

TABLE 4-18a

Chemical, petroleum, and chemical-related engineering master's and doctoral student demographics, enrollment status, and funding: 2022

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Institutions	144	20.9	139	20.1	121	17.5
Schools	145	18.7	140	18.1	121	15.6
Units	202	0.9	182	0.8	147	0.7
All graduate students	10,601	100.0	3,011	100.0	7,590	100.0
Male	6,987	65.9	2,006	66.6	4,981	65.6
Female	3,614	34.1	1,005	33.4	2,609	34.4
U.S. citizens and permanent residents ^a	5,129	48.4	1,579	52.4	3,550	46.8
Hispanic or Latino	558	5.3	225	7.5	333	4.4
Not Hispanic or Latino						
American Indian or Alaska Native	20	0.2	7	0.2	13	0.2
Asian	899	8.5	277	9.2	622	8.2
Black or African American	238	2.2	94	3.1	144	1.9
Native Hawaiian or Other Pacific Islander	6	0.1	3	0.1	3	*
White	3,049	28.8	855	28.4	2,194	28.9
More than one race	173	1.6	47	1.6	126	1.7
Unknown ethnicity and race	186	1.8	71	2.4	115	1.5
Temporary visa holders	5,472	51.6	1,432	47.6	4,040	53.2
Part time	1,281	12.1	912	30.3	369	4.9
Full time	9,320	87.9	2,099	69.7	7,221	95.1
First time	2,355	22.2	1,008	33.5	1,347	17.7
Primary source of support for full-time students ^b						
Federal	2,419	22.8	92	3.1	2,327	30.7
DOD	227	2.1	9	0.3	218	2.9
DOE	507	4.8	23	0.8	484	6.4
HHS	349	3.3	1	*	348	4.6
NIH	294	2.8	0	0.0	294	3.9
Other HHS	55	0.5	1	*	54	0.7
NASA	49	0.5	6	0.2	43	0.6
NSF	997	9.4	27	0.9	970	12.8
USDA	34	0.3	5	0.2	29	0.4
Other	256	2.4	21	0.7	235	3.1
Nonfederal	5,333	50.3	715	23.7	4,618	60.8
Institutional	4,320	40.8	613	20.4	3,707	48.8
Domestic	902	8.5	88	2.9	814	10.7
Foreign	111	1.0	14	0.5	97	1.3
Self-support	1,568	14.8	1,292	42.9	276	3.6
Primary mechanism of support for full-time students ^b						
Fellowships	1,382	13.0	91	3.0	1,291	17.0
Research assistantships	4,486	42.3	266	8.8	4,220	55.6
Teaching assistantships	1,174	11.1	186	6.2	988	13.0
Traineeships	78	0.7	8	0.3	70	0.9
Other types of support	2,200	20.8	1,548	51.4	652	8.6
Self-support	1,568	14.8	1,292	42.9	276	3.6
Other	632	6.0	256	8.5	376	5.0

* = 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, 2022.