

TABLE 4-20a

Electrical, electronics, communications and computer engineering master's and doctoral student demographics, enrollment status, and funding: 2020

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Institutions	256	36.0	254	35.7	174	24.4
Schools	261	32.4	259	32.1	176	21.8
Units	466	2.2	434	2.1	242	1.1
All graduate students	43,032	100.0	25,312	100.0	17,720	100.0
Male	33,626	78.1	19,407	76.7	14,219	80.2
Female	9,406	21.9	5,905	23.3	3,501	19.8
U.S. citizens and permanent residents ^a	17,078	39.7	11,749	46.4	5,329	30.1
Hispanic or Latino	1,918	4.5	1,460	5.8	458	2.6
Not Hispanic or Latino						
American Indian or Alaska Native	35	0.1	28	0.1	7	*
Asian	3,302	7.7	2,346	9.3	956	5.4
Black or African American	974	2.3	674	2.7	300	1.7
Native Hawaiian or Other Pacific Islander	8	*	7	*	1	*
White	9,316	21.6	6,217	24.6	3,099	17.5
More than one race	595	1.4	434	1.7	161	0.9
Unknown ethnicity and race	930	2.2	583	2.3	347	2.0
Temporary visa holders	25,954	60.3	13,563	53.6	12,391	69.9
Part time	12,529	29.1	9,983	39.4	2,546	14.4
Full time	30,503	70.9	15,329	60.6	15,174	85.6
First time	6,640	15.4	4,716	18.6	1,924	10.9
Primary source of support for full-time students ^b						
Federal	5,974	13.9	913	3.6	5,061	28.6
DOD	1,643	3.8	356	1.4	1,287	7.3
DOE	434	1.0	81	0.3	353	2.0
HHS	511	1.2	48	0.2	463	2.6
NIH	424	1.0	33	0.1	391	2.2
Other HHS	87	0.2	15	0.1	72	0.4
NASA	134	0.3	21	0.1	113	0.6
NSF	2,494	5.8	236	0.9	2,258	12.7
USDA	27	0.1	4	*	23	0.1
Other	731	1.7	167	0.7	564	3.2
Nonfederal	12,013	27.9	3,207	12.7	8,806	49.7
Institutional	9,941	23.1	2,839	11.2	7,102	40.1
Domestic	1,665	3.9	278	1.1	1,387	7.8
Foreign	407	0.9	90	0.4	317	1.8
Self-support	12,516	29.1	11,209	44.3	1,307	7.4
Primary mechanism of support for full-time students ^b						
Fellowships	1,925	4.5	232	0.9	1,693	9.6
Research assistantships	9,428	21.9	1,157	4.6	8,271	46.7
Teaching assistantships	3,973	9.2	1,301	5.1	2,672	15.1
Traineeships	195	0.5	95	0.4	100	0.6
Other types of support	14,982	34.8	12,544	49.6	2,438	13.8
Self-support	12,516	29.1	11,209	44.3	1,307	7.4
Other	2,466	5.7	1,335	5.3	1,131	6.4

* = 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, 2020.