

Table 29**Doctorate recipients who earned a master's degree related to doctorate, by sex, citizenship status, ethnicity, race, and broad field of doctoral study: 2019**

(Percent)

Demographic characteristic	All fields		Life sciences ^a		Physical sciences and earth sciences		Mathematics and computer sciences		Psychology and social sciences		Engineering		Education		Humanities and arts		Other ^b	
	Master's	Related master's	Master's	Related master's	Master's	Related master's	Master's	Related master's	Master's	Related master's	Master's	Related master's	Master's	Related master's	Master's	Related master's	Master's	Related master's
All doctorate recipients	69.9	54.9	52.1	35.4	53.1	44.1	71.6	59.4	82.9	65.7	72.0	65.8	88.8	57.8	84.1	67.5	80.4	58.9
Sex																		
Male	68.5	55.6	49.4	33.0	54.4	45.7	70.5	58.7	82.4	65.8	73.1	67.3	88.0	54.6	83.6	70.1	79.1	57.2
Female	71.5	54.0	54.4	37.4	50.5	41.1	74.8	61.7	83.2	65.7	68.5	61.0	89.1	59.1	84.5	65.1	81.4	60.4
Citizenship status																		
U.S. citizen or permanent resident	70.4	54.7	48.0	33.5	49.1	41.4	72.5	62.5	86.4	69.0	68.5	63.1	92.5	59.5	87.8	71.2	86.2	62.6
Temporary visa holder	75.8	60.6	67.3	43.4	62.6	51.2	74.6	60.2	86.9	67.3	78.5	71.4	87.2	60.8	87.9	67.8	85.1	63.0
Ethnicity and race (U.S. citizens and permanent residents)																		
Hispanic or Latino	70.1	54.1	44.3	32.1	51.3	43.9	72.8	68.9	83.1	64.7	72.5	65.4	95.6	61.0	86.9	69.4	88.3	60.4
Not Hispanic or Latino																		
American Indian or Alaska Native	71.7	50.0	48.3	24.1	D	D	0.0	0.0	86.7	56.7	66.7	66.7	D	D	80.0	60.0	85.7	85.7
Asian	67.7	53.6	47.4	32.1	55.5	46.2	77.0	63.5	88.0	72.9	68.8	63.1	93.7	66.5	89.7	72.5	86.3	57.9
Black or African American	82.6	56.1	65.9	42.4	51.1	42.0	82.6	65.2	91.6	61.9	73.6	66.9	91.8	57.0	89.9	60.9	87.4	61.4
White	71.1	56.1	48.0	34.0	49.0	41.5	73.2	63.5	88.5	72.3	69.3	64.1	93.7	60.4	90.1	73.8	88.1	65.5
More than one race	67.4	52.8	42.2	29.4	44.3	35.7	67.6	61.8	87.7	68.7	60.5	55.6	96.3	61.5	91.4	79.0	94.4	75.0
Other race or race not reported	60.4	44.4	42.2	25.6	D	D	55.6	40.7	70.9	58.2	54.0	48.0	D	D	77.3	56.8	75.0	54.2
Ethnicity not reported	19.1	14.3	18.0	9.0	16.4	12.7	12.5	9.4	18.3	15.0	26.5	25.0	25.0	17.3	18.3	15.4	16.2	8.1

D = suppressed to avoid disclosure of confidential information.

^a Includes agricultural sciences and natural resources; biological and biomedical sciences; and health sciences.^b Includes other non-science and engineering fields not shown separately.**Note(s):**

Percentages based on total number of doctorate recipients. A master's degree is counted as "related master's" if the fields of study of doctorate recipient's first or most recent master's degree and doctoral degree are both in the same major field category, except for engineering and education fields where broad field categories need to be the same. See table A-6 in the technical notes for a listing of major fields and their constituent subfields based on the National Center for Science and Engineering Statistics' field of study taxonomy.

Source(s):

National Center for Science and Engineering Statistics, Survey of Earned Doctorates.