

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: 2023  
(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	73.2	68.0	77.9	44.6	74.7	74.4	68.9	80.9	68.8	76.4	50.3	89.0	89.0	93.5	87.8	96.6	91.2	93.8	95.3
Sex																			
Male	71.5	67.6	80.6	45.0	73.4	75.3	72.6	74.5	67.4	74.7	52.2	87.1	87.0	92.5	87.9	96.0	90.9	93.5	95.3
Female	75.0	68.5	75.6	44.3	78.9	71.7	64.3	83.5	72.3	79.2	46.5	89.6	90.8	94.2	87.7	96.8	91.5	94.1	95.3
Citizenship status																			
U.S. citizen or permanent resident	70.4	62.9	73.6	37.4	73.9	67.0	63.6	81.2	62.3	74.7	42.7	90.1	88.2	94.6	86.5	97.7	91.8	94.8	95.9
Temporary visa holder	79.9	77.6	87.1	67.3	76.2	81.4	80.8	83.3	75.4	79.8	62.6	91.7	91.9	94.8	90.4	98.3	94.6	96.6	97.6
Ethnicity and race (U.S. citizens and permanent residents)																			
Hispanic or Latino	70.4	62.6	75.4	33.1	75.6	71.0	68.4	80.4	68.9	74.6	43.8	87.3	89.2	94.8	D	97.9	92.1	D	93.4
Not Hispanic or Latino																			
American Indian or Alaska Native	84.2	D	D	D	D	D	D	D	-	D	D	88.9	D	D	D	95.2	100.0	D	D
Asian	67.6	D	77.8	D	70.9	D	D	D	D	D	D	91.8	D	D	D	96.0	92.7	97.4	94.5
Black or African American	85.4	77.5	D	41.9	D	75.5	66.7	90.6	D	89.3	52.2	94.3	93.7	97.7	D	D	91.7	100.0	98.2
White	69.4	61.7	72.6	36.8	74.1	65.3	62.6	80.0	62.8	72.5	42.1	89.8	87.6	94.3	85.6	97.6	91.8	94.6	95.7
More than one race	63.8	57.3	63.0	31.5	57.1	61.5	55.2	83.1	68.3	75.0	31.5	93.5	86.3	93.5	D	D	87.5	D	D
Other race or race not reported	69.6	62.3	100.0	37.7	75.0	63.9	75.0	75.0	63.6	66.7	38.2	80.6	92.1	90.0	66.7	90.0	90.9	87.5	100.0
Ethnicity not reported	76.4	70.1	100.0	42.9	66.7	72.7	50.0	87.5	20.0	70.0	75.0	85.7	80.0	92.1	83.3	100.0	90.0	88.9	83.3
Master's degree in the same field as doctorate	55.4	52.2	52.7	30.8	48.2	64.3	49.4	61.0	61.5	25.3	42.7	73.8	66.8	67.9	61.3	62.1	78.7	80.4	62.0
Sex																			
Male	55.3	52.5	54.5	30.0	47.9	65.9	50.1	49.9	60.3	24.9	44.4	69.4	68.7	70.1	62.3	62.2	80.1	85.2	61.4
Female	55.5	51.9	51.3	31.4	49.0	59.8	48.6	65.4	64.5	26.0	39.3	75.2	65.0	66.5	60.1	62.1	77.2	76.8	62.5
Citizenship status																			
U.S. citizen or permanent resident	53.6	48.7	49.4	26.1	48.8	59.4	48.1	62.7	56.8	26.5	38.2	75.5	63.6	69.2	60.1	63.1	80.6	81.9	62.0
Temporary visa holder	60.6	59.4	59.9	45.9	48.5	69.7	53.3	59.0	66.9	24.8	50.4	71.9	74.8	68.6	63.7	63.4	76.7	82.2	65.8
Ethnicity and race (U.S. citizens and permanent residents)																			
Hispanic or Latino	53.6	49.0	50.8	24.7	53.3	64.5	47.4	55.6	62.3	23.9	38.4	73.8	65.7	67.8	61.1	61.6	78.4	81.3	61.0
Not Hispanic or Latino																			
American Indian or Alaska Native	52.6	D	0.0	0.0	D	D	D	D	-	0.0	D	66.7	D	D	D	42.9	75.0	D	D
Asian	50.0	D	48.9	30.5	45.1	59.5	D	D	D	27.1	D	77.5	D	D	D	54.6	78.2	86.8	64.2
Black or African American	57.6	53.4	38.7	30.0	D	D	33.3	71.7	D	30.4	46.7	69.5	50.2	64.1	D	D	72.2	90.9	58.6
White	54.2	48.9	50.3	25.7	51.2	58.9	49.2	63.6	58.7	26.9	37.7	76.5	65.9	71.3	63.7	63.7	82.3	82.2	63.4
More than one race	48.0	42.9	33.3	20.4	38.1	55.2	34.5	59.3	58.5	25.0	28.8	76.3	57.8	71.1	73.3	D	77.8	D	D
Other race or race not reported	50.3	44.8	100.0	26.2	41.7	52.8	25.0	43.8	45.5	16.7	32.4	71.0	60.5	65.6	55.6	80.0	69.7	62.5	50.0
Ethnicity not reported	45.2	43.6	80.0	21.4	16.7	50.0	0.0	68.8	20.0	10.0	60.0	71.4	40.0	49.2	50.0	45.5	60.0	66.7	0.0

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

**Note(s):**

Percentages are based on the total number of doctorate recipients. 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 about the 2021 taxonomy change, see the "Technical Notes."

**Source(s):**

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