

TABLE 4-18a

**Chemical, petroleum, and chemical-related engineering master's and doctoral student demographics, enrollment status, and funding: 2023**

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Institutions	150	21.8	141	20.5	126	18.3
Schools	151	19.6	142	18.4	126	16.4
Units	195	0.9	173	0.8	149	0.7
All graduate students	10,546	100.0	2,658	100.0	7,888	100.0
Male	6,896	65.4	1,817	68.4	5,079	64.4
Female	3,650	34.6	841	31.6	2,809	35.6
U.S. citizens and permanent residents <sup>a</sup>	4,899	46.5	1,350	50.8	3,549	45.0
Hispanic or Latino	520	4.9	165	6.2	355	4.5
Not Hispanic or Latino						
American Indian or Alaska Native	11	0.1	3	0.1	8	0.1
Asian	920	8.7	277	10.4	643	8.2
Black or African American	222	2.1	65	2.4	157	2.0
Native Hawaiian or Other Pacific Islander	5	*	2	0.1	3	*
White	2,846	27.0	723	27.2	2,123	26.9
More than one race	192	1.8	54	2.0	138	1.7
Unknown ethnicity and race	183	1.7	61	2.3	122	1.5
Temporary visa holders	5,647	53.5	1,308	49.2	4,339	55.0
Part time	1,218	11.5	831	31.3	387	4.9
Full time	9,328	88.5	1,827	68.7	7,501	95.1
First time	2,451	23.2	921	34.7	1,530	19.4
Primary source of support for full-time students <sup>b</sup>						
Federal	2,494	23.6	102	3.8	2,392	30.3
DOD	239	2.3	13	0.5	226	2.9
DOE	488	4.6	21	0.8	467	5.9
HHS	352	3.3	12	0.5	340	4.3
NIH	294	2.8	9	0.3	285	3.6
Other HHS	58	0.5	3	0.1	55	0.7
NASA	37	0.4	2	0.1	35	0.4
NSF	1,064	10.1	29	1.1	1,035	13.1
USDA	20	0.2	3	0.1	17	0.2
Other	294	2.8	22	0.8	272	3.4
Nonfederal	5,467	51.8	627	23.6	4,840	61.4
Institutional	4,366	41.4	520	19.6	3,846	48.8
Domestic	964	9.1	98	3.7	866	11.0
Foreign	137	1.3	9	0.3	128	1.6

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(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Self-support	1,367	13.0	1,098	41.3	269	3.4
Primary mechanism of support for full-time students <sup>b</sup>						
Fellowships	1,543	14.6	94	3.5	1,449	18.4
Research assistantships	4,689	44.5	223	8.4	4,466	56.6
Teaching assistantships	1,086	10.3	169	6.4	917	11.6
Traineeships	47	0.4	7	0.3	40	0.5
Other types of support	1,963	18.6	1,334	50.2	629	8.0
Self-support	1,367	13.0	1,098	41.3	269	3.4
Other	596	5.7	236	8.9	360	4.6

\* = 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. 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, 2023.