

TABLE 4-23a

Metallurgical, mining, materials and related engineering fields 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	97	13.9	89	12.7	82	11.7
Schools	99	12.6	91	11.6	82	10.4
Units	154	0.7	133	0.6	114	0.5
All graduate students	7,422	100.0	2,518	100.0	4,904	100.0
Male	5,067	68.3	1,692	67.2	3,375	68.8
Female	2,355	31.7	826	32.8	1,529	31.2
U.S. citizens and permanent residents ^a	4,123	55.6	1,641	65.2	2,482	50.6
Hispanic or Latino	464	6.3	163	6.5	301	6.1
Not Hispanic or Latino						
American Indian or Alaska Native	16	0.2	8	0.3	8	0.2
Asian	549	7.4	198	7.9	351	7.2
Black or African American	172	2.3	75	3.0	97	2.0
Native Hawaiian or Other Pacific Islander	3	*	2	0.1	1	*
White	2,602	35.1	1,063	42.2	1,539	31.4
More than one race	199	2.7	83	3.3	116	2.4
Unknown ethnicity and race	118	1.6	49	1.9	69	1.4
Temporary visa holders	3,299	44.4	877	34.8	2,422	49.4
Part time	1,251	16.9	856	34.0	395	8.1
Full time	6,171	83.1	1,662	66.0	4,509	91.9
First time	1,646	22.2	853	33.9	793	16.2
Primary source of support for full-time students ^b						
Federal	1,884	25.4	178	7.1	1,706	34.8
DOD	358	4.8	56	2.2	302	6.2
DOE	463	6.2	44	1.7	419	8.5
HHS	137	1.8	12	0.5	125	2.5
NIH	69	0.9	3	0.1	66	1.3
Other HHS	68	0.9	9	0.4	59	1.2
NASA	71	1.0	10	0.4	61	1.2
NSF	628	8.5	38	1.5	590	12.0
USDA	8	0.1	0	0.0	8	0.2
Other	219	3.0	18	0.7	201	4.1
Nonfederal	2,940	39.6	485	19.3	2,455	50.1
Institutional	2,384	32.1	385	15.3	1,999	40.8
Domestic	446	6.0	73	2.9	373	7.6
Foreign	110	1.5	27	1.1	83	1.7
Self-support	1,347	18.1	999	39.7	348	7.1
Primary mechanism of support for full-time students ^b						
Fellowships	740	10.0	68	2.7	672	13.7
Research assistantships	3,066	41.3	330	13.1	2,736	55.8
Teaching assistantships	609	8.2	140	5.6	469	9.6
Traineeships	53	0.7	8	0.3	45	0.9
Other types of support	1,703	22.9	1,116	44.3	587	12.0
Self-support	1,347	18.1	999	39.7	348	7.1
Other	356	4.8	117	4.6	239	4.9

* = 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, 2021.