0	640	0	0	0	0

TABLE 5-4a

Institutional rankings for graduate students: 2020

(Number)

Institution	All graduate students					Full-time students					Part-time students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Vermont Technical C.	679	4	0	4	0	673	2	0	2	0	618	2	0	2	0
Marietta C.	681	3	3	0	0	672	3	3	0	0	640	0	0	0	0
Cabrini U.	681	3	3	0	0	675	1	1	0	0	618	2	2	0	0
North Central C.	683	2	2	0	0	680	0	0	0	0	618	2	2	0	0
Butler U.	684	1	0	0	1	675	1	0	0	1	640	0	0	0	0
Goucher C.	684	1	1	0	0	680	0	0	0	0	629	1	1	0	0

[a] Totals for "all institutions" include data imputed for nonresponding institutions; data imputed for nonresponding institutions are not shown separately.

Note(s):
Sorted by overall number of graduate students. Tied institutions are ranked first by number of doctoral students and then alphabetically. 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.

TABLE 5-4b

Institutional rankings for master's students: 2020

(Number)

Institution	All master's students					Full-time master's students					Part-time master's students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
All institutions[a]	-	414,478	267,904	86,450	60,124	-	243,859	155,502	49,179	39,178	-	170,619	112,402	37,271	20,946
Georgia Institute of Technology	1	11,768	10,322	1,421	25	22	1,841	952	878	11	1	9,927	9,370	543	14
Johns Hopkins U.	2	9,127	5,157	2,594	1,376	19	1,928	1,009	437	482	2	7,199	4,148	2,157	894
Liberty U.	3	9,040	7,582	6	1,452	3	4,368	3,712	5	651	3	4,672	3,870	1	801
Columbia U. in the City of New York	4	7,049	4,407	1,900	742	6	3,924	2,692	617	615	5	3,125	1,715	1,283	127
New York U.	5	6,717	4,975	1,144	598	1	4,655	3,327	953	375	10	2,062	1,648	191	223
U. Southern California	6	6,566	3,913	2,073	580	2	4,388	2,902	1,068	418	9	2,178	1,011	1,005	162
Arizona State U.	7	5,765	3,603	2,070	92	7	3,157	1,898	1,167	92	7	2,608	1,705	903	0
U. Michigan	8	5,418	2,666	2,308	444	4	4,037	2,122	1,501	414	17	1,381	544	807	30
George Washington U.	9	5,280	3,157	557	1,566	13	2,349	1,807	167	375	6	2,931	1,350	390	1,191
U. Illinois, Urbana-Champaign	10	4,363	3,190	1,068	105	8	3,050	2,068	877	105	20	1,313	1,122	191	0
Northeastern U.	11	4,300	1,741	2,500	59	5	3,975	1,548	2,371	56	140	325	193	129	3
U. Washington	12	4,238	2,350	1,279	609	12	2,437	1,386	603	448	11	1,801	964	676	161
U. Florida	13	4,086	2,568	1,119	399	14	2,286	1,338	681	267	12	1,800	1,230	438	132
Boston U.	14	3,784	2,582	480	722	15	2,265	1,457	282	526	16	1,519	1,125	198	196
U. Maryland, U. C.	15	3,742	3,742	0	0	491	52	52	0	0	4	3,690	3,690	0	0
Texas A&M U.	16	3,717	2,148	1,319	250	11	2,551	1,455	885	211	21	1,166	693	434	39
U. Colorado	17	3,443	1,598	1,332	513	10	2,579	1,245	890	444	38	864	353	442	69
Pennsylvania State U.	18	3,396	2,108	1,174	114	52	1,083	651	359	73	8	2,313	1,457	815	41
Purdue U.	19	3,187	948	2,014	225	32	1,464	544	817	103	13	1,723	404	1,197	122
George Mason U.	20	2,942	2,332	348	262	38	1,337	1,085	111	141	15	1,605	1,247	237	121
North Carolina State U.	21	2,922	1,677	1,245	0	20	1,906	1,145	761	0	30	1,016	532	484	0
U. Maryland, College Park	22	2,900	1,162	841	897	28	1,520	814	456	250	18	1,380	348	385	647
Carnegie Mellon U.	23	2,876	1,487	1,389	0	9	2,698	1,427	1,271	0	220	178	60	118	0
U. Texas, Dallas	24	2,802	2,098	498	206	18	1,949	1,477	276	196	39	853	621	222	10
U. South Florida, Tampa	24	2,802	1,412	405	985	24	1,817	1,088	274	455	31	985	324	131	530
San Jose State U.	26	2,530	724	1,663	143	31	1,466	439	913	114	26	1,064	285	750	29
Lamar U.	27	2,495	2,109	97	289	30	1,510	1,266	70	174	31	985	843	27	115
Pepperdine U.	28	2,429	2,429	0	0	74	807	807	0	0	14	1,622	1,622	0	0
U. California, Berkeley	29	2,405	1,182	652	571	34	1,429	446	609	374	33	976	736	43	197
U. Texas, Austin	30	2,397	1,561	612	224	29	1,517	947	417	153	37	880	614	195	71
SUNY, U. Buffalo	31	2,377	1,086	950	341	37	1,346	668	395	283	29	1,031	418	555	58
U. Minnesota	32	2,363	1,368	429	566	17	1,987	1,195	347	445	117	376	173	82	121
Georgetown U.	33	2,361	2,284	0	77	21	1,867	1,834	0	33	83	494	450	0	44

TABLE 5-4b

Institutional rankings for master's students: 2020

(Number)

Institution	All master's students					Full-time master's students					Part-time master's students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
U. Chicago	34	2,357	2,352	5	0	25	1,743	1,739	4	0	60	614	613	1	0
National U.	35	2,354	2,200	0	154	40	1,239	1,129	0	110	23	1,115	1,071	0	44
U. Central Florida	36	2,236	968	658	610	47	1,143	541	209	393	24	1,093	427	449	217
Indiana U.	37	2,228	1,345	246	637	33	1,461	886	128	447	42	767	459	118	190
Virginia Polytechnic Institute and State U.	38	2,158	1,337	761	60	50	1,109	508	555	46	28	1,049	829	206	14
U. California, Los Angeles	39	2,090	798	921	371	16	2,090	798	921	371	636	0	0	0	0
DePaul U.	40	2,077	1,849	116	112	36	1,368	1,194	82	92	51	709	655	34	20
Colorado State U., Fort Collins	41	2,069	1,564	470	35	91	725	584	114	27	19	1,344	980	356	8
U. Cincinnati	42	2,028	936	498	594	69	903	419	222	262	22	1,125	517	276	332
U. Arizona	43	2,010	1,068	476	466	63	952	554	157	241	27	1,058	514	319	225
U. Texas, Arlington	44	1,965	943	966	56	39	1,241	655	547	39	47	724	288	419	17
U. Wisconsin-Madison	45	1,953	1,236	597	120	35	1,393	982	308	103	71	560	254	289	17
Stanford U.	46	1,942	1,034	806	102	26	1,712	914	715	83	183	230	120	91	19
Cornell U.	47	1,839	865	883	91	23	1,839	865	883	91	636	0	0	0	0
U. California, San Diego	48	1,809	736	1,073	0	27	1,539	587	952	0	160	270	149	121	0
U. Denver	49	1,804	1,669	105	30	42	1,177	1,125	41	11	58	627	544	64	19
Florida State U.	50	1,801	1,424	131	246	72	876	688	64	124	35	925	736	67	122
California State U., Northridge	51	1,733	485	289	959	107	644	228	127	289	25	1,089	257	162	670
Rutgers, State U. New Jersey	52	1,714	1,232	475	7	44	1,173	932	234	7	73	541	300	241	0
Tufts U.	53	1,699	1,334	168	197	41	1,227	1,008	107	112	87	472	326	61	85
U. Utah	54	1,677	1,028	336	313	49	1,118	701	196	221	72	559	327	140	92
Oregon State U.	55	1,650	970	467	213	53	1,079	600	374	105	69	571	370	93	108
Syracuse U.	56	1,648	1,338	284	26	62	963	749	192	22	54	685	589	92	4
California State U., Fullerton	57	1,611	847	580	184	98	681	382	161	138	34	930	465	419	46
Ohio State U.	58	1,587	592	646	349	46	1,150	439	476	235	95	437	153	170	114
Northwestern U.	59	1,548	1,028	336	184	60	973	669	202	102	68	575	359	134	82
U. Alabama, Birmingham	60	1,540	602	456	482	106	649	339	84	226	36	891	263	372	256
Stevens Institute of Technology	61	1,512	532	974	6	58	994	433	557	4	80	518	99	417	2
U. Pittsburgh	62	1,511	843	320	348	54	1,037	626	176	235	86	474	217	144	113
Florida Institute of Technology	63	1,504	1,127	377	0	77	795	655	140	0	51	709	472	237	0
Drexel U.	64	1,501	1,113	254	134	87	748	571	107	70	43	753	542	147	64
Columbia U., Teachers C.	65	1,494	1,299	0	195	66	916	791	0	125	66	578	508	0	70
New Jersey Institute of Technology	66	1,465	793	656	16	90	727	465	253	9	46	738	328	403	7
American U.	67	1,460	1,438	0	22	76	796	783	0	13	55	664	655	0	9

TABLE 5-4b

Institutional rankings for master's students: 2020

(Number)

Institution	All master's students					Full-time master's students					Part-time master's students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Illinois Institute of Technology	68	1,452	1,031	378	43	71	891	651	235	5	70	561	380	143	38
Texas Tech U.	69	1,443	901	385	157	59	981	623	249	109	90	462	278	136	48
Naval Postgraduate School	70	1,433	505	928	0	68	904	505	399	0	77	529	0	529	0
Case Western Reserve U.	71	1,405	1,009	273	123	45	1,153	828	223	102	168	252	181	50	21
U. Texas, San Antonio	72	1,400	1,065	232	103	105	657	510	96	51	45	743	555	136	52
U. Illinois, Chicago	73	1,398	575	453	370	55	1,029	456	310	263	121	369	119	143	107
Florida International U.	74	1,381	852	224	305	64	936	586	123	227	92	445	266	101	78
U. North Texas, Denton	75	1,371	1,041	167	163	78	785	520	115	150	64	586	521	52	13
U. Connecticut	76	1,365	798	360	207	65	934	657	123	154	97	431	141	237	53
San Diego State U.	77	1,358	798	229	331	79	780	406	101	273	66	578	392	128	58
Rochester Institute of Technology	78	1,351	965	380	6	57	1,005	755	247	3	128	346	210	133	3
U. Massachusetts, Amherst	79	1,348	735	243	370	73	811	579	111	121	74	537	156	132	249
U. North Carolina, Chapel Hill	80	1,338	318	11	1,009	51	1,092	292	11	789	173	246	26	0	220
Washington U., Saint Louis	81	1,304	496	589	219	70	902	350	393	159	111	402	146	196	60
U. California, Irvine	82	1,290	813	408	69	48	1,127	705	361	61	235	163	108	47	8
U. Texas Rio Grande Valley	83	1,285	702	205	378	121	562	393	122	47	48	723	309	83	331
Georgia State U.	84	1,262	1,004	0	258	61	970	779	0	191	151	292	225	0	67
California State U., Long Beach	85	1,246	837	288	121	104	660	472	103	85	64	586	365	185	36
U. Massachusetts, Lowell	86	1,234	561	577	96	152	454	175	215	64	40	780	386	362	32
U. Oklahoma	87	1,232	916	288	28	132	520	389	114	17	49	712	527	174	11
U. Houston	88	1,219	664	482	73	86	750	402	278	70	88	469	262	204	3
U. San Francisco	89	1,215	1,018	0	197	110	619	574	0	45	63	596	444	0	152
SUNY, Stony Brook U.	90	1,200	789	247	164	75	797	490	165	142	109	403	299	82	22
Auburn U.	91	1,196	685	424	87	120	563	344	152	67	56	633	341	272	20
Massachusetts Institute of Technology	92	1,176	427	749	0	43	1,175	427	748	0	624	1	0	1	0
Texas State U.	93	1,170	926	82	162	82	772	591	40	141	113	398	335	42	21
Clemson U.	94	1,166	616	456	94	83	767	292	411	64	112	399	324	45	30
U. Virginia	95	1,162	779	228	155	89	734	510	86	138	98	428	269	142	17
Michigan State U.	96	1,146	765	148	233	133	518	312	77	129	57	628	453	71	104
Wayne State U.	97	1,144	594	313	237	96	687	350	149	188	91	457	244	164	49
U. Missouri, Columbia	98	1,124	758	98	268	130	522	342	37	143	62	602	416	61	125
Worcester Polytechnic Institute	99	1,103	373	730	0	200	335	164	171	0	41	768	209	559	0
U. Miami	100	1,100	895	105	100	67	914	764	88	62	213	186	131	17	38
California Baptist U.	101	1,096	690	25	381	84	758	532	16	210	133	338	158	9	171

TABLE 5-4b

Institutional rankings for master's students: 2020

(Number)

Institution	All master's students					Full-time master's students					Part-time master's students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Troy U.	102	1,090	1,071	0	19	194	346	339	0	7	44	744	732	0	12
U. Texas Health Science Center, Houston	103	1,079	410	3	666	116	587	296	3	288	84	492	114	0	378
Harvard U.	104	1,073	335	182	556	84	758	202	171	385	143	315	133	11	171
U. California, Davis	105	1,067	534	331	202	56	1,018	519	305	194	420	49	15	26	8
U. North Carolina, Charlotte	106	1,044	823	147	74	101	671	521	88	62	118	373	302	59	12
Miami U.	107	1,032	870	42	120	168	407	257	38	112	59	625	613	4	8
Southern Methodist U.	108	1,030	593	437	0	205	328	256	72	0	53	702	337	365	0
Portland State U.	109	1,029	593	355	81	111	609	349	189	71	104	420	244	166	10
Old Dominion U.	110	1,021	351	600	70	223	309	164	79	66	49	712	187	521	4
Mississippi State U.	111	1,014	695	275	44	136	513	379	101	33	81	501	316	174	11
Oklahoma State U.	112	1,009	646	275	88	103	664	442	145	77	129	345	204	130	11
Iowa State U.	113	1,000	647	343	10	142	476	303	164	9	78	524	344	179	1
U. New Mexico	114	995	426	363	206	124	550	234	162	154	92	445	192	201	52
U. Wisconsin-Milwaukee	115	984	696	103	185	102	665	462	46	157	141	319	234	57	28
SUNY, Binghamton U.	116	951	592	325	34	97	686	463	195	28	162	265	129	130	6
SUNY, U. Albany	117	937	691	7	239	109	630	510	3	117	147	307	181	4	122
Temple U.	118	926	698	85	143	118	581	423	47	111	129	345	275	38	32
Tulane U.	119	921	418	27	476	92	705	396	27	282	193	216	22	0	194
Kennesaw State U.	120	906	591	207	108	180	374	297	46	31	76	532	294	161	77
U. Georgia	121	902	712	73	117	81	778	607	66	105	280	124	105	7	12
Northern Illinois U.	122	895	418	168	309	144	473	288	90	95	102	422	130	78	214
U. Kentucky	123	884	531	119	234	94	689	409	89	191	203	195	122	30	43
Santa Clara U.	124	882	448	434	0	125	548	252	296	0	137	334	196	138	0
New Mexico State U.	125	874	524	203	147	141	482	317	106	59	115	392	207	97	88
Montclair State U.	126	873	638	0	235	95	688	502	0	186	216	185	136	0	49
Baylor U.	127	870	112	33	725	114	598	81	25	492	158	272	31	8	233
U. Texas, El Paso	128	861	355	414	92	151	456	191	189	76	106	405	164	225	16
San Francisco State U.	129	856	659	67	130	118	581	416	44	121	157	275	243	23	9
Utah State U.	130	854	559	133	162	214	318	147	71	100	75	536	412	62	62
U. Central Missouri	131	845	695	35	115	137	509	417	18	74	134	336	278	17	41
U. Nebraska-Lincoln	132	842	541	238	63	143	475	289	134	52	123	367	252	104	11
Kansas State U.	133	841	669	135	37	147	470	395	55	20	120	371	274	80	17
Maharishi U. of Management	134	834	834	0	0	88	747	747	0	0	336	87	87	0	0
California State U., Sacramento	135	832	506	220	106	204	331	165	91	75	81	501	341	129	31

TABLE 5-4b

Institutional rankings for master's students: 2020

(Number)

Institution	All master's students					Full-time master's students					Part-time master's students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
U. Tennessee, Knoxville	136	819	429	310	80	160	425	228	130	67	114	394	201	180	13
Colorado School of Mines	137	816	254	562	0	112	607	210	397	0	197	209	44	165	0
U. Dayton	138	814	446	368	0	108	642	359	283	0	226	172	87	85	0
Ohio U.	138	814	489	230	95	165	409	252	69	88	106	405	237	161	7
U. New Haven	140	802	468	279	55	117	584	352	180	52	190	218	116	99	3
California State Polytechnic U., Pomona	141	801	443	358	0	234	277	161	116	0	78	524	282	242	0
Carlos Albizu U.	142	797	589	0	208	100	674	531	0	143	282	123	58	0	65
U. Alabama, Tuscaloosa	143	790	330	220	240	140	488	226	93	169	149	302	104	127	71
Regis U.	144	789	769	0	20	125	548	533	0	15	177	241	236	0	5
U. Kansas	145	786	485	165	136	145	472	265	113	94	144	314	220	52	42
U. Louisville	146	781	183	399	199	159	427	107	151	169	126	354	76	248	30
Duke U.	147	779	453	229	97	80	779	453	229	97	636	0	0	0	0
Antioch U.	148	777	777	0	0	99	677	677	0	0	312	100	100	0	0
Missouri State U.	149	775	631	0	144	148	467	337	0	130	146	308	294	0	14
U. Hawaii, Manoa	150	771	507	141	123	115	596	408	100	88	224	175	99	41	35
Pace U.	151	769	717	12	40	133	518	471	7	40	170	251	246	5	0
U. Nevada, Reno	152	768	330	136	302	129	523	256	120	147	174	245	74	16	155
Long Island U.	153	760	408	3	349	123	560	282	2	276	199	200	126	1	73
U. West Florida	154	757	572	23	162	334	148	95	5	48	61	609	477	18	114
Washington State U.	155	750	505	194	51	130	522	345	127	50	185	228	160	67	1
U. North Carolina, Greensboro	156	748	507	0	241	150	457	302	0	155	153	291	205	0	86
Texas Woman's U.	156	748	532	0	216	164	413	223	0	190	136	335	309	0	26
U. Houston-Clear Lake	158	747	640	93	14	175	390	357	29	4	124	357	283	64	10
Brown U.	159	739	463	109	167	93	694	437	98	159	429	45	26	11	8
U. Delaware	160	729	464	160	105	113	599	365	132	102	270	130	99	28	3
West Virginia U.	161	723	357	202	164	127	545	271	131	143	220	178	86	71	21
Brigham Young U.	162	717	409	214	94	219	313	179	71	63	108	404	230	143	31
Sam Houston State U.	163	713	651	0	62	202	332	299	0	33	116	381	352	0	29
Florida Atlantic U.	164	710	479	133	98	178	382	253	55	74	139	328	226	78	24
Wright State U.	165	709	475	204	30	135	517	361	136	20	205	192	114	68	10
California State U., Los Angeles	166	704	482	149	73	186	368	284	48	36	134	336	198	101	37
U. Memphis	167	696	386	57	253	158	428	237	35	156	161	268	149	22	97
Kent State U.	168	695	350	0	345	209	322	171	0	151	118	373	179	0	194
U. Arkansas, Fayetteville	168	695	323	292	80	239	271	145	68	58	101	424	178	224	22

TABLE 5-4b

Institutional rankings for master's students: 2020

(Number)

Institution	All master's students					Full-time master's students					Part-time master's students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Azusa Pacific U.	170	688	636	0	52	157	440	398	0	42	172	248	238	0	10
Western Michigan U.	171	681	415	170	96	122	561	345	124	92	286	120	70	46	4
U. Massachusetts, Boston	172	680	509	0	171	247	259	234	0	25	103	421	275	0	146
Towson U.	173	649	555	0	94	183	372	279	0	93	156	277	276	0	1
Villanova U.	173	649	284	365	0	190	357	206	151	0	151	292	78	214	0
Oakland U.	173	649	254	346	49	200	335	153	143	39	144	314	101	203	10
U. Idaho	176	648	439	209	0	215	317	228	89	0	138	331	211	120	0
U. Illinois, Springfield	177	646	589	0	57	300	180	154	0	26	89	466	435	0	31
Cleveland State U.	178	643	335	218	90	155	444	249	121	74	200	199	86	97	16
Michigan Technological U.	179	641	259	370	12	176	389	137	243	9	168	252	122	127	3
U. South Carolina	180	639	276	103	260	165	409	218	66	125	183	230	58	37	135
U. Maryland, Baltimore County	181	632	537	95	0	216	314	272	42	0	142	318	265	53	0
U. San Diego	182	623	443	0	180	243	267	238	0	29	125	356	205	0	151
CUNY, Queens C.	183	620	538	0	82	191	355	303	0	52	162	265	235	0	30
Texas A&M U.-Kingsville	184	617	334	203	80	173	391	234	107	50	186	226	100	96	30
Ball State U.	185	615	535	0	80	216	314	250	0	64	150	301	285	0	16
CUNY, Hunter C.	186	614	571	0	43	361	130	87	0	43	85	484	484	0	0
Saint Mary's U. Minnesota	187	611	566	0	45	156	442	406	0	36	229	169	160	0	9
Louisiana State U.	188	609	333	115	161	139	505	276	83	146	303	104	57	32	15
East Carolina U.	189	608	332	46	230	185	369	222	24	123	179	239	110	22	107
U. Nebraska, Omaha	190	607	586	0	21	248	257	239	0	18	127	350	347	0	3
U. Alabama, Huntsville	190	607	266	341	0	290	198	133	65	0	105	409	133	276	0
Brandeis U.	192	597	597	0	0	138	507	507	0	0	328	90	90	0	0
Northern Arizona U.	192	597	382	30	185	154	445	319	29	97	248	152	63	1	88
Grand Valley State U.	194	590	328	42	220	161	417	192	20	205	225	173	136	22	15
California State U., Fresno	195	588	342	88	158	184	370	179	49	142	190	218	163	39	16
Texas A&M U.-Commerce	195	588	496	0	92	277	220	175	0	45	122	368	321	0	47
Wichita State U.	197	576	340	176	60	207	327	194	74	59	171	249	146	102	1
CUNY, City C.	197	576	399	177	0	262	237	149	88	0	132	339	250	89	0
California Institute of Integral Studies	199	573	573	0	0	153	449	449	0	0	280	124	124	0	0
Southern Illinois U., Edwardsville	200	572	359	134	79	244	266	157	37	72	148	306	202	97	7
Tarleton State U.	200	572	572	0	0	358	131	131	0	0	94	441	441	0	0
Georgia Southern U.	202	553	218	80	255	162	416	161	51	204	262	137	57	29	51
U. New Hampshire	203	545	370	92	83	173	391	256	65	70	244	154	114	27	13

TABLE 5-4b

Institutional rankings for master's students: 2020

(Number)

Institution	All master's students					Full-time master's students					Part-time master's students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
West Chester U. Pennsylvania	204	543	290	0	253	231	286	107	0	179	167	257	183	0	74
U. California, Santa Barbara	205	541	429	112	0	128	541	429	112	0	636	0	0	0	0
Missouri U. of Science and Technology	206	528	138	390	0	257	243	87	156	0	155	285	51	234	0
U. North Dakota	207	523	331	95	97	301	178	81	30	67	129	345	250	65	30
U. Toledo	208	522	241	148	133	191	355	181	74	100	230	167	60	74	33
Saint Louis U.	209	520	270	66	184	145	472	239	61	172	421	48	31	5	12
U. Rhode Island	210	519	329	118	72	187	364	244	55	65	243	155	85	63	7
U. North Texas, Health Science Center	211	518	308	0	210	202	332	308	0	24	213	186	0	0	186
Barry U.	212	515	476	0	39	193	348	311	0	37	230	167	165	0	2
Air Force Institute of Technology	213	509	95	410	4	169	398	90	305	3	294	111	5	105	1
U. Puerto Rico, Mayaguez	214	508	371	137	0	149	461	350	111	0	426	47	21	26	0
Marshall U.	215	503	329	37	137	172	393	241	24	128	296	110	88	13	9
Eastern Illinois U.	216	501	407	0	94	222	310	229	0	81	206	191	178	0	13
CUNY, Baruch C.	217	500	439	61	0	467	63	53	10	0	95	437	386	51	0
North Dakota State U.	218	499	353	107	39	246	261	203	31	27	180	238	150	76	12
U. California, Riverside	219	491	216	275	0	180	374	215	159	0	288	117	1	116	0
U. New England	219	491	107	0	384	198	339	72	0	267	248	152	35	0	117
U. Wyoming	221	489	360	65	64	188	359	267	54	38	270	130	93	11	26
Southern Illinois U., Carbondale	222	487	299	95	93	170	397	244	66	87	328	90	55	29	6
Rivier U.	223	475	69	0	406	510	47	46	0	1	98	428	23	0	405
California State U., San Bernardino	224	472	434	0	38	163	414	378	0	36	399	58	56	0	2
St. Cloud State U.	224	472	310	79	83	281	211	152	9	50	164	261	158	70	33
U. Puerto Rico, Medical Sciences Campus	226	469	109	0	360	167	408	96	0	312	393	61	13	0	48
Illinois State U.	227	466	391	0	75	182	373	300	0	73	325	93	91	0	2
U. Maine	228	462	328	87	47	171	394	277	73	44	374	68	51	14	3
Loyola U., Chicago	229	461	351	29	81	195	345	280	19	46	291	116	71	10	35
California State U., East Bay	230	459	373	0	86	208	326	258	0	68	268	133	115	0	18
U. Missouri, Kansas City	231	453	315	129	9	252	249	183	66	0	198	204	132	63	9
National Louis U.	232	451	451	0	0	196	340	340	0	0	294	111	111	0	0
California Polytechnic State U., San Luis Obispo	233	450	199	251	0	205	328	125	203	0	283	122	74	48	0
East Tennessee State U.	233	450	142	0	308	212	320	105	0	215	270	130	37	0	93
Rowan U.	235	446	272	125	49	283	206	103	72	31	178	240	169	53	18
U. Iowa	236	439	198	90	151	179	380	173	71	136	398	59	25	19	15
Bowling Green State U.	236	439	353	24	62	225	298	218	20	60	257	141	135	4	2

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Institutional rankings for master's students: 2020

(Number)

Institution	All master's students					Full-time master's students					Part-time master's students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
U. North Carolina, Wilmington	238	438	438	0	0	219	313	313	0	0	277	125	125	0	0
Western Kentucky U.	239	435	193	0	242	227	295	117	0	178	260	140	76	0	64
Simmons U.	239	435	389	0	46	630	8	8	0	0	100	427	381	0	46
Virginia Commonwealth U.	241	432	291	71	70	237	273	183	25	65	238	159	108	46	5
U. Nevada, Las Vegas	242	431	237	86	108	241	269	154	38	77	236	162	83	48	31
U. Southern Mississippi	243	429	236	7	186	189	358	197	3	158	370	71	39	4	28
New School	244	419	419	0	0	216	314	314	0	0	302	105	105	0	0
CUNY, Brooklyn C.	245	415	290	0	125	363	129	54	0	75	154	286	236	0	50
Touro C.	246	413	307	0	106	196	340	237	0	103	367	73	70	0	3
South Dakota State U.	247	409	308	71	30	265	232	190	42	0	222	177	118	29	30
U. Massachusetts, Dartmouth	248	408	330	78	0	297	186	152	34	0	188	222	178	44	0
Eastern Michigan U.	248	408	330	0	78	305	176	132	0	44	181	232	198	0	34
U. Wisconsin-Platteville	248	408	200	208	0	639	5	2	3	0	109	403	198	205	0
New York Institute of Technology	251	407	273	114	20	232	285	198	67	20	283	122	75	47	0
Adelphi U.	252	399	216	0	183	234	277	99	0	178	283	122	117	0	5
Angelo State U.	253	398	342	0	56	318	166	157	0	9	181	232	185	0	47
Montana State U.	254	395	304	91	0	228	291	211	80	0	303	104	93	11	0
North Carolina Central U.	255	394	298	0	96	245	265	171	0	94	274	129	127	0	2
Roosevelt U.	256	392	386	0	6	230	288	286	0	2	303	104	100	0	4
U. Akron	256	392	187	114	91	250	251	122	61	68	257	141	65	53	23
Keck Graduate Institute	258	390	267	123	0	176	389	266	123	0	624	1	1	0	0
Marymount U.	259	388	345	0	43	237	273	247	0	26	292	115	98	0	17
U. Vermont	260	386	175	58	153	265	232	126	38	68	244	154	49	20	85
Lewis U.	261	385	348	0	37	370	125	88	0	37	166	260	260	0	0
Appalachian State U.	262	382	268	0	114	210	321	210	0	111	393	61	58	0	3
Alabama A&M U.	263	381	230	68	83	268	228	129	33	66	246	153	101	35	17
St. John's U., Queens	264	379	273	0	106	221	311	212	0	99	374	68	61	0	7
Benedictine U.	265	378	96	0	282	392	106	57	0	49	158	272	39	0	233
Middle Tennessee State U.	266	377	359	0	18	295	187	174	0	13	207	190	185	0	5
U. Montana	267	375	225	0	150	261	239	151	0	88	264	136	74	0	62
Central Washington U.	267	375	328	31	16	263	236	220	0	16	261	139	108	31	0
Southern Connecticut State U.	267	375	181	10	184	269	227	85	4	138	253	148	96	6	46
Lehigh U.	270	373	178	195	0	280	214	123	91	0	238	159	55	104	0
U. South Dakota	271	371	219	10	142	236	274	188	7	79	317	97	31	3	63

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Institutional rankings for master's students: 2020

(Number)

Institution	All master's students					Full-time master's students					Part-time master's students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
U. Texas, Tyler	272	370	275	27	68	254	245	185	18	42	277	125	90	9	26
U. Northern Colorado	273	364	153	0	211	292	193	64	0	129	227	171	89	0	82
Marquette U.	274	362	147	87	128	282	209	70	43	96	246	153	77	44	32
Claremont Graduate U.	275	361	312	0	49	306	175	143	0	32	213	186	169	0	17
Philadelphia C. of Osteopathic Medicine	276	360	360	0	0	198	339	339	0	0	501	21	21	0	0
Eastern U.	276	360	360	0	0	334	148	148	0	0	194	212	212	0	0
U. Louisiana, Monroe	278	356	257	0	99	276	222	142	0	80	267	134	115	0	19
Western Illinois U.	279	354	297	0	57	241	269	217	0	52	342	85	80	0	5
Humboldt State U.	280	351	318	0	33	388	109	95	0	14	176	242	223	0	19
Eastern Washington U.	281	346	258	0	88	224	307	229	0	78	446	39	29	0	10
Boise State U.	282	345	203	69	73	285	204	128	37	39	257	141	75	32	34
U. Puerto Rico, Rio Piedras	283	342	342	0	0	229	289	289	0	0	410	53	53	0	0
Central Michigan U.	283	342	218	6	118	257	243	134	1	108	314	99	84	5	10
Idaho State U.	285	337	138	31	168	288	200	92	25	83	262	137	46	6	85
U. Oregon	286	335	265	0	70	213	319	249	0	70	526	16	16	0	0
Massachusetts C. of Pharmacy and Health Sciences	286	335	14	0	321	347	136	14	0	122	200	199	0	0	199
Eastern Kentucky U.	288	334	247	0	87	337	147	77	0	70	210	187	170	0	17
Lawrence Technological U.	288	334	83	251	0	443	73	11	62	0	164	261	72	189	0
U. North Florida	290	331	184	42	105	286	201	97	24	80	270	130	87	18	25
Polytechnic U. Puerto Rico	290	331	52	279	0	318	166	35	131	0	232	165	17	148	0
Midwestern U.	292	329	329	0	0	225	298	298	0	0	470	31	31	0	0
Hofstra U.	293	325	120	0	205	250	251	86	0	165	364	74	34	0	40
Governors State U.	293	325	227	0	98	309	173	111	0	62	248	152	116	0	36
Boston C.	295	323	323	0	0	327	159	159	0	0	234	164	164	0	0
U. Mississippi	296	322	174	22	126	270	226	94	20	112	320	96	80	2	14
U. Central Oklahoma	296	322	213	17	92	321	163	111	4	48	238	159	102	13	44
Lake Erie C. of Osteopathic Medicine	298	321	321	0	0	210	321	321	0	0	636	0	0	0	0
New York Medical C.	299	320	191	0	129	249	253	154	0	99	379	67	37	0	30
Mississippi C.	300	319	319	0	0	259	242	242	0	0	356	77	77	0	0
Seattle U.	300	319	294	25	0	317	167	154	13	0	248	152	140	12	0
Embry-Riddle Aeronautical U.	302	317	84	233	0	233	284	78	206	0	464	33	6	27	0
Kean U.	302	317	256	0	61	288	200	182	0	18	288	117	74	0	43
Columbus State U.	302	317	301	0	16	372	123	113	0	10	204	194	188	0	6
CUNY, John Jay C. of Criminal Justice	305	316	316	0	0	352	134	134	0	0	218	182	182	0	0

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Institutional rankings for master's students: 2020

(Number)

Institution	All master's students					Full-time master's students					Part-time master's students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Seton Hall U.	306	313	222	0	91	253	248	160	0	88	384	65	62	0	3
California State U., Chico	307	311	245	0	66	274	223	159	0	64	335	88	86	0	2
U. Hartford	308	309	234	75	0	374	122	92	30	0	210	187	142	45	0
U. Northern Iowa	309	308	198	0	110	306	175	70	0	105	268	133	128	0	5
Northeastern Illinois U.	310	305	266	0	39	413	88	73	0	15	192	217	193	0	24
U. of Saint Joseph	310	305	295	0	10	427	82	80	0	2	187	223	215	0	8
Indiana U. Pennsylvania	312	304	221	1	82	291	197	127	1	69	299	107	94	0	13
Murray State U.	313	303	241	0	62	301	178	116	0	62	277	125	125	0	0
Rice U.	314	302	173	129	0	256	244	136	108	0	399	58	37	21	0
Minnesota State U., Mankato	314	302	209	21	72	318	166	94	11	61	264	136	115	10	11
Eastern Virginia Medical School	316	300	0	0	300	273	224	0	0	224	360	76	0	0	76
Western Washington U.	316	300	244	0	56	278	219	172	0	47	347	81	72	0	9
Northwest Missouri State U.	316	300	300	0	0	395	103	103	0	0	202	197	197	0	0
U. Arkansas for Medical Sciences	319	298	35	0	263	413	88	21	0	67	195	210	14	0	196
U. Nebraska, Kearney	319	298	258	0	40	413	88	49	0	39	195	210	209	0	1
Thomas Jefferson U.	321	297	176	5	116	436	75	33	3	39	188	222	143	2	77
Fairleigh Dickinson U.	322	293	255	12	26	272	225	199	9	17	374	68	56	3	9
U. Rochester	323	291	120	96	75	267	229	105	92	32	390	62	15	4	43
U. Baltimore	323	291	291	0	0	390	108	108	0	0	217	183	183	0	0
Dartmouth C.	325	287	83	67	137	239	271	82	63	126	526	16	1	4	11
Inter American U. Puerto Rico, Metro	326	285	285	0	0	301	178	178	0	0	299	107	107	0	0
SUNY, Downstate Medical Center	326	285	15	0	270	329	157	15	0	142	275	128	0	0	128
U. Louisiana, Lafayette	328	280	156	61	63	260	240	122	55	63	441	40	34	6	0
Emporia State U.	329	279	279	0	0	410	91	91	0	0	209	188	188	0	0
U. Wisconsin-La Crosse	330	275	220	33	22	398	99	63	21	15	223	176	157	12	7
Central Connecticut State U.	331	274	253	21	0	417	87	81	6	0	210	187	172	15	0
Sage Colleges	331	274	274	0	0	549	31	31	0	0	175	243	243	0	0
Texas A&M U.-Corpus Christi	333	273	203	13	57	295	187	160	8	19	337	86	43	5	38
Lipscomb U.	334	270	247	6	17	254	245	226	5	14	485	25	21	1	3
Clarkson U.	335	264	56	179	29	381	118	39	77	2	254	146	17	102	27
U. Alaska, Fairbanks	336	262	218	44	0	381	118	93	25	0	255	144	125	19	0
Wake Forest U.	337	257	163	18	76	263	236	162	18	56	501	21	1	0	20
Clark U.	338	255	255	0	0	286	201	201	0	0	408	54	54	0	0
Tennessee State U.	338	255	142	40	73	325	160	96	27	37	323	95	46	13	36

TABLE 5-4b

Institutional rankings for master's students: 2020

(Number)

Institution	All master's students					Full-time master's students					Part-time master's students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Loyola U., Maryland	340	254	144	0	110	314	169	59	0	110	342	85	85	0	0
Loma Linda U.	341	253	53	0	200	298	184	41	0	143	373	69	12	0	57
U. South Alabama	342	252	136	66	50	279	218	115	53	50	459	34	21	13	0
Saint Joseph's U.	343	250	247	0	3	473	60	60	0	0	207	190	187	0	3
Northeastern State U.	344	248	163	0	85	324	162	93	0	69	337	86	70	0	16
Chapman U.	345	245	140	0	105	299	183	82	0	101	390	62	58	0	4
Nova Southeastern U.	346	244	244	0	0	304	177	177	0	0	379	67	67	0	0
Eastern New Mexico U.	347	243	80	0	163	332	154	37	0	117	332	89	43	0	46
Mercer U.	348	242	55	61	126	293	190	47	29	114	413	52	8	32	12
U. Tennessee, Chattanooga	348	242	156	49	37	312	172	112	29	31	371	70	44	20	6
James Madison U.	348	242	162	0	80	321	163	104	0	59	350	79	58	0	21
Chicago State U.	348	242	238	0	4	410	91	90	0	1	252	151	148	0	3
U. Central Arkansas	352	241	81	0	160	342	144	51	0	93	317	97	30	0	67
Stephen F. Austin State U.	352	241	161	0	80	363	129	55	0	74	293	112	106	0	6
U. Wisconsin-Stout	352	241	189	52	0	393	105	95	10	0	264	136	94	42	0
Southern U. and A&M C.	355	239	182	24	33	345	140	91	16	33	314	99	91	8	0
U. Wisconsin-Eau Claire	355	239	133	0	106	453	69	20	0	49	228	170	113	0	57
Vanderbilt U.	357	238	209	29	0	270	226	201	25	0	544	12	8	4	0
U. Notre Dame	357	238	157	81	0	333	149	75	74	0	332	89	82	7	0
Jacksonville U.	359	231	93	0	138	337	147	21	0	126	345	84	72	0	12
U. Detroit Mercy	359	231	63	143	25	352	134	34	75	25	317	97	29	68	0
Indiana State U.	359	231	170	0	61	366	128	68	0	60	309	103	102	0	1
Hood C.	359	231	231	0	0	461	66	66	0	0	232	165	165	0	0
McNeese State U.	363	229	167	12	50	306	175	126	8	41	408	54	41	4	9
A. T. Still U.	364	226	16	0	210	366	128	9	0	119	316	98	7	0	91
California State U., San Marcos	364	226	202	0	24	374	122	98	0	24	303	104	104	0	0
Austin Peay State U.	366	225	225	0	0	467	63	63	0	0	236	162	162	0	0
Touro U., Vallejo	367	223	0	0	223	274	223	0	0	223	636	0	0	0	0
Manhattan C.	368	221	0	221	0	294	189	0	189	0	467	32	0	32	0
C. of Saint Rose	369	219	122	0	97	329	157	67	0	90	390	62	55	0	7
U. New Orleans	369	219	156	63	0	363	129	103	26	0	328	90	53	37	0
North Carolina Agricultural and Technical State U.	371	218	102	116	0	313	171	82	89	0	426	47	20	27	0
Kansas City U. of Medicine and Biosciences	372	217	138	0	79	347	136	136	0	0	347	81	2	0	79
Yale U.	373	215	133	12	70	283	206	128	9	69	564	9	5	3	1

TABLE 5-4b

Institutional rankings for master's students: 2020

(Number)

Institution	All master's students					Full-time master's students					Part-time master's students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Northern Kentucky U.	374	212	93	0	119	485	54	26	0	28	241	158	67	0	91
U. West Georgia	375	211	144	0	67	356	132	65	0	67	350	79	79	0	0
Dakota State U.	376	209	198	0	11	356	132	126	0	6	356	77	72	0	5
Arkansas State U.	376	209	128	6	75	358	131	65	0	66	353	78	63	6	9
Citadel Military C. South Carolina	376	209	164	19	26	461	66	51	1	14	256	143	113	18	12
New Mexico Institute of Mining and Technology	379	206	75	131	0	334	148	61	87	0	399	58	14	44	0
New Jersey City U.	380	202	131	0	71	401	98	71	0	27	303	104	60	0	44
Southeastern Louisiana U.	381	201	98	0	103	327	159	71	0	88	434	42	27	0	15
Jackson State U.	382	200	62	21	117	378	119	35	8	76	347	81	27	13	41
Pontifical Catholic U. Puerto Rico	382	200	200	0	0	381	118	118	0	0	346	82	82	0	0
Valdosta State U.	384	199	69	0	130	314	169	41	0	128	472	30	28	0	2
West Texas A&M U.	384	199	92	32	75	401	98	35	3	60	311	101	57	29	15
U. La Verne	384	199	199	0	0	406	96	96	0	0	309	103	103	0	0
Montana Tech of U. Montana	387	192	28	61	103	325	160	27	57	76	467	32	1	4	27
U. of the District of Columbia	388	191	136	24	31	347	136	91	16	29	406	55	45	8	2
Keiser U., Fort Lauderdale	389	184	184	0	0	329	157	157	0	0	479	27	27	0	0
Prairie View A&M U.	389	184	101	83	0	387	111	77	34	0	367	73	24	49	0
U. Missouri, Saint Louis	391	182	182	0	0	465	64	64	0	0	287	118	118	0	0
Loyola Marymount U.	392	181	58	110	13	321	163	55	95	13	518	18	3	15	0
Robert Morris U.	392	181	131	0	50	664	0	0	0	0	219	181	131	0	50
C. Charleston	394	180	180	0	0	413	88	88	0	0	326	92	92	0	0
William Paterson U.	395	179	92	0	87	366	128	54	0	74	418	51	38	0	13
Midwestern State U.	395	179	177	2	0	446	72	72	0	0	299	107	105	2	0
U. Tulsa	397	176	88	55	33	309	173	86	54	33	607	3	2	1	0
Chatham U.	397	176	176	0	0	358	131	131	0	0	429	45	45	0	0
Avila U.	399	175	175	0	0	340	145	145	0	0	472	30	30	0	0
Richard Stockton C. New Jersey, The	399	175	111	0	64	386	112	48	0	64	388	63	63	0	0
SUNY, Polytechnic Institute	399	175	170	5	0	458	67	64	3	0	298	108	106	2	0
Princeton U.	402	173	153	20	0	309	173	153	20	0	636	0	0	0	0
Meharry Medical C.	402	173	129	0	44	314	169	129	0	40	597	4	0	0	4
Louisiana Tech U.	402	173	76	38	59	340	145	61	27	57	478	28	15	11	2
U. Houston-Victoria	405	172	172	0	0	417	87	87	0	0	342	85	85	0	0
Southern Arkansas U.	405	172	172	0	0	446	72	72	0	0	312	100	100	0	0
Weber State U.	407	170	66	9	95	378	119	25	6	88	418	51	41	3	7

TABLE 5-4b

Institutional rankings for master's students: 2020

(Number)

Institution	All master's students					Full-time master's students					Part-time master's students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
U. Alaska, Anchorage	408	169	73	28	68	524	43	29	6	8	276	126	44	22	60
Tennessee Technological U.	409	168	91	77	0	465	64	35	29	0	303	104	56	48	0
Florida A&M U.	410	166	154	12	0	378	119	110	9	0	426	47	44	3	0
CUNY, Lehman C.	410	166	63	0	103	417	87	15	0	72	350	79	48	0	31
U. Texas Health Science Center, San Antonio	412	165	59	11	95	350	135	53	0	82	472	30	6	11	13
Fort Hays State U.	412	165	128	0	37	372	123	87	0	36	434	42	41	0	1
La Salle U.	412	165	101	0	64	417	87	35	0	52	353	78	66	0	12
Augusta U.	415	160	105	0	55	407	94	64	0	30	382	66	41	0	25
U. Dallas	416	158	158	0	0	528	41	41	0	0	288	117	117	0	0
Pacific U.	417	157	87	0	70	339	146	77	0	69	552	11	10	0	1
Western New England U.	417	157	121	36	0	664	0	0	0	0	242	157	121	36	0
Howard U.	419	156	104	5	47	376	121	74	5	42	456	35	30	0	5
Arcadia U.	419	156	112	0	44	397	100	60	0	40	404	56	52	0	4
Western Carolina U.	421	155	91	0	64	342	144	80	0	64	552	11	11	0	0
California State U., Dominguez Hills	421	155	155	0	0	428	81	81	0	0	364	74	74	0	0
Radford U.	423	154	88	0	66	355	133	67	0	66	501	21	21	0	0
Morgan State U.	424	152	60	50	42	388	109	52	31	26	431	43	8	19	16
C. of William and Mary	425	150	150	0	0	352	134	134	0	0	526	16	16	0	0
Sul Ross State U.	426	146	113	0	33	539	36	35	0	1	296	110	78	0	32
East Stroudsburg U. Pennsylvania	427	145	34	0	111	377	120	25	0	95	485	25	9	0	16
Worcester State U.	428	143	53	0	90	384	113	48	0	65	472	30	5	0	25
Texas Christian U.	429	142	92	0	50	344	141	91	0	50	624	1	1	0	0
Abilene Christian U.	429	142	30	0	112	350	135	23	0	112	577	7	7	0	0
Commonwealth Medical C.	431	141	141	0	0	346	137	137	0	0	597	4	4	0	0
Hawaii Pacific U.	431	141	119	0	22	401	98	82	0	16	431	43	37	0	6
U. Wisconsin-Stevens Point	433	140	87	0	53	429	80	27	0	53	397	60	60	0	0
U. Indianapolis	433	140	102	0	38	446	72	52	0	20	374	68	50	0	18
Norfolk State U.	435	138	115	23	0	433	77	67	10	0	393	61	48	13	0
Salem State U.	435	138	138	0	0	461	66	66	0	0	369	72	72	0	0
Catholic U. of America	435	138	81	57	0	491	52	26	26	0	337	86	55	31	0
U. Arkansas, Little Rock	438	136	129	2	5	455	68	66	2	0	374	68	63	0	5
U. California, San Francisco	439	135	0	12	123	361	130	0	12	118	589	5	0	0	5
St. Mary's U., San Antonio	439	135	98	37	0	453	69	50	19	0	382	66	48	18	0
SUNY, New Paltz	441	134	64	8	62	393	105	44	3	58	477	29	20	5	4

TABLE 5-4b

Institutional rankings for master's students: 2020

(Number)

Institution	All master's students					Full-time master's students					Part-time master's students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Nicholls State U.	441	134	134	0	0	432	78	78	0	0	404	56	56	0	0
U. Michigan, Flint	441	134	87	1	46	537	38	26	0	12	320	96	61	1	34
Millersville U. Pennsylvania	444	132	132	0	0	485	54	54	0	0	353	78	78	0	0
Iona C.	445	131	76	0	55	384	113	58	0	55	518	18	18	0	0
Texas Southern U.	445	131	128	0	3	425	83	82	0	1	421	48	46	0	2
Quinnipiac U.	447	130	130	0	0	519	44	44	0	0	337	86	86	0	0
Campbell U.	448	129	0	0	129	369	127	0	0	127	613	2	0	0	2
California Lutheran U.	449	126	126	0	0	422	86	86	0	0	441	40	40	0	0
MGH Institute of Health Professions	450	125	0	0	125	370	125	0	0	125	636	0	0	0	0
Florida Gulf Coast U.	450	125	73	18	34	501	50	36	1	13	362	75	37	17	21
Des Moines U., Osteopathic Medical Center	450	125	48	0	77	541	35	34	0	1	328	90	14	0	76
Lincoln Memorial U.	453	123	123	0	0	398	99	99	0	0	488	24	24	0	0
Fordham U.	454	122	122	0	0	412	89	89	0	0	464	33	33	0	0
Wayland Baptist U.	454	122	122	0	0	425	83	83	0	0	446	39	39	0	0
California State U., Monterey Bay	454	122	122	0	0	439	74	74	0	0	421	48	48	0	0
Youngstown State U.	457	120	79	41	0	390	108	69	39	0	544	12	10	2	0
Rush U.	457	120	33	14	73	398	99	33	14	52	501	21	0	0	21
Slippery Rock U. Pennsylvania	457	120	81	0	39	458	67	32	0	35	410	53	49	0	4
Southern U., New Orleans	457	120	120	0	0	501	50	50	0	0	371	70	70	0	0
U. North Alabama	461	119	116	3	0	526	42	42	0	0	356	77	74	3	0
Texas A&M U., San Antonio	462	118	106	0	12	519	44	38	0	6	364	74	68	0	6
Fayetteville State U.	463	117	99	0	18	480	56	41	0	15	393	61	58	0	3
Dominican U. California	464	115	115	0	0	429	80	80	0	0	456	35	35	0	0
William Carey U.	464	115	115	0	0	439	74	74	0	0	437	41	41	0	0
U. Wisconsin-Green Bay	464	115	115	0	0	588	19	19	0	0	320	96	96	0	0
U. Tennessee, Health Science Center	467	114	49	3	62	396	102	37	3	62	544	12	12	0	0
Pittsburg State U.	467	114	90	0	24	409	93	79	0	14	501	21	11	0	10
Cameron U.	467	114	114	0	0	477	57	57	0	0	403	57	57	0	0
Northern Michigan U.	470	113	80	0	33	439	74	58	0	16	446	39	22	0	17
American International C.	471	108	108	0	0	407	94	94	0	0	533	14	14	0	0
CUNY, C. Staten Island	471	108	97	11	0	607	14	14	0	0	324	94	83	11	0
Morehouse School of Medicine	473	107	51	0	56	401	98	50	0	48	564	9	1	0	8
Clarion U. Pennsylvania	473	107	16	0	91	443	73	0	0	73	459	34	16	0	18
SUNY, Oswego	473	107	44	0	63	519	44	32	0	12	388	63	12	0	51

TABLE 5-4b

Institutional rankings for master's students: 2020

(Number)

Institution	All master's students					Full-time master's students					Part-time master's students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Oregon Health and Science U.	476	106	51	14	41	499	51	29	4	18	406	55	22	10	23
Texas A&M International U.	477	105	105	0	0	554	30	30	0	0	362	75	75	0	0
Marywood U.	478	104	80	0	24	405	97	73	0	24	577	7	7	0	0
Indiana Institute of Technology	478	104	104	0	0	452	70	70	0	0	459	34	34	0	0
Monmouth U.	478	104	89	15	0	530	40	35	5	0	385	64	54	10	0
U. Texas, Permian Basin	481	103	81	7	15	499	51	40	6	5	413	52	41	1	10
SUNY, Buffalo State	481	103	91	12	0	532	39	38	1	0	385	64	53	11	0
U. Wisconsin-Oshkosh	481	103	103	0	0	607	14	14	0	0	332	89	89	0	0
Shippensburg U. Pennsylvania	484	101	101	0	0	504	49	49	0	0	413	52	52	0	0
Creighton U.	485	100	17	0	83	491	52	15	0	37	421	48	2	0	46
Framingham State C.	486	98	98	0	0	613	12	12	0	0	337	86	86	0	0
California State U., Bakersfield	487	97	97	0	0	436	75	75	0	0	495	22	22	0	0
U. Hawaii, Hilo	488	96	96	0	0	485	54	54	0	0	434	42	42	0	0
Frostburg State U.	488	96	96	0	0	507	48	48	0	0	421	48	48	0	0
Texas A&M U.-Central Texas	488	96	96	0	0	647	4	4	0	0	326	92	92	0	0
Jacksonville State U.	491	95	95	0	0	485	54	54	0	0	437	41	41	0	0
Sonoma State U.	492	93	93	0	0	436	75	75	0	0	518	18	18	0	0
Western State Colorado U.	492	93	93	0	0	446	72	72	0	0	501	21	21	0	0
Uniformed Services U. of the Health Sciences	492	93	19	0	74	458	67	19	0	48	482	26	0	0	26
Tiffin U.	492	93	93	0	0	483	55	55	0	0	449	38	38	0	0
Mississippi U. for Women	496	92	8	0	84	446	72	2	0	70	510	20	6	0	14
Metropolitan State U.	496	92	86	0	6	603	15	9	0	6	356	77	77	0	0
Oklahoma Christian U.	498	91	0	91	0	532	39	0	39	0	413	52	0	52	0
Bastyr U.	499	90	90	0	0	431	79	79	0	0	552	11	11	0	0
Fitchburg State U.	499	90	90	0	0	455	68	68	0	0	495	22	22	0	0
Niagara U.	499	90	90	0	0	477	57	57	0	0	464	33	33	0	0
Aurora U.	499	90	43	0	47	501	50	22	0	28	441	40	21	0	19
Inter American U. Puerto Rico, San German	499	90	90	0	0	607	14	14	0	0	360	76	76	0	0
Molloy C.	504	89	16	0	73	424	84	11	0	73	589	5	5	0	0
Emory U.	504	89	47	0	42	464	65	45	0	20	488	24	2	0	22
Tuskegee U.	506	88	65	14	9	434	76	53	14	9	544	12	12	0	0
Southern Nazarene U.	507	87	87	0	0	417	87	87	0	0	636	0	0	0	0
Salus U.	508	86	0	0	86	423	85	0	0	85	624	1	0	0	1
Bridgewater State U.	509	83	83	0	0	507	48	48	0	0	456	35	35	0	0

TABLE 5-4b

Institutional rankings for master's students: 2020

(Number)

Institution	All master's students					Full-time master's students					Part-time master's students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Canisius C.	510	82	67	0	15	560	29	19	0	10	410	53	48	0	5
U. Guam	510	82	82	0	0	572	24	24	0	0	399	58	58	0	0
U. of the Incarnate Word	512	81	69	0	12	439	74	63	0	11	577	7	6	0	1
Alcorn State U.	512	81	81	0	0	524	43	43	0	0	449	38	38	0	0
Valparaiso U.	514	80	80	0	0	455	68	68	0	0	544	12	12	0	0
Evergreen State C.	514	80	80	0	0	532	39	39	0	0	437	41	41	0	0
LeTourneau U.	514	80	70	10	0	598	16	9	7	0	385	64	61	3	0
Vanguard U. of Southern California	517	79	79	0	0	434	76	76	0	0	607	3	3	0	0
Lindenwood U.	518	78	39	0	39	451	71	37	0	34	577	7	2	0	5
Bradley U.	519	77	34	43	0	489	53	27	26	0	488	24	7	17	0
Gannon U.	519	77	39	38	0	510	47	22	25	0	472	30	17	13	0
Southeast Missouri State U.	519	77	77	0	0	528	41	41	0	0	454	36	36	0	0
U. Maryland, Eastern Shore	519	77	77	0	0	539	36	36	0	0	437	41	41	0	0
Medical U. South Carolina	523	76	44	0	32	504	49	43	0	6	479	27	1	0	26
Charles R. Drew U. of Medicine and Science	524	75	34	0	41	443	73	33	0	40	613	2	1	0	1
SUNY, C. Cortland	525	74	3	0	71	491	52	3	0	49	495	22	0	0	22
Minnesota State U., Moorhead	526	73	26	0	47	467	63	16	0	47	562	10	10	0	0
New Mexico Highlands U.	526	73	73	0	0	510	47	47	0	0	482	26	26	0	0
SUNY, C. Brockport	526	73	58	0	15	544	33	25	0	8	441	40	33	0	7
Florida Polytechnic U.	529	72	44	28	0	467	63	38	25	0	564	9	6	3	0
Cooper Union for the Advancement of Science and Art	529	72	0	72	0	560	29	0	29	0	431	43	0	43	0
Bloomsburg U. Pennsylvania	531	71	9	0	62	467	63	1	0	62	571	8	8	0	0
U. Nebraska, Medical Center	532	69	69	0	0	491	52	52	0	0	522	17	17	0	0
South Carolina State U.	533	68	0	0	68	477	57	0	0	57	552	11	0	0	11
Hampton U.	534	67	44	0	23	476	58	35	0	23	564	9	9	0	0
Mercyhurst U.	534	67	67	0	0	504	49	49	0	0	518	18	18	0	0
Edinboro U. Pennsylvania	534	67	26	0	41	514	46	5	0	41	501	21	21	0	0
Georgia C. and State U.	534	67	21	0	46	544	33	17	0	16	459	34	4	0	30
Mayo Clinic, Mayo Graduate School	534	67	58	4	5	664	0	0	0	0	379	67	58	4	5
SUNY, Fredonia	539	66	20	0	46	472	62	16	0	46	597	4	4	0	0
U. West Alabama	539	66	66	0	0	480	56	56	0	0	562	10	10	0	0
Springfield C.	539	66	59	0	7	491	52	46	0	6	533	14	13	0	1
Duquesne U.	539	66	52	0	14	514	46	32	0	14	510	20	20	0	0
Virginia State U.	543	65	65	0	0	491	52	52	0	0	541	13	13	0	0

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Institutional rankings for master's students: 2020

(Number)

Institution	All master's students					Full-time master's students					Part-time master's students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Clark Atlanta U.	543	65	65	0	0	519	44	44	0	0	501	21	21	0	0
Fort Valley State U.	543	65	20	0	45	526	42	18	0	24	492	23	2	0	21
Oregon Institute of Technology	546	64	18	46	0	572	24	7	17	0	441	40	11	29	0
U. of Saint Mary	547	62	62	0	0	480	56	56	0	0	584	6	6	0	0
U. Wisconsin-Whitewater	547	62	35	0	27	483	55	28	0	27	577	7	7	0	0
Delaware State U.	549	61	53	0	8	491	52	44	0	8	564	9	9	0	0
California U. of Science and Medicine	550	60	60	0	0	473	60	60	0	0	636	0	0	0	0
U. Arkansas, Pine Bluff	550	60	60	0	0	507	48	48	0	0	544	12	12	0	0
U. Montevallo	552	59	0	0	59	475	59	0	0	59	636	0	0	0	0
U. Texas Medical Branch	552	59	59	0	0	564	28	28	0	0	470	31	31	0	0
U. Pennsylvania	554	58	58	0	0	489	53	53	0	0	589	5	5	0	0
Medical C. Wisconsin	554	58	11	0	47	581	21	11	0	10	452	37	0	0	37
DeSales U.	556	56	54	0	2	578	22	21	0	1	459	34	33	0	1
Western U. of Health Sciences	557	54	40	0	14	547	32	22	0	10	495	22	18	0	4
Roger Williams U.	557	54	54	0	0	549	31	31	0	0	492	23	23	0	0
Arkansas Tech U.	557	54	44	10	0	578	22	15	7	0	467	32	29	3	0
Kettering U.	557	54	0	54	0	594	17	0	17	0	452	37	0	37	0
Suffolk U.	561	53	45	0	8	549	31	31	0	0	495	22	14	0	8
Coastal Carolina U.	562	52	52	0	0	560	29	29	0	0	492	23	23	0	0
Palo Alto U.	562	52	52	0	0	664	0	0	0	0	413	52	52	0	0
Oklahoma City U.	564	51	51	0	0	549	31	31	0	0	510	20	20	0	0
Kentucky State U.	564	51	51	0	0	567	27	27	0	0	488	24	24	0	0
Gonzaga U.	566	49	32	17	0	572	24	24	0	0	485	25	8	17	0
Winthrop U.	567	48	48	0	0	514	46	46	0	0	613	2	2	0	0
St. Thomas U.	567	48	37	0	11	519	44	33	0	11	597	4	4	0	0
Longwood U.	569	47	0	0	47	510	47	0	0	47	636	0	0	0	0
Bard C.	569	47	47	0	0	514	46	46	0	0	624	1	1	0	0
U. del Turabo	569	47	30	17	0	554	30	20	10	0	522	17	10	7	0
Albert Einstein C. of Medicine	572	46	0	0	46	514	46	0	0	46	636	0	0	0	0
U. of the Virgin Islands	572	46	46	0	0	530	40	40	0	0	584	6	6	0	0
John Carroll U.	572	46	46	0	0	542	34	34	0	0	544	12	12	0	0
Cedars-Sinai Medical Center	575	42	42	0	0	635	6	6	0	0	454	36	36	0	0
Calvin C.	576	41	0	0	41	532	39	0	0	39	613	2	0	0	2
SUNY, C. Plattsburgh	576	41	41	0	0	554	30	30	0	0	552	11	11	0	0

TABLE 5-4b

Institutional rankings for master's students: 2020

(Number)

Institution	All master's students					Full-time master's students					Part-time master's students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Xavier U.	576	41	41	0	0	560	29	29	0	0	544	12	12	0	0
Christopher Newport U.	576	41	41	0	0	588	19	19	0	0	495	22	22	0	0
U. Texas Health Science Center, Tyler	580	40	10	0	30	568	26	10	0	16	533	14	0	0	14
Wesleyan U.	581	39	39	0	0	532	39	39	0	0	636	0	0	0	0
Truman State U.	581	39	0	0	39	538	37	0	0	37	613	2	0	0	2
U. of Mary Hardin Baylor	581	39	39	0	0	544	33	33	0	0	584	6	6	0	0
Loras C.	581	39	39	0	0	549	31	31	0	0	571	8	8	0	0
Ithaca C.	585	38	38	0	0	572	24	24	0	0	533	14	14	0	0
Caldwell U.	585	38	38	0	0	664	0	0	0	0	449	38	38	0	0
Mills C.	587	37	37	0	0	576	23	23	0	0	533	14	14	0	0
Kutztown U. Pennsylvania	588	35	35	0	0	581	21	21	0	0	533	14	14	0	0
Smith C.	588	35	11	0	24	585	20	0	0	20	529	15	11	0	4
Pacific States U.	590	34	34	0	0	542	34	34	0	0	636	0	0	0	0
U. California, Merced	590	34	11	23	0	547	32	11	21	0	613	2	0	2	0
Northeastern Ohio Universities, C. of Medicine	590	34	15	0	19	554	30	15	0	15	597	4	0	0	4
Morehead State U.	590	34	34	0	0	588	19	19	0	0	529	15	15	0	0
Bethune-Cookman U.	594	33	25	0	8	554	30	22	0	8	607	3	3	0	0
Saint Martin's U.	594	33	15	18	0	564	28	14	14	0	589	5	1	4	0
Andrews U.	594	33	33	0	0	570	25	25	0	0	571	8	8	0	0
Fielding Graduate U.	597	32	32	0	0	613	12	12	0	0	510	20	20	0	0
Fisk U.	598	31	31	0	0	554	30	30	0	0	624	1	1	0	0
Lincoln U., Jefferson City	598	31	31	0	0	617	11	11	0	0	510	20	20	0	0
Widener U.	600	30	0	30	0	578	22	0	22	0	571	8	0	8	0
Bowie State U.	600	30	30	0	0	598	16	16	0	0	533	14	14	0	0
Coppin State U.	600	30	30	0	0	625	9	9	0	0	501	21	21	0	0
Georgia Southwestern State U.	603	29	29	0	0	625	9	9	0	0	510	20	20	0	0
Salisbury U.	603	29	29	0	0	625	9	9	0	0	510	20	20	0	0
Furman U.	605	28	8	0	20	564	28	8	0	20	636	0	0	0	0
U. Southern Maine	605	28	28	0	0	655	2	2	0	0	482	26	26	0	0
Bemidji State U.	605	28	28	0	0	658	1	1	0	0	479	27	27	0	0
Savannah State U.	608	27	27	0	0	568	26	26	0	0	624	1	1	0	0
U. South Carolina, Aiken	608	27	27	0	0	585	20	20	0	0	577	7	7	0	0
Alaska Pacific U.	608	27	27	0	0	613	12	12	0	0	529	15	15	0	0
Point Loma Nazarene U.	608	27	27	0	0	630	8	8	0	0	517	19	19	0	0

TABLE 5-4b

Institutional rankings for master's students: 2020

(Number)

Institution	All master's students					Full-time master's students					Part-time master's students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Colorado State U., Pueblo	612	26	19	7	0	594	17	13	4	0	564	9	6	3	0
Gallaudet U.	613	25	0	0	25	570	25	0	0	25	636	0	0	0	0
Elizabeth City State U.	613	25	25	0	0	594	17	17	0	0	571	8	8	0	0
Alfred U.	613	25	0	25	0	607	14	0	14	0	552	11	0	11	0
Bucknell U.	616	23	16	7	0	576	23	16	7	0	636	0	0	0	0
Northwestern Polytechnic U.	617	22	21	1	0	598	16	16	0	0	584	6	5	1	0
Milwaukee School of Engineering	617	22	0	22	0	639	5	0	5	0	522	17	0	17	0
New England C. of Optometry	619	21	21	0	0	581	21	21	0	0	636	0	0	0	0
San Juan Bautista School of Medicine	619	21	0	0	21	581	21	0	0	21	636	0	0	0	0
Northwestern State U. Louisiana	619	21	21	0	0	588	19	19	0	0	613	2	2	0	0
West Virginia State U.	622	20	20	0	0	585	20	20	0	0	636	0	0	0	0
U. Wisconsin-Parkside	622	20	20	0	0	634	7	7	0	0	541	13	13	0	0
Claflin U.	624	19	19	0	0	588	19	19	0	0	636	0	0	0	0
Southern Oregon U.	624	19	19	0	0	588	19	19	0	0	636	0	0	0	0
Mississippi Valley State U.	624	19	11	0	8	603	15	10	0	5	597	4	1	0	3
Delta State U.	624	19	19	0	0	617	11	11	0	0	571	8	8	0	0
Drew U.	624	19	11	0	8	630	8	6	0	2	552	11	5	0	6
Montana State U., Billings	629	18	18	0	0	603	15	15	0	0	607	3	3	0	0
California State U., Stanislaus	629	18	18	0	0	639	5	5	0	0	541	13	13	0	0
U. Arkansas, Monticello	629	18	18	0	0	658	1	1	0	0	522	17	17	0	0
California Institute of Technology	632	17	0	17	0	594	17	0	17	0	636	0	0	0	0
Pontifical Catholic U. Puerto Rico, Mayaguez	632	17	17	0	0	611	13	13	0	0	597	4	4	0	0
Albany Medical C.	634	16	16	0	0	598	16	16	0	0	636	0	0	0	0
Baylor C. of Medicine	634	16	0	0	16	598	16	0	0	16	636	0	0	0	0
Alabama State U.	634	16	16	0	0	617	11	11	0	0	589	5	5	0	0
Yeshiva U.	634	16	16	0	0	639	5	5	0	0	552	11	11	0	0
American Museum of Natural History	638	15	15	0	0	603	15	15	0	0	636	0	0	0	0
Wilkes U.	638	15	4	11	0	622	10	1	9	0	589	5	3	2	0
Rhode Island C.	638	15	15	0	0	647	4	4	0	0	552	11	11	0	0
Inter American U. Puerto Rico, Fajardo	638	15	15	0	0	664	0	0	0	0	529	15	15	0	0
U. Portland	642	14	0	14	0	617	11	0	11	0	607	3	0	3	0
U. of Saint Francis, Fort Wayne	642	14	14	0	0	617	11	11	0	0	607	3	3	0	0
Oklahoma State U., Center for Health Sciences	642	14	14	0	0	625	9	9	0	0	589	5	5	0	0
U.S. Merchant Marine Academy	642	14	0	14	0	664	0	0	0	0	533	14	0	14	0

TABLE 5-4b

Institutional rankings for master's students: 2020

(Number)

Institution	All master's students					Full-time master's students					Part-time master's students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Rockefeller U.	646	13	13	0	0	611	13	13	0	0	636	0	0	0	0
Endicott C.	646	13	13	0	0	625	9	9	0	0	597	4	4	0	0
Albany C. of Pharmacy and Health Sciences	648	12	6	0	6	613	12	6	0	6	636	0	0	0	0
Tougaloo C.	648	12	12	0	0	630	8	8	0	0	597	4	4	0	0
Marshall B. Ketchum U.	650	11	11	0	0	622	10	10	0	0	624	1	1	0	0
Wagner C.	650	11	11	0	0	635	6	6	0	0	589	5	5	0	0
SUNY, C. of Optometry	650	11	11	0	0	664	0	0	0	0	552	11	11	0	0
U. Massachusetts, Medical School	653	10	10	0	0	622	10	10	0	0	636	0	0	0	0
Rose-Hulman Institute of Technology	653	10	0	10	0	647	4	0	4	0	584	6	0	6	0
Walla Walla U.	655	9	9	0	0	639	5	5	0	0	597	4	4	0	0
Memorial Sloan Kettering Cancer Center	655	9	9	0	0	664	0	0	0	0	564	9	9	0	0
Alderson-Broaddus U.	657	7	7	0	0	635	6	6	0	0	624	1	1	0	0
Missouri Western State U.	657	7	7	0	0	639	5	5	0	0	613	2	2	0	0
Western Connecticut State U.	657	7	7	0	0	664	0	0	0	0	577	7	7	0	0
St. Francis C.	660	6	6	0	0	635	6	6	0	0	636	0	0	0	0
Point Park U.	661	5	5	0	0	639	5	5	0	0	636	0	0	0	0
Sitting Bull C.	661	5	5	0	0	639	5	5	0	0	636	0	0	0	0
SUNY, Oneonta	661	5	5	0	0	647	4	4	0	0	624	1	1	0	0
Winston-Salem State U.	661	5	5	0	0	647	4	4	0	0	624	1	1	0	0
Black Hills State U.	665	4	4	0	0	647	4	4	0	0	636	0	0	0	0
Vermont Technical C.	665	4	0	4	0	655	2	0	2	0	613	2	0	2	0
Marietta C.	667	3	3	0	0	653	3	3	0	0	636	0	0	0	0
SUNY, Upstate Medical U.	667	3	3	0	0	653	3	3	0	0	636	0	0	0	0
Cabrini U.	667	3	3	0	0	658	1	1	0	0	613	2	2	0	0
U. Texas Southwestern Medical Center	670	2	2	0	0	655	2	2	0	0	636	0	0	0	0
North Central C.	670	2	2	0	0	664	0	0	0	0	613	2	2	0	0
Bryn Mawr C.	672	1	1	0	0	658	1	1	0	0	636	0	0	0	0
Butler U.	672	1	0	0	1	658	1	0	0	1	636	0	0	0	0
U. Central del Caribe	672	1	1	0	0	658	1	1	0	0	636	0	0	0	0
Goucher C.	672	1	1	0	0	664	0	0	0	0	624	1	1	0	0

[a] Totals for "all institutions" include data imputed for nonresponding institutions; data imputed for nonresponding institutions are not shown separately.

Note(s):
Sorted by overall number of master's students. Tied institutions are ranked first by number of doctoral students and then alphabetically. 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.

TABLE 5-4c

Institutional rankings for doctoral students: 2020

(Number)

Institution	All doctoral students					Full-time doctoral students					Part-time doctoral students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
All institutions[a]	-	283,335	196,742	71,279	15,314	-	247,656	175,039	62,061	10,556	-	35,679	21,703	9,218	4,758
U. Michigan	1	4,604	2,697	1,701	206	1	4,555	2,690	1,669	196	164	49	7	32	10
U. Illinois, Urbana-Champaign	2	4,335	2,691	1,555	89	2	4,230	2,629	1,517	84	105	105	62	38	5
Texas A&M U.	3	4,169	2,386	1,668	115	5	3,708	2,113	1,496	99	14	461	273	172	16
U. California, Berkeley	4	4,151	3,100	1,027	24	3	4,151	3,100	1,027	24	341	0	0	0	0
Purdue U.	5	4,010	1,806	2,015	189	20	3,134	1,555	1,403	176	4	876	251	612	13
Stanford U.	6	4,001	2,520	1,425	56	4	3,986	2,512	1,418	56	259	15	8	7	0
U. Wisconsin-Madison	7	3,923	2,844	799	280	7	3,515	2,518	760	237	15	408	326	39	43
Pennsylvania State U.	8	3,669	2,402	1,159	108	8	3,512	2,300	1,123	89	67	157	102	36	19
U. California, Los Angeles	9	3,667	2,586	905	176	6	3,667	2,586	905	176	341	0	0	0	0
U. Texas, Austin	10	3,646	2,086	1,393	167	13	3,388	1,977	1,264	147	37	258	109	129	20
U. Washington	11	3,644	2,508	785	351	11	3,435	2,399	724	312	48	209	109	61	39
Massachusetts Institute of Technology	12	3,516	1,970	1,546	0	9	3,507	1,968	1,539	0	284	9	2	7	0
Cornell U.	13	3,500	2,676	824	0	10	3,500	2,676	824	0	341	0	0	0	0
Ohio State U.	14	3,489	2,282	1,016	191	12	3,418	2,259	982	177	139	71	23	34	14
U. Maryland, College Park	15	3,474	2,398	819	257	17	3,210	2,260	734	216	35	264	138	85	41
U. Colorado	16	3,445	2,349	953	143	21	3,093	2,162	818	113	23	352	187	135	30
U. Minnesota	17	3,431	2,382	828	221	16	3,271	2,281	783	207	66	160	101	45	14
Georgia Institute of Technology	18	3,380	1,194	2,186	0	18	3,158	1,122	2,036	0	46	222	72	150	0
Harvard U.	19	3,332	2,954	281	97	14	3,330	2,952	281	97	320	2	2	0	0
U. California, Davis	20	3,318	2,669	608	41	15	3,288	2,652	596	40	205	30	17	12	1
U. California, San Diego	21	3,194	2,244	950	0	19	3,138	2,222	916	0	154	56	22	34	0
Johns Hopkins U.	22	3,188	1,970	798	420	23	2,717	1,756	791	170	12	471	214	7	250
U. Florida	23	3,078	2,066	842	170	22	2,851	1,915	768	168	45	227	151	74	2
Arizona State U.	24	2,951	1,935	963	53	34	2,154	1,373	750	31	5	797	562	213	22
North Carolina State U.	25	2,795	1,571	1,224	0	24	2,595	1,480	1,115	0	54	200	91	109	0
U. California, Irvine	26	2,596	1,866	631	99	25	2,580	1,852	629	99	257	16	14	2	0
U. Southern California	27	2,554	1,658	704	192	27	2,531	1,650	692	189	230	23	8	12	3
Northwestern U.	28	2,553	1,629	856	68	26	2,539	1,619	852	68	261	14	10	4	0
U. Pennsylvania	29	2,501	1,949	552	0	28	2,463	1,935	528	0	178	38	14	24	0
Rutgers, State U. New Jersey	30	2,492	2,074	357	61	40	1,989	1,646	305	38	10	503	428	52	23
Columbia U. in the City of New York	31	2,482	1,805	611	66	30	2,426	1,767	604	55	154	56	38	7	11
U. North Carolina, Chapel Hill	32	2,473	2,122	98	253	29	2,439	2,096	97	246	188	34	26	1	7
Michigan State U.	33	2,444	1,971	406	67	31	2,373	1,912	396	65	139	71	59	10	2

TABLE 5-4c

Institutional rankings for doctoral students: 2020

(Number)

Institution	All doctoral students					Full-time doctoral students					Part-time doctoral students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Indiana U.	34	2,418	2,119	153	146	38	2,049	1,881	76	92	21	369	238	77	54
Virginia Polytechnic Institute and State U.	35	2,375	1,253	1,122	0	35	2,127	1,120	1,007	0	40	248	133	115	0
U. Chicago	36	2,362	2,159	203	0	32	2,362	2,159	203	0	341	0	0	0	0
U. Pittsburgh	37	2,271	1,526	528	217	33	2,182	1,483	507	192	116	89	43	21	25
Princeton U.	38	2,123	1,433	690	0	36	2,123	1,433	690	0	341	0	0	0	0
U. Arizona	39	2,122	1,623	308	191	47	1,714	1,310	250	154	15	408	313	58	37
Duke U.	40	2,107	1,478	580	49	37	2,107	1,478	580	49	341	0	0	0	0
Boston U.	41	2,096	1,429	517	150	39	2,040	1,406	516	118	154	56	23	1	32
New York U.	42	2,065	1,686	281	98	41	1,938	1,604	262	72	82	127	82	19	26
U. Massachusetts, Amherst	43	1,966	1,501	400	65	46	1,719	1,315	353	51	41	247	186	47	14
U. Utah	44	1,941	1,203	555	183	54	1,543	960	450	133	19	398	243	105	50
Carnegie Mellon U.	45	1,929	1,029	900	0	42	1,900	1,016	884	0	208	29	13	16	0
U. Connecticut	46	1,910	1,266	524	120	49	1,705	1,133	467	105	51	205	133	57	15
Iowa State U.	47	1,902	1,272	612	18	63	1,296	883	402	11	7	606	389	210	7
Yale U.	48	1,899	1,683	113	103	43	1,886	1,672	112	102	268	13	11	1	1
U. Illinois, Chicago	49	1,888	1,163	396	329	55	1,484	935	358	191	18	404	228	38	138
U. Georgia	50	1,836	1,585	96	155	45	1,731	1,497	92	142	105	105	88	4	13
U. California, Riverside	51	1,808	1,420	388	0	44	1,807	1,419	388	0	333	1	1	0	0
U. Tennessee, Knoxville	52	1,800	1,061	671	68	86	870	544	289	37	3	930	517	382	31
SUNY, Stony Brook U.	53	1,755	1,427	301	27	50	1,704	1,407	279	18	160	51	20	22	9
U. Virginia	54	1,735	1,070	635	30	48	1,708	1,060	625	23	217	27	10	10	7
U. California, Santa Barbara	55	1,700	1,345	355	0	51	1,700	1,345	355	0	341	0	0	0	0
Washington U., Saint Louis	56	1,660	1,218	411	31	52	1,653	1,218	404	31	294	7	0	7	0
U. Houston	57	1,654	1,027	526	101	59	1,411	859	466	86	42	243	168	60	15
Vanderbilt U.	58	1,610	1,204	355	51	53	1,594	1,197	349	48	257	16	7	6	3
SUNY, U. Buffalo	59	1,580	1,052	384	144	109	619	447	126	46	2	961	605	258	98
Colorado State U., Fort Collins	60	1,560	1,111	422	27	123	536	434	86	16	1	1,024	677	336	11
Florida State U.	61	1,547	1,353	180	14	57	1,419	1,249	156	14	80	128	104	24	0
U. South Florida, Tampa	62	1,528	885	417	226	71	1,220	751	363	106	29	308	134	54	120
U. Delaware	63	1,514	1,000	503	11	56	1,482	985	486	11	195	32	15	17	0
U. Central Florida	64	1,477	811	625	41	62	1,307	735	549	23	59	170	76	76	18
Texas Tech U.	65	1,466	985	429	52	72	1,207	844	321	42	36	259	141	108	10
Northeastern U.	66	1,440	717	667	56	58	1,414	712	649	53	221	26	5	18	3
Louisiana State U.	67	1,435	1,061	310	64	68	1,273	948	265	60	62	162	113	45	4

TABLE 5-4c

Institutional rankings for doctoral students: 2020

(Number)

Institution	All doctoral students					Full-time doctoral students					Part-time doctoral students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Oregon State U.	68	1,412	911	382	119	65	1,286	839	335	112	84	126	72	47	7
U. Iowa	69	1,400	1,045	195	160	74	1,192	901	168	123	50	208	144	27	37
George Mason U.	70	1,394	1,203	172	19	84	911	768	134	9	11	483	435	38	10
U. Notre Dame	71	1,387	841	546	0	60	1,375	834	541	0	273	12	7	5	0
U. Kentucky	72	1,365	989	239	137	64	1,290	956	225	109	134	75	33	14	28
California Institute of Technology	73	1,322	790	532	0	61	1,322	790	532	0	341	0	0	0	0
Clemson U.	74	1,320	727	562	31	73	1,200	650	525	25	89	120	77	37	6
U. Kansas	75	1,315	1,018	177	120	69	1,241	969	169	103	137	74	49	8	17
U. Rochester	76	1,288	1,047	226	15	67	1,274	1,035	226	13	261	14	12	0	2
Washington State U.	77	1,287	917	315	55	75	1,163	843	279	41	86	124	74	36	14
Brown U.	78	1,282	1,086	154	42	66	1,279	1,085	153	41	317	3	1	1	1
U. Cincinnati	79	1,277	697	374	206	80	1,019	607	269	143	37	258	90	105	63
Emory U.	80	1,250	1,063	120	67	70	1,224	1,062	96	66	221	26	1	24	1
U. Texas, Dallas	81	1,243	745	471	27	77	1,123	674	423	26	89	120	71	48	1
U. Nebraska-Lincoln	82	1,222	946	276	0	78	1,079	829	250	0	70	143	117	26	0
U. New Mexico	83	1,174	814	245	115	114	582	419	91	72	8	592	395	154	43
U. Missouri, Columbia	84	1,158	862	200	96	93	837	684	101	52	26	321	178	99	44
Liberty U.	85	1,157	1,143	14	0	91	858	844	14	0	30	299	299	0	0
Auburn U.	86	1,156	562	594	0	98	748	330	418	0	15	408	232	176	0
Rice U.	87	1,147	586	561	0	76	1,143	583	560	0	310	4	3	1	0
U. South Carolina	88	1,101	689	249	163	81	980	629	220	131	87	121	60	29	32
Florida International U.	89	1,081	750	253	78	79	1,025	714	241	70	154	56	36	12	8
George Washington U.	90	1,078	698	244	136	128	506	364	95	47	9	572	334	149	89
U. Oklahoma	91	1,068	761	229	78	83	915	664	190	61	68	153	97	39	17
SUNY, Binghamton U.	92	1,032	693	309	30	101	745	495	238	12	33	287	198	71	18
Wayne State U.	93	1,025	716	202	107	82	921	665	176	80	107	104	51	26	27
Georgia State U.	94	999	860	0	139	85	879	792	0	87	89	120	68	0	52
West Virginia U.	94	999	664	211	124	87	868	586	180	102	76	131	78	31	22
Virginia Commonwealth U.	96	941	480	207	254	96	807	428	186	193	74	134	52	21	61
U. Texas, Arlington	97	932	479	400	53	114	582	278	284	20	24	350	201	116	33
SUNY, U. Albany	98	921	860	23	38	135	453	418	21	14	13	468	442	2	24
Syracuse U.	99	901	713	185	3	94	835	667	165	3	143	66	46	20	0
Temple U.	100	900	759	102	39	88	864	729	96	39	183	36	30	6	0
U. North Texas, Denton	101	893	775	118	0	124	533	464	69	0	22	360	311	49	0

TABLE 5-4c

Institutional rankings for doctoral students: 2020

(Number)

Institution	All doctoral students					Full-time doctoral students					Part-time doctoral students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Case Western Reserve U.	102	884	496	354	34	92	850	479	338	33	188	34	17	16	1
Mississippi State U.	103	879	522	339	18	118	569	386	171	12	28	310	136	168	6
U. Miami	104	876	707	124	45	90	862	695	123	44	261	14	12	1	1
U. California, San Francisco	105	864	703	86	75	88	864	703	86	75	341	0	0	0	0
U. Texas Health Science Center, Houston	106	856	682	38	136	112	590	493	36	61	34	266	189	2	75
U. Oregon	107	850	843	0	7	95	822	817	0	5	213	28	26	0	2
U. Alabama, Tuscaloosa	108	844	540	274	30	98	748	495	234	19	111	96	45	40	11
U. Arkansas, Fayetteville	108	844	521	301	22	188	225	139	68	18	6	619	382	233	4
U. Alabama, Birmingham	110	842	682	99	61	104	712	614	64	34	78	130	68	35	27
U. Hawaii, Manoa	111	841	719	95	27	97	756	649	89	18	120	85	70	6	9
Oklahoma State U.	112	806	626	180	0	110	597	455	142	0	48	209	171	38	0
Kansas State U.	113	800	656	143	1	105	700	570	129	1	109	100	86	14	0
U. Wisconsin-Milwaukee	114	790	482	155	153	102	729	467	139	123	147	61	15	16	30
Tulane U.	115	768	627	77	64	98	748	612	77	59	243	20	15	0	5
U. Nevada, Reno	116	763	541	205	17	106	697	496	184	17	143	66	45	21	0
Drexel U.	117	752	424	295	33	107	671	379	267	25	124	81	45	28	8
Tufts U.	118	731	532	159	40	103	714	521	153	40	254	17	11	6	0
Claremont Graduate U.	119	721	637	0	84	127	516	456	0	60	51	205	181	0	24
U. Nevada, Las Vegas	120	709	551	93	65	126	519	423	71	25	56	190	128	22	40
U. Maryland, Baltimore County	121	685	553	132	0	119	559	446	113	0	84	126	107	19	0
U. Louisville	122	665	399	161	105	113	583	355	149	79	123	82	44	12	26
Dartmouth C.	123	661	531	124	6	108	661	531	124	6	341	0	0	0	0
Lehigh U.	124	647	306	341	0	110	597	280	317	0	162	50	26	24	0
U. North Carolina, Charlotte	125	633	420	174	39	132	471	315	134	22	62	162	105	40	17
U. Texas, San Antonio	126	632	390	235	7	148	383	251	131	1	39	249	139	104	6
Colorado School of Mines	127	607	178	429	0	120	556	165	391	0	160	51	13	38	0
U. Massachusetts, Boston	128	597	499	0	98	143	401	359	0	42	55	196	140	0	56
Georgetown U.	129	593	589	0	4	116	579	575	0	4	261	14	14	0	0
Fielding Graduate U.	130	592	592	0	0	128	506	506	0	0	117	86	86	0	0
Old Dominion U.	130	592	340	218	34	181	256	175	64	17	25	336	165	154	17
Kent State U.	132	590	520	0	70	120	556	498	0	58	188	34	22	0	12
U. California, Merced	133	580	410	141	29	117	578	408	141	29	320	2	2	0	0
Missouri U. of Science and Technology	134	576	157	419	0	138	433	131	302	0	70	143	26	117	0
Baylor U.	135	559	484	60	15	125	522	454	55	13	181	37	30	5	2

TABLE 5-4c

Institutional rankings for doctoral students: 2020

(Number)

Institution	All doctoral students					Full-time doctoral students					Part-time doctoral students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Baylor C. of Medicine	136	552	550	0	2	122	552	550	0	2	341	0	0	0	0
U. Massachusetts, Lowell	137	534	233	256	45	153	366	175	176	15	61	168	58	80	30
U. Texas, El Paso	138	507	284	194	29	165	322	195	115	12	57	185	89	79	17
U. Memphis	139	497	366	106	25	167	296	227	52	17	53	201	139	54	8
North Dakota State U.	140	494	342	130	22	174	284	207	63	14	47	210	135	67	8
U. Mississippi	141	492	319	41	132	133	463	302	37	124	208	29	17	4	8
U. Texas Southwestern Medical Center	142	491	440	51	0	130	489	438	51	0	320	2	2	0	0
Boston C.	143	485	464	0	21	131	479	461	0	18	296	6	3	0	3
New Jersey Institute of Technology	144	478	245	233	0	142	403	211	192	0	134	75	34	41	0
Howard U.	144	478	410	34	34	160	335	281	29	25	70	143	129	5	9
U. Toledo	146	474	310	102	62	156	346	231	67	48	80	128	79	35	14
U. Wyoming	147	472	352	120	0	150	377	289	88	0	112	95	63	32	0
Utah State U.	148	471	366	105	0	211	155	122	33	0	27	316	244	72	0
U. New Hampshire	149	469	377	92	0	136	452	365	87	0	254	17	12	5	0
Michigan Technological U.	149	469	229	240	0	151	376	193	183	0	113	93	36	57	0
Texas Woman's U.	149	469	238	0	231	258	78	59	0	19	20	391	179	0	212
Brandeis U.	152	465	465	0	0	134	459	459	0	0	296	6	6	0	0
Western Michigan U.	153	463	307	117	39	141	417	291	107	19	169	46	16	10	20
New Mexico State U.	153	463	317	131	15	147	385	274	104	7	127	78	43	27	8
Florida Atlantic U.	155	461	321	96	44	189	218	163	45	10	42	243	158	51	34
Southern Illinois U., Carbondale	156	459	360	99	0	162	332	276	56	0	82	127	84	43	0
Portland State U.	157	452	365	77	10	169	291	252	38	1	64	161	113	39	9
U. Akron	158	447	253	190	4	154	362	202	158	2	120	85	51	32	2
Saint Louis U.	159	446	291	36	119	140	423	276	32	115	230	23	15	4	4
U. Vermont	159	446	385	43	18	145	396	352	36	8	162	50	33	7	10
Worcester Polytechnic Institute	161	442	199	243	0	166	313	138	175	0	79	129	61	68	0
Palo Alto U.	162	441	441	0	0	137	436	436	0	0	303	5	5	0	0
Montana State U.	163	436	354	82	0	146	387	315	72	0	164	49	39	10	0
U. Rhode Island	164	431	278	94	59	155	354	238	76	40	128	77	40	18	19
San Diego State U.	165	429	275	53	101	139	429	275	53	101	341	0	0	0	0
Illinois Institute of Technology	166	427	245	182	0	144	400	232	168	0	217	27	13	14	0
Florida Institute of Technology	167	404	278	126	0	149	382	269	113	0	234	22	9	13	0
U. Southern Mississippi	168	401	258	69	74	174	284	161	69	54	94	117	97	0	20
U. Idaho	169	399	280	119	0	171	288	219	69	0	99	111	61	50	0

TABLE 5-4c

Institutional rankings for doctoral students: 2020

(Number)

Institution	All doctoral students					Full-time doctoral students					Part-time doctoral students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
U. North Dakota	170	398	193	162	43	180	257	135	99	23	73	141	58	63	20
Southern Methodist U.	171	396	269	127	0	157	343	241	102	0	158	53	28	25	0
Ohio U.	172	395	255	116	24	164	326	232	74	20	141	69	23	42	4
U. North Carolina, Greensboro	173	383	204	0	179	215	150	101	0	49	44	233	103	0	130
U. Maine	174	380	269	111	0	152	367	260	107	0	268	13	9	4	0
Stevens Institute of Technology	175	374	139	235	0	157	343	131	212	0	202	31	8	23	0
U. Missouri, Kansas City	176	370	244	60	66	254	80	73	3	4	32	290	171	57	62
New School	177	369	369	0	0	159	340	340	0	0	208	29	29	0	0
Rochester Institute of Technology	178	366	245	121	0	161	334	223	111	0	195	32	22	10	0
Brigham Young U.	179	360	211	147	2	273	63	24	38	1	31	297	187	109	1
Marquette U.	180	359	214	101	44	185	238	150	67	21	87	121	64	34	23
Northern Illinois U.	181	353	300	1	52	197	192	186	1	5	64	161	114	0	47
U. Nebraska, Medical Center	182	334	304	0	30	198	190	171	0	19	69	144	133	0	11
Columbia U., Teachers C.	183	333	281	0	52	184	254	224	0	30	126	79	57	0	22
U. Massachusetts, Medical School	184	330	330	0	0	163	330	330	0	0	341	0	0	0	0
Oakland U.	185	320	138	173	9	200	189	100	82	7	76	131	38	91	2
Carlos Albizu U.	186	313	313	0	0	171	288	288	0	0	226	25	25	0	0
Bowling Green State U.	187	308	300	0	8	187	232	225	0	7	129	76	75	0	1
U. Puerto Rico, Rio Piedras	188	302	302	0	0	168	292	292	0	0	282	10	10	0	0
Northern Arizona U.	189	299	266	33	0	178	265	236	29	0	188	34	30	4	0
U. Louisiana, Lafayette	190	293	185	91	17	182	255	171	74	10	178	38	14	17	7
Scripps Research Institute	191	291	291	0	0	169	291	291	0	0	341	0	0	0	0
Albert Einstein C. of Medicine	192	287	283	0	4	173	287	283	0	4	341	0	0	0	0
U. Alabama, Huntsville	193	282	119	152	11	204	175	86	81	8	101	107	33	71	3
Oregon Health and Science U.	194	280	191	66	23	177	269	188	63	18	277	11	3	3	5
Wake Forest U.	195	277	228	49	0	176	275	226	49	0	320	2	2	0	0
North Carolina Agricultural and Technical State U.	196	276	77	199	0	207	164	54	110	0	97	112	23	89	0
Pontifical Catholic U. Puerto Rico	197	273	273	0	0	249	100	100	0	0	58	173	173	0	0
Boise State U.	198	266	175	91	0	192	201	128	73	0	145	65	47	18	0
U. Texas Health Science Center, San Antonio	199	260	201	12	47	193	200	188	4	8	149	60	13	8	39
Mayo Clinic, Mayo Graduate School	200	259	216	43	0	179	259	216	43	0	341	0	0	0	0
Rockefeller U.	201	255	255	0	0	182	255	255	0	0	341	0	0	0	0
Fordham U.	202	254	254	0	0	221	139	139	0	0	95	115	115	0	0
U. Arkansas, Little Rock	203	249	226	23	0	227	136	123	13	0	96	113	103	10	0

TABLE 5-4c

Institutional rankings for doctoral students: 2020

(Number)

Institution	All doctoral students					Full-time doctoral students					Part-time doctoral students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Medical C. Wisconsin	204	244	187	34	23	186	233	187	32	14	277	11	0	2	9
American U.	205	238	238	0	0	190	216	216	0	0	234	22	22	0	0
A. T. Still U.	206	232	0	0	232	209	156	0	0	156	129	76	0	0	76
U. Alaska, Fairbanks	207	228	210	18	0	251	96	88	8	0	75	132	122	10	0
Loma Linda U.	208	227	139	0	88	232	126	99	0	27	108	101	40	0	61
South Dakota State U.	209	224	168	44	12	216	148	111	30	7	129	76	57	14	5
C. of William and Mary	210	216	216	0	0	196	195	195	0	0	238	21	21	0	0
U. South Dakota	211	213	166	11	36	214	154	135	9	10	151	59	31	2	26
U. Missouri, Saint Louis	211	213	183	0	30	223	137	129	0	8	129	76	54	0	22
Seton Hall U.	213	211	88	0	123	301	42	34	0	8	60	169	54	0	115
Morgan State U.	214	210	59	85	66	195	198	57	77	64	273	12	2	8	2
U. Montana	215	209	195	0	14	237	116	109	0	7	113	93	86	0	7
U. Denver	216	207	182	25	0	198	190	167	23	0	254	17	15	2	0
Duquesne U.	217	205	108	0	97	201	182	102	0	80	230	23	6	0	17
East Carolina U.	218	204	168	0	36	206	168	157	0	11	183	36	11	0	25
U. Tulsa	219	203	127	76	0	191	203	127	76	0	341	0	0	0	0
Wright State U.	219	203	108	95	0	217	142	79	63	0	147	61	29	32	0
Keiser U., Fort Lauderdale	219	203	203	0	0	236	117	117	0	0	117	86	86	0	0
U. South Alabama	222	201	171	23	7	205	171	150	14	7	205	30	21	9	0
U. Tennessee, Health Science Center	223	200	133	2	65	193	200	133	2	65	341	0	0	0	0
Antioch U.	224	199	199	0	0	211	155	155	0	0	172	44	44	0	0
Wichita State U.	224	199	108	86	5	253	89	61	26	2	100	110	47	60	3
U. Texas Medical Branch	226	187	177	0	10	209	156	150	0	6	202	31	27	0	4
Long Island U.	227	186	152	0	34	268	68	59	0	9	92	118	93	0	25
Miami U.	228	185	185	0	0	202	181	181	0	0	310	4	4	0	0
Loyola U., Chicago	228	185	185	0	0	203	179	179	0	0	296	6	6	0	0
Louisiana Tech U.	230	183	109	74	0	227	136	73	63	0	167	47	36	11	0
St. John's U., Queens	231	181	78	0	103	242	105	63	0	42	129	76	15	0	61
Catholic U. of America	232	179	107	72	0	218	141	78	63	0	178	38	29	9	0
U. Massachusetts, Dartmouth	233	176	88	62	26	266	69	33	36	0	101	107	55	26	26
Texas State U.	234	175	131	44	0	230	128	92	36	0	167	47	39	8	0
Cleveland State U.	235	173	105	68	0	222	138	86	52	0	187	35	19	16	0
Idaho State U.	235	173	105	41	27	242	105	74	15	16	142	68	31	26	11
U. Arkansas for Medical Sciences	237	171	97	0	74	240	109	78	0	31	146	62	19	0	43

TABLE 5-4c

Institutional rankings for doctoral students: 2020

(Number)

Institution	All doctoral students					Full-time doctoral students					Part-time doctoral students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Central Michigan U.	238	167	167	0	0	268	68	68	0	0	110	99	99	0	0
U. Puerto Rico, Mayaguez	239	166	61	105	0	208	158	59	99	0	288	8	2	6	0
Medical U. South Carolina	240	163	121	0	42	219	140	121	0	19	230	23	0	0	23
Jackson State U.	241	161	69	18	74	297	43	30	8	5	92	118	39	10	69
U. Puerto Rico, Medical Sciences Campus	242	160	77	0	83	219	140	70	0	70	243	20	7	0	13
Dakota State U.	243	157	157	0	0	250	98	98	0	0	151	59	59	0	0
Clarkson U.	244	156	70	86	0	211	155	70	85	0	333	1	0	1	0
U. New Orleans	245	155	96	59	0	246	103	64	39	0	159	52	32	20	0
East Tennessee State U.	246	149	73	0	76	244	104	59	0	45	171	45	14	0	31
Florida A&M U.	247	145	50	54	41	231	127	43	50	34	251	18	7	4	7
Air Force Institute of Technology	247	145	34	111	0	234	123	26	97	0	234	22	8	14	0
DePaul U.	249	143	143	0	0	281	51	51	0	0	115	92	92	0	0
CUNY, City C.	250	142	0	142	0	223	137	0	137	0	303	5	0	5	0
Uniformed Services U. of the Health Sciences	251	140	128	0	12	223	137	125	0	12	317	3	3	0	0
Rush U.	251	140	11	47	82	254	80	11	47	22	149	60	0	0	60
Adelphi U.	253	139	104	0	35	319	27	21	0	6	97	112	83	0	29
U. Dayton	254	137	12	125	0	223	137	12	125	0	341	0	0	0	0
Thomas Jefferson U.	255	135	135	0	0	229	135	135	0	0	341	0	0	0	0
Barry U.	256	133	48	0	85	283	48	33	0	15	120	85	15	0	70
Tennessee Technological U.	257	129	25	104	0	331	22	4	18	0	101	107	21	86	0
Augusta U.	258	128	84	0	44	244	104	83	0	21	228	24	1	0	23
Montclair State U.	259	127	122	0	5	241	108	104	0	4	248	19	18	0	1
Clark U.	260	126	126	0	0	233	125	125	0	0	333	1	1	0	0
Nova Southeastern U.	261	125	125	0	0	278	53	53	0	0	138	72	72	0	0
Marymount U.	261	125	125	0	0	342	18	18	0	0	101	107	107	0	0
Embry-Riddle Aeronautical U.	263	124	20	104	0	238	115	18	97	0	284	9	2	7	0
Frederick S. Pardee RAND Graduate School	264	123	123	0	0	234	123	123	0	0	341	0	0	0	0
Rowan U.	265	122	39	83	0	247	102	39	63	0	243	20	0	20	0
Ball State U.	265	122	122	0	0	262	74	74	0	0	166	48	48	0	0
Hofstra U.	267	113	113	0	0	247	102	102	0	0	277	11	11	0	0
SUNY, Upstate Medical U.	268	110	110	0	0	239	110	110	0	0	341	0	0	0	0
U. Northern Colorado	268	110	34	0	76	310	35	19	0	16	134	75	15	0	60
Massachusetts C. of Pharmacy and Health Sciences	270	108	9	0	99	331	22	7	0	15	117	86	2	0	84
Tennessee State U.	271	106	88	18	0	262	74	66	8	0	195	32	22	10	0

TABLE 5-4c

Institutional rankings for doctoral students: 2020

(Number)

Institution	All doctoral students					Full-time doctoral students					Part-time doctoral students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Southern U. and A&M C.	272	103	101	0	2	274	61	59	0	2	173	42	42	0	0
U. Indianapolis	273	97	0	0	97	344	16	0	0	16	124	81	0	0	81
U. Michigan, Flint	274	91	0	0	91	254	80	0	0	80	277	11	0	0	11
Yeshiva U.	274	91	91	0	0	271	65	65	0	0	221	26	26	0	0
City of Hope, Irell and Manella Graduate School of Biological Sciences	276	90	90	0	0	252	90	90	0	0	341	0	0	0	0
New Mexico Institute of Mining and Technology	277	89	63	26	0	264	71	54	17	0	251	18	9	9	0
Clark Atlanta U.	277	89	89	0	0	297	43	43	0	0	169	46	46	0	0
Illinois State U.	279	88	75	0	13	266	69	69	0	0	248	19	6	0	13
Chapman U.	279	88	55	0	33	289	46	18	0	28	173	42	37	0	5
National Louis U.	281	86	86	0	0	278	53	53	0	0	192	33	33	0	0
U. North Texas, Health Science Center	282	85	72	0	13	258	78	72	0	6	294	7	0	0	7
Oklahoma State U., Center for Health Sciences	283	83	83	0	0	272	64	64	0	0	248	19	19	0	0
Texas Christian U.	284	80	68	0	12	260	76	68	0	8	310	4	0	0	4
Texas A&M U.-Corpus Christi	284	80	80	0	0	270	67	67	0	0	268	13	13	0	0
Lamar U.	284	80	0	80	0	286	47	0	47	0	192	33	0	33	0
Memorial Sloan Kettering Cancer Center	287	79	79	0	0	257	79	79	0	0	341	0	0	0	0
California Institute of Integral Studies	287	79	79	0	0	261	75	75	0	0	310	4	4	0	0
Pace U.	287	79	44	0	35	297	43	19	0	24	183	36	25	0	11
Arkansas State U.	290	74	74	0	0	307	38	38	0	0	183	36	36	0	0
Kennesaw State U.	291	71	71	0	0	290	45	45	0	0	221	26	26	0	0
Wesleyan U.	292	70	70	0	0	265	70	70	0	0	341	0	0	0	0
William Carey U.	292	70	0	0	70	305	39	0	0	39	202	31	0	0	31
Villanova U.	294	69	0	69	0	303	40	0	40	0	208	29	0	29	0
SUNY, Polytechnic Institute	295	67	1	66	0	305	39	1	38	0	213	28	0	28	0
Towson U.	296	63	63	0	0	282	49	49	0	0	261	14	14	0	0
Endicott C.	297	62	41	0	21	328	23	23	0	0	176	39	18	0	21
Suffolk U.	298	61	48	0	13	303	40	27	0	13	238	21	21	0	0
Naval Postgraduate School	299	59	34	25	0	275	59	34	25	0	341	0	0	0	0
U. San Diego	299	59	0	0	59	382	1	0	0	1	153	58	0	0	58
Andrews U.	301	58	58	0	0	276	56	56	0	0	320	2	2	0	0
Azusa Pacific U.	302	57	0	0	57	286	47	0	0	47	282	10	0	0	10
U. Nebraska, Omaha	303	56	33	0	23	319	27	14	0	13	208	29	19	0	10
Albany Medical C.	304	54	54	0	0	277	54	54	0	0	341	0	0	0	0
Santa Clara U.	305	53	0	53	0	334	21	0	21	0	195	32	0	32	0

TABLE 5-4c

Institutional rankings for doctoral students: 2020

(Number)

Institution	All doctoral students					Full-time doctoral students					Part-time doctoral students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Cold Spring Harbor Laboratory	306	52	52	0	0	280	52	52	0	0	341	0	0	0	0
SUNY, Downstate Medical Center	306	52	43	9	0	283	48	40	8	0	310	4	3	1	0
Mercer U.	306	52	0	0	52	302	41	0	0	41	277	11	0	0	11
Bowie State U.	306	52	52	0	0	316	28	28	0	0	228	24	24	0	0
Tuskegee U.	310	51	44	7	0	290	45	38	7	0	296	6	6	0	0
Pacific U.	310	51	51	0	0	297	43	43	0	0	288	8	8	0	0
U. del Turabo	310	51	51	0	0	361	9	9	0	0	173	42	42	0	0
Biola U.	313	49	49	0	0	283	48	48	0	0	333	1	1	0	0
Niagara U.	313	49	49	0	0	316	28	28	0	0	238	21	21	0	0
Middle Tennessee State U.	313	49	49	0	0	356	12	12	0	0	181	37	37	0	0
Sam Houston State U.	316	48	48	0	0	337	20	20	0	0	213	28	28	0	0
Marshall U.	317	47	47	0	0	286	47	47	0	0	341	0	0	0	0
Delaware State U.	318	46	46	0	0	294	44	44	0	0	320	2	2	0	0
Gallaudet U.	318	46	38	0	8	321	26	21	0	5	243	20	17	0	3
Prairie View A&M U.	318	46	11	35	0	354	13	2	11	0	192	33	9	24	0
Cedars-Sinai Medical Center	321	45	45	0	0	290	45	45	0	0	341	0	0	0	0
Western New England U.	321	45	45	0	0	290	45	45	0	0	341	0	0	0	0
Morehouse School of Medicine	321	45	45	0	0	294	44	44	0	0	333	1	1	0	0
U. Texas, Tyler	321	45	8	0	37	354	13	7	0	6	195	32	1	0	31
Toyota Technological Institute, Chicago	325	44	44	0	0	294	44	44	0	0	341	0	0	0	0
James Madison U.	325	44	44	0	0	309	36	36	0	0	288	8	8	0	0
Texas A&M U.-Kingsville	325	44	16	28	0	331	22	13	9	0	234	22	3	19	0
U. Maryland, Eastern Shore	325	44	37	0	7	371	5	4	0	1	176	39	33	0	6
Widener U.	329	43	0	0	43	347	15	0	0	15	213	28	0	0	28
U. Central Arkansas	330	41	32	0	9	337	20	20	0	0	238	21	12	0	9
Van Andel Institute	331	38	38	0	0	307	38	38	0	0	341	0	0	0	0
Bryn Mawr C.	332	35	35	0	0	311	34	34	0	0	333	1	1	0	0
Meharry Medical C.	333	34	34	0	0	311	34	34	0	0	341	0	0	0	0
Texas Southern U.	334	33	21	0	12	326	24	16	0	8	284	9	5	0	4
Alabama A&M U.	334	33	33	0	0	337	20	20	0	0	268	13	13	0	0
U. Tennessee, Chattanooga	334	33	33	0	0	340	19	19	0	0	261	14	14	0	0
Texas A&M U.-Commerce	334	33	33	0	0	366	7	7	0	0	221	26	26	0	0
Sanford-Burnham Medical Research Institute	338	32	32	0	0	313	32	32	0	0	341	0	0	0	0
American International C.	338	32	32	0	0	321	26	26	0	0	296	6	6	0	0

TABLE 5-4c

Institutional rankings for doctoral students: 2020

(Number)

Institution	All doctoral students					Full-time doctoral students					Part-time doctoral students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Molloy C.	338	32	0	0	32	388	0	0	0	0	195	32	0	0	32
Robert Morris U.	338	32	32	0	0	388	0	0	0	0	195	32	32	0	0
U. West Georgia	342	31	31	0	0	340	19	19	0	0	273	12	12	0	0
Stephen F. Austin State U.	342	31	31	0	0	359	10	10	0	0	238	21	21	0	0
Drew U.	342	31	0	0	31	372	4	0	0	4	217	27	0	0	27
California State U., Los Angeles	345	30	0	0	30	314	30	0	0	30	341	0	0	0	0
New York Medical C.	345	30	30	0	0	314	30	30	0	0	341	0	0	0	0
U. Louisiana, Monroe	345	30	0	0	30	316	28	0	0	28	320	2	0	0	2
New Jersey City U.	345	30	30	0	0	388	0	0	0	0	205	30	30	0	0
U. Alaska, Anchorage	349	28	28	0	0	328	23	23	0	0	303	5	5	0	0
Hampton U.	349	28	15	0	13	351	14	14	0	0	261	14	1	0	13
Xavier U.	349	28	0	0	28	382	1	0	0	1	217	27	0	0	27
Creighton U.	352	27	27	0	0	321	26	26	0	0	333	1	1	0	0
Indiana State U.	352	27	27	0	0	324	25	25	0	0	320	2	2	0	0
U. Central del Caribe	354	25	25	0	0	324	25	25	0	0	341	0	0	0	0
U. Detroit Mercy	354	25	0	25	0	328	23	0	23	0	320	2	0	2	0
Wilkes U.	354	25	0	0	25	388	0	0	0	0	226	25	0	0	25
Rosalind Franklin U. of Medicine and Science	357	24	24	0	0	326	24	24	0	0	341	0	0	0	0
U. North Carolina, Wilmington	357	24	24	0	0	334	21	21	0	0	317	3	3	0	0
Polytechnic U. Puerto Rico	357	24	0	24	0	372	4	0	4	0	243	20	0	20	0
U. Dallas	360	22	22	0	0	343	17	17	0	0	303	5	5	0	0
Montana Tech of U. Montana	361	21	16	5	0	334	21	16	5	0	341	0	0	0	0
Oklahoma City U.	362	19	0	0	19	369	6	0	0	6	268	13	0	0	13
Caldwell U.	362	19	19	0	0	382	1	1	0	0	251	18	18	0	0
Alfred U.	364	18	0	18	0	344	16	0	16	0	320	2	0	2	0
Virginia State U.	364	18	18	0	0	359	10	10	0	0	288	8	8	0	0
North Carolina Central U.	366	17	17	0	0	347	15	15	0	0	320	2	2	0	0
Norfolk State U.	367	16	16	0	0	344	16	16	0	0	341	0	0	0	0
Lawrence Technological U.	367	16	0	16	0	382	1	0	1	0	259	15	0	15	0
American Museum of Natural History	369	15	15	0	0	347	15	15	0	0	341	0	0	0	0
Keck Graduate Institute	369	15	15	0	0	347	15	15	0	0	341	0	0	0	0
Maharishi U. of Management	371	14	14	0	0	351	14	14	0	0	341	0	0	0	0
SUNY, C. of Optometry	371	14	14	0	0	351	14	14	0	0	341	0	0	0	0
U. of the District of Columbia	371	14	14	0	0	364	8	8	0	0	296	6	6	0	0

TABLE 5-4c

Institutional rankings for doctoral students: 2020

(Number)

Institution	All doctoral students					Full-time doctoral students					Part-time doctoral students				
	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health	Rank	Total	Science	Engineering	Health
Tarleton State U.	374	12	12	0	0	356	12	12	0	0	341	0	0	0	0
Youngstown State U.	374	12	12	0	0	356	12	12	0	0	341	0	0	0	0
West Texas A&M U.	374	12	12	0	0	364	8	8	0	0	310	4	4	0	0
Salus U.	374	12	12	0	0	366	7	7	0	0	303	5	5	0	0
Inter American U. Puerto Rico, San German	374	12	12	0	0	388	0	0	0	0	273	12	12	0	0
Indiana U. Pennsylvania	379	11	11	0	0	374	3	3	0	0	288	8	8	0	0
Coastal Carolina U.	380	10	10	0	0	376	2	2	0	0	288	8	8	0	0
California State U., Long Beach	380	10	0	10	0	382	1	0	1	0	284	9	0	9	0
Elmezzi Graduate School of Molecular Medicine	382	9	9	0	0	361	9	9	0	0	341	0	0	0	0
Lake Erie C. of Osteopathic Medicine	382	9	9	0	0	361	9	9	0	0	341	0	0	0	0
Rivier U.	384	8	8	0	0	376	2	2	0	0	296	6	6	0	0
Springfield C.	385	7	7	0	0	366	7	7	0	0	341	0	0	0	0
U. Hawaii, Hilo	385	7	0	0	7	376	2	0	0	2	303	5	0	0	5
Northeastern Ohio Universities, C. of Medicine	387	6	0	0	6	369	6	0	0	6	341	0	0	0	0
Alabama State U.	387	6	6	0	0	382	1	1	0	0	303	5	5	0	0
Lincoln Memorial U.	389	4	4	0	0	376	2	2	0	0	320	2	2	0	0
U. Arkansas, Pine Bluff	389	4	4	0	0	376	2	2	0	0	320	2	2	0	0
Sage Colleges	389	4	0	0	4	388	0	0	0	0	310	4	0	0	4
Western Illinois U.	392	3	3	0	0	374	3	3	0	0	341	0	0	0	0
U. of the Incarnate Word	393	2	2	0	0	376	2	2	0	0	341	0	0	0	0
Kean U.	394	1	0	0	1	388	0	0	0	0	333	1	0	0	1

[a] Totals for "all institutions" include data imputed for nonresponding institutions; data imputed for nonresponding institutions are not shown separately.

Note(s):
Sorted by overall number of doctoral students. Tied institutions are ranked first by number of doctoral students and then alphabetically. 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.

TABLE 5-5

Institutional rankings for postdoctoral appointees: 2020

(Number)

Institution	Rank	Total	Science	Engineering	Health
All institutions[a]	-	65,681	38,741	8,462	18,478
Harvard U.	1	5,787	2,262	214	3,311
Stanford U.	2	2,446	1,174	357	915
Johns Hopkins U.	3	1,723	685	123	915
Columbia U. in the City of New York	4	1,369	528	114	727
Massachusetts Institute of Technology	5	1,344	752	592	0
U. Michigan	6	1,316	719	204	393
U. Minnesota	7	1,312	737	134	441
U. California, Berkeley	8	1,233	907	291	35
Yale U.	9	1,213	646	90	477
U. California, Davis	10	1,193	868	152	173
U. California, San Diego	11	1,183	558	169	456
U. California, San Francisco	12	1,143	253	57	833
U. Pennsylvania	13	1,065	536	122	407
Cornell U.	14	1,009	559	136	314
U. Washington	15	991	570	118	303
Northwestern U.	16	939	482	165	292
U. California, Los Angeles	17	911	565	115	231
New York U.	18	834	599	22	213
U. Pittsburgh	19	754	256	53	445
U. Wisconsin-Madison	20	752	438	93	221
Washington U., Saint Louis	21	751	343	44	364
U. North Carolina, Chapel Hill	22	750	409	9	332
U. Colorado	23	709	408	95	206
Duke U.	24	685	424	119	142
U. Florida	25	671	375	75	221
Ohio State U.	26	668	273	104	291
Princeton U.	27	665	496	169	0
Mayo Clinic, Mayo Graduate School	28	650	121	24	505
Texas A&M U.	29	610	429	129	52
U. Chicago	30	609	516	0	93
Michigan State U.	31	602	525	40	37
North Carolina State U.	32	581	309	196	76
Pennsylvania State U.	33	574	450	74	50
California Institute of Technology	34	555	446	109	0
U. Texas Southwestern Medical Center	35	552	308	0	244
U. Texas M. D. Anderson Cancer Center	36	550	92	0	458
Scripps Research Institute	37	541	541	0	0
U. Illinois, Urbana-Champaign	38	499	329	165	5
Emory U.	39	488	238	22	228
Vanderbilt U.	40	473	283	45	145
Baylor C. of Medicine	41	472	441	0	31
Purdue U.	42	470	248	164	58
U. Texas, Austin	43	468	317	146	5
U. Maryland, College Park	44	463	343	80	40
U. Arizona	45	462	354	60	48
U. Southern California	46	450	213	64	173
Rutgers, State U. New Jersey	47	442	281	20	141
Indiana U.	48	419	247	12	160
U. Virginia	49	415	269	64	82

TABLE 5-5

Institutional rankings for postdoctoral appointees: 2020

(Number)

Institution	Rank	Total	Science	Engineering	Health
U. California, Irvine	50	389	257	64	68
U. Utah	51	353	224	36	93
Georgia Institute of Technology	52	346	145	201	0
U. California, Santa Barbara	53	313	210	103	0
SUNY, U. Buffalo	54	311	233	38	40
U. Iowa	55	294	128	25	141
U. Cincinnati	56	293	68	12	213
SUNY, Stony Brook U.	57	292	216	28	48
U. South Florida, Tampa	57	292	222	24	46
Arizona State U.	59	289	210	73	6
Boston U.	60	284	172	45	67
U. California, Riverside	61	276	233	43	0
Iowa State U.	62	275	221	53	1
U. Alabama, Birmingham	63	272	126	5	141
U. Massachusetts, Medical School	63	272	272	0	0
U. Georgia	65	269	227	12	30
Colorado State U., Fort Collins	66	265	225	20	20
Albert Einstein C. of Medicine	67	261	177	0	84
Oregon Health and Science U.	68	259	204	11	44
Brown U.	69	258	203	34	21
U. Kentucky	70	254	202	23	29
Rockefeller U.	71	248	248	0	0
U. Miami	72	244	123	4	117
U. Connecticut	73	242	160	33	49
Florida International U.	74	235	146	62	27
U. Houston	74	235	132	85	18
Florida State U.	76	233	212	21	0
Virginia Polytechnic Institute and State U.	77	222	151	69	2
Carnegie Mellon U.	78	221	135	86	0
U. Illinois, Chicago	79	220	99	20	101
Case Western Reserve U.	80	216	136	28	52
U. Texas Health Science Center, Houston	80	216	0	0	216
U. Oklahoma	82	215	125	35	55
U. Missouri, Columbia	83	213	144	17	52
Rice U.	84	208	122	86	0
U. Rochester	85	207	113	15	79
Oregon State U.	86	205	166	20	19
Virginia Commonwealth U.	86	205	94	27	84
Louisiana State U.	88	196	187	8	1
Tufts U.	89	182	121	52	9
City of Hope, Irell and Manella Graduate School of Biological Sciences	90	181	181	0	0
Washington State U.	90	181	127	35	19
U. Hawaii, Manoa	92	180	144	19	17
U. Texas Health Science Center, San Antonio	93	176	112	0	64
U. Nebraska-Lincoln	94	174	134	39	1
U. Kansas	95	170	95	12	63
Northeastern U.	96	169	90	40	39
Dartmouth C.	97	165	150	12	3
Cedars-Sinai Medical Center	98	159	159	0	0
Georgetown U.	99	158	156	0	2

TABLE 5-5

Institutional rankings for postdoctoral appointees: 2020

(Number)

Institution	Rank	Total	Science	Engineering	Health
U. Delaware	99	158	89	62	7
U. Massachusetts, Amherst	101	152	109	41	2
U. Tennessee, Knoxville	101	152	89	61	2
U. Notre Dame	103	149	92	57	0
Cold Spring Harbor Laboratory	104	148	148	0	0
Tulane U.	105	144	95	5	44
U. Central Florida	106	142	68	72	2
Wake Forest U.	107	137	78	16	43
Medical U. South Carolina	108	136	65	0	71
Thomas Jefferson U.	108	136	68	0	68
U. Nebraska, Medical Center	110	131	51	0	80
Temple U.	111	123	93	13	17
Medical C. Wisconsin	112	118	48	8	62
Georgia State U.	113	117	115	0	2
Texas Tech U.	114	116	75	32	9
Wayne State U.	115	114	69	14	31
Auburn U.	116	109	79	21	9
George Washington U.	117	107	63	23	21
Kansas State U.	117	107	104	3	0
Clemson U.	119	104	66	36	2
U. Nevada, Reno	120	103	90	12	1
Rush U.	121	102	98	0	4
U. Tennessee, Health Science Center	122	100	46	0	54
U. Texas, San Antonio	123	99	82	15	2
Woods Hole Oceanographic Institution	124	96	84	12	0
U. South Carolina	125	95	45	31	19
U. New Mexico	126	92	63	19	10
U. Arkansas, Fayetteville	127	90	65	24	1
New Jersey Institute of Technology	128	89	53	36	0
Sanford-Burnham Medical Research Institute	128	89	89	0	0
U. Mississippi	130	83	47	3	33
U. Texas, Dallas	130	83	39	36	8
Augusta U.	132	81	50	0	31
Brandeis U.	132	81	81	0	0
U. Texas Medical Branch	134	79	70	0	9
U. Oregon	135	77	75	0	2
U. Texas, Arlington	135	77	39	32	6
U. Arkansas for Medical Sciences	137	74	55	1	18
Drexel U.	138	72	38	21	13
U. Vermont	138	72	47	7	18
U. Idaho	140	70	65	5	0
Syracuse U.	141	68	56	12	0
SUNY, U. Albany	142	66	28	2	36
Colorado School of Mines	143	65	15	50	0
Utah State U.	143	65	52	10	3
Boston C.	145	64	62	0	2
Montana State U.	146	61	54	7	0
U. California, Merced	147	60	44	13	3
Van Andel Institute	147	60	60	0	0
U. Toledo	149	59	54	0	5

TABLE 5-5

Institutional rankings for postdoctoral appointees: 2020

(Number)

Institution	Rank	Total	Science	Engineering	Health
North Dakota State U.	150	53	45	4	4
West Virginia U.	150	53	46	5	2
CUNY, City C.	152	52	30	22	0
George Mason U.	153	51	38	12	1
U. Wisconsin-Milwaukee	153	51	38	13	0
Oklahoma State U.	155	50	37	13	0
U. Louisville	155	50	24	0	26
U. Montana	155	50	39	0	11
U. New Hampshire	155	50	43	7	0
Uniformed Services U. of the Health Sciences	155	50	50	0	0
Baylor U.	160	48	44	4	0
Loyola U., Chicago	161	47	24	0	23
U. North Dakota	161	47	41	2	4
Lehigh U.	163	45	20	25	0
U. Alabama, Tuscaloosa	164	44	19	25	0
U. Louisiana, Lafayette	164	44	39	5	0
Florida Atlantic U.	166	43	34	8	1
Mississippi State U.	166	43	30	13	0
Northern Arizona U.	166	43	41	1	1
Old Dominion U.	166	43	32	7	4
U. Rhode Island	166	43	32	1	10
Eastern Virginia Medical School	171	41	11	0	30
U. Alaska, Fairbanks	171	41	37	4	0
U. Massachusetts, Lowell	171	41	21	19	1
U. North Texas, Denton	174	40	28	12	0
U. Wyoming	175	39	23	16	0
Howard U.	176	38	29	3	6
New Mexico State U.	176	38	28	10	0
Stevens Institute of Technology	178	37	9	28	0
U. Memphis	178	37	17	16	4
Worcester Polytechnic Institute	178	37	19	18	0
American Museum of Natural History	181	35	35	0	0
Southern Methodist U.	181	35	24	11	0
U. Texas, El Paso	181	35	26	9	0
Missouri U. of Science and Technology	184	34	12	22	0
Saint Louis U.	185	32	31	0	1
SUNY, Binghamton U.	185	32	26	6	0
Chapman U.	187	29	21	0	8
Jackson State U.	187	29	29	0	0
San Diego State U.	187	29	23	4	2
U. Maryland, Baltimore County	187	29	24	5	0
U. North Carolina, Charlotte	187	29	22	5	2
U. South Alabama	187	29	26	3	0
Boise State U.	193	28	13	15	0
Catholic U. of America	193	28	28	0	0
SUNY, Upstate Medical U.	193	28	17	0	11
Albany Medical C.	196	26	26	0	0
C. of William and Mary	196	26	26	0	0
U. Nevada, Las Vegas	196	26	21	2	3
U. Southern Mississippi	199	25	16	7	2

TABLE 5-5

Institutional rankings for postdoctoral appointees: 2020

(Number)

Institution	Rank	Total	Science	Engineering	Health
Ohio U.	200	24	16	3	5
Rochester Institute of Technology	200	24	21	3	0
U. North Carolina, Greensboro	200	24	22	0	2
U. North Texas, Health Science Center	200	24	24	0	0
Marquette U.	204	23	11	6	6
Northeastern Ohio Universities, C. of Medicine	204	23	19	0	4
South Dakota State U.	204	23	20	2	1
East Carolina U.	207	22	16	3	3
Loma Linda U.	207	22	22	0	0
Texas State U.	207	22	19	3	0
Wesleyan U.	210	21	21	0	0
Northern Illinois U.	211	19	16	2	1
U. Alabama, Huntsville	211	19	16	3	0
U. Maine	211	19	15	4	0
Creighton U.	214	18	16	0	2
Oklahoma State U., Center for Health Sciences	214	18	17	0	1
Santa Clara U.	214	18	16	2	0
Marshall U.	217	17	12	1	4
North Carolina Agricultural and Technical State U.	217	17	11	6	0
Kent State U.	219	16	15	0	1
Louisiana Tech U.	219	16	6	10	0
U. Missouri, Kansas City	219	16	4	0	12
Air Force Institute of Technology	222	15	0	15	0
Central Michigan U.	222	15	11	1	3
Clarkson U.	224	14	3	11	0
Michigan Technological U.	224	14	5	9	0
Villanova U.	224	14	11	3	0
U. Denver	227	13	10	3	0
New York Medical C.	228	12	12	0	0
SUNY, Downstate Medical Center	228	12	3	0	9
U. Akron	228	12	8	4	0
U. South Dakota	228	12	11	1	0
Clark U.	232	11	11	0	0
Meharry Medical C.	232	11	11	0	0
Naval Postgraduate School	232	11	8	3	0
U. Tulsa	232	11	2	9	0
Bowling Green State U.	236	10	10	0	0
Miami U.	236	10	10	0	0
New School	236	10	10	0	0
Portland State U.	236	10	6	4	0
Rosalind Franklin U. of Medicine and Science	236	10	10	0	0
Texas A&M U.-Corpus Christi	236	10	10	0	0
U. Alaska, Anchorage	236	10	10	0	0
U. Dayton	236	10	3	7	0
Kennesaw State U.	244	9	7	0	2
Nova Southeastern U.	244	9	9	0	0
SUNY, Polytechnic Institute	244	9	0	9	0
U. Massachusetts, Boston	244	9	9	0	0
U. Puerto Rico, Medical Sciences Campus	244	9	7	0	2
Texas A&M U.-Kingsville	249	8	4	4	0

TABLE 5-5

Institutional rankings for postdoctoral appointees: 2020

(Number)

Institution	Rank	Total	Science	Engineering	Health
Western Michigan U.	249	8	7	1	0
East Tennessee State U.	251	7	1	0	6
Morehouse School of Medicine	251	7	7	0	0
Morgan State U.	251	7	6	1	0
San Francisco State U.	251	7	6	0	1
U. Puerto Rico, Rio Piedras	251	7	7	0	0
Rowan U.	256	6	6	0	0
Smith C.	256	6	6	0	0
Tuskegee U.	256	6	4	2	0
Claremont Graduate U.	259	5	5	0	0
CUNY, Brooklyn C.	259	5	5	0	0
Florida Institute of Technology	259	5	2	3	0
Loyola Marymount U.	259	5	5	0	0
Montana Tech of U. Montana	259	5	2	3	0
Southern Illinois U., Carbondale	259	5	4	1	0
Texas Christian U.	259	5	5	0	0
Toyota Technological Institute, Chicago	259	5	5	0	0
U. Missouri, Saint Louis	259	5	5	0	0
U. Puerto Rico, Mayaguez	259	5	3	2	0
Western U. of Health Sciences	259	5	3	0	2
Wright State U.	259	5	5	0	0
A. T. Still U.	271	4	4	0	0
Albany C. of Pharmacy and Health Sciences	271	4	0	0	4
American U.	271	4	4	0	0
Arkansas State U.	271	4	4	0	0
DePaul U.	271	4	4	0	0
Hampton U.	271	4	4	0	0
Illinois State U.	271	4	4	0	0
Keck Graduate Institute	271	4	2	0	2
Mount Holyoke C.	271	4	4	0	0
Oakland U.	271	4	3	0	1
Southern U. and A&M C.	271	4	3	1	0
U. Arkansas, Little Rock	271	4	4	0	0
U. Nebraska, Omaha	271	4	4	0	0
U. North Carolina, Wilmington	271	4	4	0	0
U. San Diego	271	4	4	0	0
Embry-Riddle Aeronautical U.	286	3	0	3	0
Florida A&M U.	286	3	1	0	2
Idaho State U.	286	3	3	0	0
Mercer U.	286	3	3	0	0
Midwestern U.	286	3	0	0	3
Murray State U.	286	3	3	0	0
Texas A&M U.-Commerce	286	3	3	0	0
Trinity U.	286	3	3	0	0
U. Maryland, Eastern Shore	286	3	3	0	0
U. New England	286	3	1	0	2
West Virginia State U.	286	3	3	0	0
Williams C.	286	3	3	0	0
Alfred U.	298	2	0	2	0
C. Charleston	298	2	2	0	0

TABLE 5-5

Institutional rankings for postdoctoral appointees: 2020

(Number)

Institution	Rank	Total	Science	Engineering	Health
Charles R. Drew U. of Medicine and Science	298	2	0	0	2
Colorado State U., Pueblo	298	2	2	0	0
Lincoln U., Jefferson City	298	2	2	0	0
New England C. of Optometry	298	2	2	0	0
New Mexico Institute of Mining and Technology	298	2	2	0	0
SUNY, C. of Optometry	298	2	2	0	0
Texas A&M U.-Central Texas	298	2	2	0	0
U. Massachusetts, Dartmouth	298	2	2	0	0
Wichita State U.	298	2	2	0	0
California State U., Long Beach	309	1	1	0	0
Canisius C.	309	1	1	0	0
CUNY, C. Staten Island	309	1	1	0	0
Duquesne U.	309	1	0	0	1
Florida Polytechnic U.	309	1	1	0	0
Fordham U.	309	1	1	0	0
Furman U.	309	1	1	0	0
Hofstra U.	309	1	0	1	0
James Madison U.	309	1	1	0	0
Missouri Western State U.	309	1	1	0	0
Monmouth U.	309	1	1	0	0
Norfolk State U.	309	1	1	0	0
Savannah State U.	309	1	1	0	0
Tennessee Technological U.	309	1	0	1	0
Texas Southern U.	309	1	1	0	0
U. Arkansas, Pine Bluff	309	1	1	0	0
U. Central del Caribe	309	1	1	0	0
U. Guam	309	1	1	0	0
U. New Orleans	309	1	0	1	0
U. of the Virgin Islands	309	1	1	0	0
Vassar C.	309	1	1	0	0

[a] Totals for "all institutions" include data imputed for nonresponding institutions; data imputed for nonresponding institutions are not shown separately.

Note(s):
Tied institutions are ranked alphabetically. 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.

TABLE 5-6

Institutional rankings for doctorate-holding nonfaculty researchers: 2020

(Number)

Institution	Rank	Total	Science	Engineering	Health
All institutions[a]	-	29,661	18,212	3,921	7,528
Harvard U.	1	1,143	552	63	528
U. Colorado	2	884	684	64	136
U. California, Davis	3	833	580	165	88
Stanford U.	4	824	422	93	309
Cornell U.	5	751	597	96	58
U. Illinois, Chicago	6	736	186	30	520
U. Wisconsin-Madison	7	701	345	52	304
U. Minnesota	8	613	342	89	182
Columbia U. in the City of New York	9	588	342	89	157
Washington U., Saint Louis	10	566	227	8	331
Georgia Institute of Technology	11	526	156	370	0
U. Maryland, College Park	12	499	401	73	25
U. California, Irvine	13	481	266	50	165
Duke U.	14	480	290	58	132
U. Arizona	15	462	416	26	20
U. Washington	16	455	296	19	140
Indiana U.	17	445	262	9	174
U. California, Berkeley	17	445	339	70	36
U. Michigan	19	442	206	70	166
U. California, Los Angeles	20	415	249	40	126
U. Pennsylvania	21	414	190	5	219
U. Iowa	22	364	169	43	152
Ohio State U.	23	360	103	86	171
U. California, San Diego	24	359	124	48	187
U. North Carolina, Chapel Hill	25	352	179	2	171
New York U.	26	330	144	7	179
Northwestern U.	27	323	105	35	183
U. Texas, Austin	27	323	228	92	3
U. Chicago	29	319	211	1	107
California Institute of Technology	30	311	281	30	0
Princeton U.	31	295	247	48	0
Case Western Reserve U.	32	275	138	52	85
U. Miami	33	267	139	3	125
U. Oregon	34	243	214	0	29
U. Cincinnati	35	240	23	5	212
U. Oklahoma	36	234	201	18	15
Oregon Health and Science U.	37	233	111	15	107
Arizona State U.	38	222	172	43	7
U. Alabama, Birmingham	39	216	87	7	122
U. California, Santa Barbara	40	214	186	28	0
Georgetown U.	41	213	187	0	26
Colorado State U., Fort Collins	42	210	180	21	9
U. California, Riverside	43	209	181	28	0
Texas A&M U.	44	208	162	33	13
U. Illinois, Urbana-Champaign	45	202	152	46	4
Rockefeller U.	46	193	193	0	0
Brown U.	47	191	169	10	12
Massachusetts Institute of Technology	48	188	81	107	0
Virginia Polytechnic Institute and State U.	49	179	111	66	2

TABLE 5-6

Institutional rankings for doctorate-holding nonfaculty researchers: 2020

(Number)

Institution	Rank	Total	Science	Engineering	Health
U. Kansas	50	177	100	13	64
U. South Florida, Tampa	51	176	126	19	31
U. Southern California	51	176	79	13	84
North Carolina State U.	53	174	117	51	6
U. Pittsburgh	53	174	81	8	85
Mayo Clinic, Mayo Graduate School	55	172	60	10	102
U. Arkansas for Medical Sciences	56	170	108	0	62
Texas Tech U.	57	162	97	22	43
U. Virginia	58	160	88	33	39
U. Missouri, Columbia	59	159	120	15	24
U. California, San Francisco	60	157	31	3	123
West Virginia U.	60	157	102	7	48
Emory U.	62	151	47	2	102
Rutgers, State U. New Jersey	63	141	123	12	6
George Mason U.	64	140	101	24	15
U. Maine	65	138	103	30	5
Montana State U.	66	136	103	33	0
U. Nevada, Reno	67	135	92	24	19
Scripps Research Institute	68	133	133	0	0
U. Maryland, Baltimore County	68	133	130	3	0
Vanderbilt U.	70	132	80	3	49
U. Louisiana, Lafayette	71	129	56	66	7
Sanford-Burnham Medical Research Institute	72	125	125	0	0
U. Louisville	73	124	25	18	81
U. Utah	74	123	84	14	25
Utah State U.	75	119	45	73	1
City of Hope, Irell and Manella Graduate School of Biological Sciences	76	115	115	0	0
Iowa State U.	77	114	102	12	0
Oklahoma State U.	78	107	87	20	0
U. Dayton	79	106	106	0	0
U. Texas Medical Branch	80	104	62	0	42
U. New Hampshire	81	103	101	2	0
Oregon State U.	82	101	86	11	4
U. Rochester	83	99	45	3	51
Purdue U.	84	91	42	38	11
Medical C. Wisconsin	85	87	25	5	57
Tufts U.	85	87	71	14	2
SUNY, Stony Brook U.	87	84	58	7	19
U. Montana	87	84	58	0	26
Wayne State U.	89	83	52	4	27
Wake Forest U.	90	80	29	14	37
Rice U.	91	79	47	31	1
U. Alabama, Huntsville	92	77	53	24	0
Catholic U. of America	93	75	73	2	0
U. Hawaii, Manoa	94	74	73	1	0
U. Houston	95	71	43	26	2
Marshall U.	96	68	29	16	23
Michigan Technological U.	96	68	21	47	0
Boston C.	98	67	66	0	1
Brandeis U.	98	67	67	0	0

TABLE 5-6

Institutional rankings for doctorate-holding nonfaculty researchers: 2020

(Number)

Institution	Rank	Total	Science	Engineering	Health
New Jersey Institute of Technology	100	66	45	21	0
Boston U.	101	65	41	0	24
SUNY, U. Albany	102	64	60	0	4
Thomas Jefferson U.	102	64	38	0	26
U. Mississippi	104	61	10	13	38
Clemson U.	105	60	40	17	3
Johns Hopkins U.	105	60	17	0	43
Medical U. South Carolina	107	59	28	0	31
U. Texas, Dallas	107	59	35	21	3
Morgan State U.	109	58	42	8	8
Northeastern U.	109	58	35	15	8
U. Nevada, Las Vegas	111	57	36	8	13
U. Texas, San Antonio	111	57	52	4	1
Kansas State U.	113	56	53	3	0
U. Tennessee, Knoxville	113	56	28	28	0
Woods Hole Oceanographic Institution	113	56	38	18	0
Louisiana State U.	116	54	43	9	2
Florida State U.	117	52	48	3	1
Colorado School of Mines	118	51	4	47	0
Michigan State U.	119	50	43	3	4
U. Massachusetts, Amherst	119	50	40	10	0
Carnegie Mellon U.	121	48	30	18	0
North Dakota State U.	122	47	37	9	1
U. Texas Health Science Center, San Antonio	122	47	31	0	16
Van Andel Institute	122	47	47	0	0
SUNY, U. Buffalo	125	45	40	1	4
U. Arkansas, Fayetteville	125	45	40	5	0
U. Denver	125	45	37	8	0
U. Memphis	125	45	37	3	5
Cold Spring Harbor Laboratory	129	44	44	0	0
Florida International U.	130	42	25	12	5
U. Alabama, Tuscaloosa	130	42	42	0	0
Lehigh U.	132	41	19	22	0
Boise State U.	133	40	19	19	2
U. Wyoming	134	39	36	3	0
U. South Carolina	135	38	9	7	22
Howard U.	136	37	22	2	13
Temple U.	137	36	34	0	2
U. Tennessee, Health Science Center	137	36	18	0	18
U. Wisconsin-Milwaukee	137	36	31	1	4
Old Dominion U.	140	35	19	16	0
U. Idaho	140	35	33	2	0
Auburn U.	142	33	30	2	1
George Washington U.	142	33	21	0	12
U. California, Merced	142	33	15	16	2
U. Texas, Arlington	142	33	9	18	6
U. South Dakota	146	32	31	1	0
Dartmouth C.	147	31	31	0	0
U. Massachusetts, Lowell	147	31	15	8	8
SUNY, Polytechnic Institute	149	30	0	30	0

TABLE 5-6

Institutional rankings for doctorate-holding nonfaculty researchers: 2020

(Number)

Institution	Rank	Total	Science	Engineering	Health
U. Delaware	149	30	16	12	2
Air Force Institute of Technology	151	29	8	21	0
U. Georgia	152	28	28	0	0
New Mexico State U.	153	27	25	1	1
U. Texas, El Paso	153	27	13	11	3
U. Missouri, Kansas City	155	26	9	1	16
Portland State U.	156	25	18	7	0
Claremont Graduate U.	157	24	24	0	0
Mercer U.	157	24	8	15	1
SUNY, Downstate Medical Center	157	24	4	0	20
U. Central Florida	157	24	17	7	0
Northern Illinois U.	161	23	17	2	4
Mississippi State U.	162	22	14	8	0
Ohio U.	162	22	3	8	11
Tulane U.	162	22	17	0	5
Uniformed Services U. of the Health Sciences	162	22	22	0	0
C. of William and Mary	166	21	21	0	0
Baylor U.	167	20	19	1	0
U. Alaska, Fairbanks	168	19	16	2	1
U. Nebraska-Lincoln	168	19	13	6	0
U. Southern Mississippi	168	19	14	4	1
Wright State U.	168	19	12	6	1
Eastern Virginia Medical School	172	18	10	0	8
Southern Methodist U.	173	17	16	1	0
Embry-Riddle Aeronautical U.	174	16	0	16	0
Marquette U.	174	16	8	6	2
Wichita State U.	174	16	6	10	0
California State U., Long Beach	177	15	8	7	0
U. Texas Health Science Center, Tyler	177	15	15	0	0
Northern Arizona U.	179	14	13	0	1
San Francisco State U.	179	14	14	0	0
U. North Texas, Denton	179	14	11	3	0
Florida A&M U.	182	13	5	0	8
U. North Dakota	182	13	3	5	5
U. Rhode Island	182	13	13	0	0
Albert Einstein C. of Medicine	185	12	7	0	5
Missouri U. of Science and Technology	185	12	3	9	0
U. New Mexico	185	12	10	2	0
Albany C. of Pharmacy and Health Sciences	188	11	0	0	11
CUNY, City C.	188	11	0	11	0
Drexel U.	188	11	3	3	5
Morehouse School of Medicine	188	11	11	0	0
U. Puerto Rico, Medical Sciences Campus	188	11	10	0	1
Worcester Polytechnic Institute	188	11	7	4	0
Miami U.	194	10	10	0	0
Rosalind Franklin U. of Medicine and Science	194	10	10	0	0
Texas A&M U.-Corpus Christi	194	10	10	0	0
Texas Christian U.	194	10	10	0	0
U. Tulsa	194	10	1	9	0
Kent State U.	199	9	9	0	0

TABLE 5-6

Institutional rankings for doctorate-holding nonfaculty researchers: 2020

(Number)

Institution	Rank	Total	Science	Engineering	Health
Rochester Institute of Technology	199	9	7	2	0
SUNY, Binghamton U.	199	9	4	5	0
U. Massachusetts, Dartmouth	199	9	9	0	0
U. North Carolina, Charlotte	199	9	7	2	0
U. North Carolina, Greensboro	199	9	5	3	1
U. Toledo	199	9	4	3	2
Pennsylvania State U.	206	8	5	3	0
South Dakota State U.	206	8	5	2	1
Syracuse U.	206	8	3	5	0
Chapman U.	209	7	5	0	2
Tuskegee U.	209	7	7	0	0
U. Akron	209	7	5	2	0
Western U. of Health Sciences	209	7	6	0	1
California State U., Los Angeles	213	6	6	0	0
Charles R. Drew U. of Medicine and Science	213	6	1	0	5
Clarkson U.	213	6	1	5	0
Louisiana Tech U.	213	6	2	4	0
Florida Atlantic U.	217	5	3	0	2
Midwestern U.	217	5	4	0	1
U. Connecticut	217	5	5	0	0
U. Missouri, Saint Louis	217	5	4	0	1
Alfred U.	221	4	0	4	0
Kennesaw State U.	221	4	4	0	0
Smith C.	221	4	1	2	1
Southern Illinois U., Carbondale	221	4	3	1	0
Texas A&M U.-Kingsville	221	4	4	0	0
Texas State U.	221	4	1	3	0
U. Baltimore	221	4	4	0	0
U. Vermont	221	4	4	0	0
Western Michigan U.	221	4	3	1	0
Fordham U.	230	3	3	0	0
Southern U. and A&M C.	230	3	3	0	0
U. Alaska, Anchorage	230	3	3	0	0
U. South Alabama	230	3	3	0	0
West Virginia State U.	230	3	3	0	0
Ball State U.	235	2	2	0	0
Christopher Newport U.	235	2	2	0	0
Idaho State U.	235	2	1	0	1
Keck Graduate Institute	235	2	2	0	0
Kettering U.	235	2	0	2	0
Lincoln U., Jefferson City	235	2	2	0	0
SUNY, C. of Optometry	235	2	2	0	0
Texas A&M U.-Central Texas	235	2	2	0	0
Texas Southern U.	235	2	0	0	2
U. Florida	235	2	0	0	2
U. Guam	235	2	2	0	0
U. North Carolina, Wilmington	235	2	2	0	0
U. of the Virgin Islands	235	2	2	0	0
U. Puerto Rico, Rio Piedras	235	2	2	0	0
Virginia Commonwealth U.	235	2	2	0	0

TABLE 5-6

Institutional rankings for doctorate-holding nonfaculty researchers: 2020

(Number)

Institution	Rank	Total	Science	Engineering	Health
California State U., Fullerton	250	1	0	0	1
California State U., Monterey Bay	250	1	1	0	0
Clark U.	250	1	1	0	0
Colorado State U., Pueblo	250	1	1	0	0
Creighton U.	250	1	1	0	0
CUNY, C. Staten Island	250	1	1	0	0
Furman U.	250	1	1	0	0
Grand Valley State U.	250	1	0	1	0
Hampton U.	250	1	1	0	0
Jackson State U.	250	1	1	0	0
New Mexico Highlands U.	250	1	1	0	0
Norfolk State U.	250	1	1	0	0
Northeastern Ohio Universities, C. of Medicine	250	1	0	0	1
Rowan U.	250	1	1	0	0
U. Maryland, Eastern Shore	250	1	1	0	0
U. New England	250	1	0	0	1

[a] Totals for "all institutions" include data imputed for nonresponding institutions; data imputed for nonresponding institutions are not shown separately.

Note(s):
Tied institutions are ranked alphabetically. 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.

Technical Notes

Survey Overview (2020 Survey Cycle)

Purpose. The Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) is an annual census of all academic institutions in the United States and its territories (Guam and Puerto Rico) granting research-based master's degrees or doctorates in science, engineering, or selected health (SEH) fields as of the fall of the survey year. Sponsored by the National Center for Science and Engineering Statistics (NCSES) within the National Science Foundation and by the National Institutes of Health (NIH), the GSS collects counts of graduate students, postdoctoral researchers (postdocs), and other doctorate-holding nonfaculty researchers (NFRs) at these institutions by demographic and other characteristics, such as source and mechanism of financial support. Results are used to assess shifts in graduate enrollment, shifts in postdoc and NFR appointments, and trends in financial support.

Data collection authority. The information collected by the GSS is solicited under the authority of the National Science Foundation Act of 1950, as amended, and the America COMPETES Reauthorization Act of 2010. The Office of Management and Budget (OMB) control number is 3145-0062 and expires on 31 August 2023.

Survey contractor. RTI International.

Survey sponsors. NCSES and NIH.

Key Survey Information

Frequency. Annual.

Initial survey year. 1966.

Reference period. Fall 2020.

Response unit. Organizational units (e.g., academic departments, degree-granting programs, university-affiliated research centers, and health care facilities) in academic institutions.

Sample or census. Census.

Population size. A total of 21,156 units at 712 academic institutions.

Sample size. Not applicable.

Survey Design

Target population. The survey target population is all academic institutions in the United States and its territories (Guam and Puerto Rico) that grant research-oriented master's or doctorate degrees in SEH fields. This population includes branch campuses, affiliated research centers and health facilities, and separately organized components, such as medical or dental schools, schools of nursing, and schools of public health.

In 2020, the survey universe included 712 institutions with 806 schools and 21,156 units.[1] There were 505 schools and 19,206 units within 411 doctorate-granting institutions and 301 schools and 1,950 units within 301 master's-granting institutions. Data were collected at the organizational-unit level. Detailed information on the changes to the survey universe and final number of institutions, schools, and units is provided in **appendix table A-1** through **appendix table A-5b**.

Sample frame. The total universe in 2020 included 21,156 units at 712 academic institutions in the United States that granted research-based master's degrees or doctorates in SEH fields.

Sample design. The GSS is a census in which eligible academic institutions are identified primarily through the Integrated Postsecondary Education Data System (IPEDS).

Data Collection and Processing Methods

Data collection. The survey data are collected through coordinators at eligible institutions. Coordinators are assigned by their institution and are responsible for identifying all GSS-eligible units, collecting the requested data, and submitting the data to the survey contractor. Coordinators query their institutional databases and report data through a file upload. Those unable to provide file uploads can manually enter data into the GSS Web survey. In cases where coordinators are unable to obtain the requested data, coordinators may enlist the aid of others (unit respondents) in their reporting activity. Unit respondents are most commonly used to report detailed financial data. Institutions may assign multiple coordinators. For example, an institution may have one coordinator for each school within the institution or may have separate coordinators for graduate student data and for postdoc and NFR data. When a new coordinator is needed, the president's office at the institution is asked to designate as coordinator the person most knowledgeable about the graduate student or postdoc data.

Once coordinators are confirmed, they are provided access to the GSS Web survey. On request, hard copies of the survey worksheets and GSS-eligible code lists also are mailed to each coordinator as reference. Data are collected at the organizational-unit level (e.g., departments, degree-granting programs, research centers, health facilities) and include demographic and funding information for graduate students and postdocs.

Data submission for the 2020 GSS survey was due on 1 March 2021. A 2-week extension was granted to 199 coordinators as of 1 March.

Mode. Electronic data interchange (EDI) is the primary mode of data submission. Coordinators unable to use this method could manually enter their data in the GSS Web survey.

A paper worksheet was provided for informational purposes and to assist in preparing figures to be manually entered in the Web survey. The content and format of the worksheets were identical to the data grids of the Web survey. A very small number of coordinators provided data to the survey contractor using an alternate method—typically, data tables in Microsoft Word, unformatted Excel documents, or PDFs. The survey contractor uploaded these data into the Web survey on behalf of the coordinators.

Response method calculations are better described at the coordinator level rather than at the school or institution level. It has become increasingly common for coordinators at the same school or institution to choose different response method options for each data type (students, postdocs, NFRs). For the 836 coordinators that submitted data in 2020, the modes of response were as follows:

- *EDI.* A total of 683 coordinators (81.7%) uploaded at least part of the requested data.
- *Manual data entry.* A total of 147 coordinators (17.6%) reported all GSS data manually through the Web survey.
- *Alternate methods.* Six coordinators (0.7%) provided data outside the official GSS Web instrument—typically, various file formats e-mailed directly to the survey contactor.

Response rates. Response rates are calculated based on responses to the survey's various data collection grids (graduate student and postdoc counts, by ethnicity and race; full-time graduate student and postdoc counts, by primary source or mechanism of support; counts of postdocs, by type of doctoral degree and primary mechanism of support; counts of postdocs, by type of doctoral degree and citizenship; counts of postdocs, by origin of doctoral degree; and counts of NFRs, by type of doctoral degree and sex).

The method for calculating response rates for units has changed over time. From 2007 to 2016, a complete response required all grids to be completed without error (i.e., the sum of detail counts equaled the grid totals). A unit where some count data were reported—including confirming that there were no counts of a certain data type in that unit—but not all grids were complete was classified as a partial response. Nonresponse was limited to units where no data were reported for all grids. Beginning in 2017, the response calculation was revised to look only at the grids where data were expected to be reported for a particular unit. For example, if no students were reported or expected for a particular unit, response was calculated based on missingness within the postdoc and NFR grids only. School and institution response rates are based on the overall status of the units within the school or institution. If at least 90% of the units in a school (or institution) provided complete or partial data, the school (or institution) is considered a *complete respondent.* If at least 50%, but less than 90%, of the units provided complete or partial data, the school (or institution) was considered a *partial respondent.* If less than 50% of the units provided data, the school (or institution) was considered a *nonrespondent.*

For information about the methods used before 2007, please see the technical notes section of the NCSES publication ***Graduate Students and Postdoctorates in Science and Engineering: Fall 2007***. Response-rate calculations for 2007 and beyond adhere to the American Association for Public Opinion Research standards for computing response rates.[2]

- *Unit response.* In 2020, the GSS received complete responses from 17,764 of the 21,156 eligible units (84.0%). An additional 2,722 units (12.9%) were partial respondents. The remaining 670 units (3.2%) were nonrespondents.
- *School response.* Of the 806 eligible schools, 746 schools (92.6%) were complete respondents, 17 schools (2.1%) were partial respondents, and 43 schools (5.3%) were nonrespondents.
- *Institutional response.* Institutional response rates were calculated using the same criteria for schools. Of the 712 eligible institutions, 663 institutions (93.1%) were complete respondents, 13 institutions (1.8%) were partial respondents, and 36 institutions (5.1%) were nonrespondents.

Data editing. Data quality is ensured by interactive edit checks built into the Web survey and by a comprehensive review after the coordinator submits the data. Data collection grids in the Web survey are prefilled with zeros. Respondents are asked to mark a checkbox if the unit does not have eligible data to report. If uploaded data for a unit only contain one type of student (e.g., the unit has master's students but no doctoral students), the appropriate checkbox indicating no students to report is auto filled by the system for the relevant grid. Grids with a marked checkbox contributed to a complete response for the unit. Grids with unchanged, prefilled zeros and an unmarked checkbox disqualified the unit from complete response status.

The Web survey contains edit checks to verify that the data entered are internally consistent and within an expected range, often based on the respondent's previous year data. In 2017, aggregate school-level edit checks were introduced, replacing unit-level checks. Reported aggregate school-level data are compared to the previous year for part-time, full-time, and first-time, full-time students as well as for postdoc and NFR counts. The survey contractor reviews all data submitted by institutions to ensure that data fields are complete and are internally consistent. The data collection team conducts a post-submission data review, whereby coordinators are asked to explain the discrepancy whenever counts differ substantially from those of the previous year. Follow-up with coordinators is also conducted when counts remain identical to the previous year and when there are notable changes to a school's unit list, including unit additions and deletions, changes to the highest-degree-granted status, GSS code, or unit name.[3]

On the basis of follow-up contacts, necessary revisions are made directly in the Web survey by the coordinator, unit respondents, or the survey contractor at the direction of the coordinator. See section "**Survey Quality Measures**" below for a discussion of the types of measurement error detected in the data review and follow-up process.

Imputation. The 2020 GSS collected 543 data items related to enrollment and financial support for master's and doctoral full-time and part-time students, postdocs, and NFRs. Of the 543 data items collected in the GSS, the item imputation rates ranged from 2.98% to 7.30%. All missing data were imputed.

Different imputation techniques were used for units with and for those without comparable historical data. For units missing a key total (total full-time master's, full-time doctoral, part-time master's, and part-time doctoral students, total postdocs, or total NFRs) with at least 1 year of qualified historical data, a carry-forward imputation method was used. Inflation factors were calculated for the six key totals to account for year-to-year change. The previous year's key totals were carried forward as the imputed values for the current year's key totals and imputed according to the previous year's proportions.

For units that reported totals but no details, details were imputed according to the prior distribution if qualified historical details were available. Otherwise, a nearest-neighbor imputation method was used. In this method, a donor unit that was "nearest" to the unit whose data were being imputed (imputee) was identified among all responding units having similar characteristics as the imputee (e.g., having the same GSS code for program fields and offering a doctoral degree). When graduate student details were imputed, the nearest neighbor selected had full-time and part-time graduate enrollments that were most similar to the imputee's enrollments by degree type. The imputed values were calculated by adjusting the donor's values to account for the difference in full-time and part-time enrollment totals within degree type between the two units.

Similarly, when postdoc or NFR details were imputed, the total number of postdocs or NFRs, respectively, was used to choose the nearest neighbor. If the postdoc or NFR total was missing, the graduate student totals were used to select the nearest neighbor to impute the postdoc or NFR variables. If either the postdoc or NFR key total (or both) was missing, other available key totals were used to select the nearest neighbor to impute the data. The same donor was then used to impute the details corresponding to the imputed key totals.

For institutions or schools that did not respond, all data at the unit level were imputed. These schools are *total institution or school nonrespondents*. For these institutions or schools, if prior unit-level data were available, counts were carried forward; if no prior data were available, then the nearest-neighbor imputation method was used.

Detailed information on the institutions, schools, units, fields, response rates, imputation rates, and a crosswalk between the 2020 Classification of Instructional Programs (CIP) codes and the GSS codes are provided in 17 technical tables for the 2020 GSS. Three additional technical tables are included with information on the taxonomy change.

Weighting. Not applicable.

Variance estimation. Not applicable.

Survey Quality Measures

Sampling error. Not applicable because the GSS is a census.

Coverage error. The availability of comprehensive lists of the master's- and doctorate-granting institutions in the United States and these institutions' high levels of participation in the survey ensures that the coverage error of institutions is minimal. The universe of higher education institutions is reviewed annually to identify potentially eligible institutions. Sources for this review include IPEDS, the Carnegie Classification of Institutions of Higher Education, the Higher Education Directory, the NCSES Higher Education Research and Development Survey, and professional association membership lists.

Nonresponse error. The GSS typically has high response rates. In 2020, 96.8% of units provided complete or partial data, and the overall institutional response rate was 94.9%. Of the 543 data items collected in the GSS, the item imputation rates ranged from 2.98% to 7.30%. All missing data are imputed.

Measurement error. The GSS is subject to measurement error that arises when variables of interest cannot be measured accurately or precisely. Review of the data, cognitive interviews, usability tests, pilot tests, site visits, and other methodological activities with the institutions have pointed to several possible sources of measurement error, listed below.

- *Double counting.* Anecdotal evidence indicates some misreporting may occur when an institution has more than one coordinator or offers joint programs. To reduce double counting, facilitate communication, and allow sharing of reported data, a screen in the Web survey provides names and contact information for all coordinators at the institution. Interactive and post-submission checks are also used to confirm that similarly named units within institutions are distinct eligible units.
- *Inclusion of practitioner degrees.* Graduate students working toward practitioner degrees, particularly in health fields with explicit exclusions, may sometimes be overreported. Starting with the 2007 survey cycle, survey materials indicated that students should be excluded from the counts if they are pursuing DDS or MD degrees or master's and certain other degrees in specified fields. During the imputation process—and to be conservative in the absence of other information—new units that were suspected of having reported graduate students in excluded degree-field programs based on the GSS code were set to having zero graduate students. In the 2011 survey cycle, checks were built into the Web survey to remind respondents to exclude students pursuing practitioner-based degrees. The 2017 redesign included a requirement that coordinators confirm via a pop-up dialog that they excluded practitioner degrees from the data provided in their upload files.
- *Difficulty in reporting source and mechanism of support.* Feedback from respondents and methodological research indicates that financial support data are often difficult for respondents to report. The information may not be stored in one centralized database; financial support may not always be channeled through the institution (e.g., self-support); and foreign sources of support may not always be known. Respondents may also have difficulty categorizing financial information by field, such as when a student is enrolled in one unit but receives support from another. Therefore, these data may be more prone to measurement error than other survey data items. Finally, institutions define mechanisms of support differently (e.g., fellowships vs. traineeships) and may report individuals according to the institution's definition rather than that provided by the GSS. Beginning with the 2010 survey, the grids include Unknown categories.
- *Difficulty in reporting postdocs and NFRs.* Many respondents indicate in the Web survey that they are unable to provide data on their units' postdocs or NFRs because they do not know all of the units that employ postdocs and NFRs. Starting with the 2010 survey cycle, schools were given the option of appointing a separate postdoc coordinator who may be more knowledgeable about a school's postdocs or NFRs to provide these data.

Data Comparability

Changes in survey coverage and population.

- *Fields of study.*

  2020: The list of GSS-eligible CIP codes was updated to align with the revised 2020 CIP list and NCSES Taxonomy of Disciplines (TOD). Since most coordinators report graduate student data using CIP, it was important that GSS update the taxonomy to include the newest CIP codes on the same timeline as CIP. As part of this update, new CIP codes were added, CIP codes were changed, and a small number of CIP codes were removed. Most of the changes in CIP eligibility were made to ensure that the implementation of the new CIP codes included programs that were GSS eligible and likely were being reported (based on unit names). The GSS codes of Data science and data analytics and of Medical clinical sciences were added for reporting new CIP codes in these fields. Due to changes in CIP and TOD, Veterinary biomedical and clinical sciences were moved from Other health to Agricultural sciences (renamed Agricultural and veterinary sciences). To improve alignment with TOD, Human development moved from Social sciences to Psychology.

In addition to the adjustments made due to the changes in CIP and TOD, GSS made additional changes based on data reporting patterns that emerged due to the 2017 redesign. Generally, these changes created more detailed fields out of larger GSS codes or reorganized existing codes to align with current enrollment patterns. Broad fields were added to Engineering for the first time. In some cases, GSS codes with a small number of graduate students were combined for reporting purposes. For more information on these changes, see **table A-17**, **table A-18a**, and **table A-18b** in the 2020 Technical Notes.

2017: The list of GSS-eligible disciplinary fields was updated in 2017 to align with the TOD. Among the major changes in the update: several fields became ineligible—Architecture, Communications, and Public administration; portions of Nutrition and of Family and consumer sciences and human sciences also became ineligible. Several fields changed names. A new broad field titled Natural resources and conservation was split from Agricultural sciences. Computer sciences was split into three fields, and the Biological and biomedical sciences field was reorganized. The taxonomy changes resulted in previously reported units being split across separate GSS codes or moving between codes or broad fields. For more information on the 2017 taxonomy updates, see **technical table A-1** in the technical notes section of ***Graduate Students and Postdoctorates in Science and Engineering: Fall 2017***.

2014: The survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed academic institutions in the United States with master's- or doctorate-granting programs in SEH. Eligible units at 151 newly eligible institutions were added, and 2 private, for-profit institutions offering mostly practitioner-based graduate degrees were determined to be ineligible. An additional 4 institutions dropped out of the data collection in 2014 because they no longer grant graduate degrees in SEH fields; 2 merged with previously eligible institutions; and 1 began reporting data under another institution. As a result, the total number of institutions included in the GSS increased from 564 in 2013 to 706 in 2014. The total net increase in the number of GSS-eligible units was 826, rising to 14,845 in 2014 from 14,019 in 2013. See **technical table A-1** in the technical notes section of ***Graduate Students and Postdoctorates in Science and Engineering: Fall 2014***.

For more information on the survey frame update, see the Special Report ***Assessing the Impact of Frame Changes on Trend Data from the Survey of Graduate Students and Postdoctorates in Science and Engineering***.

- *Eligibility and degree-granting status.*

  Institutions are classified as doctorate granting if at least one GSS-eligible unit confers doctoral degrees. In 2020, 2 institutions became ineligible for the GSS. In addition, 12 institutions changed GSS degree-granting status: 9 from doctorate-granting to master's-granting institutions, and 3 from master's-granting to doctorate-granting institutions. As a result, the total number of institutions included in the GSS decreased from 714 in 2019 to 712 in 2020 (see **table A-3**).

Changes in survey content.

- *Sex.*

  2010: Began collecting ethnicity, race, and citizenship data on postdocs by sex and began collecting type of doctoral degree data on NFRs by sex.

  2008: Began collecting the number of first-time, full-time male graduate students by ethnicity and race; full-time male graduate students by source of support; male postdocs by source of support; and male NFRs. Previously, the number of men was inferred by subtracting the number of women from the total.

- *Ethnicity and race.*

  2010: Began collecting ethnicity and race data for postdocs who are U.S. citizens and permanent residents using the same categories as used for graduate students.

2008: Revised ethnicity and race categories to correspond to IPEDS by combining “Hispanic/Latino, one race only” and “Hispanic/Latino, more than one race” categories into “Hispanic/Latino (one or more races).”

- *Citizenship.*

2010: Began collecting citizenship data on postdocs using the same categories that are used for graduate students. In previous years, only counts of postdocs who are foreign nationals holding temporary visas were collected.

2008: Clarification made for “non-U.S. citizens” to exclude non-U.S. citizens residing outside of the United States who are enrolled in an online degree program at a U.S. institution.

- *Financial support.*

2010: Began collecting data on the largest source of financial support and on the largest mechanism of support separately for postdocs. For mechanism of support, “nonfederal sources” was replaced with “other support.”

2008: Graduate student data are no longer collected for NIH teaching assistantships because NIH does not offer financial support for students through this mechanism.

2008: Began collecting the number of full-time graduate students whose largest source of support came from a non-U.S. source via teaching assistantship.

- *Degree level.*

2017: Began separate collection of demographic and financial data by master’s and doctoral students.

- *Doctoral degree.*

2010: Began collecting more detailed information on postdocs’ and NFRs’ doctoral degree type. Categories were added for those holding a doctoral degree (e.g., PhD, ScD, DEng), a professional degree (e.g., MD, DVM, DO, DDS), and dual degrees (e.g., MD-PhD, DVM-PhD) as well as for those for whom type of degree was unknown. In previous years, the GSS collected degree-type information by asking respondents to indicate how many of the total number of postdocs (or NFRs) had MD, DO, DDS, or DVM degrees. This number was used to estimate the number of postdocs (or NFRs) with medical degrees; the number with research degrees was estimated as the difference between the total counts and the counts of those with medical degrees.

2010: Began collecting postdocs’ doctoral degree type by citizenship and by country of origin (United States, foreign, unknown) of doctoral degrees. Also began collecting NFRs’ doctoral degree type by sex.

Changes in Web survey instrument.

2017: Grids for demographics of part-time, of full-time, and of first-time, full-time master’s students were added to the instrument. Grids for source and mechanism of financial support of full-time master’s students were also added.

Changes in survey procedures.

2017: Coordinators were asked to report master’s and doctoral student data separately and to use CIP codes to categorize their organizational units when reporting student data. Coordinators could report organizational units with postdocs and NFRs using either CIP or GSS codes. Two alternative methods for uploading the GSS data were expected of coordinators in 2017. The first option enabled coordinators to utilize an Excel template file to construct a de-identified, individual-level data file. This file could then be uploaded directly into the Web survey. The second option enabled the coordinator to aggregate the individual-level data to the unit level using an Excel macro provided in the template file rather than transmit any individual-level data. A manual data entry option was available to those

unable to provide an uploaded file. Coordinators had access to data file templates, a sample SQL SELECT statement containing all GSS-eligible CIP codes that could be used to query their information systems, online training videos, and additional support from the survey contractor on the new data collection changes. Coordinators could continue to use unit respondents to provide part or all of the data request. Organizational units that reported using CIP codes were automatically re-coded to the updated GSS taxonomy by the Web instrument. Coordinators reporting data using GSS rather than CIP codes were asked to re-code their organizational units to the updated GSS taxonomy.

2010: Significant effort was made to ensure that appropriate personnel were providing postdoc and NFR data. As a result, it is unclear how much of the increase reported in 2010 represented actual growth in postdocs and how much resulted from improved data collection. For information on the improved data collection and changes in postdoc data, see ***Counts of Postdoctoral Appointees in Science, Engineering, and Health Rise with Reporting Improvements***; for changes in NFR data, see ***Examining the Reporting of Nonfaculty Doctorate Researchers in the Survey of Graduate Students and Postdoctorates in Science and Engineering***.

Historical changes. Changes have been made over the years to the coverage and content of the GSS to keep it relevant to the needs of data users. Such changes impact analysis of trend data, so data comparisons across years should be made with caution. This is especially true for counts; however, proportions or shares are typically robust enough to allow for such comparisons.

In 2017, due to the taxonomy and data collection changes (described above), a set of bridge estimates was created to permit comparisons to previous years and for trend analyses. These estimates are labeled 2017old and are available at the broad field level for all combined graduate student variables as well as postdoc variables. Due to a large increase in counts attributable to prior underreporting, 2017old estimates are not available for NFR data. The data reported as 2017new use the updated GSS taxonomy and are comparable to 2018, 2019, and 2020 data but are not comparable to data from prior years. Please note that in tables that compare data from 2017 to the present that 2017new data are used.

Due to the survey frame update, the data comparisons between 2014 and earlier years should use the 2014old data, and those between 2014 and 2016 should use the 2014new data. The impact of frame updates can be evaluated using the 2014old and 2014new data. For more information on the survey frame update, see the Special Report ***Assessing the Impact of Frame Changes on Trend Data from the Survey of Graduate Students and Postdoctorates in Science and Engineering***. For more information on the changes prior to 2010, see the technical notes section of ***Graduate Students and Postdoctorates in Science and Engineering: Fall 2009***. For specific changes from the major survey redesign in 2007, see the technical notes section of the **2007 report**.

Definitions

Degree level.

- *Master's degree.* A post-baccalaureate, research-focused degree; includes MA, MS, MASc, and PSM in GSS-eligible disciplines.
- *PhD or PhD equivalent degree.* An advanced, research-focused academic degree—typically, the highest degree granted in a particular field; includes doctorates such as PhD, ScD, DSc, and DEng.

Enrollment status.

- *Full-time and part-time.* Coordinators were instructed to use their institution's definitions.
- *First-time, full-time.* Students enrolled for credit in a graduate degree program in an organizational unit for the first time in the fall semester of the survey year. This may include graduate students previously enrolled in another graduate degree program at the institution or at another institution and students who already hold another graduate or professional degree.

Ethnicity and race—The GSS uses definitions of ethnicity and race that are based on the OMB's *Standards for the Classification of Federal Data on Race and Ethnicity*.

- *Hispanic/Latino ethnicity (one or more races)*.[4] All individuals of Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish culture or origin, regardless of race. This category includes individuals who are Hispanic or Latino and any other race(s).
- *Not Hispanic/Latino.* Individuals who are not of Hispanic or Latino descent, regardless of race.
- *American Indian or Alaska Native.* A person of only one race having origins in any of the original peoples of North and South America (including Central America) and who maintains tribal affiliation or community attachment.
- *Asian.* A person of only one race having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent—for example, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Thailand, and Vietnam.
- *Black or African American.* A person of only one race having origins in any of the Black racial groups of Africa.
- *Native Hawaiian or Other Pacific Islander.* A person of only one race having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific islands.
- *White.* A person of only one race having origins in any of the original peoples of Europe, the Middle East, or North Africa.
- *More than one race.* A person of two or more of the race categories listed above.
- *Unknown ethnicity or race.* A person whose ethnicity or race is unknown or not stated.

Graduate student mechanisms of financial support.

- *Fellowship.* A competitive award (often from a national competition) given to a graduate student that requires no work of the recipient.
- *Traineeship.* A financial award given to a graduate student selected by the institution.
- *Research assistantship.* A financial award given to a graduate student for which most of the student's responsibilities are devoted primarily to research.
- *Teaching assistantship.* A financial award given to a graduate student for which most of the student's responsibilities are devoted primarily to teaching assistant activities.
- *Other support.* All other mechanisms of support for graduate students.

Graduate student sources of financial support.

- *Federal sources.* Financial support provided by U.S. federal agencies. Excludes federally guaranteed student loans.
- *Nonfederal sources.* Financial support from state and local governments; support from the institution, such as tuition waivers and stipends; support from foreign sources, such as foreign governments, foreign firms, and agencies of the United Nations; and other U.S. sources, such as support from nonprofit institutions, private industry, and all other nonfederal U.S. sources.
- *Self-support.* Loans (including federal loans) or personal or family financial contributions.

Historically Black colleges and universities (HBCUs). Institutions of higher education that were established prior to 1964 and whose principal mission was, and is, the education of Black Americans. The list of HBCUs is maintained by the White House Initiative on HBCUs (https://sites.ed.gov/whhbcu/).

Nonfaculty researchers (NFRs). All doctorate-holding researchers who (1) are not considered either postdocs or members of the faculty, and (2) are involved principally in SEH research activities. Also referred to as *Other doctorate-holding NFRs*.

Postdoctoral researchers (postdocs). The definition of a postdoc varies by institution. Respondents were instructed to use their institution's definition. NCSES defines a postdoc as meeting both of the following qualifications: (1) holds a recent doctoral degree, generally awarded within the past 5–7 years, such as PhD or equivalent (e.g., ScD, DEng), or first-professional degree in a medical or related field (e.g., MD, DDS, DO, DVM), or foreign degree equivalent to a U.S. doctoral degree; and (2) has a limited-term appointment, generally no more than 5–7 years, primarily for training in research or scholarship, and working under the supervision of a senior scholar in a unit affiliated with the institution.

Postdoc mechanisms of financial support.

- *Traineeship.* A financial award given to a postdoc selected by the institution.
- *Research grant.* A financial assistance award given to an organization or an individual postdoc that supports specific research goals.
- *Other support.* All other mechanisms of support for postdocs.

Postdoc sources of financial support.

- *Federal sources.* Financial support provided by U.S. federal agencies.
- *Nonfederal sources.* Financial support from state and local governments; support from the institution; support from foreign sources, such as foreign governments, foreign firms, and agencies of the United Nations; and other U.S. sources, such as support from nonprofit institutions, private industry, and all other nonfederal U.S. sources.
- *Personal resources.* Personal and family financial resources, including federal and other loans.
- *Unknown or not stated.* Sources of financial support for the postdoc are unknown or cannot be determined.

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TABLE A-1

Changes in the organizational unit listing: 2018–20

(Number)

Activity	2018	2019	2020[a]
Units at start of data collection	18,745	19,592	20,249
Units added	5,512	4,493	6,328
Units deleted	4,665	3,836	5,421
Units at end of data collection	19,592	20,249	21,156
Net difference	847	657	907

[a] In 2020, the Survey of Graduate Students and Postdoctorates in Science and Engineering taxonomy was revised to reflect changes in the Classification of Instructional Programs 2020 and to improve the level of detail in several fields.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE A-2

Changes in the institution status: 2019–20

(Number and detail)

Institution status
New institutions (0)
Became ineligible for the survey (2)
U. Alaska, Southeast
U. South Florida, Saint Petersburg
Merged Institutions (0)
Changed from a doctorate-granting to master's-granting institution (9)[a]
California State U., Northridge
East Stroudsburg U. Pennsylvania
Eastern Michigan U.
Eastern Virginia Medical School
Roosevelt U.
Southern Connecticut State U.
Troy U.
U. New Haven
Winston-Salem State U.
Changed from a master's-granting to doctorate-granting institution (3)[a]
A. T. Still U.
Rivier U.
U. Indianapolis

[a] Change in degree-granting status refers only to institutions that are eligible for the Survey of Graduate Students and Postdoctorates in Science and Engineering and with master's- or doctorate-granting programs in science, engineering, or health. Some institutions within these classifications may offer doctorate or master’s degrees in other academic fields.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE A-3

Surveyed institutions, schools, organizational units, and graduate enrollment, by type of institution: 1972–2020

(Number)

Year	Institutions	Schools[a]	Organizational units				Graduate enrollment		
			Total	Master's	Doctorate	Nondegree	Total	Full time	Part time
All institutions									
1972[b]	252	321	4,568	764	3,804	0	207,859	159,392	48,467
1973[b]	255	333	6,523	851	5,557	115	214,348	161,525	52,823
1974[b]	276	367	7,468	1,387	5,951	130	259,968	190,562	69,406
1975	584	682	9,003	2,829	6,038	136	328,510	219,648	108,862
1976	594	693	9,110	2,895	6,074	141	333,716	223,412	110,304
1977	601	704	9,392	3,081	6,168	143	345,374	226,738	118,636
1978	599	708	9,509	3,126	6,239	144	339,912	223,030	116,882
1979	629	745	9,686	3,203	5,153	1,330	357,578	231,760	125,818
1980	626	742	9,798	3,255	5,011	1,532	367,078	238,416	128,662
1981	622	736	9,728	3,256	4,938	1,534	375,130	242,049	133,081
1982	609	724	9,584	3,241	4,822	1,521	382,291	244,757	137,534
1983	609	723	9,467	3,211	4,741	1,515	390,432	252,017	138,415
1984	412	530	8,791	2,503	4,725	1,563	394,670	253,922	140,748
1985	412	525	8,911	2,550	4,751	1,610	404,021	257,287	146,734
1986	412	527	8,985	2,558	4,782	1,645	415,520	266,168	149,352
1987	416	533	9,104	2,563	4,850	1,691	421,497	271,056	150,441
1988	606	723	10,015	3,310	4,950	1,755	424,523	275,127	149,396
1989	609	726	10,187	3,372	5,026	1,789	434,478	282,648	151,830
1990	610	727	10,358	3,448	5,059	1,851	452,113	292,782	159,331
1991	609	726	10,598	3,517	5,180	1,901	471,212	307,010	164,202
1992	608	725	10,872	3,602	5,298	1,972	493,522	322,555	170,967
1993	606	723	11,103	3,650	5,391	2,062	504,304	329,644	174,660
1994	605	722	11,365	3,759	5,500	2,106	504,399	332,088	172,311
1995	603	720	11,566	3,837	5,539	2,190	499,640	329,283	170,357
1996	603	720	11,579	3,886	5,507	2,186	494,079	328,536	165,543
1997	601	722	11,589	3,994	5,526	2,069	487,208	327,289	159,919
1998	601	721	11,685	4,020	5,590	2,075	485,627	327,389	158,238
1999	599	719	11,827	4,015	5,773	2,039	493,256	334,423	158,833
2000	596	716	11,894	4,085	5,791	2,018	493,311	341,283	152,028
2001	601	720	11,962	4,096	5,826	2,040	509,607	354,522	155,085
2002	596	715	12,126	4,165	5,931	2,030	540,404	378,991	161,413
2003	593	712	12,261	4,185	6,080	1,996	567,121	397,420	169,701
2004	591	710	12,268	4,180	6,142	1,946	574,463	402,573	171,890
2005	588	702	12,297	4,123	6,231	1,943	582,226	406,620	175,606
2006	588	707	12,320	4,109	6,294	1,917	597,643	419,015	178,628
2007old[c]	582	700	12,325	4,148	6,418	1,759	607,823	430,860	176,963
2007new[c]	582	700	12,629	4,335	6,525	1,769	619,499	437,365	182,134
2008	579	708	13,166	4,399	6,710	2,057	631,489	449,613	181,876
2009	575	703	13,285	4,336	6,774	2,175	631,645	456,115	175,530
2010	574	692	13,711	4,416	6,863	2,432	632,652	461,185	171,467
2011	565	686	13,785	4,295	6,849	2,641	626,820	457,292	169,528
2012	565	684	13,952	4,320	6,911	2,721	627,243	459,498	167,745
2013	564	680	14,019	4,314	6,875	2,830	633,010	468,953	164,057
2014old[d]	557	671	14,369	4,375	6,940	3,054	650,738	484,880	165,858
2014new[d]	706	821	14,845	4,769	6,988	3,088	666,586	492,170	174,416
2015	711	824	15,202	4,901	7,104	3,197	685,397	506,262	179,135
2016[e]	714	828	15,853	5,054	7,217	3,582	684,825	508,773	176,052

TABLE A-3

Surveyed institutions, schools, organizational units, and graduate enrollment, by type of institution: 1972–2020

(Number)

Year	Institutions	Schools[a]	Organizational units				Graduate enrollment		
			Total	Master's	Doctorate	Nondegree	Total	Full time	Part time
2017[f]	703	814	18,745	5,580	7,004	6,161	649,112	480,788	168,324
2018	715	817	19,592	5,857	7,180	6,555	668,307	491,449	176,858
2019	714	809	20,249	5,985	7,203	7,061	690,117	502,442	187,675
2020[g]	712	806	21,156	6,425	7,251	7,480	697,813	491,515	206,298
Doctorate institutions									
1972	252	321	4,568	764	3,804	0	207,859	159,392	48,467
1973	255	333	6,523	851	5,557	115	214,348	161,525	52,823
1974	276	367	7,468	1,387	5,951	130	259,968	190,562	69,406
1975	345	443	8,031	1,857	6,038	136	301,902	209,328	92,574
1976	355	454	8,131	1,916	6,074	141	305,824	213,033	92,791
1977	357	460	8,361	2,050	6,168	143	313,938	215,377	98,561
1978	345	454	8,381	1,998	6,239	144	308,107	211,508	96,599
1979	371	487	8,612	2,130	5,153	1,329	323,677	219,634	104,043
1980	370	486	8,714	2,174	5,011	1,529	333,164	225,877	107,287
1981	370	484	8,645	2,174	4,938	1,533	339,946	229,708	110,238
1982	369	484	8,504	2,162	4,822	1,520	346,668	232,980	113,688
1983	371	485	8,386	2,133	4,741	1,512	354,060	239,220	114,840
1984	346	464	8,320	2,033	4,725	1,562	353,673	239,400	114,273
1985	346	459	8,434	2,074	4,751	1,609	362,581	242,748	119,833
1986	346	461	8,509	2,083	4,782	1,644	373,545	251,562	121,983
1987	350	467	8,626	2,087	4,850	1,689	378,785	255,936	122,849
1988	377	494	8,949	2,250	4,950	1,749	386,300	262,351	123,949
1989	380	497	9,084	2,276	5,026	1,782	394,510	269,679	124,831
1990	379	496	9,234	2,332	5,059	1,843	409,419	278,637	130,782
1991	379	496	9,435	2,362	5,180	1,893	425,914	291,508	134,406
1992	379	496	9,678	2,417	5,298	1,963	445,704	305,979	139,725
1993	379	496	9,875	2,434	5,391	2,050	454,745	312,519	142,226
1994	378	495	10,093	2,499	5,500	2,094	455,332	313,976	141,356
1995	377	494	10,269	2,552	5,539	2,178	449,555	310,538	139,017
1996	378	495	10,289	2,608	5,507	2,174	444,319	309,418	134,901
1997	377	498	10,271	2,688	5,526	2,057	438,135	307,697	130,438
1998	377	497	10,366	2,713	5,590	2,063	435,826	307,040	128,786
1999	378	498	10,482	2,683	5,773	2,026	443,104	313,866	129,238
2000	377	497	10,526	2,726	5,791	2,009	443,542	319,923	123,619
2001	381	500	10,577	2,728	5,826	2,023	459,438	332,732	126,706
2002	376	495	10,726	2,778	5,931	2,017	487,645	355,611	132,034
2003	376	495	10,849	2,790	6,080	1,979	510,335	372,366	137,969
2004	376	495	10,858	2,781	6,142	1,935	518,641	377,984	140,657
2005	375	489	10,907	2,745	6,231	1,931	527,048	381,198	145,850
2006	376	495	10,946	2,745	6,294	1,907	542,073	393,138	148,935
2007old[c]	375	493	10,976	2,830	6,418	1,728	551,832	403,722	148,110
2007new[c]	375	493	11,210	2,949	6,525	1,736	561,352	409,421	151,931
2008	376	505	11,773	3,042	6,710	2,021	574,241	422,287	151,954
2009	366	493	11,865	2,956	6,774	2,135	573,883	428,856	145,027
2010	364	481	12,276	3,023	6,863	2,390	575,785	433,252	142,533
2011	368	488	12,419	2,964	6,849	2,606	570,534	430,623	139,911
2012	367	485	12,567	2,977	6,911	2,679	571,578	433,177	138,401
2013	364	480	12,607	2,940	6,875	2,792	574,004	439,950	134,054

TABLE A-3

Surveyed institutions, schools, organizational units, and graduate enrollment, by type of institution: 1972–2020

(Number)

Year	Institutions	Schools[a]	Organizational units				Graduate enrollment		
			Total	Master's	Doctorate	Nondegree	Total	Full time	Part time
2014old[d]	366	480	12,985	3,028	6,940	3,017	588,600	451,884	136,716
2014new[d]	406	521	13,140	3,115	6,988	3,037	588,952	452,801	136,151
2015	412	525	13,506	3,251	7,104	3,151	604,944	464,695	140,249
2016[e]	415	529	14,188	3,451	7,217	3,520	609,420	468,678	140,742
2017[f]	399	509	16,971	3,934	7,004	6,033	577,139	442,001	135,138
2018	421	522	17,782	4,186	7,180	6,416	602,332	457,543	144,789
2019	417	512	18,460	4,322	7,203	6,935	627,136	469,732	157,404
2020[g]	411	505	19,206	4,611	7,251	7,344	628,220	456,426	171,794
Master's institutions									
1975[h]	239	239	972	972	na	0	26,608	10,320	16,288
1976	239	239	979	979	na	0	27,892	10,379	17,513
1977	244	244	1,031	1,031	na	0	31,436	11,361	20,075
1978[i]	254	254	1,128	1,128	na	0	31,805	11,522	20,283
1979	258	258	1,074	1,073	na	1	33,901	12,126	21,775
1980	256	256	1,084	1,081	na	3	33,914	12,539	21,375
1981	252	252	1,083	1,082	na	1	35,184	12,341	22,843
1982	240	240	1,080	1,079	na	1	35,623	11,777	23,846
1983	238	238	1,081	1,078	na	3	36,372	12,797	23,575
1984	66	66	471	470	na	1	40,997	14,522	26,475
1985	66	66	477	476	na	1	41,440	14,539	26,901
1986	66	66	476	475	na	1	41,975	14,606	27,369
1987	66	66	478	476	na	2	42,712	15,120	27,592
1988	229	229	1,066	1,060	na	6	38,223	12,776	25,447
1989	229	229	1,103	1,096	na	7	39,968	12,969	26,999
1990	231	231	1,124	1,116	na	8	42,694	14,145	28,549
1991	230	230	1,163	1,155	na	8	45,298	15,502	29,796
1992	229	229	1,194	1,185	na	9	47,818	16,576	31,242
1993	227	227	1,228	1,216	na	12	49,559	17,125	32,434
1994	227	227	1,272	1,260	na	12	49,067	18,112	30,955
1995	226	226	1,297	1,285	na	12	50,085	18,745	31,340
1996	225	225	1,290	1,278	na	12	49,760	19,118	30,642
1997	224	224	1,318	1,306	na	12	49,073	19,592	29,481
1998	224	224	1,319	1,307	na	12	49,801	20,349	29,452
1999	221	221	1,345	1,332	na	13	50,152	20,557	29,595
2000	219	219	1,368	1,359	na	9	49,769	21,360	28,409
2001	220	220	1,385	1,368	na	17	50,169	21,790	28,379
2002	220	220	1,400	1,387	na	13	52,759	23,380	29,379
2003	217	217	1,412	1,395	na	17	56,786	25,054	31,732
2004	215	215	1,410	1,399	na	11	55,822	24,589	31,233
2005	213	213	1,390	1,378	na	12	55,178	25,422	29,756
2006	212	212	1,374	1,364	na	10	55,570	25,877	29,693
2007old[c]	207	207	1,349	1,318	na	31	55,991	27,138	28,853
2007new[c]	207	207	1,419	1,386	na	33	58,147	27,944	30,203
2008	203	203	1,393	1,357	na	36	57,248	27,326	29,922
2009	209	210	1,420	1,380	na	40	57,762	27,259	30,503
2010	210	211	1,435	1,393	na	42	56,867	27,933	28,934
2011	197	198	1,366	1,331	na	35	56,286	26,669	29,617
2012	198	199	1,385	1,343	na	42	55,665	26,321	29,344

TABLE A-3

Surveyed institutions, schools, organizational units, and graduate enrollment, by type of institution: 1972–2020

(Number)

Year	Institutions	Schools[a]	Organizational units				Graduate enrollment		
			Total	Master's	Doctorate	Nondegree	Total	Full time	Part time
2013	200	200	1,412	1,374	na	38	59,006	29,003	30,003
2014old[d]	191	191	1,384	1,347	na	37	62,138	32,996	29,142
2014new[d]	300	300	1,705	1,654	na	51	77,634	39,369	38,265
2015	299	299	1,696	1,650	na	46	80,453	41,567	38,886
2016[e]	299	299	1,665	1,603	na	62	75,405	40,095	35,310
2017[f]	304	305	1,774	1,646	na	128	71,973	38,787	33,186
2018	294	295	1,810	1,671	na	139	65,975	33,906	32,069
2019	297	297	1,789	1,663	na	126	62,981	32,710	30,271
2020[g]	301	301	1,950	1,814	na	136	69,593	35,089	34,504

na = not applicable.

[a] Schools are administrative and degree-granting entities within academic institutions. Schools surveyed may exceed institutions surveyed because schools at some institutions report information to the survey separately. Examples of schools eligible for the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) include graduate schools, schools of architecture, schools of medicine, schools of nursing, schools of pharmacology, schools of public health, and schools of veterinary medicine.

[b] Data collected only from the doctorate-granting institutions.

[c] In 2007, GSS-eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of GSS-eligible units. "2007new" presents data as collected in 2007; "2007old" reflects data as they would have been collected under 2006 methodology. See appendix A.

[d] In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed academic institutions in the United States with master's- or doctorate-granting programs in science, engineering, or health. A total of 151 newly eligible institutions were added, and two private for-profit institutions offering mostly practitioner-based graduate degrees were determined to be ineligible.

[e] The 2016 survey included a pilot data collection to assess the feasibility of several data collection changes, including the use of Classification of Instructional Programs (CIP) codes for reporting data and file uploads for transmitting data. The number of units added and deleted by pilot coordinators was much greater than is typical. These increases are largely due to how data are organized in institutional information systems and the increased granularity of CIP codes relative to GSS codes rather than a reflection of increased organizational complexity.

[f] The 2017 GSS survey was redesigned to fully implement the changes in the 2016 pilot to all coordinators (collection via CIP code and uploads; separate reporting of master's and doctoral data) and to align with GSS taxonomy with the National Center for Science and Engineering Statistics Taxonomy of Disciplines (TOD), which made several fields ineligible. Thus, there was an increase in the number of units reported and a decrease in the number of graduate students reported to the GSS. Data from 2017 are not directly comparable to 2016 and earlier.

[g] In 2020, new CIP codes were added to align with the CIP 2020 and the 2020 revision to TOD. Additionally, several GSS codes were split to show additional detail. Code splits may lead to an increase in units.

[h] The 1976 survey also collected 1975 data from master's-granting institutions.

[i] Master's-granting institutions were not surveyed in 1978; totals represent estimates based on 1977 and 1979 data.

Note(s):
Data from 1972 to 1974 are not directly comparable with data from 1975 forward due to changes both in science and engineering fields and in types of institutions covered in the survey. In 2007, newly eligible science fields were added.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE A-4

Science, engineering, and health organizational units with graduate student enrollment, by detailed field: 2018–20

(Number)

Field	2018			2019			2020		
	All units with students	Units with master's students	Units with doctoral students	All units with students	Units with master's students	Units with doctoral students	All units with students	Units with master's students	Units with doctoral students
All surveyed fields[a]	13,000	10,093	7,083	13,149	10,281	7,135	13,659	10,704	7,205
Science	9,338	6,984	5,113	9,451	7,119	5,148	9,720	7,364	5,161
Agricultural and veterinary sciences	290	267	183	291	268	185	333	299	212
Agricultural sciences	290	267	183	291	268	185	300	275	187
Veterinary biomedical and clinical sciences[b]	na	na	na	na	na	na	33	24	25
Biological and biomedical sciences[c]	2,614	1,545	1,839	2,638	1,581	1,848	2,632	1,591	1,814
Biochemistry	188	84	159	190	93	158	180	87	150
Biology	394	349	161	386	338	166	382	336	162
Biomedical sciences	159	105	95	175	112	106	174	119	100
Biophysics	39	3	39	44	6	44	39	6	39
Biostatistics and bioinformatics	176	126	118	185	135	119	194	139	120
Biotechnology	67	61	8	76	71	8	85	80	7
Botany and plant biology	68	55	60	67	55	57	68	55	58
Cell, cellular biology, and anatomical sciences	190	74	161	187	79	154	186	76	154
Ecology and population biology	109	71	79	107	67	79	108	74	78
Epidemiology	70	50	57	85	58	65	86	61	63
Genetics	102	51	77	98	48	73	93	49	71
Microbiological sciences and immunology	177	79	148	174	79	146	172	82	143
Molecular biology	53	21	38	53	20	40	54	20	41
Neurobiology and neuroscience	169	35	156	178	44	160	169	42	153
Nutrition science	103	94	54	101	92	53	103	87	56
Pathology and experimental pathology	48	15	44	44	14	39	43	12	37
Pharmacology and toxicology	133	60	117	130	63	114	135	56	117
Physiology	176	90	131	179	97	132	192	107	137
Zoology and animal biology	77	63	66	75	62	65	72	59	64
Biological and biomedical sciences nec	116	59	71	104	48	70	97	44	64
Computer and information sciences	858	785	267	905	833	266	976	899	275
Artificial intelligence, informatics, and computer and information science topics	na	na	na	na	na	na	78	69	18
Computer and information sciences	331	292	110	350	311	108	209	180	81
Computer and information systems security	na	na	na	na	na	na	123	121	6
Computer science	261	243	112	264	248	111	268	252	116

TABLE A-4

Science, engineering, and health organizational units with graduate student enrollment, by detailed field: 2018–20

(Number)

Field	2018			2019			2020		
	All units with students	Units with master's students	Units with doctoral students	All units with students	Units with master's students	Units with doctoral students	All units with students	Units with master's students	Units with doctoral students
Information science and studies	na	na	na	na	na	na	129	118	31
Information technology	na	na	na	na	na	na	84	81	10
Computer and information sciences nec	266	250	45	291	274	47	85	78	13
Geosciences, atmospheric sciences, and ocean sciences	401	344	265	390	335	265	396	338	267
Atmospheric sciences and meteorology	53	43	43	49	39	43	51	43	43
Geological and earth sciences	271	233	170	264	228	169	260	225	166
Ocean and marine sciences	77	68	52	77	68	53	85	70	58
Mathematics and statistics	641	554	323	659	571	326	710	614	331
Applied mathematics	na	na	na	na	na	na	200	162	79
Mathematics	na	na	na	na	na	na	318	278	163
Mathematics and applied mathematics	467	398	234	476	406	237	na	na	na
Statistics	174	156	89	183	165	89	192	174	89
Multidisciplinary and interdisciplinary studies[c]	299	233	112	300	232	113	354	279	124
Biological and physical sciences	na	na	na	na	na	na	37	31	15
Computational science	na	na	na	na	na	na	47	37	15
Data science and data analytics	NA	NA	NA	NA	NA	NA	35	34	2
International and global studies	na	na	na	na	na	na	30	27	7
Multidisciplinary and interdisciplinary studies nec	na	na	na	na	na	na	205	150	85
Natural resources and conservation	356	312	146	356	312	148	354	302	152
Environmental science and studies	202	173	64	199	171	66	199	163	70
Forestry, natural resources, and conservation	154	139	82	157	141	82	155	139	82
Physical sciences	782	560	549	786	575	554	783	572	545
Astronomy and astrophysics	60	15	54	63	17	57	58	15	51
Chemistry	360	290	231	357	284	229	354	284	224
Materials sciences	47	30	38	51	36	40	59	37	47
Physics	287	205	213	288	219	216	284	215	210
Physical sciences nec	28	20	13	27	19	12	28	21	13
Psychology	1,022	716	466	1,029	735	465	1,143	827	503
Applied psychology	na	na	na	na	na	na	391	330	141
Clinical psychology	129	68	71	128	63	76	126	65	71
Counseling psychology	na	na	na	na	na	na	130	97	44

TABLE A-4

Science, engineering, and health organizational units with graduate student enrollment, by detailed field: 2018–20

(Number)

Field	2018			2019			2020		
	All units with students	Units with master's students	Units with doctoral students	All units with students	Units with master's students	Units with doctoral students	All units with students	Units with master's students	Units with doctoral students
Counseling and applied psychology	482	375	192	491	397	179	na	na	na
Human development[d]	na	na	na	na	na	na	71	63	27
Psychology, general	299	222	127	287	215	125	274	204	117
Research and experimental psychology	112	51	76	123	60	85	151	68	103
Social sciences	2,075	1,668	963	2,097	1,677	978	2,039	1,643	938
Agricultural and natural resource economics	50	42	28	46	38	25	42	36	20
Anthropology	175	132	105	175	127	106	173	134	103
Area, ethnic, cultural, gender, and group studies	na	na	na	na	na	na	311	249	121
Criminal justice and safety studies	103	100	21	110	107	22	112	108	21
Criminology	na	na	na	na	na	na	42	39	14
Economics (except agricultural and natural resource)	263	202	149	267	209	152	268	211	146
Geography and cartography	166	159	68	166	159	67	169	162	69
Human development[d]	65	55	27	67	59	26	na	na	na
International relations and national security studies	97	91	17	94	88	16	98	94	13
Linguistics	102	78	56	101	73	59	104	74	63
Political science and government	221	168	128	222	166	131	211	161	127
Public policy analysis	133	102	56	143	110	58	148	112	60
Sociology	234	165	129	235	162	130	230	162	127
Urban studies and affairs	na	na	na	na	na	na	37	30	14
Social sciences, other[e]	na	na	na	na	na	na	94	71	40
History and philosophy of science[e]	15	9	14	15	8	14	na	na	na
Social sciences nec[e]	451	365	165	456	371	172	na	na	na
Engineering[f]	2,246	2,016	1,338	2,272	2,051	1,354	2,459	2,188	1,416
Aerospace, aeronautical, and astronautical engineering	63	62	48	64	62	49	69	65	51
Biological, biomedical, and biosystems engineering[e]	na	na	na	na	na	na	220	186	155
Bioengineering and biomedical engineering[e]	192	166	138	193	168	140	na	na	na
Biological and biosystems engineering[e]	14	8	13	15	10	14	na	na	na
Chemical, petroleum, and chemical-related engineering	189	168	143	185	169	143	189	169	144
Chemical engineering	164	145	128	159	145	128	163	145	128
Petroleum engineering	25	23	15	26	24	15	26	24	16

TABLE A-4

Science, engineering, and health organizational units with graduate student enrollment, by detailed field: 2018–20

(Number)

Field	2018			2019			2020		
	All units with students	Units with master's students	Units with doctoral students	All units with students	Units with master's students	Units with doctoral students	All units with students	Units with master's students	Units with doctoral students
Civil, environmental, transportation and related engineering fields	326	302	187	330	308	185	379	350	203
Civil engineering	326	302	187	330	308	185	249	233	151
Architectural, environmental, construction and surveying engineering	na	na	na	na	na	na	130	117	52
Electrical, electronics, communications and computer engineering	417	392	221	421	395	225	466	434	242
Electrical, electronics, and communications engineering	417	392	221	421	395	225	287	265	172
Computer engineering	na	na	na	na	na	na	179	169	70
Industrial, manufacturing, systems engineering and operations research	213	194	101	223	204	102	243	222	110
Industrial and manufacturing engineering	213	194	101	223	204	102	134	129	61
Systems engineering and operations research	na	na	na	na	na	na	109	93	49
Mechanical engineering	261	250	166	263	253	164	284	263	169
Metallurgical, mining, materials and related engineering fields[e]	148	125	105	144	130	105	152	133	109
Metallurgical and materials engineering[e]	120	99	90	119	106	90	na	na	na
Mining engineering[e]	28	26	15	25	24	15	na	na	na
Other engineering	423	349	216	434	352	227	457	366	233
Agricultural engineering	30	29	25	33	31	26	32	29	27
Engineering mechanics, physics, and science	59	44	42	65	47	43	72	51	45
Nuclear engineering	34	31	29	31	30	29	33	31	30
Engineering, other[e]	na	na	na	na	na	na	320	255	131
Nanotechnology[e]	6	4	2	7	4	3	na	na	na
Engineering nec[e]	294	241	118	298	240	126	na	na	na
Health	1,416	1,093	632	1,426	1,111	633	1,480	1,152	628
Clinical medicine	489	429	184	499	442	185	538	473	195
Medical clinical sciences and clinical and medical laboratory sciences	NA	NA	NA	NA	NA	NA	62	50	23
Public health	439	386	165	446	399	165	476	423	172
Clinical medicine nec	50	43	19	53	43	20	ne	ne	ne
Other health	927	664	448	927	669	448	942	679	433
Communication disorders sciences	237	215	73	244	223	70	249	228	68
Dental sciences	101	90	24	87	78	20	87	79	19
Kinesiology and exercise science	na	na	na	na	na	na	159	151	42

TABLE A-4

Science, engineering, and health organizational units with graduate student enrollment, by detailed field: 2018–20

(Number)

Field	2018			2019			2020		
	All units with students	Units with master's students	Units with doctoral students	All units with students	Units with master's students	Units with doctoral students	All units with students	Units with master's students	Units with doctoral students
Nursing science	119	17	111	125	18	117	137	22	121
Pharmaceutical sciences	117	72	91	119	77	92	127	83	95
Veterinary biomedical and clinical sciences[b]	36	28	23	38	28	25	na	na	na
Other health nec	317	242	126	314	245	124	183	116	88

na = not applicable; data collected under different Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) codes or GSS code moved. NA = not available; GSS code contains Classification of Instructional Programs codes added in 2020. ne = not eligible.

nec = not elsewhere classified.

[a] Several field names changed in 2020; the field names listed in this table are the field names used in the GSS collection and reporting for 2020. For a complete list of field names used from 2017 to 2020, see https://ncses.nsf.gov/pubs/nsf21318/table/A-17.

[b] In 2020, veterinary biomedical and clinical sciences moved from other health to agriculture and veterinary sciences.

[c] Prior to 2020, multidisciplinary and interdisciplinary studies was reported as a single broad field with no detailed fields; the detailed fields were added in 2020.

[d] In 2020, human development moved from social sciences to psychology.

[e] Starting in 2020 some fields were combined for reporting. See technical table A-17 for more information.

[f] In 2020, broad fields were added to engineering.

Note(s):
This file only contains fields where graduate students may be reported.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE A-5a

Science, engineering, and health organizational units with nonfaculty researchers, by detailed field: 2018–20

(Number)

Field	2018	2019	2020
All surveyed fields[a]	4,987	5,460	5,671
Science	2,891	3,109	3,258
Agricultural and veterinary sciences	146	169	236
Agricultural sciences	146	169	169
Veterinary biomedical and clinical sciences[b]	na	na	67
Biological and biomedical sciences[c]	1,163	1,195	1,271
Biochemistry	101	103	118
Biology	129	126	139
Biomedical sciences	27	37	33
Biophysics	5	7	13
Biostatistics and bioinformatics	63	57	64
Biotechnology	12	12	14
Botany and plant biology	35	31	31
Cell, cellular biology, and anatomical sciences	87	88	83
Ecology and population biology	45	35	42
Epidemiology	20	20	28
Genetics	63	74	80
Microbiological sciences and immunology	108	115	122
Molecular biology	29	29	30
Neurobiology and neuroscience	92	96	101
Nutrition science	37	24	25
Pathology and experimental pathology	47	51	46
Pharmacology and toxicology	71	75	73
Physiology	94	107	116
Zoology and animal biology	33	35	37
Biological and biomedical sciences nec	65	73	76
Computer and information sciences	126	149	138
Artificial intelligence, informatics, and computer and information science topics	na	na	18
Computer and information sciences	45	55	28
Computer and information systems security	na	na	1
Computer science	52	56	57
Information science and studies	na	na	10
Information technology	na	na	4
Computer and information sciences nec	29	38	20
Geosciences, atmospheric sciences, and ocean sciences	206	226	219
Atmospheric sciences and meteorology	41	41	43
Geological and earth sciences	104	126	117
Ocean and marine sciences	44	42	43
Geosciences, atmospheric sciences, and ocean sciences nec	17	17	16
Mathematics and statistics	69	76	68
Applied mathematics	na	na	13
Mathematics	na	na	28
Mathematics and applied mathematics	49	53	na
Statistics	20	23	27
Multidisciplinary and interdisciplinary studies[c]	155	177	151
Biological and physical sciences	na	na	13
Computational science	na	na	6
Data science and data analytics	NA	NA	10
International and global studies	na	na	10
Multidisciplinary and interdisciplinary studies nec	na	na	112

TABLE A-5a

Science, engineering, and health organizational units with nonfaculty researchers, by detailed field: 2018–20

(Number)

Field	2018	2019	2020
Natural resources and conservation	118	133	126
Environmental science and studies	47	48	44
Forestry, natural resources, and conservation	71	85	82
Physical sciences	377	391	420
Astronomy and astrophysics	45	50	55
Chemistry	144	154	164
Materials sciences	23	21	24
Physics	150	145	155
Physical sciences nec	15	21	22
Psychology	114	129	167
Applied psychology	na	na	21
Clinical psychology	5	5	7
Counseling psychology	na	na	5
Counseling and applied psychology	23	32	na
Human development[d]	na	na	32
Psychology, general	64	73	77
Research and experimental psychology	22	19	25
Social sciences	417	464	462
Agricultural and natural resource economics	18	19	18
Anthropology	33	35	39
Area, ethnic, cultural, gender, and group studies	na	na	57
Criminal justice and safety studies	6	7	8
Criminology	na	na	3
Economics (except agricultural and natural resource)	41	43	48
Geography and cartography	30	35	32
Human development[d]	26	32	na
International relations and national security studies	9	11	11
Linguistics	15	14	14
Political science and government	23	28	27
Public policy analysis	62	63	73
Sociology	42	46	47
Urban studies and affairs	na	na	8
Social sciences, other[e]	na	na	77
History and philosophy of science[e]	1	2	na
Social sciences nec[e]	111	129	na
Engineering[f]	751	822	851
Aerospace, aeronautical, and astronautical engineering	26	24	29
Biological, biomedical, and biosystems engineering[e]	na	na	102
Bioengineering and biomedical engineering[e]	76	91	na
Biological and biosystems engineering[e]	9	11	na
Chemical, petroleum, and chemical-related engineering	83	89	86
Chemical engineering	71	79	75
Petroleum engineering	12	10	11
Civil, environmental, transportation and related engineering fields	107	120	127
Civil engineering	107	120	112
Architectural, environmental, construction and surveying engineering	na	na	15
Electrical, electronics, communications and computer engineering	120	128	139
Electrical, electronics, and communications engineering	120	128	127
Computer engineering	na	na	12

TABLE A-5a

Science, engineering, and health organizational units with nonfaculty researchers, by detailed field: 2018–20

(Number)

Field	2018	2019	2020
Industrial, manufacturing, systems engineering and operations research	39	40	43
Industrial and manufacturing engineering	39	40	22
Systems engineering and operations research	na	na	21
Mechanical engineering	98	105	99
Metallurgical, mining, materials and related engineering fields[e]	65	72	64
Metallurgical and materials engineering[e]	53	59	na
Mining engineering[e]	12	13	na
Other engineering	128	142	162
Agricultural engineering	17	16	15
Engineering mechanics, physics, and science	18	18	20
Nuclear engineering	13	11	11
Engineering, other[e]	na	na	116
Nanotechnology[e]	11	17	na
Engineering nec[e]	69	80	na
Health	1,345	1,529	1,562
Clinical medicine	1,044	1,195	1,268
Anesthesiology	38	42	38
Cardiology	33	37	34
Endocrinology	27	29	29
Gastroenterology	20	19	20
Hematology	22	28	27
Medical clinical sciences and clinical and medical laboratory sciences	NA	NA	55
Neurology	66	73	75
Obstetrics and gynecology	27	31	33
Oncology and cancer research	49	69	65
Ophthalmology	45	42	46
Otorhinolaryngology	29	27	28
Pediatrics	60	96	96
Psychiatry	52	47	51
Public health	119	135	137
Pulmonary disease	25	22	28
Radiological sciences	52	61	70
Surgery	113	127	127
Clinical medicine nec	267	310	309
Other health	301	334	294
Communication disorders sciences	25	23	24
Dental sciences	33	35	35
Kinesiology and exercise science	na	na	20
Nursing science	40	38	38
Pharmaceutical sciences	63	77	83
Veterinary biomedical and clinical sciences[b]	54	61	na
Other health nec	86	100	94

na = not applicable; data collected under different Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) codes or GSS code moved. NA = not available; GSS code contains Classification of Instructional Programs (CIP) codes added in 2020.

nec = not elsewhere classified.

[a] Several field names changed in 2020; the field names listed in this table are the field names used in the GSS collection and reporting for 2020. For a complete list of field names from 2017 to 2020, see https://ncses.nsf.gov/pubs/nsf21318/table/A-17.

[b] In 2020, veterinary biomedical and clinical sciences moved from other health to agriculture and veterinary sciences.

[c] Prior to 2020, multidisciplinary and interdisciplinary studies was reported as a single broad field with no detailed fields; the detailed fields were

added in 2020.

[d] In 2020, human development moved from social sciences to psychology.

[e] Starting in 2020, some fields were combined for reporting. See technical table A-16 for more information.

[f] In 2020, broad fields were added to engineering.

Note(s):
"Field" refers to the field of the unit that reports doctorate-holding nonfaculty researchers to the GSS. This file only contains fields where graduate students may be reported. Detailed fields listed as NA are comprised entirely of CIP codes added in 2020. For more information on the mapping of GSS 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.

TABLE A-5b

Science, engineering, and health organizational units with postdocs, by detailed field: 2018–20

(Number)

Field	2018	2019	2020
All surveyed fields[a]	7,211	7,533	7,613
Science	4,145	4,287	4,399
Agricultural and veterinary sciences	187	183	259
Agricultural sciences	187	183	179
Veterinary biomedical and clinical sciences[b]	na	na	80
Biological and biomedical sciences[c]	1,733	1,745	1,796
Biochemistry	125	132	140
Biology	200	201	186
Biomedical sciences	60	61	71
Biophysics	15	18	19
Biostatistics and bioinformatics	84	79	89
Biotechnology	17	19	20
Botany and plant biology	48	49	48
Cell, cellular biology, and anatomical sciences	119	119	116
Ecology and population biology	58	52	53
Epidemiology	36	41	40
Genetics	91	93	100
Microbiological sciences and immunology	153	156	156
Molecular biology	39	41	50
Neurobiology and neuroscience	141	146	146
Nutrition science	41	44	42
Pathology and experimental pathology	81	82	80
Pharmacology and toxicology	101	98	100
Physiology	167	167	188
Zoology and animal biology	48	46	46
Biological and biomedical sciences nec	109	101	106
Computer and information sciences	163	179	169
Artificial intelligence, informatics, and computer and information science topics	na	na	16
Computer and information sciences	57	72	47
Computer and information systems security	na	na	3
Computer science	66	75	76
Information science and studies	na	na	10
Information technology	na	na	5
Computer and information sciences nec	40	32	12
Geosciences, atmospheric sciences, and ocean sciences	250	266	258
Atmospheric sciences and meteorology	46	43	42
Geological and earth sciences	123	142	140
Ocean and marine sciences	53	54	52
Geosciences, atmospheric sciences, and ocean sciences nec	28	27	24
Mathematics and statistics	171	182	176
Applied mathematics	na	na	31
Mathematics	na	na	104
Mathematics and applied mathematics	130	140	na
Statistics	41	42	41
Multidisciplinary and interdisciplinary studies[c]	181	177	179
Biological and physical sciences	na	na	17
Computational science	na	na	8
Data science and data analytics	NA	NA	14
International and global studies	na	na	6
Multidisciplinary and interdisciplinary studies nec	na	na	134

TABLE A-5b

Science, engineering, and health organizational units with postdocs, by detailed field: 2018–20

(Number)

Field	2018	2019	2020
Natural resources and conservation	137	148	139
Environmental science and studies	60	62	55
Forestry, natural resources, and conservation	77	86	84
Physical sciences	551	556	565
Astronomy and astrophysics	61	62	66
Chemistry	220	222	223
Materials sciences	27	31	29
Physics	225	222	226
Physical sciences nec	18	19	21
Psychology	215	214	249
Applied psychology	na	na	36
Clinical psychology	19	18	17
Counseling psychology	na	na	8
Counseling and applied psychology	61	50	na
Human development[d]	na	na	41
Psychology, general	103	110	104
Research and experimental psychology	32	36	43
Social sciences	557	637	609
Agricultural and natural resource economics	21	22	20
Anthropology	54	59	66
Area, ethnic, cultural, gender, and group studies	na	na	102
Criminal justice and safety studies	7	8	10
Criminology	na	na	2
Economics (except agricultural and natural resource)	43	50	56
Geography and cartography	43	41	46
Human development[d]	34	41	na
International relations and national security studies	11	21	16
Linguistics	22	22	27
Political science and government	46	56	48
Public policy analysis	59	59	61
Sociology	65	69	61
Urban studies and affairs	na	na	4
Social sciences, other[e]	na	na	90
History and philosophy of science[e]	7	12	na
Social sciences nec[e]	145	177	na
Engineering[f]	1,011	1,051	1,108
Aerospace, aeronautical, and astronautical engineering	29	31	35
Biological, biomedical, and biosystems engineering[e]	na	na	156
Bioengineering and biomedical engineering[e]	121	130	na
Biological and biosystems engineering[e]	15	15	na
Chemical, petroleum, and chemical-related engineering	132	132	139
Chemical engineering	122	118	127
Petroleum engineering	10	14	12
Civil, environmental, transportation and related engineering fields	146	157	175
Civil engineering	146	157	152
Architectural, environmental, construction and surveying engineering	na	na	23
Electrical, electronics, communications and computer engineering	150	169	160
Electrical, electronics, and communications engineering	150	169	144
Computer engineering	na	na	16

TABLE A-5b

Science, engineering, and health organizational units with postdocs, by detailed field: 2018–20

(Number)

Field	2018	2019	2020
Industrial, manufacturing, systems engineering and operations research	46	44	49
Industrial and manufacturing engineering	46	44	30
Systems engineering and operations research	na	na	19
Mechanical engineering	136	145	148
Metallurgical, mining, materials and related engineering fields[e]	76	83	85
Metallurgical and materials engineering[e]	63	73	na
Mining engineering[e]	13	10	na
Other engineering	160	145	161
Agricultural engineering	21	18	20
Engineering mechanics, physics, and science	19	18	20
Nuclear engineering	14	13	13
Engineering, other[e]	na	na	108
Nanotechnology[e]	19	16	na
Engineering nec[e]	87	80	na
Health	2,055	2,195	2,106
Clinical medicine	1,605	1,741	1,743
Anesthesiology	48	55	56
Cardiology	59	61	54
Endocrinology	37	44	43
Gastroenterology	35	41	41
Hematology	27	38	30
Medical clinical sciences and clinical and medical laboratory sciences	NA	NA	46
Neurology	114	111	121
Obstetrics and gynecology	52	53	54
Oncology and cancer research	129	133	110
Ophthalmology	69	73	70
Otorhinolaryngology	34	35	37
Pediatrics	107	129	132
Psychiatry	76	77	83
Public health	149	159	177
Pulmonary disease	30	32	43
Radiological sciences	84	103	110
Surgery	164	187	175
Clinical medicine nec	391	410	361
Other health	450	454	363
Communication disorders sciences	32	33	32
Dental sciences	57	55	56
Kinesiology and exercise science	na	na	29
Nursing science	38	46	49
Pharmaceutical sciences	101	99	93
Veterinary biomedical and clinical sciences[b]	80	81	na
Other health nec	142	140	104

na = not applicable; data collected under different Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) codes or GSS code moved. NA = not available; GSS code contains Classification of Instructional Programs (CIP) codes added in 2020.

nec = not elsewhere classified.

[a] Several field names changed in 2020; the field names listed in this table are the field names used in the GSS collection and reporting for 2020. For a complete list of field names from 2017 to 2020, see https://ncses.nsf.gov/pubs/nsf21318/table/A-17.

[b] In 2020, veterinary biomedical and clinical sciences moved from other health to agriculture and veterinary sciences.

[c] Prior to 2020, multidisciplinary and interdisciplinary studies was a reported as single a broad field with no detailed fields; the detailed fields were

added in 2020.

[d] In 2020, human development moved from social sciences to psychology.

[e] Starting in 2020, some fields were combined for reporting. See technical table A-16 for more information.

[f] In 2020, broad fields were added to engineering.

Note(s):
"Field" refers to the field of the unit that reports doctorate-holding nonfaculty researchers to the GSS. This file only contains fields where graduate students may be reported. Detailed fields listed as NA are comprised entirely of CIP codes added in 2020. For more information on the mapping of GSS 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.

TABLE A-6

Response rates for science, engineering, and health organizational units: 1975–2020

(Number and percent)

Year	Total	Total response		Complete response		Partial response		Nonresponse	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
1975[a]	9,162	8,998	98.2	8,998	98.2	NA	NA	164	1.8
1976	9,275	9,148	98.6	9,148	98.6	NA	NA	127	1.4
1977	9,513	9,432	99.1	9,432	99.1	NA	NA	81	0.9
1978[b]	8,242	8,077	98.0	8,077	98.0	NA	NA	165	2.0
1979	9,796	9,446	96.4	9,446	96.4	NA	NA	350	3.6
1980	9,930	9,593	96.6	9,593	96.6	NA	NA	337	3.4
1981	9,917	9,207	92.8	8,594	86.7	613	6.2	710	7.2
1982	9,776	8,848	90.5	8,104	82.9	744	7.6	928	9.5
1983	9,663	8,886	92.0	8,070	83.5	816	8.4	777	8.0
1984	8,748	8,133	93.0	7,490	85.6	643	7.4	615	7.0
1985	9,025	8,490	94.1	7,818	86.6	672	7.4	535	5.9
1986	9,097	8,596	94.5	7,817	85.9	779	8.6	501	5.5
1987	9,254	8,745	94.5	8,030	86.8	715	7.7	509	5.5
1988	10,295	9,782	95.0	8,812	85.6	970	9.4	513	5.0
1989	10,318	9,799	95.0	8,908	86.3	891	8.6	519	5.0
1990	10,483	9,937	94.8	8,884	84.7	1,053	10.0	546	5.2
1991	10,705	10,238	95.6	9,052	84.6	1,186	11.1	467	4.4
1992	10,936	10,604	97.0	9,066	82.9	1,538	14.1	332	3.0
1993	11,146	10,711	96.1	9,156	82.1	1,555	14.0	435	3.9
1994	11,411	10,972	96.2	8,863	77.7	2,109	18.5	439	3.8
1995	11,598	11,244	96.9	9,514	82.0	1,730	14.9	354	3.1
1996	11,592	11,373	98.1	9,851	85.0	1,522	13.1	219	1.9
1997	11,597	11,385	98.2	9,720	83.8	1,665	14.4	212	1.8
1998	11,718	11,528	98.4	9,822	83.8	1,706	14.6	190	1.6
1999	11,833	11,685	98.7	9,396	79.4	2,289	19.3	148	1.3
2000	11,899	11,783	99.0	9,818	82.5	1,965	16.5	116	1.0
2001	11,967	11,852	99.0	10,121	84.6	1,731	14.5	115	1.0
2002	12,126	12,001	99.0	10,434	86.0	1,567	12.9	125	1.0
2003	12,261	12,052	98.3	10,343	84.4	1,709	13.9	209	1.7
2004old[c]	12,240	12,035	98.3	10,426	85.2	1,609	13.1	205	1.7
2004new[d]	12,240	11,998	98.0	10,524	86.0	1,474	12.0	242	2.0
2005[d]	12,396	12,053	97.2	10,783	87.0	1,270	10.2	343	2.8
2006[d]	12,320	11,991	97.3	10,814	87.8	1,177	9.6	329	2.7
2007[e]	12,629	12,310	97.5	11,020	87.3	1,290	10.2	319	2.5
2008	13,166	13,010	98.8	11,574	87.9	1,436	10.9	156	1.2
2009	13,285	13,187	99.3	11,709	88.1	1,478	11.1	98	0.7
2010[f]	13,711	13,583	99.1	11,601	84.6	1,982	14.5	128	0.9
2011[f]	13,785	13,627	98.9	11,622	84.3	2,005	14.5	158	1.1
2012	13,952	13,898	99.6	11,914	85.4	1,984	14.2	54	0.4
2013	14,019	13,979	99.7	12,056	86.0	1,923	13.7	40	0.3
2014old[g]	14,369	14,336	99.8	12,413	86.4	1,923	13.4	33	0.2
2014new[g]	14,845	14,798	99.7	12,832	86.4	1,966	13.2	47	0.3
2015	15,202	15,119	99.5	12,714	83.6	2,405	15.8	83	0.5
2016	15,853	15,774	99.5	13,617	85.9	2,157	13.6	79	0.5
2017[h]	18,745	18,293	97.6	15,946	85.1	2,347	12.5	452	2.4
2018	19,592	19,384	98.9	16,410	83.8	2,974	15.2	208	1.1
2019	20,249	19,718	97.4	17,035	84.1	2,683	13.3	531	2.6

TABLE A-6

Response rates for science, engineering, and health organizational units: 1975–2020

(Number and percent)

Year	Total	Total response		Complete response		Partial response		Nonresponse	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
2020	21,156	20,486	96.8	17,764	84.0	2,722	12.9	670	3.2

NA = not available; organizational units providing partial responses are included in complete response column prior to 1981 and reported separately beginning in 1981.

[a] The 1976 survey also collected 1975 data from master's-granting institutions.

[b] Master's-granting institutions were not surveyed in 1978; totals represent estimates based on 1977 and 1979 data.

[c] Calculated using response-rate formula used through 2003. See appendix A, "Technical Notes."

[d] Calculated using response-rate formula used from 2004 to 2006. Schools closed in 2005 because of Hurricane Katrina were counted as nonrespondents.

[e] Calculated using response-rate formula implemented in 2007. See appendix A, "Technical Notes."

[f] The 2010 and 2011 postdoctoral appointees (postdocs) and doctorate-holding nonfaculty researcher data were reimputed following the 2012 data collection; these numbers have been updated to reflect the reimputed data and supersede those contained in previous reports.

[g] In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed academic institutions in the United States with master's- or doctorate-granting programs in science, engineering, or health. A total of 151 newly eligible institutions were added, and two private for-profit institutions offering mostly practitioner-based graduate degrees were determined to be ineligible.

[h] In 2017, the data collection methods changed, substantially increasing the number of added units. In addition, several previously eligible fields became ineligible.

Note(s):
Percentages may not add to total because of rounding.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE A-7

Imputation for nonresponse within graduate student totals, by field and type of graduate degree: 2018–20

(Number and percent)

Year and field	Total in survey				Number imputed				Imputation rate (%)			
	Master's students		Doctoral students		Master's students		Doctoral students		Master's students		Doctoral students	
	Full time	Part time	Full time	Part time	Full time	Part time	Full time	Part time	Full time	Part time	Full time	Part time
Fall 2020, all surveyed fields[a]	243,859	170,619	247,656	35,679	6,582	3,837	6,512	993	2.7	2.2	2.6	2.8
Science	155,502	112,402	175,039	21,703	4,867	2,712	5,558	558	3.1	2.4	3.2	2.6
Agricultural and veterinary sciences	3,731	2,756	3,540	773	64	52	40	6	1.7	1.9	1.1	0.8
Biological and biomedical sciences	26,473	13,447	51,107	3,798	618	383	1,650	108	2.3	2.8	3.2	2.8
Computer and information sciences	39,929	40,761	15,473	2,701	1,970	692	560	109	4.9	1.7	3.6	4.0
Geosciences, atmospheric sciences, and ocean sciences	3,649	1,628	5,807	708	90	58	216	16	2.5	3.6	3.7	2.3
Mathematics and statistics	11,622	6,662	12,419	1,268	124	96	316	36	1.1	1.4	2.5	2.8
Multidisciplinary and interdisciplinary studies	6,169	4,811	2,870	683	901	609	53	7	14.6	12.7	1.8	1.0
Natural resources and conservation	5,536	3,257	2,912	793	139	57	107	28	2.5	1.8	3.7	3.5
Physical sciences	3,686	2,589	33,952	2,389	91	48	1,065	27	2.5	1.9	3.1	1.1
Psychology	28,716	18,563	17,452	3,663	559	422	364	131	1.9	2.3	2.1	3.6
Social sciences	25,991	17,928	29,507	4,927	311	295	1,187	90	1.2	1.6	4.0	1.8
Engineering	49,179	37,271	62,061	9,218	640	740	765	149	1.3	2.0	1.2	1.6
Aerospace, aeronautical, and astronautical engineering	2,298	2,028	2,301	344	11	1	37	0	0.5	*	1.6	0.0
Biological, biomedical, and biosystems engineering	3,416	1,120	7,659	580	116	35	105	7	3.4	3.1	1.4	1.2
Chemical, petroleum, and chemical-related engineering	1,898	1,044	7,132	480	24	5	104	9	1.3	0.5	1.5	1.9
Civil, environmental, transportation and related engineering fields	6,487	4,332	6,374	1,111	31	26	48	5	0.5	0.6	0.8	0.5
Electrical, electronics, communications and computer engineering	15,329	9,983	15,174	2,546	262	328	209	54	1.7	3.3	1.4	2.1
Industrial, manufacturing, systems engineering and operations research	4,820	6,210	2,908	931	12	82	22	2	0.2	1.3	0.8	0.2
Mechanical engineering	8,461	5,844	10,219	1,258	132	218	94	42	1.6	3.7	0.9	3.3
Metallurgical, mining, materials and related engineering fields	1,566	733	4,497	385	18	29	58	3	1.1	4.0	1.3	0.8
Other engineering	4,904	5,977	5,797	1,583	34	16	88	27	0.7	0.3	1.5	1.7
Health	39,178	20,946	10,556	4,758	1,075	385	189	286	2.7	1.8	1.8	6.0
Clinical medicine	17,186	12,562	3,342	1,454	414	309	25	94	2.4	2.5	0.7	6.5
Other health	21,992	8,384	7,214	3,304	661	76	164	192	3.0	0.9	2.3	5.8
Fall 2019, all surveyed fields	254,532	153,696	247,910	33,979	7,995	3,251	5,258	527	3.1	2.1	2.1	1.6
Science and engineering	216,427	135,307	236,363	29,598	7,064	3,064	4,841	397	3.3	2.3	2.0	1.3
Science	158,704	101,091	172,969	20,927	6,069	2,496	4,140	299	3.8	2.5	2.4	1.4
Agricultural sciences	3,504	2,125	3,245	644	68	63	9	29	1.9	3.0	0.3	4.5
Biological and biomedical sciences	25,757	12,321	50,476	3,439	536	254	1,392	33	2.1	2.1	2.8	1.0
Computer and information sciences	47,535	36,557	14,585	2,607	3,354	1,170	386	93	7.1	3.2	2.6	3.6
Geosciences, atmospheric sciences, and ocean sciences	3,675	1,652	5,846	705	29	0	197	3	0.8	0.0	3.4	0.4
Mathematics and statistics	13,359	6,235	12,322	1,243	671	73	265	8	5.0	1.2	2.2	0.6
Multidisciplinary and interdisciplinary studies	4,669	3,534	2,364	614	184	63	47	3	3.9	1.8	2.0	0.5
Natural resources and conservation	5,176	2,890	2,925	752	74	30	87	1	1.4	1.0	3.0	0.1

TABLE A-7

Imputation for nonresponse within graduate student totals, by field and type of graduate degree: 2018–20

(Number and percent)

Year and field	Total in survey				Number imputed				Imputation rate (%)			
	Master's students		Doctoral students		Master's students		Doctoral students		Master's students		Doctoral students	
	Full time	Part time	Full time	Part time	Full time	Part time	Full time	Part time	Full time	Part time	Full time	Part time
Physical sciences	3,878	2,483	34,284	2,222	113	27	843	30	2.9	1.1	2.5	1.4
Psychology	24,547	16,291	16,546	3,685	743	459	191	50	3.0	2.8	1.2	1.4
Social sciences	26,604	17,003	30,376	5,016	297	357	723	49	1.1	2.1	2.4	1.0
Engineering	57,723	34,216	63,394	8,671	995	568	701	98	1.7	1.7	1.1	1.1
Aerospace, aeronautical, and astronautical engineering	2,197	1,504	2,238	316	13	1	37	0	0.6	0.1	1.7	0.0
Agricultural engineering	393	101	561	101	0	0	0	0	0.0	0.0	0.0	0.0
Bioengineering and biomedical engineering	3,353	982	7,100	615	149	25	157	3	4.4	2.5	2.2	0.5
Biological and biosystems engineering	64	25	167	52	0	0	0	0	0.0	0.0	0.0	0.0
Chemical engineering	1,888	744	6,677	380	1	2	67	3	0.1	0.3	1.0	0.8
Civil engineering	7,576	4,297	6,726	1,026	10	4	28	0	0.1	0.1	0.4	0.0
Electrical, electronics, and communications engineering	19,138	9,039	16,288	2,289	653	253	206	68	3.4	2.8	1.3	3.0
Engineering mechanics, physics, and science	563	289	1,320	127	0	0	0	0	0.0	0.0	0.0	0.0
Industrial and manufacturing engineering	6,247	5,665	2,939	823	16	78	22	2	0.3	1.4	0.7	0.2
Mechanical engineering	9,394	5,467	9,951	1,296	103	170	83	7	1.1	3.1	0.8	0.5
Metallurgical and materials engineering	1,409	565	4,243	373	5	4	50	0	0.4	0.7	1.2	0.0
Mining engineering	202	90	159	42	0	0	0	0	0.0	0.0	0.0	0.0
Nanotechnology	38	11	141	5	0	0	0	0	0.0	0.0	0.0	0.0
Nuclear engineering	307	111	879	152	3	0	25	0	1.0	0.0	2.8	0.0
Petroleum engineering	441	201	543	64	0	0	0	0	0.0	0.0	0.0	0.0
Engineering nec	4,513	5,125	3,462	1,010	42	31	26	15	0.9	0.6	0.8	1.5
Health	38,105	18,389	11,547	4,381	931	187	417	130	2.4	1.0	3.6	3.0
Clinical medicine	15,638	10,613	3,286	1,285	270	127	34	1	1.7	1.2	1.0	0.1
Other health	22,467	7,776	8,261	3,096	661	60	383	129	2.9	0.8	4.6	4.2
Fall 2018, all surveyed fields	248,552	142,659	242,897	34,199	4,090	1,553	2,603	135	1.6	1.1	1.1	0.4
Science and engineering	210,287	124,104	231,297	29,868	3,579	1,285	2,562	125	1.7	1.0	1.1	0.4
Science	151,059	90,268	170,004	20,924	3,212	1,026	1,897	107	2.1	1.1	1.1	0.5
Agricultural sciences	3,626	2,032	3,273	607	0	0	0	0	0.0	0.0	0.0	0.0
Biological and biomedical sciences	24,759	10,547	49,254	3,373	222	102	306	39	0.9	1.0	0.6	1.2
Computer and information sciences	44,193	33,158	13,596	2,531	1,660	313	257	8	3.8	0.9	1.9	0.3
Geosciences, atmospheric sciences, and ocean sciences	3,820	1,809	5,950	754	13	6	56	0	0.3	0.3	0.9	0.0
Mathematics and statistics	12,707	5,366	12,248	1,140	676	98	146	24	5.3	1.8	1.2	2.1
Multidisciplinary and interdisciplinary studies	4,268	3,146	2,388	536	123	159	284	3	2.9	5.1	11.9	0.6
Natural resources and conservation	5,072	2,619	2,962	754	0	0	0	0	0.0	0.0	0.0	0.0
Physical sciences	3,915	2,160	33,756	2,244	76	45	368	2	1.9	2.1	1.1	0.1
Psychology	21,987	13,417	16,538	3,765	332	233	108	15	1.5	1.7	0.7	0.4
Social sciences	26,712	16,014	30,039	5,220	110	70	372	16	0.4	0.4	1.2	0.3
Engineering	59,228	33,836	61,293	8,944	367	259	665	18	0.6	0.8	1.1	0.2

TABLE A-7

Imputation for nonresponse within graduate student totals, by field and type of graduate degree: 2018–20

(Number and percent)

Year and field	Total in survey				Number imputed				Imputation rate (%)			
	Master's students		Doctoral students		Master's students		Doctoral students		Master's students		Doctoral students	
	Full time	Part time	Full time	Part time	Full time	Part time	Full time	Part time	Full time	Part time	Full time	Part time
Aerospace, aeronautical, and astronautical engineering	2,128	1,214	2,173	333	13	1	36	0	0.6	0.1	1.7	0.0
Agricultural engineering	286	85	572	89	0	0	0	0	0.0	0.0	0.0	0.0
Bioengineering and biomedical engineering	3,369	833	6,564	714	12	0	51	3	0.4	0.0	0.8	0.4
Biological and biosystems engineering	50	30	149	54	0	0	0	0	0.0	0.0	0.0	0.0
Chemical engineering	2,220	841	6,583	367	51	67	124	9	2.3	8.0	1.9	2.5
Civil engineering	8,289	4,440	6,573	1,159	6	0	27	0	0.1	0.0	0.4	0.0
Electrical, electronics, and communications engineering	19,341	8,767	15,473	2,646	181	96	212	1	0.9	1.1	1.4	*
Engineering mechanics, physics, and science	472	257	1,296	132	0	0	0	0	0.0	0.0	0.0	0.0
Industrial and manufacturing engineering	6,492	5,897	2,901	697	54	36	58	0	0.8	0.6	2.0	0.0
Mechanical engineering	10,178	5,256	9,898	1,261	41	55	79	5	0.4	1.0	0.8	0.4
Metallurgical and materials engineering	1,539	540	4,284	326	6	4	51	0	0.4	0.7	1.2	0.0
Mining engineering	211	105	170	41	0	0	0	0	0.0	0.0	0.0	0.0
Nanotechnology	32	15	71	0	0	0	0	0	0.0	0.0	0.0	-
Nuclear engineering	273	134	935	111	3	0	27	0	1.1	0.0	2.9	0.0
Petroleum engineering	477	277	579	70	0	0	0	0	0.0	0.0	0.0	0.0
Engineering nec	3,871	5,145	3,072	944	0	0	0	0	0.0	0.0	0.0	0.0
Health	38,265	18,555	11,600	4,331	511	268	41	10	1.3	1.4	0.4	0.2
Clinical medicine[b]	16,233	11,261	3,423	1,085	318	199	0	0	2.0	1.8	0.0	0.0
Other health	22,032	7,294	8,177	3,246	193	69	41	10	0.9	0.9	0.5	0.3

- = not calculable; * = value < 0.05%.

nec = not elsewhere classified.

[a] Several field names changed in 2020; the field names listed in this table are the field names used in the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) collection and reporting for 2020. For a complete list of field names from 2017 to 2020, see https://ncses.nsf.gov/pubs/nsf21318/table/A-17.

[b] Clinical medicine includes graduate students in public health and in medical clinical sciences and clinical and medical laboratory sciences.

Note(s):
For more information on the mapping of GSS fields and codes, see technical table A-17. Several field names changed in 2020; the field names listed in 2020 reflect those field names used in the GSS collection and reporting for 2020. The field names listed in prior years reflect those field names used in the associated data collection years.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE A-8

Imputation for nonresponse in postdoc and nonfaculty research totals, by field: 2018–20

(Number and percent)

Year and field	Total in survey		Number imputed		Imputation rate (%)	
	Postdoctoral appointees	Doctorate nonfaculty researchers	Postdoctoral appointees	Doctorate nonfaculty researchers	Postdoctoral appointees	Doctorate nonfaculty researchers
Fall 2020, all surveyed fields[a]	65,681	29,661	2,927	1,935	4.5	6.5
Science	38,741	18,212	2,162	1,304	5.6	7.2
Agricultural and veterinary sciences	1,678	964	81	62	4.8	6.4
Biological and biomedical sciences	21,902	8,112	1,583	667	7.2	8.2
Computer and information sciences	823	458	25	22	3.0	4.8
Geosciences, atmospheric sciences, and ocean sciences	1,790	2,150	31	102	1.7	4.7
Mathematics and statistics	1,076	201	39	11	3.6	5.5
Multidisciplinary and interdisciplinary studies	832	679	83	52	10.0	7.7
Natural resources and conservation	845	573	56	75	6.6	13.1
Physical sciences	6,937	2,890	149	176	2.1	6.1
Psychology	1,312	749	66	53	5.0	7.1
Social sciences	1,546	1,436	49	84	3.2	5.8
Engineering	8,462	3,921	134	288	1.6	7.3
Aerospace, aeronautical, and astronautical engineering	233	149	2	5	0.9	3.4
Biological, biomedical, and biosystems engineering	1,696	525	39	65	2.3	12.4
Chemical, petroleum, and chemical-related engineering	1,157	330	5	45	0.4	13.6
Civil, environmental, transportation and related engineering fields	1,006	488	12	29	1.2	5.9
Electrical, electronics, communications and computer engineering	1,302	706	16	36	1.2	5.1
Industrial, manufacturing, systems engineering and operations research	194	155	17	53	8.8	34.2
Mechanical engineering	1,149	469	26	16	2.3	3.4
Metallurgical, mining, materials and related engineering fields	630	299	11	15	1.7	5.0
Other engineering	1,095	800	6	24	0.5	3.0
Health	18,478	7,528	631	343	3.4	4.6
Clinical medicine[b]	16,287	6,500	522	262	3.2	4.0
Other health	2,191	1,028	109	81	5.0	7.9
Fall 2019, all surveyed fields	66,247	30,349	2,986	2,886	4.5	9.5
Science and engineering	46,769	22,728	1,585	2,257	3.4	9.9
Science	38,503	18,819	1,327	1,863	3.4	9.9
Agricultural sciences	1,079	645	10	90	0.9	14.0
Biological and biomedical sciences	21,847	8,229	864	924	4.0	11.2
Computer and information sciences	878	510	27	24	3.1	4.7
Geosciences, atmospheric sciences, and ocean sciences	1,778	2,177	37	108	2.1	5.0

TABLE A-8

Imputation for nonresponse in postdoc and nonfaculty research totals, by field: 2018–20

(Number and percent)

Year and field	Total in survey		Number imputed		Imputation rate (%)	
	Postdoctoral appointees	Doctorate nonfaculty researchers	Postdoctoral appointees	Doctorate nonfaculty researchers	Postdoctoral appointees	Doctorate nonfaculty researchers
Mathematics and statistics	1,070	305	27	34	2.5	11.1
Multidisciplinary and interdisciplinary studies	972	820	24	17	2.5	2.1
Natural resources and conservation	806	582	21	25	2.6	4.3
Physical sciences	7,159	3,316	196	509	2.7	15.3
Psychology	1,152	576	71	26	6.2	4.5
Social sciences	1,762	1,659	50	106	2.8	6.4
Engineering	8,266	3,909	258	394	3.1	10.1
Aerospace, aeronautical, and astronautical engineering	227	124	3	9	1.3	7.3
Agricultural engineering	112	55	0	0	0.0	0.0
Bioengineering and biomedical engineering	1,515	492	119	74	7.9	15.0
Biological and biosystems engineering	87	53	0	5	0.0	9.4
Chemical engineering	1,157	328	24	45	2.1	13.7
Civil engineering	865	492	11	41	1.3	8.3
Electrical, electronics, and communications engineering	1,305	637	35	82	2.7	12.9
Engineering mechanics, physics, and science	180	186	0	4	0.0	2.2
Industrial and manufacturing engineering	167	137	16	49	9.6	35.8
Mechanical engineering	1,142	531	24	33	2.1	6.2
Metallurgical and materials engineering	642	242	17	7	2.6	2.9
Mining engineering	23	61	0	3	0.0	4.9
Nanotechnology	151	76	0	0	0.0	0.0
Nuclear engineering	80	41	0	6	0.0	14.6
Petroleum engineering	72	82	0	32	0.0	39.0
Engineering nec	541	372	9	4	1.7	1.1
Health	19,478	7,621	1,401	629	7.2	8.3
Clinical medicine[c]	16,650	6,273	1,290	552	7.7	8.8
Other health	2,828	1,348	111	77	3.9	5.7
Fall 2018, all surveyed fields	64,783	29,284	2,254	2,937	3.5	10.0
Science and engineering	45,478	21,848	1,571	2,231	3.5	10.2
Science	37,564	18,278	1,475	1,887	3.9	10.3
Agricultural sciences	1,072	565	14	0	1.3	0.0
Biological and biomedical sciences	21,533	8,250	861	1,097	4.0	13.3
Computer and information sciences	879	515	20	42	2.3	8.2
Geosciences, atmospheric sciences, and ocean sciences	1,726	2,106	145	90	8.4	4.3
Mathematics and statistics	982	266	11	53	1.1	19.9
Multidisciplinary and interdisciplinary studies	980	832	122	23	12.4	2.8
Natural resources and conservation	764	580	4	5	0.5	0.9

TABLE A-8

Imputation for nonresponse in postdoc and nonfaculty research totals, by field: 2018–20

(Number and percent)

Year and field	Total in survey		Number imputed		Imputation rate (%)	
	Postdoctoral appointees	Doctorate nonfaculty researchers	Postdoctoral appointees	Doctorate nonfaculty researchers	Postdoctoral appointees	Doctorate nonfaculty researchers
Physical sciences	6,976	3,056	265	446	3.8	14.6
Psychology	1,145	507	19	29	1.7	5.7
Social sciences	1,507	1,601	14	102	0.9	6.4
Engineering	7,914	3,570	96	344	1.2	9.6
Aerospace, aeronautical, and astronautical engineering	207	115	2	11	1.0	9.6
Agricultural engineering	113	60	0	0	0.0	0.0
Bioengineering and biomedical engineering	1,433	440	9	47	0.6	10.7
Biological and biosystems engineering	96	51	0	0	0.0	0.0
Chemical engineering	1,142	257	8	10	0.7	3.9
Civil engineering	739	414	5	31	0.7	7.5
Electrical, electronics, and communications engineering	1,197	588	22	103	1.8	17.5
Engineering mechanics, physics, and science	354	220	19	8	5.4	3.6
Industrial and manufacturing engineering	156	105	8	32	5.1	30.5
Mechanical engineering	1,069	489	8	39	0.7	8.0
Metallurgical and materials engineering	549	215	0	0	0.0	0.0
Mining engineering	26	52	0	0	0.0	0.0
Nanotechnology	134	43	0	0	0.0	0.0
Nuclear engineering	106	41	7	8	6.6	19.5
Petroleum engineering	63	80	0	32	0.0	40.0
Engineering nec	530	400	8	23	1.5	5.8
Health	19,305	7,436	683	706	3.5	9.5
Clinical medicine[c]	16,563	6,159	572	637	3.5	10.3
Other health	2,742	1,277	111	69	4.0	5.4

nec = not elsewhere classified.

[a] Several field names changed in 2020; the field names listed in this table are the field names used in the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) collection and reporting for 2020. For a complete list of field names from 2017 to 2020, see https://ncses.nsf.gov/pubs/nsf21318/table/A-17.

[b] Beginning in 2020, clinical medicine includes postdoctoral appointees and doctorate-holding nonfaculty researchers in medical clinical sciences and clinical and medical laboratory sciences, public health, and clinical medicine nec.

[c] Clinical medicine includes postdoctoral appointees and nonfaculty researchers in anesthesiology, cardiology, endocrinology, gastroenterology, hematology, neurology, obstetrics and gynecology, oncology and cancer research, ophthalmology, otorhinolaryngology, pediatrics, psychiatry, public health, pulmonary disease, radiological sciences, surgery, and clinical medicine nec.

Note(s):
"Field" refers to the field of the unit that reports postdoctoral appointees and doctorate-holding nonfaculty researchers to the GSS. Sum of the broad fields may not add to total because of rounding. For more information on the mapping of GSS 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.

TABLE A-9

Imputation for graduate students in science, engineering, and health fields, by citizenship, ethnicity, race, enrollment status, and sex: 2020

(Number and percent)

Citizenship, ethnicity, and race	Part time			Full time					
							First time		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Doctoral students, imputation rate (%)									
All doctoral students	2.8	3.0	3.3	2.6	4.8	4.8	3.9	5.4	4.6
U.S. citizens and permanent residents[a]									
Hispanic or Latino	2.6	2.3	2.8	3.7	4.2	4.3	4.0	4.2	4.0
Not Hispanic or Latino									
American Indian or Alaska Native	1.9	0.0	2.9	4.5	4.4	4.6	2.1	2.4	1.8
Asian	4.2	5.1	3.5	4.2	5.1	5.0	4.5	5.4	4.3
Black or African American	5.4	4.1	6.6	3.6	3.5	3.9	3.9	4.8	3.3
Native Hawaiian or Other Pacific Islander	25.0	28.6	21.1	5.6	3.4	6.9	0.0	0.0	0.0
White	3.9	4.0	3.9	4.5	5.6	5.1	4.8	5.8	4.7
More than one race	2.8	2.5	3.1	2.8	3.1	2.6	2.0	2.2	1.8
Unknown ethnicity and race	3.2	2.6	3.9	3.5	3.9	3.5	3.6	2.9	4.7
Temporary visa holders	3.5	3.5	3.8	3.3	3.4	4.2	4.8	4.9	5.5
Doctoral students, number imputed[b]									
All doctoral students	993	584	539	6,512	6,679	5,276	1,609	1,162	905
U.S. citizens and permanent residents[a]									
Hispanic or Latino	66	27	39	612	336	364	134	65	73
Not Hispanic or Latino									
American Indian or Alaska Native	3	0	3	27	11	16	2	1	1
Asian	87	54	35	674	415	386	143	85	68
Black or African American	136	41	100	312	119	203	67	31	36
Native Hawaiian or Other Pacific Islander	10	6	4	9	2	7	0	0	0
White	625	343	302	4,180	2,682	2,296	806	485	398
More than one race	22	9	13	158	84	79	23	12	11
Unknown ethnicity and race	49	21	28	239	145	108	47	20	29
Temporary visa holders	346	225	133	3,371	2,214	1,526	646	400	289
Master's students, imputation rate (%)									
All master's students	2.2	2.8	2.5	2.7	4.2	3.7	3.0	4.2	3.7
U.S. citizens and permanent residents[a]									
Hispanic or Latino	4.2	2.7	5.6	4.4	3.8	5.1	3.4	3.6	3.3
Not Hispanic or Latino									
American Indian or Alaska Native	4.1	4.1	4.1	3.7	4.1	3.5	3.6	4.8	3.0
Asian	3.1	2.9	3.7	3.7	3.9	4.5	3.6	4.5	4.7
Black or African American	5.2	4.4	5.8	4.9	5.3	5.0	4.0	4.8	4.1
Native Hawaiian or Other Pacific Islander	4.9	5.3	4.6	6.5	12.0	2.8	4.4	9.1	1.3
White	2.8	3.0	3.1	3.8	4.2	4.2	3.9	4.1	4.3
More than one race	2.2	1.6	2.7	2.8	2.7	2.9	2.2	2.8	1.8
Unknown ethnicity and race	6.6	5.6	7.7	6.8	6.2	8.5	7.0	5.8	9.6
Temporary visa holders	4.0	4.2	4.1	5.3	5.9	5.9	7.0	7.2	7.1
Master's students, number imputed[b]									
All master's students	3,837	2,519	2,031	6,582	4,691	4,816	3,030	1,913	2,119
U.S. citizens and permanent residents[a]									
Hispanic or Latino	816	248	575	1,083	347	787	389	159	233
Not Hispanic or Latino									
American Indian or Alaska Native	23	10	13	27	11	16	11	5	6
Asian	507	273	258	684	331	454	348	199	245

TABLE A-9

Imputation for graduate students in science, engineering, and health fields, by citizenship, ethnicity, race, enrollment status, and sex: 2020

(Number and percent)

Citizenship, ethnicity, and race	Part time			Full time					
							First time		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Black or African American	779	281	498	786	268	548	305	116	216
Native Hawaiian or Other Pacific Islander	14	7	7	19	14	5	6	5	1
White	2,270	1,296	1,202	3,516	1,601	2,319	1,703	755	1,107
More than one race	101	37	65	177	69	112	67	35	33
Unknown ethnicity and race	581	242	346	532	200	389	237	86	181
Temporary visa holders	970	624	376	4,065	2,667	1,808	1,559	918	687

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] This table reports the sum of counts imputed in each of these cells and variables. Because some units report totals without complete details, the sum of the imputed details will often be higher than the related total.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2020.

TABLE A-10

Imputation for full-time graduate students in science, engineering, and health fields, by mechanism of support, sex, and source of support: 2020

(Number and percent)

Mechanism of support and sex	All sources	Federal								Domestic	Foreign	Institutional	Self-support
		DOD	DOE	HHS		NASA	NSF	USDA	Other				
				NIH	Other								
Doctoral students, imputation rate (%)													
All full-time doctoral students	2.6	5.5	4.9	6.8	15.6	7.5	6.8	5.4	7.2	6.7	7.5	9.1	10.9
Fellowships	9.0	4.6	8.9	6.8	0.0	5.6	7.9	1.4	13.7	6.5	17.0	9.4	na
Research assistantships	7.5	5.7	5.0	7.1	12.5	7.6	6.7	5.4	6.5	6.7	3.4	9.0	na
Teaching assistantships	9.6	na	8.5	na	11.8	9.5	7.3	4.0	4.3	7.8	3.2	9.8	na
Traineeships	6.4	6.3	0.0	6.8	37.7	11.0	3.5	0.0	0.5	0.9	6.8	4.4	na
Other types of support	9.8	9.9	2.0	7.7	0.0	7.9	8.1	17.1	8.7	12.5	13.3	7.8	10.9
Male	4.8	5.0	4.9	6.9	15.1	7.4	7.0	4.8	7.3	6.9	6.9	9.9	11.5
Female	4.8	7.3	6.3	6.7	16.0	8.0	7.0	5.9	7.1	6.6	8.7	10.0	10.5
Doctoral students, number imputed[a]													
All full-time doctoral students	6,512	327	239	1,413	350	135	1,385	87	439	926	210	13,102	2,570
Fellowships	3,343	23	13	140	0	14	342	1	93	124	83	2,516	na
Research assistantships	7,211	293	227	975	224	109	977	77	282	677	48	3,356	na
Teaching assistantships	6,127	na	6	na	2	2	56	3	9	34	11	6,024	na
Traineeships	625	1	0	304	124	8	15	0	1	3	5	164	na
Other types of support	4,031	33	1	33	0	3	23	6	57	133	66	1,105	2,570
Male	6,679	222	181	679	164	88	891	38	260	564	123	7,862	1,378
Female	5,276	108	74	735	186	49	537	49	181	372	90	6,477	1,216
Master's students, imputation rate (%)													
All full-time master's students	2.7	4.0	4.3	9.5	6.8	6.5	8.6	5.9	11.9	10.0	13.9	10.8	11.1
Fellowships	17.4	9.8	20.0	8.3	25.0	0.0	12.8	33.3	20.3	3.9	7.1	19.1	na
Research assistantships	9.5	7.9	3.6	10.4	2.9	8.1	9.8	5.7	6.4	8.1	10.5	11.2	na
Teaching assistantships	10.3	na	0.0	na	0.0	0.0	3.4	2.7	17.6	23.9	2.6	10.4	na
Traineeships	5.3	5.6	-	1.7	16.3	-	0.0	33.3	1.7	3.1	0.0	5.9	na
Other types of support	11.0	2.1	12.9	13.8	4.1	0.0	5.4	7.0	15.4	14.1	18.1	9.5	11.1
Male	4.2	3.6	5.4	8.7	4.2	5.3	9.6	6.6	9.6	9.9	12.0	10.8	12.1
Female	3.7	5.6	1.5	10.0	8.0	8.7	7.4	5.4	13.8	10.1	16.9	10.9	12.0
Master's students, number imputed[a]													
All full-time master's students	6,582	108	21	86	35	19	177	63	531	448	142	6,139	18,824
Fellowships	1,064	8	1	5	7	0	28	1	55	18	4	937	na
Research assistantships	1,825	65	16	64	9	19	133	51	88	177	20	1,217	na
Teaching assistantships	2,231	na	0	na	0	0	6	2	35	39	3	2,180	na
Traineeships	120	1	0	2	16	0	0	3	5	5	0	88	na
Other types of support	21,450	36	4	15	3	0	14	6	354	214	115	1,770	18,824
Male	4,691	75	19	33	7	10	117	30	187	232	74	2,886	9,214
Female	4,816	33	2	53	28	9	62	33	344	217	68	3,272	11,144

- = not calculable; na = not applicable; not asked because this support mechanism does not apply.

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.

[a] This table reports the sum of counts imputed in each of these cells and variables. Because some units report totals without complete details, the sum of the imputed details will often be higher than the related total.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2020.

TABLE A-11

Imputation for postdoctoral appointees in science, engineering, and health fields, by citizenship, ethnicity, race, and sex: 2020

(Number and percent)

Citizenship, ethnicity, and race	Total	Male	Female
Imputation rate (%)			
All postdoctoral appointees	4.5	6.7	8.0
U.S. citizens and permanent residents[a]			
Hispanic or Latino	11.5	10.7	12.9
Not Hispanic or Latino			
American Indian or Alaska Native	12.5	16.0	10.6
Asian	11.6	12.4	9.9
Black or African American	7.9	6.5	8.3
Native Hawaiian or Other Pacific Islander	3.8	0.0	6.7
White	8.5	8.5	9.1
More than one race	4.7	3.1	6.1
Unknown ethnicity and race	7.4	9.1	11.7
Temporary visa holders	6.9	8.9	10.1
Number imputed[b]			
All postdoctoral appointees	2,927	2,548	2,190
U.S. citizens and permanent residents[a]			
Hispanic or Latino	233	104	137
Not Hispanic or Latino			
American Indian or Alaska Native	9	4	5
Asian	658	386	255
Black or African American	85	27	55
Native Hawaiian or Other Pacific Islander	2	0	2
White	1,463	766	738
More than one race	26	8	18
Unknown ethnicity and race	244	162	176
Temporary visa holders	2,453	2,023	1,323

[a] Ethnicity and race data are available only for U.S. citizens and permanent residents.

[b] This table reports the sum of counts imputed in each of these cells and variables. Because some units report totals without complete details, the sum of the imputed details will often be higher than the related total.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2020.

TABLE A-12

Imputation for postdoctoral appointees in science, engineering, and health fields, by mechanism of support, source of support, and sex: 2020

(Number and percent)

Mechanism of support	All sources	Federal								Domestic	Foreign	Institutional	Self-support	Unknown	Male	Female
		DOD	DOE	HHS		NASA	NSF	USDA	Other							
				NIH	Other											
Imputation rate (%)																
All postdoctoral appointees	4.5	5.7	6.0	8.6	13.3	3.7	8.1	4.3	6.5	7.4	11.4	5.9	5.1	10.4	6.7	8.0
Fellowships	9.6	7.9	29.3	7.0	11.0	5.1	20.8	30.5	10.4	7.2	16.4	4.9	na	18.0	8.9	10.7
Research grant	8.7	6.1	6.8	10.1	14.7	4.5	8.3	5.0	9.4	7.0	4.4	6.7	na	20.7	10.8	12.0
Traineeship	7.1	0.0	0.0	3.4	3.6	0.0	7.7	0.0	47.6	2.2	14.3	9.6	na	48.1	8.0	8.5
Other support	8.4	9.2	6.7	9.4	16.0	0.0	5.1	2.1	5.2	14.3	17.3	6.8	5.1	7.3	11.0	11.8
Number imputed[a]																
All postdoctoral appointees	2,927	135	130	1,728	122	26	293	37	173	721	165	877	32	596	2,548	2,190
Fellowships	662	9	22	105	11	2	46	18	30	95	63	88	na	181	337	334
Research grant	3,502	132	139	1,595	104	28	272	35	187	408	25	375	na	202	2,623	1,916
Traineeship	237	0	0	77	3	0	2	0	40	4	2	58	na	51	121	155
Other support	1,266	7	3	50	4	0	4	2	16	336	82	464	32	266	939	771

na = not applicable; not asked because this support mechanism does not apply.

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.

[a] This table reports the sum of counts imputed in each of these cells and variables. Because some units report totals without complete details, the sum of the imputed details will often be higher than the related total.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2020.

TABLE A-13

Imputation for postdoctoral appointees in science, engineering, and health fields, by mechanism of support, citizenship, and type of doctoral degree: 2020

(Number and percent)

Mechanism of support	All doctoral degree types	Doctoral degree	Professional degree	Dual degree	Doctoral degree type unknown
Imputation rate (%)					
All postdoctoral appointees	4.5	7.7	7.7	6.9	6.0
Fellowships	9.6	11.7	5.2	27.1	20.2
Research grant	8.7	8.7	11.1	3.0	13.6
Traineeship	7.1	7.4	10.9	9.8	2.3
Other support	8.4	10.1	7.9	6.6	10.9
U.S. citizens and permanent residents	9.1	12.9	9.1	11.4	14.8
Foreign nationals with temporary visa	6.9	7.9	8.9	3.3	13.5
Number imputed[a]					
All postdoctoral appointees	2,927	3,765	335	133	633
Fellowships	662	524	38	76	286
Research grant	3,502	2,779	153	33	807
Traineeship	237	156	64	13	12
Other support	1,266	1,042	131	27	291
U.S. citizens and permanent residents	2,720	2,733	227	98	791
Foreign nationals with temporary visa	2,453	2,190	167	35	702

[a] This table reports the sum of counts imputed in each of these cells and variables. Because some units report totals without complete details, the sum of the imputed details will often be higher than the related total.

Note(s):
Doctoral degree includes PhD, ScD, DEng, etc.; professional degree includes MD, DVM, DO, DDS, etc.; dual degree includes both professional and doctoral degrees (MD-PhD, DVM-PhD, etc.).

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2020.

TABLE A-14

Imputation for postdoctoral appointees in science, engineering, and health, by origin of doctoral degree: 2020

(Number and percent)

Origin of doctoral degree	Imputation rate (%)	Number imputed
All postdoctoral appointees	4.5	2,927
United States	5.8	1,428
Foreign country	8.5	1,716
Unknown origin	8.7	1,823

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2020.

TABLE A-15

Imputation for doctorate-holding nonfaculty researchers in science, engineering, and health, by type of doctoral degree and sex: 2020

(Number and percent)

Type of doctoral degree	Total	Male	Female
Imputation rate (%)			
All nonfaculty researchers	6.5	8.0	8.4
Doctoral degree	7.3	8.6	9.0
Professional degree	7.6	7.5	7.6
Dual degree	4.9	6.3	3.4
Doctoral degree type unknown	6.8	9.0	9.8
Number imputed[a]			
All nonfaculty researchers	1,935	1,386	1,039
Doctoral degree	1,572	1,112	761
Professional degree	141	66	75
Dual degree	22	15	7
Doctoral degree type unknown	401	282	274

[a] This table reports the sum of counts imputed in each of these cells and variables. Because some units report totals without complete details, the sum of the imputed details will often be higher than the related total.

Note(s):
Doctoral degree includes PhD, ScD, DEng, etc.; professional degree includes MD, DVM, DO, DDS, etc.; dual degree includes both professional and doctoral degrees (MD-PhD, DVM-PhD, etc.).

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2020.

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Crosswalk between 2020 Classification of Instructional Program (CIP) codes and 2020 GSS Codes

(Crosswalk)

CIP code	CIP program title	Degree exclusions	GSS code	GSS field name
01.0000	Agriculture, general		501	Agricultural sciences
01.0103	Agricultural economics		901	Agricultural and natural resource economics
01.0308	Agroecology and sustainable agriculture		501	Agricultural sciences
01.0603	Ornamental horticulture		501	Agricultural sciences
01.0701	International agriculture		501	Agricultural sciences
01.0901	Animal sciences, general		501	Agricultural sciences
01.0902	Agricultural animal breeding		501	Agricultural sciences
01.0903	Animal health		501	Agricultural sciences
01.0904	Animal nutrition		501	Agricultural sciences
01.0905	Dairy science		501	Agricultural sciences
01.0906	Livestock management		501	Agricultural sciences
01.0907	Poultry science		501	Agricultural sciences
01.0999	Animal sciences, other		501	Agricultural sciences
01.1001	Food science		501	Agricultural sciences
01.1002	Food technology and processing		501	Agricultural sciences
01.1099	Food science and technology, other		501	Agricultural sciences
01.1101	Plant sciences, general		501	Agricultural sciences
01.1102	Agronomy and crop science		501	Agricultural sciences
01.1103	Horticultural science		501	Agricultural sciences
01.1104	Agricultural and horticultural plant breeding		501	Agricultural sciences
01.1105	Plant protection and integrated pest management		501	Agricultural sciences
01.1106	Range science and management		501	Agricultural sciences
01.1199	Plant sciences, other		501	Agricultural sciences
01.1201	Soil science and agronomy, general		501	Agricultural sciences
01.1202	Soil chemistry and physics		501	Agricultural sciences
01.1203	Soil microbiology		501	Agricultural sciences
01.1299	Soil sciences, other		501	Agricultural sciences
01.8101	Veterinary sciences/ veterinary clinical sciences, general	DVM	502	Veterinary biomedical and clinical sciences
01.8102	Comparative and laboratory animal medicine	DVM	502	Veterinary biomedical and clinical sciences
01.8103	Large animal/ food animal and equine surgery and medicine	DVM	502	Veterinary biomedical and clinical sciences
01.8104	Small/ companion animal surgery and medicine	DVM	502	Veterinary biomedical and clinical sciences
01.8105	Veterinary anatomy	DVM	502	Veterinary biomedical and clinical sciences
01.8106	Veterinary infectious diseases	DVM	502	Veterinary biomedical and clinical sciences
01.8107	Veterinary microbiology and immunobiology	DVM	502	Veterinary biomedical and clinical sciences
01.8108	Veterinary pathology and pathobiology	DVM	502	Veterinary biomedical and clinical sciences
01.8109	Veterinary physiology	DVM	502	Veterinary biomedical and clinical sciences
01.8110	Veterinary preventive medicine, epidemiology, and public health	DVM	502	Veterinary biomedical and clinical sciences
01.8111	Veterinary toxicology and pharmacology	DVM	502	Veterinary biomedical and clinical sciences
01.8199	Veterinary biomedical and clinical sciences, other	DVM	502	Veterinary biomedical and clinical sciences
01.9999	Agricultural/ animal/ plant/ veterinary science and related fields, other		501	Agricultural sciences
03.0101	Natural resources/ conservation, general		511	Forestry, natural resources and conservation
03.0103	Environmental studies		510	Environmental science and studies
03.0104	Environmental science		510	Environmental science and studies
03.0199	Natural resources conservation and research, other		511	Forestry, natural resources and conservation
03.0201	Environmental/ natural resources management and policy, general		511	Forestry, natural resources and conservation
03.0204	Environmental/ natural resource economics		901	Agricultural and natural resource economics

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Crosswalk between 2020 Classification of Instructional Program (CIP) codes and 2020 GSS Codes

(Crosswalk)

CIP code	CIP program title	Degree exclusions	GSS code	GSS field name
03.0205	Water, wetlands, and marine resources management		511	Forestry, natural resources and conservation
03.0206	Land use planning and management/ development		511	Forestry, natural resources and conservation
03.0209	Energy and environmental policy		511	Forestry, natural resources and conservation
03.0210	Bioenergy		511	Forestry, natural resources and conservation
03.0299	Environmental/ natural resources management and policy, other		511	Forestry, natural resources and conservation
03.0301	Fishing and fisheries sciences and management		511	Forestry, natural resources and conservation
03.0501	Forestry, general		511	Forestry, natural resources and conservation
03.0502	Forest sciences and biology		511	Forestry, natural resources and conservation
03.0506	Forest management/ forest resources management		511	Forestry, natural resources and conservation
03.0508	Urban forestry		511	Forestry, natural resources and conservation
03.0509	Wood science and wood products/ pulp and paper technology/ technician		511	Forestry, natural resources and conservation
03.0510	Forest resources production and management		511	Forestry, natural resources and conservation
03.0599	Forestry, other		511	Forestry, natural resources and conservation
03.0601	Wildlife, fish and wildlands science and management		511	Forestry, natural resources and conservation
03.9999	Natural resources and conservation, other		511	Forestry, natural resources and conservation
05.0101	African studies		916	Area, ethnic, cultural, gender, and group studies
05.0102	American/ United States studies/ civilization		916	Area, ethnic, cultural, gender, and group studies
05.0103	Asian studies/ civilization		916	Area, ethnic, cultural, gender, and group studies
05.0104	East Asian studies		916	Area, ethnic, cultural, gender, and group studies
05.0105	Russian, Central European, East European and Eurasian studies		916	Area, ethnic, cultural, gender, and group studies
05.0106	European studies/ civilization		916	Area, ethnic, cultural, gender, and group studies
05.0107	Latin American studies		916	Area, ethnic, cultural, gender, and group studies
05.0108	Near and Middle Eastern studies		916	Area, ethnic, cultural, gender, and group studies
05.0109	Pacific Area/ Pacific rim studies		916	Area, ethnic, cultural, gender, and group studies
05.0110	Russian studies		916	Area, ethnic, cultural, gender, and group studies
05.0111	Scandinavian studies		916	Area, ethnic, cultural, gender, and group studies
05.0112	South Asian studies		916	Area, ethnic, cultural, gender, and group studies
05.0113	Southeast Asian studies		916	Area, ethnic, cultural, gender, and group studies
05.0114	Western European studies		916	Area, ethnic, cultural, gender, and group studies
05.0115	Canadian studies		916	Area, ethnic, cultural, gender, and group studies
05.0116	Balkans studies		916	Area, ethnic, cultural, gender, and group studies
05.0117	Baltic studies		916	Area, ethnic, cultural, gender, and group studies
05.0118	Slavic studies		916	Area, ethnic, cultural, gender, and group studies

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Crosswalk between 2020 Classification of Instructional Program (CIP) codes and 2020 GSS Codes

(Crosswalk)

CIP code	CIP program title	Degree exclusions	GSS code	GSS field name
05.0119	Caribbean studies		916	Area, ethnic, cultural, gender, and group studies
05.0120	Ural-Altaic and Central Asian studies		916	Area, ethnic, cultural, gender, and group studies
05.0121	Commonwealth studies		916	Area, ethnic, cultural, gender, and group studies
05.0122	Regional studies (U.S., Canadian, foreign)		916	Area, ethnic, cultural, gender, and group studies
05.0123	Chinese studies		916	Area, ethnic, cultural, gender, and group studies
05.0124	French studies		916	Area, ethnic, cultural, gender, and group studies
05.0125	German studies		916	Area, ethnic, cultural, gender, and group studies
05.0126	Italian studies		916	Area, ethnic, cultural, gender, and group studies
05.0127	Japanese studies		916	Area, ethnic, cultural, gender, and group studies
05.0128	Korean studies		916	Area, ethnic, cultural, gender, and group studies
05.0129	Polish studies		916	Area, ethnic, cultural, gender, and group studies
05.0130	Spanish and Iberian studies		916	Area, ethnic, cultural, gender, and group studies
05.0131	Tibetan studies		916	Area, ethnic, cultural, gender, and group studies
05.0132	Ukraine studies		916	Area, ethnic, cultural, gender, and group studies
05.0133	Irish studies		916	Area, ethnic, cultural, gender, and group studies
05.0134	Latin American and Caribbean studies		916	Area, ethnic, cultural, gender, and group studies
05.0135	Appalachian studies		916	Area, ethnic, cultural, gender, and group studies
05.0136	Arctic studies		916	Area, ethnic, cultural, gender, and group studies
05.0199	Area studies, other		916	Area, ethnic, cultural, gender, and group studies
05.0200	Ethnic studies		916	Area, ethnic, cultural, gender, and group studies
05.0201	African-american/ black studies		916	Area, ethnic, cultural, gender, and group studies
05.0202	American indian/ native american studies		916	Area, ethnic, cultural, gender, and group studies
05.0203	Hispanic-American, Puerto Rican, and Mexican-American/ Chicano studies		916	Area, ethnic, cultural, gender, and group studies
05.0206	Asian-American studies		916	Area, ethnic, cultural, gender, and group studies
05.0207	Women's studies		916	Area, ethnic, cultural, gender, and group studies
05.0208	Gay/ lesbian studies		916	Area, ethnic, cultural, gender, and group studies
05.0209	Folklore studies		916	Area, ethnic, cultural, gender, and group studies

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Crosswalk between 2020 Classification of Instructional Program (CIP) codes and 2020 GSS Codes

(Crosswalk)

CIP code	CIP program title	Degree exclusions	GSS code	GSS field name
05.0210	Disability studies		916	Area, ethnic, cultural, gender, and group studies
05.0211	Deaf studies		916	Area, ethnic, cultural, gender, and group studies
05.0212	Comparative group studies		916	Area, ethnic, cultural, gender, and group studies
05.0299	Ethnic, cultural minority, gender, and group studies, other		916	Area, ethnic, cultural, gender, and group studies
05.9999	Area, ethnic, cultural, gender, and group studies, other		916	Area, ethnic, cultural, gender, and group studies
11.0101	Computer and information sciences, general	DCS, MBA	411	Computer and information science
11.0102	Artificial intelligence	DCS, MBA	416	Artificial intelligence, informatics and cis topics
11.0103	Information technology	DCS, MBA	414	Information technology
11.0104	Informatics	DCS, MBA	416	Artificial intelligence, informatics and cis topics
11.0105	Human-centered technology design	DCS, MBA	416	Artificial intelligence, informatics and cis topics
11.0199	Computer and information sciences, other	DCS, MBA	416	Artificial intelligence, informatics and cis topics
11.0401	Information science/ studies	DCS, MBA	415	Information science and studies
11.0501	Computer systems analysis/ analyst	DCS, MBA	412	Computer and information science, not elsewhere classified
11.0701	Computer science	DCS, MBA	410	Computer science
11.0802	Data modeling/ warehousing and database administration	DCS, MBA	412	Computer and information science, not elsewhere classified
11.0803	Computer graphics	DCS, MBA	412	Computer and information science, not elsewhere classified
11.0804	Modeling, virtual environments and simulation	DCS, MBA	412	Computer and information science, not elsewhere classified
11.0899	Computer software and media applications, other	DCS, MBA	412	Computer and information science, not elsewhere classified
11.0901	Computer systems networking and telecommunications	DCS, MBA	412	Computer and information science, not elsewhere classified
11.0902	Cloud computing	DCS, MBA	412	Computer and information science, not elsewhere classified
11.0999	Computer systems networking and telecommunications, other	DCS, MBA	412	Computer and information science, not elsewhere classified
11.1003	Computer and information systems security/ auditing/ information assurance	DCS, MBA	413	Computer and information systems security
11.1005	Information technology project management	DCS, MBA	412	Computer and information science, not elsewhere classified
11.9999	Computer and information sciences and support services, other	DCS, MBA	412	Computer and information science, not elsewhere classified
14.0101	Engineering, general		114	Engineering, not elsewhere classified
14.0103	Applied engineering		114	Engineering, not elsewhere classified
14.0201	Aerospace, aeronautical, and astronautical/ space engineering, general		101	Aerospace, aeronautical, and astronautical engineering
14.0202	Astronautical engineering		101	Aerospace, aeronautical, and astronautical engineering
14.0299	Aerospace, aeronautical, and astronautical/ space engineering, other		101	Aerospace, aeronautical, and astronautical engineering
14.0301	Agricultural engineering		102	Agricultural engineering

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Crosswalk between 2020 Classification of Instructional Program (CIP) codes and 2020 GSS Codes

(Crosswalk)

CIP code	CIP program title	Degree exclusions	GSS code	GSS field name
14.0401	Architectural engineering		117	Architectural, environmental, construction and surveying engineering
14.0501	Bioengineering and biomedical engineering		103	Bioengineering and biomedical engineering
14.0601	Ceramic sciences and engineering		110	Metallurgical and materials engineering
14.0701	Chemical engineering		104	Chemical engineering
14.0702	Chemical and biomolecular engineering		104	Chemical engineering
14.0799	Chemical engineering, other		104	Chemical engineering
14.0801	Civil engineering, general		105	Civil engineering
14.0802	Geotechnical and geoenvironmental engineering		105	Civil engineering
14.0803	Structural engineering		105	Civil engineering
14.0804	Transportation and highway engineering		105	Civil engineering
14.0805	Water resources engineering		105	Civil engineering
14.0899	Civil engineering, other		105	Civil engineering
14.0901	Computer engineering		118	Computer engineering
14.0902	Computer hardware engineering		118	Computer engineering
14.0903	Computer software engineering		118	Computer engineering
14.0999	Computer engineering, other		118	Computer engineering
14.1001	Electrical and electronics engineering		106	Electrical, electronics, and communications engineering
14.1003	Laser and optical engineering		106	Electrical, electronics, and communications engineering
14.1004	Telecommunications engineering		106	Electrical, electronics, and communications engineering
14.1099	Electrical, electronics, and communications engineering, other		106	Electrical, electronics, and communications engineering
14.1101	Engineering mechanics		107	Engineering mechanics, physics, and science
14.1201	Engineering physics/ applied physics		107	Engineering mechanics, physics, and science
14.1301	Engineering science		107	Engineering mechanics, physics, and science
14.1401	Environmental/ environmental health engineering		117	Architectural, environmental, construction and surveying engineering
14.1801	Materials engineering		110	Metallurgical and materials engineering
14.1901	Mechanical engineering		109	Mechanical engineering
14.2001	Metallurgical engineering		110	Metallurgical and materials engineering
14.2101	Mining and mineral engineering		111	Mining and mineral engineering
14.2201	Naval architecture and marine engineering		114	Engineering, not elsewhere classified
14.2301	Nuclear engineering		112	Nuclear engineering
14.2401	Ocean engineering		114	Engineering, not elsewhere classified
14.2501	Petroleum engineering		113	Petroleum engineering
14.2701	Systems engineering		119	Systems engineering and operations research
14.2801	Textile sciences and engineering		110	Metallurgical and materials engineering
14.3201	Polymer/ plastics engineering		104	Chemical engineering
14.3301	Construction engineering		117	Architectural, environmental, construction and surveying engineering
14.3401	Forest engineering		114	Engineering, not elsewhere classified
14.3501	Industrial engineering		108	Industrial and manufacturing engineering
14.3601	Manufacturing engineering		108	Industrial and manufacturing engineering
14.3701	Operations research		119	Systems engineering and operations research
14.3801	Surveying engineering		117	Architectural, environmental, construction and surveying engineering
14.3901	Geological/ geophysical engineering		111	Mining and mineral engineering
14.4001	Paper science and engineering		104	Chemical engineering

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Crosswalk between 2020 Classification of Instructional Program (CIP) codes and 2020 GSS Codes

(Crosswalk)

CIP code	CIP program title	Degree exclusions	GSS code	GSS field name
14.4101	Electromechanical engineering		109	Mechanical engineering
14.4201	Mechatronics, robotics, and automation engineering		109	Mechanical engineering
14.4301	Biochemical engineering		104	Chemical engineering
14.4401	Engineering chemistry		104	Chemical engineering
14.4501	Biological/ biosystems engineering		115	Biological and biosystems engineering
14.4701	Electrical and computer engineering		106	Electrical, electronics, and communications engineering
14.4801	Energy systems engineering, general		114	Engineering, not elsewhere classified
14.4802	Power plant engineering		114	Engineering, not elsewhere classified
14.4899	Energy systems engineering, other		114	Engineering, not elsewhere classified
14.9999	Engineering, other		114	Engineering, not elsewhere classified
15.1502	Engineering design		114	Engineering, not elsewhere classified
15.1601	Nanotechnology		116	Nanotechnology
16.0102	Linguistics		906	Linguistics
16.0105	Applied linguistics		906	Linguistics
16.0199	Linguistic, comparative, and related language studies and services, other		906	Linguistics
19.0701	Human development and family studies, general		915	Human development
19.0702	Adult development and aging		915	Human development
19.0706	Child development		915	Human development
26.0101	Biology/ biological sciences, general		603	Biology
26.0102	Biomedical sciences, general		623	Biomedical sciences
26.0202	Biochemistry		602	Biochemistry
26.0203	Biophysics		605	Biophysics
26.0204	Molecular biology		622	Molecular biology
26.0205	Molecular biochemistry		602	Biochemistry
26.0206	Molecular biophysics		605	Biophysics
26.0207	Structural biology		622	Molecular biology
26.0208	Photobiology		622	Molecular biology
26.0209	Radiation biology/ radiobiology		622	Molecular biology
26.0210	Biochemistry and molecular biology		602	Biochemistry
26.0299	Biochemistry, biophysics and molecular biology, other		602	Biochemistry
26.0301	Botany/ plant biology		606	Botany and plant biology
26.0305	Plant pathology/ phytopathology		606	Botany and plant biology
26.0307	Plant physiology		606	Botany and plant biology
26.0308	Plant molecular biology		606	Botany and plant biology
26.0399	Botany/ plant biology, other		606	Botany and plant biology
26.0401	Cell/ cellular biology and histology		619	Cell, cellular biology and anatomical sciences
26.0403	Anatomy		619	Cell, cellular biology and anatomical sciences
26.0404	Developmental biology and embryology		619	Cell, cellular biology and anatomical sciences
26.0406	Cell/ cellular and molecular biology		619	Cell, cellular biology and anatomical sciences
26.0407	Cell biology and anatomy		619	Cell, cellular biology and anatomical sciences
26.0499	Cell/ cellular biology and anatomical sciences, other		619	Cell, cellular biology and anatomical sciences
26.0502	Microbiology, general		611	Microbiological sciences and immunology
26.0503	Medical microbiology and bacteriology		611	Microbiological sciences and immunology
26.0504	Virology		611	Microbiological sciences and immunology
26.0505	Parasitology		611	Microbiological sciences and immunology
26.0506	Mycology		611	Microbiological sciences and immunology
26.0507	Immunology		611	Microbiological sciences and immunology
26.0508	Microbiology and immunology		611	Microbiological sciences and immunology

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(Crosswalk)

CIP code	CIP program title	Degree exclusions	GSS code	GSS field name
26.0509	Infectious disease and global health		611	Microbiological sciences and immunology
26.0599	Microbiological sciences and immunology, other		611	Microbiological sciences and immunology
26.0701	Zoology/ animal biology		616	Zoology and animal biology
26.0702	Entomology		616	Zoology and animal biology
26.0707	Animal physiology		616	Zoology and animal biology
26.0708	Animal behavior and ethology		616	Zoology and animal biology
26.0709	Wildlife biology		616	Zoology and animal biology
26.0799	Zoology/ animal biology, other		616	Zoology and animal biology
26.0801	Genetics, general		610	Genetics
26.0802	Molecular genetics		610	Genetics
26.0803	Microbial and eukaryotic genetics		610	Genetics
26.0804	Animal genetics		610	Genetics
26.0805	Plant genetics		610	Genetics
26.0806	Human/ medical genetics		610	Genetics
26.0807	Genome sciences/ genomics		610	Genetics
26.0899	Genetics, other		610	Genetics
26.0901	Physiology, general		615	Physiology
26.0902	Molecular physiology		615	Physiology
26.0903	Cell physiology		615	Physiology
26.0904	Endocrinology		615	Physiology
26.0905	Reproductive biology		615	Physiology
26.0907	Cardiovascular science		615	Physiology
26.0908	Exercise physiology and kinesiology		615	Physiology
26.0909	Vision science/ physiological optics		615	Physiology
26.0910	Pathology/ experimental pathology		613	Pathology/experimental pathology
26.0911	Oncology and cancer biology		615	Physiology
26.0912	Aerospace physiology and medicine		615	Physiology
26.0913	Biomechanics		615	Physiology
26.0999	Physiology, pathology, and related sciences, other		615	Physiology
26.1001	Pharmacology		614	Pharmacology and toxicology
26.1002	Molecular pharmacology		614	Pharmacology and toxicology
26.1003	Neuropharmacology		614	Pharmacology and toxicology
26.1004	Toxicology		614	Pharmacology and toxicology
26.1005	Molecular toxicology		614	Pharmacology and toxicology
26.1006	Environmental toxicology		614	Pharmacology and toxicology
26.1007	Pharmacology and toxicology		614	Pharmacology and toxicology
26.1099	Pharmacology and toxicology, other		614	Pharmacology and toxicology
26.1101	Biometry/ biometrics		618	Biostatistics and bioinformatics
26.1102	Biostatistics		618	Biostatistics and bioinformatics
26.1103	Bioinformatics		618	Biostatistics and bioinformatics
26.1104	Computational biology		618	Biostatistics and bioinformatics
26.1199	Biomathematics, bioinformatics, and computational biology, other		618	Biostatistics and bioinformatics
26.1201	Biotechnology		624	Biotechnology
26.1301	Ecology		620	Ecology and population biology
26.1302	Marine biology and biological oceanography		303	Ocean and marine sciences
26.1303	Evolutionary biology		620	Ecology and population biology
26.1304	Aquatic biology/ limnology		620	Ecology and population biology
26.1305	Environmental biology		620	Ecology and population biology
26.1306	Population biology		620	Ecology and population biology

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(Crosswalk)

CIP code	CIP program title	Degree exclusions	GSS code	GSS field name
26.1307	Conservation biology		620	Ecology and population biology
26.1308	Systematic biology/ biological systematics		620	Ecology and population biology
26.1309	Epidemiology		621	Epidemiology
26.1310	Ecology and evolutionary biology		620	Ecology and population biology
26.1311	Epidemiology and biostatistics		621	Epidemiology
26.1399	Ecology, evolution, systematics and population biology, other		620	Ecology and population biology
26.1401	Molecular medicine		617	Biological and biomedical sciences, not elsewhere classified
26.1501	Neuroscience		950	Neurobiology and neuroscience
26.1502	Neuroanatomy		950	Neurobiology and neuroscience
26.1503	Neurobiology and anatomy		950	Neurobiology and neuroscience
26.1504	Neurobiology and behavior		950	Neurobiology and neuroscience
26.1599	Neurobiology and neurosciences, other		950	Neurobiology and neuroscience
26.9999	Biological and biomedical sciences, other		617	Biological and biomedical sciences, not elsewhere classified
27.0101	Mathematics, general		405	Mathematics
27.0102	Algebra and number theory		405	Mathematics
27.0103	Analysis and functional analysis		405	Mathematics
27.0104	Geometry/ geometric analysis		405	Mathematics
27.0105	Topology and foundations		405	Mathematics
27.0199	Mathematics, other		405	Mathematics
27.0301	Applied mathematics, general		404	Applied mathematics
27.0303	Computational mathematics		404	Applied mathematics
27.0304	Computational and applied mathematics		404	Applied mathematics
27.0305	Financial mathematics		404	Applied mathematics
27.0306	Mathematical biology		404	Applied mathematics
27.0399	Applied mathematics, other		404	Applied mathematics
27.0501	Statistics, general		403	Statistics
27.0502	Mathematical statistics and probability		403	Statistics
27.0503	Mathematics and statistics		403	Statistics
27.0599	Statistics, other		403	Statistics
27.0601	Applied statistics, general		403	Statistics
27.9999	Mathematics and statistics, other		403	Statistics
30.0101	Biological and physical sciences		982	Biological and physical sciences
30.0501	Peace studies and conflict resolution		980	Multidisciplinary and interdisciplinary studies
30.0601	Systems science and theory		980	Multidisciplinary and interdisciplinary studies
30.0801	Mathematics and computer science		980	Multidisciplinary and interdisciplinary studies
30.1001	Biopsychology		980	Multidisciplinary and interdisciplinary studies
30.1101	Gerontology		980	Multidisciplinary and interdisciplinary studies
30.1501	Science, technology and society		980	Multidisciplinary and interdisciplinary studies
30.1601	Accounting and computer science		980	Multidisciplinary and interdisciplinary studies
30.1701	Behavioral sciences		980	Multidisciplinary and interdisciplinary studies
30.1801	Natural sciences		980	Multidisciplinary and interdisciplinary studies
30.1901	Nutrition sciences		612	Nutrition science
30.2001	International/ globalization studies		983	International and global studies
30.2101	Holocaust and related studies		980	Multidisciplinary and interdisciplinary studies
30.2301	Intercultural/ multicultural and diversity studies		980	Multidisciplinary and interdisciplinary studies
30.2501	Cognitive science, general		980	Multidisciplinary and interdisciplinary studies
30.2599	Cognitive science, other		980	Multidisciplinary and interdisciplinary studies

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Crosswalk between 2020 Classification of Instructional Program (CIP) codes and 2020 GSS Codes

(Crosswalk)

CIP code	CIP program title	Degree exclusions	GSS code	GSS field name
30.2701	Human biology		980	Multidisciplinary and interdisciplinary studies
30.3001	Computational science		981	Computational science
30.3101	Human computer interaction		980	Multidisciplinary and interdisciplinary studies
30.3201	Marine sciences		303	Ocean and marine sciences
30.3401	Anthrozoology		980	Multidisciplinary and interdisciplinary studies
30.3501	Climate science		980	Multidisciplinary and interdisciplinary studies
30.3601	Cultural studies and comparative literature		916	Area, ethnic, cultural, gender, and group studies
30.3701	Design for human health		722	Health-related, not elsewhere classified
30.3801	Earth systems science		302	Geological and earth sciences
30.3901	Economics and computer science		980	Multidisciplinary and interdisciplinary studies
30.4001	Economics and foreign language/ literature		903	Economics
30.4101	Environmental geosciences		980	Multidisciplinary and interdisciplinary studies
30.4201	Geoarchaeology		980	Multidisciplinary and interdisciplinary studies
30.4301	Geobiology		980	Multidisciplinary and interdisciplinary studies
30.4401	Geography and environmental studies		980	Multidisciplinary and interdisciplinary studies
30.4701	Linguistics and anthropology		910	Social sciences, not elsewhere classified
30.4801	Linguistics and computer science		980	Multidisciplinary and interdisciplinary studies
30.4901	Mathematical economics		980	Multidisciplinary and interdisciplinary studies
30.5001	Mathematics and atmospheric/ oceanic science		303	Ocean and marine sciences
30.5101	Philosophy, politics, and economics		910	Social sciences, not elsewhere classified
30.5301	Thanatology		980	Multidisciplinary and interdisciplinary studies
30.7001	Data science, general	MBA	984	Data science and data analytics
30.7099	Data science, other	MBA	984	Data science and data analytics
30.7101	Data analytics, general	MBA	984	Data science and data analytics
30.7103	Data visualization	MBA	984	Data science and data analytics
30.7199	Data analytics, other	MBA	984	Data science and data analytics
31.0505	Exercise science and kinesiology		724	Kinesiology and exercise science
38.0102	Logic		405	Mathematics
40.0101	Physical sciences, general		204	Physical sciences, not elsewhere classified
40.0201	Astronomy		201	Astronomy and astrophysics
40.0202	Astrophysics		201	Astronomy and astrophysics
40.0203	Planetary astronomy and science		201	Astronomy and astrophysics
40.0299	Astronomy and astrophysics, other		201	Astronomy and astrophysics
40.0401	Atmospheric sciences and meteorology, general		301	Atmospheric sciences and meteorology
40.0402	Atmospheric chemistry and climatology		301	Atmospheric sciences and meteorology
40.0403	Atmospheric physics and dynamics		301	Atmospheric sciences and meteorology
40.0404	Meteorology		301	Atmospheric sciences and meteorology
40.0499	Atmospheric sciences and meteorology, other		301	Atmospheric sciences and meteorology
40.0501	Chemistry, general		202	Chemistry
40.0502	Analytical chemistry		202	Chemistry
40.0503	Inorganic chemistry		202	Chemistry
40.0504	Organic chemistry		202	Chemistry
40.0506	Physical chemistry		202	Chemistry
40.0507	Polymer chemistry		202	Chemistry
40.0508	Chemical physics		202	Chemistry
40.0509	Environmental chemistry		202	Chemistry
40.0510	Forensic chemistry		202	Chemistry
40.0511	Theoretical chemistry		202	Chemistry
40.0512	Cheminformatics/ chemistry informatics		202	Chemistry

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Crosswalk between 2020 Classification of Instructional Program (CIP) codes and 2020 GSS Codes

(Crosswalk)

CIP code	CIP program title	Degree exclusions	GSS code	GSS field name
40.0599	Chemistry, other		202	Chemistry
40.0601	Geology/ earth science, general		302	Geological and earth sciences
40.0602	Geochemistry		302	Geological and earth sciences
40.0603	Geophysics and seismology		302	Geological and earth sciences
40.0604	Paleontology		302	Geological and earth sciences
40.0605	Hydrology and water resources science		302	Geological and earth sciences
40.0606	Geochemistry and petrology		302	Geological and earth sciences
40.0607	Oceanography, chemical and physical		303	Ocean and marine sciences
40.0699	Geological and earth sciences/ geosciences, other		302	Geological and earth sciences
40.0801	Physics, general		203	Physics
40.0802	Atomic/ molecular physics		203	Physics
40.0804	Elementary particle physics		203	Physics
40.0805	Plasma and high-temperature physics		203	Physics
40.0806	Nuclear physics		203	Physics
40.0807	Optics/ optical sciences		203	Physics
40.0808	Condensed matter and materials physics		203	Physics
40.0809	Acoustics		203	Physics
40.0810	Theoretical and mathematical physics		203	Physics
40.0899	Physics, other		203	Physics
40.1001	Materials science		205	Materials sciences
40.1002	Materials chemistry		205	Materials sciences
40.1099	Materials sciences, other		205	Materials sciences
40.1101	Physics and astronomy		204	Physical sciences, not elsewhere classified
40.9999	Physical sciences, other		204	Physical sciences, not elsewhere classified
42.0101	Psychology, general	PsyD	801	Psychology, general
42.2701	Cognitive psychology and psycholinguistics	PsyD	805	Research and experimental psychology
42.2702	Comparative psychology	PsyD	805	Research and experimental psychology
42.2703	Developmental and child psychology	PsyD	805	Research and experimental psychology
42.2704	Experimental psychology	PsyD	805	Research and experimental psychology
42.2705	Personality psychology	PsyD	805	Research and experimental psychology
42.2706	Behavioral neuroscience	PsyD	805	Research and experimental psychology
42.2707	Social psychology	PsyD	805	Research and experimental psychology
42.2708	Psychometrics and quantitative psychology	PsyD	805	Research and experimental psychology
42.2709	Psychopharmacology	PsyD	805	Research and experimental psychology
42.2710	Developmental and adolescent psychology	PsyD	805	Research and experimental psychology
42.2799	Research and experimental psychology, other	PsyD	805	Research and experimental psychology
42.2801	Clinical psychology	PsyD	803	Clinical psychology
42.2802	Community psychology	PsyD	804	Applied psychology
42.2803	Counseling psychology	PsyD	806	Counseling psychology
42.2804	Industrial and organizational psychology	PsyD	804	Applied psychology
42.2805	School psychology	PsyD	804	Applied psychology
42.2806	Educational psychology	PsyD	804	Applied psychology
42.2807	Clinical child psychology	PsyD	803	Clinical psychology
42.2808	Environmental psychology	PsyD	804	Applied psychology
42.2809	Geropsychology	PsyD	804	Applied psychology
42.2810	Health/ medical psychology	PsyD	804	Applied psychology
42.2811	Family psychology	PsyD	804	Applied psychology
42.2812	Forensic psychology	PsyD	804	Applied psychology
42.2813	Applied psychology	PsyD	804	Applied psychology

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Crosswalk between 2020 Classification of Instructional Program (CIP) codes and 2020 GSS Codes

(Crosswalk)

CIP code	CIP program title	Degree exclusions	GSS code	GSS field name
42.2814	Applied behavior analysis	PsyD	804	Applied psychology
42.2815	Performance and sport psychology	PsyD	804	Applied psychology
42.2899	Clinical, counseling and applied psychology, other	PsyD	804	Applied psychology
42.9999	Psychology, other	PsyD	804	Applied psychology
43.0104	Criminal justice/ safety studies		911	Criminal justice - safety studies
44.0501	Public policy analysis, general		914	Public policy analysis
44.0502	Education policy analysis		914	Public policy analysis
44.0503	Health policy analysis		914	Public policy analysis
44.0504	International policy analysis		914	Public policy analysis
44.0599	Public policy analysis, other		914	Public policy analysis
45.0101	Social sciences, general		910	Social sciences, not elsewhere classified
45.0102	Research methodology and quantitative methods		910	Social sciences, not elsewhere classified
45.0103	Survey research/ methodology		910	Social sciences, not elsewhere classified
45.0201	Anthropology, general		902	Anthropology
45.0202	Physical and biological anthropology		902	Anthropology
45.0203	Medical anthropology		902	Anthropology
45.0204	Cultural anthropology		902	Anthropology
45.0205	Forensic anthropology		902	Anthropology
45.0299	Anthropology, other		902	Anthropology
45.0301	Archeology		910	Social sciences, not elsewhere classified
45.0401	Criminology		917	Criminology
45.0501	Demography and population studies		908	Sociology and demography
45.0502	Applied demography		908	Sociology and demography
45.0599	Demography, other		908	Sociology and demography
45.0601	Economics, general		903	Economics
45.0602	Applied economics		903	Economics
45.0603	Econometrics and quantitative economics		903	Economics
45.0604	Development economics and international development		903	Economics
45.0605	International economics		903	Economics
45.0699	Economics, other		903	Economics
45.0701	Geography		904	Geography and cartography
45.0702	Geographic information science and cartography		904	Geography and cartography
45.0799	Geography, other		904	Geography and cartography
45.0901	International relations and affairs		912	International relations and national security studies
45.0902	National security policy studies		912	International relations and national security studies
45.0999	International relations and national security studies, other		912	International relations and national security studies
45.1001	Political science and government, general		907	Political science and government
45.1002	American government and politics (united states)		907	Political science and government
45.1003	Canadian government and politics		907	Political science and government
45.1004	Political economy		907	Political science and government
45.1099	Political science and government, other		907	Political science and government
45.1101	Sociology, general		908	Sociology and demography
45.1102	Applied/ public sociology		908	Sociology and demography
45.1103	Rural sociology		908	Sociology and demography
45.1199	Sociology, other		908	Sociology and demography
45.1201	Urban studies/ affairs		918	Urban studies and affairs
45.1301	Sociology and anthropology		908	Sociology and demography

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(Crosswalk)

CIP code	CIP program title	Degree exclusions	GSS code	GSS field name
45.1501	Geography and anthropology		910	Social sciences, not elsewhere classified
45.9999	Social sciences, other		910	Social sciences, not elsewhere classified
51.0000	Health services/ allied health/ health sciences, general	DPT, DScPT, OTD	722	Health-related, not elsewhere classified
51.0201	Communication sciences and disorders, general	AuD, SLPD	723	Communication disorders sciences
51.0202	Audiology/ audiologist	AuD, SLPD	723	Communication disorders sciences
51.0203	Speech-language pathology/ pathologist	AuD, SLPD	723	Communication disorders sciences
51.0204	Audiology/ audiologist and speech-language pathology/ pathologist	AuD, SLPD	723	Communication disorders sciences
51.0299	Communication disorders sciences and services, other	AuD, SLPD	723	Communication disorders sciences
51.0501	Dental clinical sciences, general	DDS	718	Dental sciences
51.0503	Oral biology and oral and maxillofacial pathology	DDS	718	Dental sciences
51.0504	Dental public health and education	DDS	718	Dental sciences
51.0505	Dental materials	DDS	718	Dental sciences
51.0506	Endodontics/ endodontology	DDS	718	Dental sciences
51.0507	Oral/ maxillofacial surgery	DDS	718	Dental sciences
51.0508	Orthodontics/ orthodontology	DDS	718	Dental sciences
51.0509	Pediatric dentistry/ pedodontics	DDS	718	Dental sciences
51.0510	Periodontics/ periodontology	DDS	718	Dental sciences
51.0511	Prosthodontics/ prosthodontology	DDS	718	Dental sciences
51.0512	Digital dentistry	DDS	718	Dental sciences
51.0513	Geriatric dentistry	DDS	718	Dental sciences
51.0514	Implantology/ implant dentistry	DDS	718	Dental sciences
51.0599	Advanced/ graduate dentistry and oral sciences, other	DDS	718	Dental sciences
51.1003	Hematology technology/ technician	Master's, DN, DO, DPM, MD, OD	725	Clinical and medical laboratory science
51.1004	Clinical/ medical laboratory technician	Master's, DN, DO, DPM, MD, OD	725	Clinical and medical laboratory science
51.1005	Clinical laboratory science/ medical technology/ technologist	Master's, DN, DO, DPM, MD, OD	725	Clinical and medical laboratory science
51.1010	Cytogenetics/ genetics/ clinical genetics technology/ technologist	Master's, DN, DO, DPM, MD, OD	725	Clinical and medical laboratory science
51.1099	Clinical/ medical laboratory science and allied professions, other	Master's, DN, DO, DPM, MD, OD	725	Clinical and medical laboratory science
51.1401	Medical science/ scientist	DN, DO, DPM, MD, OD	730	Medical clinical sciences
51.1402	Clinical and translational science	DN, DO, DPM, MD, OD	730	Medical clinical sciences
51.1403	Pain management	DN, DO, DPM, MD, OD	730	Medical clinical sciences
51.1404	Temporomandibular disorders and orofacial pain	DN, DO, DPM, MD, OD	730	Medical clinical sciences
51.1405	Tropical medicine	DN, DO, DPM, MD, OD	730	Medical clinical sciences
51.1499	Medical clinical sciences/ graduate medical studies, other	DN, DO, DPM, MD, OD	730	Medical clinical sciences
51.2002	Pharmacy administration and pharmacy policy and regulatory affairs	Master's, PharmD	720	Pharmaceutical sciences
51.2003	Pharmaceutics and drug design	PharmD	720	Pharmaceutical sciences
51.2004	Medicinal and pharmaceutical chemistry	PharmD	720	Pharmaceutical sciences
51.2005	Natural products chemistry and pharmacognosy	PharmD	720	Pharmaceutical sciences
51.2006	Clinical and industrial drug development	PharmD	720	Pharmaceutical sciences
51.2007	Pharmacoeconomics/ pharmaceutical economics	PharmD	720	Pharmaceutical sciences

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(Crosswalk)

CIP code	CIP program title	Degree exclusions	GSS code	GSS field name
51.2009	Industrial and physical pharmacy and cosmetic sciences	PharmD	720	Pharmaceutical sciences
51.2010	Pharmaceutical sciences	PharmD	720	Pharmaceutical sciences
51.2099	Pharmacy, pharmaceutical sciences, and administration, other	Master's, PharmD	720	Pharmaceutical sciences
51.2201	Public health, general	MHSA, MBA	712	Public health
51.2202	Environmental health		712	Public health
51.2205	Health/ medical physics		712	Public health
51.2206	Occupational health and industrial hygiene		712	Public health
51.2207	Public health education and promotion		712	Public health
51.2208	Community health and preventive medicine		712	Public health
51.2209	Maternal and child health		712	Public health
51.2210	International public health/ international health		712	Public health
51.2211	Health services administration	MHSA, MBA	712	Public health
51.2212	Behavioral aspects of health		712	Public health
51.2213	Patient safety and healthcare quality		712	Public health
51.2214	Public health genetics		712	Public health
51.2299	Public health, other	MHSA, MBA	712	Public health
51.2306	Occupational therapy/ therapist	Master's, OTD	722	Health-related, not elsewhere classified
51.2308	Physical therapy/ therapist	Master's, DPT, DScPT	722	Health-related, not elsewhere classified
51.2314	Rehabilitation science	DPT, DScPT, OTD	722	Health-related, not elsewhere classified
51.2706	Medical informatics	MBA	722	Health-related, not elsewhere classified
51.3201	Bioethics/ medical ethics		722	Health-related, not elsewhere classified
51.3205	History of medicine		722	Health-related, not elsewhere classified
51.3801	Registered nursing/ registered nurse	Master's, ND, DNP	719	Nursing
51.3802	Nursing administration	Master's, ND, DNP	719	Nursing
51.3804	Nurse anesthetist	Master's, ND, DNP	719	Nursing
51.3808	Nursing science	ND, DNP	719	Nursing
51.3899	Registered nursing, nursing administration, nursing research and clinical nursing, other	Master's, ND, DNP	719	Nursing
51.9999	Health professions and related clinical sciences, other	Master's	722	Health-related, not elsewhere classified
54.0104	History and philosophy of science and technology		905	History and philosophy of science and technology
01.8001	Veterinary medicine	Postdocs and NFRs only	502	Veterinary biomedical and clinical sciences
15.0401	Biomedical technology/ technician	Postdocs and NFRs only	103	Bioengineering and biomedical engineering
51.0401	Dentistry	Postdocs and NFRs only	718	Dental sciences
51.0502	Advanced general dentistry	Postdocs and NFRs only	718	Dental sciences
51.1201	Medicine	Postdocs and NFRs only	var	Must be reported using gss code
51.1299	Medicine, other	Postdocs and NFRs only	var	Must be reported using gss code
51.2001	Pharmacy	Postdocs and NFRs only	720	Pharmaceutical sciences

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Crosswalk between 2020 Classification of Instructional Program (CIP) codes and 2020 GSS Codes

(Crosswalk)

CIP code	CIP program title	Degree exclusions	GSS code	GSS field name
60.0101	Oral and maxillofacial surgery	Postdocs and NFRs only	718	Dental sciences
60.0102	Dental public health	Postdocs and NFRs only	718	Dental sciences
60.0103	Endodontics	Postdocs and NFRs only	718	Dental sciences
60.0104	Oral and maxillofacial pathology	Postdocs and NFRs only	718	Dental sciences
60.0105	Orthodontics	Postdocs and NFRs only	718	Dental sciences
60.0106	Pediatric dentistry	Postdocs and NFRs only	718	Dental sciences
60.0107	Periodontology	Postdocs and NFRs only	718	Dental sciences
60.0108	Prosthodontics	Postdocs and NFRs only	718	Dental sciences
60.0109	Oral and maxillofacial radiology	Postdocs and NFRs only	718	Dental sciences
60.0199	Dental, other	Postdocs and NFRs only	718	Dental sciences
60.0301	Veterinary anesthesiology	Postdocs and NFRs only	502	Veterinary biomedical and clinical sciences
60.0302	Veterinary dentistry	Postdocs and NFRs only	502	Veterinary biomedical and clinical sciences
60.0303	Veterinary dermatology	Postdocs and NFRs only	502	Veterinary biomedical and clinical sciences
60.0304	Veterinary emergency and critical care medicine	Postdocs and NFRs only	502	Veterinary biomedical and clinical sciences
60.0305	Veterinary internal medicine	Postdocs and NFRs only	502	Veterinary biomedical and clinical sciences
60.0306	Laboratory animal medicine	Postdocs and NFRs only	502	Veterinary biomedical and clinical sciences
60.0307	Veterinary microbiology	Postdocs and NFRs only	502	Veterinary biomedical and clinical sciences
60.0308	Veterinary nutrition	Postdocs and NFRs only	502	Veterinary biomedical and clinical sciences
60.0309	Veterinary ophthalmology	Postdocs and NFRs only	502	Veterinary biomedical and clinical sciences
60.0310	Veterinary pathology	Postdocs and NFRs only	502	Veterinary biomedical and clinical sciences
60.0311	Veterinary practice	Postdocs and NFRs only	502	Veterinary biomedical and clinical sciences
60.0312	Veterinary preventive medicine	Postdocs and NFRs only	502	Veterinary biomedical and clinical sciences
60.0313	Veterinary radiology	Postdocs and NFRs only	502	Veterinary biomedical and clinical sciences
60.0314	Veterinary surgery	Postdocs and NFRs only	502	Veterinary biomedical and clinical sciences
60.0315	Theriogenology	Postdocs and NFRs only	502	Veterinary biomedical and clinical sciences
60.0316	Veterinary toxicology	Postdocs and NFRs only	502	Veterinary biomedical and clinical sciences
60.0317	Zoological medicine	Postdocs and NFRs only	502	Veterinary biomedical and clinical sciences

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Crosswalk between 2020 Classification of Instructional Program (CIP) codes and 2020 GSS Codes

(Crosswalk)

CIP code	CIP program title	Degree exclusions	GSS code	GSS field name
60.0318	Poultry veterinarian	Postdocs and NFRs only	502	Veterinary biomedical and clinical sciences
60.0319	Veterinary behaviorist	Postdocs and NFRs only	502	Veterinary biomedical and clinical sciences
60.0320	Veterinary clinical pharmacology	Postdocs and NFRs only	502	Veterinary biomedical and clinical sciences
60.0399	Veterinary specialties, other	Postdocs and NFRs only	502	Veterinary biomedical and clinical sciences
60.0701	Nurse practitioner, general	Postdocs and NFRs only	719	Nursing
60.0702	Combined nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0703	Acute care nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0704	Adult/ gerontology acute care nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0705	Adult/ gerontology critical care nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0706	Cardiology/ cardiovascular nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0707	Clinical informatics nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0708	Dermatology nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0709	Developmental and behavioral pediatrics nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0710	Diabetes nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0711	Emergency medicine nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0712	Endocrinology nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0713	Family medicine nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0714	Gastroenterology and hepatology nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0715	Gastroenterology nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0716	Genetics nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0717	Gerontology nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0718	Global health nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0719	Hematology-oncology nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0720	Hepatology nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0721	Home-based primary care nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0722	Hospice and palliative medicine nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0723	Hospital medicine nurse practitioner	Postdocs and NFRs only	719	Nursing

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Crosswalk between 2020 Classification of Instructional Program (CIP) codes and 2020 GSS Codes

(Crosswalk)

CIP code	CIP program title	Degree exclusions	GSS code	GSS field name
60.0724	Infectious diseases nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0725	Neonatal nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0726	Nephrology nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0727	Neurology nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0728	Neuroscience nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0729	Obstetrics and gynecology nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0730	Occupational health nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0731	Orthopedic nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0732	Orthopedic surgery nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0733	Pain management nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0734	Palliative care nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0735	Pediatric hematology-oncology nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0736	Pediatric nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0737	Pediatric rehabilitation nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0738	Psychiatric/ mental health nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0739	Public/ community health nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0740	Pulmonary nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0741	Rheumatology nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0742	Rural health nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0743	Sleep medicine nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0744	Surgical and critical care nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0745	Surgical wound and reconstruction nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0746	Transplantation nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0747	Trauma and critical care nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0748	Urgent care nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0749	Urology nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0750	Women's health nurse practitioner	Postdocs and NFRs only	719	Nursing

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Crosswalk between 2020 Classification of Instructional Program (CIP) codes and 2020 GSS Codes

(Crosswalk)

CIP code	CIP program title	Degree exclusions	GSS code	GSS field name
60.0751	Wound care nurse practitioner	Postdocs and NFRs only	719	Nursing
60.0799	Nurse practitioner, other	Postdocs and NFRs only	719	Nursing
60.0801	Pharmacy, general	Postdocs and NFRs only	720	Pharmaceutical sciences
60.0802	Combined pharmacy	Postdocs and NFRs only	720	Pharmaceutical sciences
60.0803	Ambulatory care pharmacy	Postdocs and NFRs only	720	Pharmaceutical sciences
60.0804	Cardiology pharmacy	Postdocs and NFRs only	720	Pharmaceutical sciences
60.0805	Clinical pharmacogenomics pharmacy	Postdocs and NFRs only	720	Pharmaceutical sciences
60.0806	Community/ community-based pharmacy	Postdocs and NFRs only	720	Pharmaceutical sciences
60.0807	Corporate pharmacy leadership	Postdocs and NFRs only	720	Pharmaceutical sciences
60.0808	Critical care pharmacy	Postdocs and NFRs only	720	Pharmaceutical sciences
60.0809	Drug information pharmacy	Postdocs and NFRs only	720	Pharmaceutical sciences
60.0810	Emergency medicine pharmacy	Postdocs and NFRs only	720	Pharmaceutical sciences
60.0811	Family medicine pharmacy	Postdocs and NFRs only	720	Pharmaceutical sciences
60.0812	Geriatric pharmacy	Postdocs and NFRs only	720	Pharmaceutical sciences
60.0813	Health system medication management pharmacy	Postdocs and NFRs only	720	Pharmaceutical sciences
60.0814	Health system pharmacy administration and leadership	Postdocs and NFRs only	720	Pharmaceutical sciences
60.0815	Infectious diseases pharmacy	Postdocs and NFRs only	720	Pharmaceutical sciences
60.0816	Internal medicine pharmacy	Postdocs and NFRs only	720	Pharmaceutical sciences
60.0817	Investigational drugs and pharmacy	Postdocs and NFRs only	720	Pharmaceutical sciences
60.0818	Managed care pharmacy	Postdocs and NFRs only	720	Pharmaceutical sciences
60.0819	Medication systems and operations pharmacy	Postdocs and NFRs only	720	Pharmaceutical sciences
60.0820	Medication-use safety pharmacy	Postdocs and NFRs only	720	Pharmaceutical sciences
60.0821	Neonatal pharmacy	Postdocs and NFRs only	720	Pharmaceutical sciences
60.0822	Nephrology pharmacy	Postdocs and NFRs only	720	Pharmaceutical sciences
60.0823	Neurology pharmacy	Postdocs and NFRs only	720	Pharmaceutical sciences
60.0824	Nuclear pharmacy	Postdocs and NFRs only	720	Pharmaceutical sciences
60.0825	Nutrition support pharmacy	Postdocs and NFRs only	720	Pharmaceutical sciences

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Crosswalk between 2020 Classification of Instructional Program (CIP) codes and 2020 GSS Codes

(Crosswalk)

CIP code	CIP program title	Degree exclusions	GSS code	GSS field name
60.0826	Oncology pharmacy	Postdocs and NFRs only	720	Pharmaceutical sciences
60.0827	Palliative care/ pain management pharmacy	Postdocs and NFRs only	720	Pharmaceutical sciences
60.0828	Pediatric pharmacy	Postdocs and NFRs only	720	Pharmaceutical sciences
60.0829	Pharmacotherapy pharmacy	Postdocs and NFRs only	720	Pharmaceutical sciences
60.0830	Pharmacy informatics pharmacy	Postdocs and NFRs only	720	Pharmaceutical sciences
60.0831	Psychiatric pharmacy	Postdocs and NFRs only	720	Pharmaceutical sciences
60.0832	Transplantation pharmacy	Postdocs and NFRs only	720	Pharmaceutical sciences
60.0899	Pharmacy s, other	Postdocs and NFRs only	720	Pharmaceutical sciences
61.0101	Combined medical, general	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0102	Diagnostic radiology/ nuclear medicine combined	Postdocs and NFRs only	715	Radiological sciences and nuclear medicine
61.0103	Emergency medicine/ anesthesiology combined	Postdocs and NFRs only	701	Anesthesiology
61.0104	Family medicine/ emergency medicine combined	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0105	Family medicine/ osteopathic neuromusculoskeletal medicine combined	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0106	Family medicine/ preventive medicine combined	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0107	Family medicine/ psychiatry combined	Postdocs and NFRs only	713	Psychiatry
61.0108	Internal medicine/ anesthesiology combined	Postdocs and NFRs only	701	Anesthesiology
61.0109	Internal medicine/ dermatology combined	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0110	Internal medicine/ emergency medicine combined	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0111	Internal medicine/ emergency medicine/ critical care medicine combined	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0112	Internal medicine/ family medicine combined	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0113	Internal medicine/ medical genetics and genomics combined	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0114	Internal medicine/ neurology combined	Postdocs and NFRs only	707	Neurology
61.0115	Internal medicine/ pediatrics combined	Postdocs and NFRs only	711	Pediatrics
61.0116	Internal medicine/ preventive medicine combined	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0117	Internal medicine/ psychiatry combined	Postdocs and NFRs only	713	Psychiatry
61.0118	Medical genetics and genomics/ maternal-fetal medicine combined	Postdocs and NFRs only	708	Obstetrics and gynecology
61.0119	Pediatrics/ anesthesiology combined	Postdocs and NFRs only	701	Anesthesiology

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Crosswalk between 2020 Classification of Instructional Program (CIP) codes and 2020 GSS Codes

(Crosswalk)

CIP code	CIP program title	Degree exclusions	GSS code	GSS field name
61.0120	Pediatrics/ emergency medicine combined	Postdocs and NFRs only	711	Pediatrics
61.0121	Pediatrics/ medical genetics and genomics combined	Postdocs and NFRs only	711	Pediatrics
61.0122	Pediatrics/ physical medicine & rehabilitation combined	Postdocs and NFRs only	711	Pediatrics
61.0123	Pediatrics/ psychology/ child-adolescent psychology combined	Postdocs and NFRs only	711	Pediatrics
61.0124	Psychiatry/ neurology combined	Postdocs and NFRs only	713	Psychiatry
61.0125	Reproductive endocrinology and infertility/ medical genetics and genomics combined	Postdocs and NFRs only	708	Obstetrics and gynecology
61.0199	Combined medical, other	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0204	Critical care medicine	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0212	Geriatric medicine	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0214	Surgery of the hand	Postdocs and NFRs only	716	Surgery
61.0215	Health policy (medical/ clinical)	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0216	Hospice and palliative medicine	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0218	Integrative medicine	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0219	Medical education	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0220	Medical toxicology	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0222	Neuromuscular medicine	Postdocs and NFRs only	707	Neurology
61.0224	Pain medicine	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0225	Simulation	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0226	Sleep medicine	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0228	Sports medicine	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0229	Telemedicine	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0230	Undersea and hyperbaric medicine	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0232	Wilderness medicine	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0234	Women's health	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0299	Multiple-pathway medical, other	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0301	Allergy and immunology	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0399	Allergy and immunology, other	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified

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Crosswalk between 2020 Classification of Instructional Program (CIP) codes and 2020 GSS Codes

(Crosswalk)

CIP code	CIP program title	Degree exclusions	GSS code	GSS field name
61.0401	Anesthesiology	Postdocs and NFRs only	701	Anesthesiology
61.0499	Anesthesiology, other	Postdocs and NFRs only	701	Anesthesiology
61.0501	Dermatology	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0502	Dermatopathology	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0504	Pediatric dermatology	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0599	Dermatology, other	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0601	Emergency medicine	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0602	Disaster medicine	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0603	Emergency medical services	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0699	Emergency medicine, other	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0701	Family medicine	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0799	Family medicine, other	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0801	Internal medicine	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0804	Cardiovascular disease	Postdocs and NFRs only	702	Cardiology and cardiovascular disease
61.0805	Clinical cardiac electrophysiology	Postdocs and NFRs only	702	Cardiology and cardiovascular disease
61.0806	Endocrinology, diabetes and metabolism	Postdocs and NFRs only	704	Endocrinology, diabetes, and metabolism
61.0807	Gastroenterology	Postdocs and NFRs only	705	Gastroenterology
61.0808	Hematology	Postdocs and NFRs only	706	Hematology
61.0809	Hematology-oncology	Postdocs and NFRs only	703	Oncology and cancer research
61.0810	Infectious disease	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0811	Interventional cardiology	Postdocs and NFRs only	702	Cardiology and cardiovascular disease
61.0812	Nephrology	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0813	Medical oncology	Postdocs and NFRs only	703	Oncology and cancer research
61.0814	Pulmonary disease	Postdocs and NFRs only	714	Pulmonary disease
61.0816	Rheumatology	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0818	Transplant hepatology	Postdocs and NFRs only	705	Gastroenterology
61.0899	Internal medicine, other	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified

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Crosswalk between 2020 Classification of Instructional Program (CIP) codes and 2020 GSS Codes

(Crosswalk)

CIP code	CIP program title	Degree exclusions	GSS code	GSS field name
61.0901	Clinical biochemical genetics	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0902	Clinical genetics	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0903	Clinical molecular genetics	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0904	Medical biochemical genetics	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.0999	Medical genetics and genomics, other	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.1001	Neurological surgery	Postdocs and NFRs only	707	Neurology
61.1099	Neurological surgery, other	Postdocs and NFRs only	707	Neurology
61.1101	Neurology	Postdocs and NFRs only	707	Neurology
61.1102	Child neurology	Postdocs and NFRs only	707	Neurology
61.1103	Clinical neurophysiology	Postdocs and NFRs only	707	Neurology
61.1104	Epilepsy	Postdocs and NFRs only	707	Neurology
61.1105	Headache medicine	Postdocs and NFRs only	707	Neurology
61.1106	Neurodevelopmental disabilities	Postdocs and NFRs only	707	Neurology
61.1107	Vascular neurology	Postdocs and NFRs only	707	Neurology
61.1199	Neurology, other	Postdocs and NFRs only	707	Neurology
61.1201	Nuclear medicine	Postdocs and NFRs only	715	Radiological sciences and nuclear medicine
61.1299	Nuclear medicine, other	Postdocs and NFRs only	715	Radiological sciences and nuclear medicine
61.1301	Obstetrics and gynecology	Postdocs and NFRs only	708	Obstetrics and gynecology
61.1303	Gynecologic oncology	Postdocs and NFRs only	708	Obstetrics and gynecology
61.1304	Maternal and fetal medicine	Postdocs and NFRs only	708	Obstetrics and gynecology
61.1305	Reproductive endocrinology/ infertility	Postdocs and NFRs only	708	Obstetrics and gynecology
61.1399	Obstetrics and gynecology, other	Postdocs and NFRs only	708	Obstetrics and gynecology
61.1401	Ophthalmology	Postdocs and NFRs only	709	Ophthalmology
61.1499	Ophthalmology, other	Postdocs and NFRs only	709	Ophthalmology
61.1501	Orthopedic surgery	Postdocs and NFRs only	716	Surgery
61.1504	Musculoskeletal oncology	Postdocs and NFRs only	716	Surgery
61.1505	Orthopedic sports medicine	Postdocs and NFRs only	716	Surgery

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Crosswalk between 2020 Classification of Instructional Program (CIP) codes and 2020 GSS Codes

(Crosswalk)

CIP code	CIP program title	Degree exclusions	GSS code	GSS field name
61.1506	Orthopedic surgery of the spine	Postdocs and NFRs only	716	Surgery
61.1507	Pediatric orthopedics	Postdocs and NFRs only	716	Surgery
61.1599	Orthopedic surgery, other	Postdocs and NFRs only	716	Surgery
61.1601	Osteopathic neuromusculoskeletal medicine	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.1699	Osteopathic medicine, other	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.1701	Otolaryngology	Postdocs and NFRs only	710	Otorhinolaryngology
61.1702	Neurotology	Postdocs and NFRs only	710	Otorhinolaryngology
61.1703	Pediatric otolaryngology	Postdocs and NFRs only	710	Otorhinolaryngology
61.1799	Otolaryngology, other	Postdocs and NFRs only	710	Otorhinolaryngology
61.1801	Pathology	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.1804	Blood banking/ transfusion medicine	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.1805	Chemical pathology	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.1806	Cytopathology	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.1807	Forensic pathology	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.1808	Hematological pathology	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.1809	Immunopathology	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.1810	Laboratory medicine	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.1811	Medical microbiology	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.1812	Molecular genetic pathology	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.1813	Neuropathology	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.1814	Pediatric pathology	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.1815	Radioisotopic pathology	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.1899	Pathology, other	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.1901	Pediatrics	Postdocs and NFRs only	711	Pediatrics
61.1902	Adolescent medicine	Postdocs and NFRs only	711	Pediatrics
61.1903	Child abuse pediatrics	Postdocs and NFRs only	711	Pediatrics
61.1904	Developmental-behavioral pediatrics	Postdocs and NFRs only	711	Pediatrics

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Crosswalk between 2020 Classification of Instructional Program (CIP) codes and 2020 GSS Codes

(Crosswalk)

CIP code	CIP program title	Degree exclusions	GSS code	GSS field name
61.1905	Neonatal-perinatal medicine	Postdocs and NFRs only	711	Pediatrics
61.1906	Pediatric cardiology	Postdocs and NFRs only	711	Pediatrics
61.1907	Pediatric critical care medicine	Postdocs and NFRs only	711	Pediatrics
61.1908	Pediatric emergency medicine	Postdocs and NFRs only	711	Pediatrics
61.1909	Pediatric endocrinology	Postdocs and NFRs only	711	Pediatrics
61.1910	Pediatric gastroenterology	Postdocs and NFRs only	711	Pediatrics
61.1911	Pediatric hematology-oncology	Postdocs and NFRs only	711	Pediatrics
61.1912	Pediatric infectious diseases	Postdocs and NFRs only	711	Pediatrics
61.1913	Pediatric nephrology	Postdocs and NFRs only	711	Pediatrics
61.1914	Pediatric pulmonology	Postdocs and NFRs only	711	Pediatrics
61.1915	Pediatric rheumatology	Postdocs and NFRs only	711	Pediatrics
61.1917	Pediatric transplant hepatology	Postdocs and NFRs only	711	Pediatrics
61.1999	Pediatrics, other	Postdocs and NFRs only	711	Pediatrics
61.2001	Physical medicine and rehabilitation	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.2002	Spinal cord injury medicine	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.2003	Pediatric rehabilitation medicine	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.2099	Physical medicine and rehabilitation, other	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.2101	Plastic surgery	Postdocs and NFRs only	716	Surgery
61.2103	Plastic surgery within the head and neck	Postdocs and NFRs only	716	Surgery
61.2199	Plastic surgery, other	Postdocs and NFRs only	716	Surgery
61.2201	Podiatric medicine and surgery	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.2299	Podiatric medicine, other	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.2301	Public health and general preventive medicine	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.2302	Aerospace medicine	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.2303	Occupational medicine	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.2399	Preventive medicine, other	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.2401	Psychiatry	Postdocs and NFRs only	713	Psychiatry

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Crosswalk between 2020 Classification of Instructional Program (CIP) codes and 2020 GSS Codes

(Crosswalk)

CIP code	CIP program title	Degree exclusions	GSS code	GSS field name
61.2402	Addiction psychiatry	Postdocs and NFRs only	713	Psychiatry
61.2403	Child and adolescent psychiatry	Postdocs and NFRs only	713	Psychiatry
61.2404	Psychosomatic medicine	Postdocs and NFRs only	713	Psychiatry
61.2405	Forensic psychiatry	Postdocs and NFRs only	713	Psychiatry
61.2406	Geriatric psychiatry	Postdocs and NFRs only	713	Psychiatry
61.2499	Psychiatry, other	Postdocs and NFRs only	713	Psychiatry
61.2501	Radiation oncology	Postdocs and NFRs only	715	Radiological sciences and nuclear medicine
61.2599	Radiation oncology, other	Postdocs and NFRs only	715	Radiological sciences and nuclear medicine
61.2601	Diagnostic radiology	Postdocs and NFRs only	715	Radiological sciences and nuclear medicine
61.2604	Diagnostic radiologic physics	Postdocs and NFRs only	715	Radiological sciences and nuclear medicine
61.2605	Medical nuclear physics	Postdocs and NFRs only	715	Radiological sciences and nuclear medicine
61.2607	Neuroradiology	Postdocs and NFRs only	715	Radiological sciences and nuclear medicine
61.2608	Nuclear radiology	Postdocs and NFRs only	715	Radiological sciences and nuclear medicine
61.2609	Pediatric radiology	Postdocs and NFRs only	715	Radiological sciences and nuclear medicine
61.2610	Radiologic physics	Postdocs and NFRs only	715	Radiological sciences and nuclear medicine
61.2611	Therapeutic radiologic physics	Postdocs and NFRs only	715	Radiological sciences and nuclear medicine
61.2612	Vascular and interventional radiology	Postdocs and NFRs only	715	Radiological sciences and nuclear medicine
61.2699	Radiology, other	Postdocs and NFRs only	715	Radiological sciences and nuclear medicine
61.2701	General surgery	Postdocs and NFRs only	716	Surgery
61.2702	Colon and rectal surgery	Postdocs and NFRs only	716	Surgery
61.2703	Complex general surgical oncology	Postdocs and NFRs only	716	Surgery
61.2704	Congenital cardiac surgery	Postdocs and NFRs only	716	Surgery
61.2705	Pediatric surgery	Postdocs and NFRs only	716	Surgery
61.2706	Surgical critical care	Postdocs and NFRs only	716	Surgery
61.2707	Thoracic surgery	Postdocs and NFRs only	716	Surgery
61.2709	Vascular surgery	Postdocs and NFRs only	716	Surgery
61.2799	Surgery, other	Postdocs and NFRs only	716	Surgery

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Crosswalk between 2020 Classification of Instructional Program (CIP) codes and 2020 GSS Codes

(Crosswalk)

CIP code	CIP program title	Degree exclusions	GSS code	GSS field name
61.2801	Urology	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.2802	Pediatric urology	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.2899	Urology, other	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified
61.9999	Medical, other	Postdocs and NFRs only	717	Clinical medicine, not elsewhere classified

AuD = Doctor of Audiology; DArch = Doctor of Architecture; DCS = Doctor of Computer Science; DDS = Doctor of Dental Surgery; DED = Doctor of Education; DN = Doctor of Naprapathy; DNP = Doctor of Nursing Practice; DO = Doctor of Osteopathic Medicine; DPM = Doctor of Podiatric Medicine; DPT = Doctor of Physical Therapy; DScPT = Doctor of Science in Physical Therapy; DVM = Doctor of Veterinary Medicine; GSS = Survey of Graduate Students and Postdoctorates in Science and Engineering; JD = Juris Doctor; MArch = Master of Architecture; MBA = Master of Business Administration; MD = Doctor of Medicine; MHSA = Master of Health Services Administration; MLA = Master of Landscape Architecture; ND = Doctor of Naturopathic Medicine; NFR = nonfaculty researcher; OD = Doctor of Optometry; OTD = Doctor of Occupational Therapy; PharmD = Doctor of Pharmacy; PsyD = Doctor of Psychology; SLPD = Doctor or Speech-Language Pathology.

Note(s):
Certificate programs or units are not included if they only award professional degrees, such as AuD, DArch, DCS, DDS, DED, DN, DNP, DO, DPM, DPT, DScPT, DVM, JD, MArch, MD, MLA, ND, OD, OTD, PharmD, PsyD, or SLPD. CIP codes in the 60 and 61 series are designated for medical residency programs. For GSS, these CIP medical residency program titles have been modified to allow reporting of eligible postdoctoral appointees (postdocs) and other doctorate-holding NFRs in these medical fields.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2020.

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Mapping of 2020 GSS codes and fields

(Crosswalk)

Broad field	GSS code (collected)	Detailed field (collected)	GSS code (reported)	GSS field name (in data and tables)	Exclusions
Agricultural and veterinary sciences	501	Agricultural sciences	501	Agricultural sciences	
	502	Veterinary biomedical and clinical sciences	502	Veterinary biomedical and clinical sciences	DVM
Biological and biomedical sciences	602	Biochemistry	602	Biochemistry	
	603	Biology	603	Biology	
	623	Biomedical sciences	623	Biomedical sciences	
	605	Biophysics	605	Biophysics	
	618	Biostatistics and bioinformatics	618	Biostatistics and bioinformatics	
	606	Botany and plant biology	606	Botany and plant biology	
	624	Biotechnology	624	Biotechnology	
	619	Cell, cellular biology, and anatomical sciences	619	Cell, cellular biology, and anatomical sciences	
	620	Ecology and population biology	620	Ecology and population biology	
	621	Epidemiology	621	Epidemiology	
	610	Genetics	610	Genetics	
	611	Microbiological sciences and immunology	611	Microbiological sciences and immunology	
	622	Molecular biology	622	Molecular biology	
	950	Neurobiology and neuroscience	626	Neurobiology and neuroscience	
	612	Nutrition science	612	Nutrition science	
	613	Pathology and experimental pathology	613	Pathology and experimental pathology	
	614	Pharmacology and toxicology	614	Pharmacology and toxicology	
	615	Physiology	615	Physiology	
	616	Zoology and animal biology	616	Zoology and animal biology	
	617	Biological and biomedical sciences nec	617	Biological and biomedical sciences nec	
Computer and information sciences	416	Artificial intelligence, informatics and computer and information science topics	416	Artificial intelligence, informatics and computer and information science topics	Exclude DCS
	411	Computer and information science	411	Computer and information science	Exclude DCS
	413	Computer and information systems security	413	Computer and information systems security	Exclude DCS
	410	Computer science	410	Computer science	Exclude DCS
	415	Information science and studies	415	Information science and studies	Exclude DCS
	414	Information technology	414	Information technology	Exclude DCS
	412	Computer and information science nec	412	Computer and information science nec	Exclude DCS
Geoscience, atmospheric, and ocean sciences	301	Atmospheric sciences and meteorology	301	Atmospheric sciences and meteorology	
	302	Geological and earth sciences	302	Geological and earth sciences	
	303	Ocean and marine sciences	303	Ocean and marine sciences	
	304	Geoscience, atmospheric, and ocean sciences nec	304	Geoscience, atmospheric, and ocean sciences nec	Postdocs and NFRs only
Mathematics and statistics	404	Applied mathematics	404	Applied mathematics	
	405	Mathematics	405	Mathematics	
	403	Statistics	403	Statistics	
Multidisciplinary and interdisciplinary studies	982	Biological and physical sciences	982	Biological and physical sciences	
	981	Computational science	981	Computational science	
	984	Data science and data analytics	984	Data science and data analytics	
	983	International and global studies	983	International and global studies	

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Mapping of 2020 GSS codes and fields

(Crosswalk)

Broad field	GSS code (collected)	Detailed field (collected)	GSS code (reported)	GSS field name (in data and tables)	Exclusions
	980	Multidisciplinary and interdisciplinary studies nec	980	Multidisciplinary and interdisciplinary studies nec	
Natural resources and conservation	510	Environmental science and studies	510	Environmental science and studies	
	511	Forestry, natural resources and conservation	511	Forestry, natural resources and conservation	
Physical sciences	201	Astronomy and astrophysics	201	Astronomy and astrophysics	
	202	Chemistry	202	Chemistry	
	205	Materials sciences	205	Materials sciences	
	203	Physics	203	Physics	
	204	Physical sciences nec	204	Physical sciences nec	
Psychology	804	Applied psychology	804	Applied psychology	
	803	Clinical psychology	803	Clinical psychology	
	806	Counseling psychology	806	Counseling psychology	
	915	Human development	815	Human development	
	801	Psychology, general	801	Psychology, general	
	805	Research and experimental psychology	805	Research and experimental psychology	
Social sciences	901	Agricultural and natural resource economics	901	Agricultural and natural resource economics	
	902	Anthropology	902	Anthropology	
	916	Area, ethnic, cultural, gender, and group studies	916	Area, ethnic, cultural, gender, and group studies	
	911	Criminal justice and safety studies	911	Criminal justice and safety studies	
	917	Criminology	917	Criminology	
	903	Economics (except agricultural and natural resource)	903	Economics (except agricultural and natural resource)	
	904	Geography and cartography	904	Geography and cartography	
	912	International relations and national security studies	912	International relations and national security studies	
	906	Linguistics	906	Linguistics	
	907	Political science and government	907	Political science and government	
	914	Public policy analysis	914	Public policy analysis	
	908	Sociology and population studies	908	Sociology and population studies	
	918	Urban studies and affairs	918	Urban studies and affairs	
	910	Social sciences nec	919	Social sciences, other	
	905	History and philosophy of science and technology	919	Social sciences, other	
Aerospace, aeronautical, and astronautical engineering	101	Aerospace, aeronautical, and astronautical engineering	101	Aerospace, aeronautical, and astronautical engineering	
Biological, biomedical, and biosystems engineering	103	Bioengineering and biomedical engineering	120	Biological, biomedical, and biosystems engineering	
	115	Biological and biosystems engineering	120	Biological, biomedical, and biosystems engineering	
Chemical, petroleum, and chemical-related engineering	104	Chemical engineering	104	Chemical engineering	
	113	Petroleum engineering	113	Petroleum engineering	
Civil, environmental, transportation and related engineering fields	105	Civil engineering	105	Civil engineering	
	117	Architectural, environmental, construction and surveying engineering	117	Architectural, environmental, construction and surveying engineering	

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Mapping of 2020 GSS codes and fields

(Crosswalk)

Broad field	GSS code (collected)	Detailed field (collected)	GSS code (reported)	GSS field name (in data and tables)	Exclusions
Electrical, electronics, communications and computer engineering	118	Computer engineering	118	Computer engineering	
	106	Electrical, electronics, and communications engineering	106	Electrical, electronics, and communications engineering	
Industrial, manufacturing, systems engineering and operations research	108	Industrial and manufacturing engineering	108	Industrial and manufacturing engineering	
	119	Systems engineering and operations research	119	Systems engineering and operations research	
Mechanical engineering	109	Mechanical engineering	109	Mechanical engineering	
Metallurgical, mining, materials and related engineering fields	110	Metallurgical and materials engineering	121	Metallurgical, mining, materials and related engineering fields	
	111	Mining engineering	121	Metallurgical, mining, materials and related engineering fields	
Engineering, other	102	Agricultural engineering	102	Agricultural engineering	
	107	Engineering mechanics, physics, and science	107	Engineering mechanics, physics, and science	
	112	Nuclear engineering	112	Nuclear engineering	
	114	Engineering nec	122	Engineering, other	
	116	Nanotechnology	122	Engineering, other	
Clinical medicine	701	Anesthesiology	701	Anesthesiology	Postdocs and NFRs only
	702	Cardiology and cardiovascular disease	702	Cardiology and cardiovascular disease	Postdocs and NFRs only
	704	Endocrinology, diabetes, and metabolism	704	Endocrinology, diabetes, and metabolism	Postdocs and NFRs only
	705	Gastroenterology	705	Gastroenterology	Postdocs and NFRs only
	706	Hematology	706	Hematology	Postdocs and NFRs only
	725	Clinical and medical laboratory science	729	Medical clinical sciences and clinical and medical laboratory sciences	
	730	Medical clinical sciences	729	Medical clinical sciences and clinical and medical laboratory sciences	
	707	Neurology and neurosurgery	707	Neurology and neurosurgery	Postdocs and NFRs only
	708	Obstetrics and gynecology	708	Obstetrics and gynecology	Postdocs and NFRs only
	703	Oncology and cancer research	703	Oncology and cancer research	Postdocs and NFRs only
	709	Ophthalmology	709	Ophthalmology	Postdocs and NFRs only
	710	Otorhinolaryngology	710	Otorhinolaryngology	Postdocs and NFRs only

TABLE A-17

Mapping of 2020 GSS codes and fields

(Crosswalk)

Broad field	GSS code (collected)	Detailed field (collected)	GSS code (reported)	GSS field name (in data and tables)	Exclusions
	711	Pediatrics	711	Pediatrics	Postdocs and NFRs only
	712	Public health	712	Public health	
	713	Psychiatry	713	Psychiatry	Postdocs and NFRs only
	714	Pulmonary disease	714	Pulmonary disease	Postdocs and NFRs only
	715	Radiological sciences	715	Radiological sciences	Postdocs and NFRs only
	716	Surgery	716	Surgery	Postdocs and NFRs only
	717	Clinical medicine nec	717	Clinical medicine nec	Postdocs and NFRs only
Other health	723	Communication disorders sciences	723	Communication disorders sciences	Exclude AuD
	718	Dental sciences	718	Dental sciences	Exclude DDS
	724	Kinesiology and exercise science	724	Kinesiology and exercise science	Exclude DPT, DScPT, and OTD
	719	Nursing science	719	Nursing science	PhD, postdocs, and NFRs only
	720	Pharmaceutical sciences	720	Pharmaceutical sciences	Exclude PharmD
	722	Other health nec	722	Health-related, not elsewhere classified	Exclude DPT, DScPT and OTD

AuD = Doctor of Audiology; DDS = Doctor of Dental Surgery; DPT = Doctor of Physical Therapy; DScPT = Doctor of Science in Physical Therapy; DVM = Doctor of Veterinary Medicine; GSS = Survey of Graduate Students and Postdoctorates in Science and Engineering; MD = Doctor of Medicine; NFR = nonfaculty researcher; nec = not elsewhere classified; OD = Doctor of Optometry; OTD = Doctor of Occupational Therapy; PharmD = Doctor of Pharmacy; PhD = Doctor of Philosophy.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2020.

TABLE A-18a

Broad field changes in the GSS between 2019 and 2020

(Crosswalk)

2019 broad field	2020 broad field	2019
Agricultural sciences	Agricultural and veterinary sciences	Name changed to reflect move of Veterinary biomedical and clinical sciences into this broad field (from Other health).
Biological and biomedical sciences	Biological and biomedical sciences	None.
Computer and information sciences	Computer and information sciences	Several GSS codes in this broad field split; in 2019 there were three GSS codes, and there are seven in 2020.
Geoscience, atmospheric, and ocean sciences	Geoscience, atmospheric, and ocean sciences	None.
Mathematics and statistics	Mathematics and statistics	One code split into two.
Multidisciplinary and interdisciplinary studies	Multidisciplinary and interdisciplinary studies	Multidisciplinary and interdisciplinary studies was split into four fields; the new CIP codes related to Data science and data analytics were added as their own GSS code in this broad field.
Natural resources and conservation	Natural resources and conservation	None.
Physical sciences	Physical sciences	None.
Psychology	Psychology	Human development was moved from Social sciences to Psychology; one GSS code was split.
Social sciences	Social sciences	Human development was moved from Social sciences to Psychology; several GSS codes were split out of Social sciences nec; reporting changes.
Engineering	Aerospace, aeronautical, and astronautical engineering	Added broad fields within Engineering for the first time. See table A-18b for field level changes in Engineering.
	Biological, biomedical, and biosystems engineering	
	Chemical, petroleum, and chemical-related engineering	
	Civil, environmental, transportation and related engineering fields	
	Electrical, electronics, communications and computer engineering	
	Industrial, manufacturing, systems engineering and operations research	
	Mechanical engineering	
	Metallurgical, mining, materials and related engineering fields	
	Engineering, other	
Clinical medicine	Clinical medicine	New CIP codes related to Clinical medical sciences were added as a new GSS code; changes to which codes can include graduate students.
Other health	Other health	Veterinary biomedical and clinical sciences moved from Other health to Agricultural and veterinary sciences. New GSS code split out of Other health, nec.

CIP = Classification of Instructional Programs; GSS = Survey of Graduate Students and Postdoctorates in Science and Engineering; nec = not elsewhere classified.

Note(s):
See table A-18b for field-level changes between 2019 and 2020.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE A-18b

Detailed field changes in the GSS between 2019 and 2020

(Crosswalk)

2020 broad field	2020 GSS code	2020 detailed field	2019 GSS code	2019 detailed field	Changes
Agricultural and veterinary sciences	501	Agricultural sciences	501	Agricultural sciences	
	502	Veterinary biomedical and clinical sciences	721	Veterinary biomedical and clinical sciences	Moved from Other health broad field to reflect change in CIP; GSS code changed to reflect this move.
Biological and biomedical sciences	602	Biochemistry	602	Biochemistry	
	603	Biology	603	Biology	
	605	Biophysics	605	Biophysics	
	606	Botany and plant biology	606	Botany and plant biology	
	610	Genetics	610	Genetics	
	611	Microbiological sciences and immunology	611	Microbiological sciences and immunology	New CIP code added.
	612	Nutrition science	612	Nutrition science	
	613	Pathology and experimental pathology	613	Pathology and experimental pathology	
	614	Pharmacology and toxicology	614	Pharmacology and toxicology	
	615	Physiology	615	Physiology	New CIP code added.
	616	Zoology and animal biology	616	Zoology and animal biology	
	617	Biological and biomedical sciences nec	617	Biological and biomedical sciences nec	
	618	Biostatistics and bioinformatics	618	Biostatistics and bioinformatics	
	619	Cell, cellular biology, and anatomical sciences	619	Cell, cellular biology, and anatomical sciences	
	620	Ecology and population biology	620	Ecology and population biology	
	621	Epidemiology	621	Epidemiology	New CIP code added.
	622	Molecular biology	622	Molecular biology	
	623	Biomedical sciences	623	Biomedical sciences	
	624	Biotechnology	624	Biotechnology	
	950	Neurobiology and neuroscience	950	Neurobiology and neuroscience	
Computer and information sciences	410	Computer science	410	Computer science	
	411	Computer and information science	411	Computer and information science	Code 411 split into 411, 414, and 416.
	414	Information technology	411	Computer and information science	New code, split from 411.
	416	Artificial intelligence, informatics and computer and information science topics	411	Computer and information science	New code, split from 411.
	412	Computer and information science, nec	412	Computer and information science nec	Code 412 split into 412, 413, and 415.
	413	Computer and information systems security	412	Computer and information science nec	New code, split from 412.
	415	Information science and studies	412	Computer and information science nec	New code, split from 412.
Geoscience, atmospheric, and ocean sciences	301	Atmospheric sciences and meteorology	301	Atmospheric sciences and meteorology	
	302	Geological and earth sciences	302	Geological and earth sciences	New CIP code added.
	303	Ocean and marine sciences	303	Ocean and marine sciences	New CIP code added.

TABLE A-18b

Detailed field changes in the GSS between 2019 and 2020

(Crosswalk)

2020 broad field	2020 GSS code	2020 detailed field	2019 GSS code	2019 detailed field	Changes
	304	Geoscience, atmospheric, and ocean sciences nec	304	Geoscience, atmospheric, and ocean sciences nec	
Mathematics and statistics	404	Applied mathematics	402	Mathematics and applied mathematics	New code split from 402; 402 was retired.
	405	Mathematics	402	Mathematics and applied mathematics	New code split from 402; 402 was retired. New CIP code added.
	403	Statistics	403	Statistics	New CIP code added.
Multidisciplinary and interdisciplinary studies	980	Multidisciplinary and interdisciplinary studies nec	980	Multidisciplinary and interdisciplinary studies	Name changed to reflect the new structure of the broad field; 980 split into 980, 981, 982, and 983. Added new CIP codes.
	981	Computational science	980	Multidisciplinary and interdisciplinary studies	Split from 980.
	982	Biological and physical sciences	980	Multidisciplinary and interdisciplinary studies	Split from 980.
	983	International and global studies	980	Multidisciplinary and interdisciplinary studies	Split from 980.
	984	Data science and data analytics	984	Data science and data analytics	New code comprised of new 2020 CIP codes.
Natural resources and conservation	510	Environmental science and studies	510	Environmental science and studies	
	511	Forestry, natural resources and conservation	511	Forestry, natural resources and conservation	New CIP codes added.
Physical sciences	201	Astronomy and astrophysics	201	Astronomy and astrophysics	
	202	Chemistry	202	Chemistry	New CIP code added.
	203	Physics	203	Physics	
	204	Physical sciences nec	204	Physical sciences nec	New CIP code added.
	205	Materials sciences	205	Materials sciences	
Psychology	801	Psychology, general	801	Psychology, general	
	803	Clinical psychology	803	Clinical psychology	
	804	Applied psychology	804	Counseling and applied psychology	Code 804 split into 804 and 806; name changed to reflect the code split. New CIP code added.
	806	Counseling psychology	804	Counseling and applied psychology	New code, split from 804.
	805	Research and experimental psychology	805	Research and experimental psychology	Two CIP codes moved from 804 for alignment with TOD and CIP; new CIP code added.
	815	Human development	915	Human development	Moved from Social sciences.
Social sciences	901	Agricultural and natural resource economics	901	Agricultural economics	Name changed.
	902	Anthropology	902	Anthropology	New CIP code added.
	903	Economics (except agricultural and natural resource)	903	Economics (except agricultural)	Name changed. New CIP code added.
	904	Geography and cartography	904	Geography and cartography	
	905	History and philosophy of science and technology	905	History and philosophy of science and technology	
	906	Linguistics	906	Linguistics	New CIP codes added.
	907	Political science and government	907	Political science and government	
	908	Sociology and population studies	908	Sociology	Name changed. New CIP codes added.

TABLE A-18b

Detailed field changes in the GSS between 2019 and 2020

(Crosswalk)

2020 broad field	2020 GSS code	2020 detailed field	2019 GSS code	2019 detailed field	Changes
	910	Social sciences nec	910	Social sciences nec	Codes 916, 917, and 918 split from 910.
	916	Area, ethnic, cultural, gender, and group studies	910	Social sciences nec	Split from 910.
	917	Criminology	910	Social sciences nec	Split from 910.
	918	Urban studies and affairs	910	Social sciences nec	Split from 910.
	911	Criminal justice and safety studies	911	Criminal justice and safety studies	
	912	International relations and national security studies	912	International relations and national security studies	
	914	Public policy analysis	914	Public policy analysis	
Aerospace, aeronautical, and astronautical engineering	101	Aerospace, aeronautical, and astronautical engineering	101	Aerospace, aeronautical, and astronautical engineering	New CIP code added.
Biological, biomedical, and biosystems engineering	103	Bioengineering and biomedical engineering	103	Bioengineering and biomedical engineering	
	115	Biological and biosystems engineering	115	Biological and biosystems engineering	
Chemical, petroleum, and chemical-related engineering	104	Chemical engineering	104	Chemical engineering	
	113	Petroleum engineering	113	Petroleum engineering	
Civil, environmental, transportation and related engineering fields	105	Civil engineering	105	Civil engineering	Code split.
	117	Architectural, environmental, construction and surveying engineering	105	Civil engineering	Split from 105.
Electrical, electronics, communications and computer engineering	118	Computer engineering	106	Electrical, electronics, and communications engineering	Split from 106
	106	Electrical, electronics, and communications engineering	106	Electrical, electronics, and communications engineering	Code split. New CIP code added.
Industrial, manufacturing, systems engineering and operations research	108	Industrial and manufacturing engineering	108	Industrial and manufacturing engineering	Code split.
	119	Systems engineering and operations research	108	Industrial and manufacturing engineering	
Mechanical engineering	109	Mechanical engineering	109	Mechanical engineering	
Metallurgical, mining, materials and related engineering fields	110	Metallurgical and materials engineering	110	Metallurgical and materials engineering	
	111	Mining engineering	111	Mining engineering	
Engineering, other	102	Agricultural engineering	102	Agricultural engineering	
	107	Engineering mechanics, physics, and science	107	Engineering mechanics, physics, and science	
	112	Nuclear engineering	112	Nuclear engineering	
	114	Engineering nec	114	Engineering nec	New CIP code added.
	116	Nanotechnology	116	Nanotechnology	
Clinical medicine	701	Anesthesiology	701	Anesthesiology	Most PD and NFR CIP codes changed due to changes in CIP 2020.
	702	Cardiology and cardiovascular disease	702	Cardiology and cardiovascular disease	Most PD and NFR CIP codes changed due to changes in CIP 2020.

TABLE A-18b

Detailed field changes in the GSS between 2019 and 2020

(Crosswalk)

2020 broad field	2020 GSS code	2020 detailed field	2019 GSS code	2019 detailed field	Changes
	703	Oncology and cancer research	703	Oncology and cancer research	Most PD and NFR CIP codes changed due to changes in CIP 2020.
	704	Endocrinology, diabetes, and metabolism	704	Endocrinology, diabetes, and metabolism	Most PD and NFR CIP codes changed due to changes in CIP 2020.
	705	Gastroenterology	705	Gastroenterology	Most PD and NFR CIP codes changed due to changes in CIP 2020.
	706	Hematology	706	Hematology	Most PD and NFR CIP codes changed due to changes in CIP 2020.
	707	Neurology and neurosurgery	707	Neurology and neurosurgery	Most PD and NFR CIP codes changed due to changes in CIP 2020.
	708	Obstetrics and gynecology	708	Obstetrics and gynecology	Most PD and NFR CIP codes changed due to changes in CIP 2020.
	709	Ophthalmology	709	Ophthalmology	Most PD and NFR CIP codes changed due to changes in CIP 2020.
	710	Otorhinolaryngology	710	Otorhinolaryngology	Most PD and NFR CIP codes changed due to changes in CIP 2020.
	711	Pediatrics	711	Pediatrics	Most PD and NFR CIP codes changed due to changes in CIP 2020.
	712	Public health	712	Public health	New CIP codes added.
	713	Psychiatry	713	Psychiatry	Most PD and NFR CIP codes changed due to changes in CIP 2020.
	714	Pulmonary disease	714	Pulmonary disease	Most PD and NFR CIP codes changed due to changes in CIP 2020.
	715	Radiological sciences	715	Radiological sciences	Most PD and NFR CIP codes changed due to changes in CIP 2020.
	716	Surgery	716	Surgery	Most PD and NFR CIP codes changed due to changes in CIP 2020.
	717	Clinical medicine nec	717	Clinical medicine nec	Now PD and NFR only. Most PD and NFR CIP codes changed due to changes in CIP 2020.
	725	Clinical and medical laboratory science	729	Medical clinical sciences and clinical and medical laboratory sciences	New code comprised of new 2020 CIP codes, newly eligible codes and codes from 717.
	730	Medical clinical sciences	729	Medical clinical sciences and clinical and medical laboratory sciences	New code comprised of new 2020 CIP codes.
Other health	718	Dental sciences	718	Dental sciences	New CIP codes added.
	719	Nursing science	719	Nursing science	
	720	Pharmaceutical sciences	720	Pharmaceutical sciences	
	722	Other health nec	722	Other health nec	New CIP codes added. Code split.
	723	Communication disorders sciences	723	Communication disorders sciences	

TABLE A-18b

Detailed field changes in the GSS between 2019 and 2020

(Crosswalk)

2020 broad field	2020 GSS code	2020 detailed field	2019 GSS code	2019 detailed field	Changes
	724	Kinesiology and exercise science	724	Kinesiology and exercise science	Split from 722.

CIP = Classification of Instructional Programs; GSS = Survey of Graduate Students and Postdoctorates in Science and Engineering; NFR = nonfaculty researcher; nec = not elsewhere classified; PD = postdoctoral appointee; TOD = Taxonomy of Disciplines.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2020.

Notes

1 In this report, the term *school* refers to a graduate school, medical school, dental school, nursing school, or school of public health; an affiliated research center; a branch campus; or any other organizational component within an academic institution that grants a GSS-eligible SEH degree.

2 See response rate 3 calculation in American Association for Public Opinion Research (AAPOR). 2016. *Standard Definitions: Final Dispositions of Case Codes and Outcome Rates for Surveys.* 9th ed., p. 62. Deerfield, IL: AAPOR.

3 The number of units added and deleted by coordinators who responded to the 2016 pilot survey was much greater than is typical for GSS coordinators. These increases are largely due to how data are organized in institutional information systems and the increased granularity of CIP codes relative to GSS codes rather than being a reflection of increased organizational complexity.

4 The OMB standards designate Hispanics as an ethnic group rather than a racial group. Following these standards, Hispanic is not counted as a race in GSS. Cognitive interviews with respondents have shown that this is a source of considerable confusion. For example, Black Hispanics and White Hispanics may be counted as “Hispanic, More than one race” rather than “Only one race, Hispanic.” The ethnicity and race categories were aligned to IPEDS by combining the “Hispanic/Latino, More than one race” and “Hispanic/Latino, One race only” categories. In 2008, these two Hispanic categories were collapsed into one: “Hispanic/Latino ethnicity (one or more races).”

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