

Table 5-3

Research doctorate recipients who earned a master's degree related to doctorate, by sex, citizenship status, ethnicity, race, and broad field of doctorate: 2022

(Percent)

Demographic characteristic	All fields	Science and engineering													Non-science and engineering					
		Total	Agricultural sciences and natural resources	Biological and biomedical sciences	Computer and information sciences	Engineering	Geosciences, atmospheric, and ocean sciences	Health sciences	Mathematics and statistics	Multidisciplinary/ interdisciplinary sciences	Physical sciences	Psychology	Social sciences	Total	Business	Education	Humanities	Visual and performing arts	Other non-science and engineering	
Doctorate recipients reporting master's degree	73.6	68.6	77.7	43.9	73.9	75.5	68.7	80.6	70.8	77.6	51.0	89.4	89.2	93.6	87.5	96.3	91.8	94.4	95.2	
Sex																				
Male	71.8	68.0	80.4	44.0	72.6	76.4	70.5	73.8	69.2	77.8	52.1	87.2	87.3	92.8	88.6	96.3	91.1	94.3	94.9	
Female	75.5	69.4	75.2	43.8	78.1	73.0	66.6	83.7	74.8	77.3	48.6	90.1	91.0	94.1	86.0	96.4	92.4	94.5	95.3	
Citizenship status																				
U.S. citizen or permanent resident	71.0	63.8	74.1	36.3	74.5	68.4	64.1	81.0	67.7	75.2	44.4	90.3	88.5	94.4	85.8	97.5	91.8	94.4	95.9	
Temporary visa holder	79.5	77.3	84.0	66.4	74.6	81.8	78.9	82.7	74.3	81.0	61.5	90.7	92.6	95.1	90.6	97.7	96.2	96.4	96.5	
Ethnicity and race (U.S. citizens and permanent residents)																				
Hispanic or Latino	70.5	62.8	65.2	37.9	71.4	68.0	62.7	78.6	63.6	70.9	43.1	86.4	90.4	94.2	91.1	98.1	90.3	91.4	95.3	
Not Hispanic or Latino																				
American Indian or Alaska Native	88.1	D	D	D	100.0	D	-	100.0	100.0	0.0	D	100.0	100.0	D	100.0	100.0	100.0	100.0	D	
Asian	67.4	62.7	75.6	39.8	66.0	70.8	69.8	81.8	57.0	72.4	51.6	89.3	84.5	92.4	84.9	96.8	89.8	D	D	
Black or African American	87.0	80.5	88.2	D	D	81.4	D	92.3	76.9	D	50.6	96.4	96.5	97.4	98.8	98.9	88.6	D	D	
White	70.0	62.6	74.2	34.9	76.5	67.4	63.2	78.9	69.9	75.6	43.0	90.4	87.2	94.2	82.9	97.3	92.6	94.7	95.7	
More than one race	65.4	59.4	D	32.8	76.0	57.9	D	76.0	63.3	57.7	47.7	88.8	90.1	89.7	D	92.4	85.7	100.0	D	
Other race or race not reported	76.4	D	80.0	31.1	75.0	D	50.0	D	D	D	D	D	100.0	D	88.9	95.5	D	D	75.0	
Ethnicity not reported	74.1	66.9	66.7	44.4	44.4	80.5	75.0	80.0	40.0	50.0	36.4	83.3	92.9	96.0	100.0	100.0	91.7	100.0	100.0	
Master's degree in the same field as doctorate	55.8	52.6	53.2	29.2	49.3	65.8	48.6	59.4	63.9	23.9	43.9	72.5	67.0	68.7	62.7	64.1	79.0	80.7	60.0	
Sex																				
Male	55.2	52.7	55.2	28.3	49.0	66.8	50.9	48.0	62.5	23.2	44.8	71.1	68.9	68.9	62.7	59.9	81.8	82.0	55.4	
Female	56.3	52.3	51.2	30.0	50.3	63.1	45.9	64.5	67.4	25.0	42.2	72.9	65.3	68.5	62.8	65.8	76.1	79.6	62.9	
Citizenship status																				
U.S. citizen or permanent resident	54.2	49.3	49.3	24.7	52.5	60.7	48.1	61.1	62.8	27.1	39.8	74.0	64.2	70.0	62.8	65.2	80.0	81.9	60.5	
Temporary visa holder	60.1	59.0	60.1	43.0	48.3	70.8	50.5	57.3	66.5	21.8	51.0	69.1	74.5	68.3	64.5	64.8	79.4	78.6	61.7	
Ethnicity and race (U.S. citizens and permanent residents)																				
Hispanic or Latino	53.9	48.7	45.6	26.2	41.5	61.7	47.5	56.5	63.6	21.5	39.0	72.2	68.5	69.9	57.8	67.2	73.9	82.8	66.4	
Not Hispanic or Latino																				
American Indian or Alaska Native	63.1	57.7	D	0.0	0.0	D	-	D	D	0.0	D	D	58.8	71.9	D	68.4	D	D	D	
Asian	50.9	48.2	43.9	28.1	46.3	62.9	55.8	58.0	46.5	21.4	44.9	71.2	62.6	65.2	58.5	65.6	71.2	D	D	
Black or African American	57.7	54.5	52.9	28.0	56.1	68.7	D	71.6	65.4	D	44.4	65.9	53.8	62.7	74.1	60.1	69.7	D	D	
White	54.6	49.2	50.6	23.6	55.6	60.0	47.9	60.1	65.7	29.0	38.6	75.9	65.0	72.2	62.3	66.5	82.8	82.3	60.8	
More than one race	51.1	46.9	D	24.7	52.0	51.8	D	52.0	63.3	30.8	43.9	73.3	65.8	68.4	D	70.9	66.2	85.0	D	
Other race or race not reported	53.9	50.9	20.0	15.6	62.5	D	50.0	D	D	D	D	D	74.3	62.8	55.6	36.4	D	57.1	D	
Ethnicity not reported	51.2	50.3	66.7	33.3	22.2	61.0	75.0	70.0	40.0	16.7	36.4	55.6	64.3	54.0	50.0	50.0	58.3	100.0	16.7	

- = not calculable; D = suppressed to avoid disclosure of confidential information.

Note(s):

Percentages based on total number of doctorate recipients. Due to rounding, percentages may not sum to 100. A master's and doctoral degree are considered to be in the same field if doctorate recipient's first or most recent master's degree is in the same broad field as their doctoral degree. Beginning in 2021, a modified version of the 2020 Classification of Instructional Programs (CIP) codes was used in the survey data collection, and new broad, major, and detailed fields are used in tables reporting data from 2021 to the present; see the field list in table A-4. Therefore, the field of doctorate data prior to 2021 may not be comparable to subsequent years. For more information, see the "Technical Notes" and the SED 2021 Taxonomy Changes Working Paper (available at <https://nces.nsf.gov/pubs/nces23200>).

Source(s):

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