

TABLE 4-18a

**Chemical, petroleum, and chemical-related engineering master's and doctoral student demographics, enrollment status, and funding: 2021**

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Institutions	144	20.6	137	19.6	121	17.3
Schools	145	18.4	138	17.5	121	15.4
Units	193	0.9	174	0.8	144	0.7
All graduate students	10,696	100.0	2,983	100.0	7,713	100.0
Male	7,124	66.6	1,989	66.7	5,135	66.6
Female	3,572	33.4	994	33.3	2,578	33.4
U.S. citizens and permanent residents <sup>a</sup>	5,434	50.8	1,779	59.6	3,655	47.4
Hispanic or Latino	568	5.3	244	8.2	324	4.2
Not Hispanic or Latino						
American Indian or Alaska Native	21	0.2	10	0.3	11	0.1
Asian	879	8.2	283	9.5	596	7.7
Black or African American	247	2.3	109	3.7	138	1.8
Native Hawaiian or Other Pacific Islander	3	*	0	0.0	3	*
White	3,310	30.9	988	33.1	2,322	30.1
More than one race	216	2.0	75	2.5	141	1.8
Unknown ethnicity and race	190	1.8	70	2.3	120	1.6
Temporary visa holders	5,262	49.2	1,204	40.4	4,058	52.6
Part time	1,280	12.0	930	31.2	350	4.5
Full time	9,416	88.0	2,053	68.8	7,363	95.5
First time	2,407	22.5	1,082	36.3	1,325	17.2
Primary source of support for full-time students <sup>b</sup>						
Federal	2,589	24.2	95	3.2	2,494	32.3
DOD	233	2.2	7	0.2	226	2.9
DOE	551	5.2	25	0.8	526	6.8
HHS	388	3.6	8	0.3	380	4.9
NIH	321	3.0	6	0.2	315	4.1
Other HHS	67	0.6	2	0.1	65	0.8
NASA	49	0.5	3	0.1	46	0.6
NSF	1,072	10.0	26	0.9	1,046	13.6
USDA	28	0.3	1	*	27	0.4
Other	268	2.5	25	0.8	243	3.2
Nonfederal	5,236	49.0	682	22.9	4,554	59.0
Institutional	4,149	38.8	534	17.9	3,615	46.9
Domestic	939	8.8	124	4.2	815	10.6
Foreign	148	1.4	24	0.8	124	1.6
Self-support	1,591	14.9	1,276	42.8	315	4.1
Primary mechanism of support for full-time students <sup>b</sup>						
Fellowships	1,403	13.1	69	2.3	1,334	17.3
Research assistantships	4,578	42.8	293	9.8	4,285	55.6
Teaching assistantships	1,167	10.9	162	5.4	1,005	13.0
Traineeships	91	0.9	9	0.3	82	1.1
Other types of support	2,177	20.4	1,520	51.0	657	8.5
Self-support	1,591	14.9	1,276	42.8	315	4.1
Other	586	5.5	244	8.2	342	4.4

\* = 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, 2021.