

TABLE 4-20a

**Electrical, electronics, communications and computer 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	255	36.5	253	36.2	173	24.7
Schools	260	33.0	258	32.8	175	22.2
Units	469	2.2	433	2.0	242	1.1
All graduate students	45,265	100.0	27,695	100.0	17,570	100.0
Male	34,963	77.2	21,037	76.0	13,926	79.3
Female	10,302	22.8	6,658	24.0	3,644	20.7
U.S. citizens and permanent residents <sup>a</sup>	17,581	38.8	12,263	44.3	5,318	30.3
Hispanic or Latino	2,192	4.8	1,707	6.2	485	2.8
Not Hispanic or Latino						
American Indian or Alaska Native	52	0.1	45	0.2	7	*
Asian	3,619	8.0	2,643	9.5	976	5.6
Black or African American	990	2.2	691	2.5	299	1.7
Native Hawaiian or Other Pacific Islander	12	*	10	*	2	*
White	9,273	20.5	6,209	22.4	3,064	17.4
More than one race	652	1.4	464	1.7	188	1.1
Unknown ethnicity and race	791	1.7	494	1.8	297	1.7
Temporary visa holders	27,684	61.2	15,432	55.7	12,252	69.7
Part time	11,521	25.5	9,155	33.1	2,366	13.5
Full time	33,744	74.5	18,540	66.9	15,204	86.5
First time	12,355	27.3	10,039	36.2	2,316	13.2
Primary source of support for full-time students <sup>b</sup>						
Federal	5,987	13.2	836	3.0	5,151	29.3
DOD	1,897	4.2	343	1.2	1,554	8.8
DOE	456	1.0	61	0.2	395	2.2
HHS	533	1.2	45	0.2	488	2.8
NIH	423	0.9	30	0.1	393	2.2
Other HHS	110	0.2	15	0.1	95	0.5
NASA	152	0.3	27	0.1	125	0.7
NSF	2,274	5.0	193	0.7	2,081	11.8
USDA	46	0.1	11	*	35	0.2
Other	629	1.4	156	0.6	473	2.7
Nonfederal	12,362	27.3	3,564	12.9	8,798	50.1
Institutional	10,498	23.2	3,244	11.7	7,254	41.3
Domestic	1,537	3.4	271	1.0	1,266	7.2
Foreign	327	0.7	49	0.2	278	1.6
Self-support	15,395	34.0	14,140	51.1	1,255	7.1
Primary mechanism of support for full-time students <sup>b</sup>						
Fellowships	2,285	5.0	403	1.5	1,882	10.7
Research assistantships	9,530	21.1	1,174	4.2	8,356	47.6
Teaching assistantships	3,775	8.3	1,312	4.7	2,463	14.0
Traineeships	181	0.4	74	0.3	107	0.6
Other types of support	17,973	39.7	15,577	56.2	2,396	13.6
Self-support	15,395	34.0	14,140	51.1	1,255	7.1
Other	2,578	5.7	1,437	5.2	1,141	6.5

\* = 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.