

TABLE 4-20a

Electrical, electronics, communications and computer 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	261	38.0	255	37.1	177	25.8
Schools	267	34.7	261	33.9	179	23.2
Units	482	2.1	442	1.9	244	1.1
All graduate students	48,799	100.0	31,093	100.0	17,706	100.0
Male	37,299	76.4	23,359	75.1	13,940	78.7
Female	11,500	23.6	7,734	24.9	3,766	21.3
U.S. citizens and permanent residents ^a	17,263	35.4	11,853	38.1	5,410	30.6
Hispanic or Latino	2,124	4.4	1,617	5.2	507	2.9
Not Hispanic or Latino						
American Indian or Alaska Native	31	0.1	25	0.1	6	*
Asian	3,692	7.6	2,610	8.4	1,082	6.1
Black or African American	1,067	2.2	756	2.4	311	1.8
Native Hawaiian or Other Pacific Islander	18	*	13	*	5	*
White	8,610	17.6	5,657	18.2	2,953	16.7
More than one race	752	1.5	512	1.6	240	1.4
Unknown ethnicity and race	969	2.0	663	2.1	306	1.7
Temporary visa holders	31,536	64.6	19,240	61.9	12,296	69.4
Part time	11,442	23.4	9,207	29.6	2,235	12.6
Full time	37,357	76.6	21,886	70.4	15,471	87.4
First time	12,529	25.7	9,920	31.9	2,609	14.7
Primary source of support for full-time students ^b						
Federal	5,607	11.5	834	2.7	4,773	27.0
DOD	1,503	3.1	285	0.9	1,218	6.9
DOE	462	0.9	67	0.2	395	2.2
HHS	519	1.1	43	0.1	476	2.7
NIH	411	0.8	30	0.1	381	2.2
Other HHS	108	0.2	13	*	95	0.5
NASA	134	0.3	32	0.1	102	0.6
NSF	2,216	4.5	228	0.7	1,988	11.2
USDA	67	0.1	8	*	59	0.3
Other	706	1.4	171	0.5	535	3.0
Nonfederal	14,471	29.7	4,941	15.9	9,530	53.8
Institutional	11,976	24.5	4,157	13.4	7,819	44.2
Domestic	2,178	4.5	708	2.3	1,470	8.3
Foreign	317	0.6	76	0.2	241	1.4

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(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Self-support	17,279	35.4	16,111	51.8	1,168	6.6
Primary mechanism of support for full-time students ^b						
Fellowships	2,150	4.4	332	1.1	1,818	10.3
Research assistantships	10,202	20.9	1,406	4.5	8,796	49.7
Teaching assistantships	3,822	7.8	1,399	4.5	2,423	13.7
Traineeships	217	0.4	99	0.3	118	0.7
Other types of support	20,966	43.0	18,650	60.0	2,316	13.1
Self-support	17,279	35.4	16,111	51.8	1,168	6.6
Other	3,687	7.6	2,539	8.2	1,148	6.5

* = 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, 2023.