

TABLE 4-20a

Electrical, electronics, communications and computer engineering 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	254	36.8	250	36.2	175	25.4
Schools	260	33.5	256	33.0	177	22.8
Units	481	2.1	441	2.0	247	1.1
All graduate students	49,901	100.0	32,316	100.0	17,585	100.0
Male	38,156	76.5	24,236	75.0	13,920	79.2
Female	11,745	23.5	8,080	25.0	3,665	20.8
U.S. citizens and permanent residents ^a	17,290	34.6	11,854	36.7	5,436	30.9
Hispanic or Latino	2,141	4.3	1,647	5.1	494	2.8
Not Hispanic or Latino						
American Indian or Alaska Native	130	0.3	122	0.4	8	*
Asian	3,595	7.2	2,564	7.9	1,031	5.9
Black or African American	1,018	2.0	703	2.2	315	1.8
Native Hawaiian or Other Pacific Islander	12	*	10	*	2	*
White	8,815	17.7	5,765	17.8	3,050	17.3
More than one race	706	1.4	476	1.5	230	1.3
Unknown ethnicity and race	873	1.7	567	1.8	306	1.7
Temporary visa holders	32,611	65.4	20,462	63.3	12,149	69.1
Part time	12,019	24.1	9,591	29.7	2,428	13.8
Full time	37,882	75.9	22,725	70.3	15,157	86.2
First time	13,165	26.4	10,774	33.3	2,391	13.6
Primary source of support for full-time students ^b						
Federal	5,621	11.3	820	2.5	4,801	27.3
DOD	1,591	3.2	296	0.9	1,295	7.4
DOE	469	0.9	56	0.2	413	2.3
HHS	518	1.0	46	0.1	472	2.7
NIH	380	0.8	31	0.1	349	2.0
Other HHS	138	0.3	15	*	123	0.7
NASA	172	0.3	30	0.1	142	0.8
NSF	2,247	4.5	222	0.7	2,025	11.5
USDA	54	0.1	11	*	43	0.2
Other	570	1.1	159	0.5	411	2.3
Nonfederal	14,361	28.8	5,282	16.3	9,079	51.6
Institutional	12,399	24.8	4,859	15.0	7,540	42.9
Domestic	1,706	3.4	370	1.1	1,336	7.6
Foreign	256	0.5	53	0.2	203	1.2
Self-support	17,900	35.9	16,623	51.4	1,277	7.3
Primary mechanism of support for full-time students ^b						
Fellowships	2,012	4.0	334	1.0	1,678	9.5
Research assistantships	10,006	20.1	1,459	4.5	8,547	48.6
Teaching assistantships	3,882	7.8	1,532	4.7	2,350	13.4
Traineeships	164	0.3	61	0.2	103	0.6
Other types of support	21,818	43.7	19,339	59.8	2,479	14.1
Self-support	17,900	35.9	16,623	51.4	1,277	7.3
Other	3,918	7.9	2,716	8.4	1,202	6.8

* = 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.