

TABLE 4-23a

Metallurgical, mining, materials and related engineering fields 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	97	14.1	90	13.0	80	11.6
Schools	99	12.8	92	11.9	80	10.3
Units	147	0.7	127	0.6	106	0.5
All graduate students	7,118	100.0	2,545	100.0	4,573	100.0
Male	4,861	68.3	1,723	67.7	3,138	68.6
Female	2,257	31.7	822	32.3	1,435	31.4
U.S. citizens and permanent residents ^a	3,934	55.3	1,580	62.1	2,354	51.5
Hispanic or Latino	463	6.5	193	7.6	270	5.9
Not Hispanic or Latino						
American Indian or Alaska Native	15	0.2	9	0.4	6	0.1
Asian	522	7.3	196	7.7	326	7.1
Black or African American	163	2.3	65	2.6	98	2.1
Native Hawaiian or Other Pacific Islander	1	*	0	0.0	1	*
White	2,449	34.4	982	38.6	1,467	32.1
More than one race	202	2.8	85	3.3	117	2.6
Unknown ethnicity and race	119	1.7	50	2.0	69	1.5
Temporary visa holders	3,184	44.7	965	37.9	2,219	48.5
Part time	1,230	17.3	878	34.5	352	7.7
Full time	5,888	82.7	1,667	65.5	4,221	92.3
First time	1,448	20.3	743	29.2	705	15.4
Primary source of support for full-time students ^b						
Federal	1,697	23.8	191	7.5	1,506	32.9
DOD	343	4.8	57	2.2	286	6.3
DOE	400	5.6	44	1.7	356	7.8
HHS	127	1.8	8	0.3	119	2.6
NIH	37	0.5	0	0.0	37	0.8
Other HHS	90	1.3	8	0.3	82	1.8
NASA	49	0.7	8	0.3	41	0.9
NSF	600	8.4	44	1.7	556	12.2
USDA	11	0.2	1	*	10	0.2
Other	167	2.3	29	1.1	138	3.0
Nonfederal	3,024	42.5	579	22.8	2,445	53.5
Institutional	2,399	33.7	470	18.5	1,929	42.2
Domestic	557	7.8	100	3.9	457	10.0
Foreign	68	1.0	9	0.4	59	1.3
Self-support	1,167	16.4	897	35.2	270	5.9
Primary mechanism of support for full-time students ^b						
Fellowships	629	8.8	73	2.9	556	12.2
Research assistantships	3,104	43.6	385	15.1	2,719	59.5
Teaching assistantships	531	7.5	140	5.5	391	8.6
Traineeships	54	0.8	13	0.5	41	0.9
Other types of support	1,570	22.1	1,056	41.5	514	11.2
Self-support	1,167	16.4	897	35.2	270	5.9
Other	403	5.7	159	6.2	244	5.3

* = 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.