

TABLE 4-16a

## Engineering master's and doctoral student demographics, enrollment status, and funding: 2019

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Institutions	325	45.5	318	44.5	226	31.7
Schools	338	41.8	327	40.4	234	28.9
Units	2,272	11.2	2,051	10.1	1,354	6.7
All graduate students	164,004	100.0	91,939	100.0	72,065	100.0
Male	120,821	73.7	68,076	74.0	52,745	73.2
Female	43,183	26.3	23,863	26.0	19,320	26.8
U.S. citizens and permanent residents <sup>a</sup>	79,982	48.8	49,873	54.2	30,109	41.8
Hispanic or Latino	8,643	5.3	5,846	6.4	2,797	3.9
Not Hispanic or Latino						
American Indian or Alaska Native	242	0.1	168	0.2	74	0.1
Asian	11,390	6.9	7,009	7.6	4,381	6.1
Black or African American	4,220	2.6	2,708	2.9	1,512	2.1
Native Hawaiian or Other Pacific Islander	95	0.1	69	0.1	26	*
White	48,892	29.8	30,121	32.8	18,771	26.0
More than one race	2,773	1.7	1,672	1.8	1,101	1.5
Unknown ethnicity and race	3,727	2.3	2,280	2.5	1,447	2.0
Temporary visa holders	84,022	51.2	42,066	45.8	41,956	58.2
Part time	42,887	26.1	34,216	37.2	8,671	12.0
Full time	121,117	73.9	57,723	62.8	63,394	88.0
First time	38,631	23.6	27,307	29.7	11,324	15.7
Primary source of support for full-time students <sup>b</sup>						
Federal	24,012	14.6	3,762	4.1	20,250	28.1
DOD	5,030	3.1	1,389	1.5	3,641	5.1
DOE	2,581	1.6	360	0.4	2,221	3.1
HHS	3,655	2.2	257	0.3	3,398	4.7
NIH	3,000	1.8	145	0.2	2,855	4.0
Other HHS	655	0.4	112	0.1	543	0.8
NASA	804	0.5	159	0.2	645	0.9
NSF	8,401	5.1	769	0.8	7,632	10.6
USDA	339	0.2	90	0.1	249	0.3
Other	3,202	2.0	738	0.8	2,464	3.4
Nonfederal	53,305	32.5	15,144	16.5	38,161	53.0
Institutional	43,902	26.8	12,920	14.1	30,982	43.0
Domestic	7,407	4.5	1,722	1.9	5,685	7.9
Foreign	1,996	1.2	502	0.5	1,494	2.1
Self-support	43,800	26.7	38,817	42.2	4,983	6.9
Primary mechanism of support for full-time students <sup>b</sup>						
Fellowships	10,398	6.3	1,776	1.9	8,622	12.0
Research assistantships	39,957	24.4	6,236	6.8	33,721	46.8
Teaching assistantships	15,203	9.3	4,838	5.3	10,365	14.4
Traineeships	1,470	0.9	426	0.5	1,044	1.4
Other types of support	54,089	33.0	44,447	48.3	9,642	13.4
Self-support	43,800	26.7	38,817	42.2	4,983	6.9
Other	10,289	6.3	5,630	6.1	4,659	6.5

\* = value &lt; 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.

<sup>a</sup> Ethnicity and race data are available only for U.S. citizens and permanent residents.<sup>b</sup> Funding data are available only for full-time students.

**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, 2019.