

Table 5-2. Research doctorate recipients who earned a bachelor's degree related to doctorate, by sex, citizenship status, ethnicity, race, and broad field of doctorate: 2024

(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 bachelor's degree	98.2	98.2	96.6	98.2	98.1	98.5	98.5	95.9	98.7	98.0	98.8	97.9	98.6	98.1	97.8	98.2	98.3	98.1	97.8
Bachelor's degree in the same field as doctorate	60.7	64.3	50.6	64.6	37.9	78.6	53.8	44.4	81.0	15.2	78.7	70.0	54.9	46.0	40.8	25.0	71.4	67.4	40.3
Sex																			
Male	63.4	65.7	55.4	63.4	38.2	80.0	54.7	34.8	80.4	15.2	78.9	66.1	56.1	50.6	40.0	25.3	71.7	68.8	43.0
Female	57.8	62.7	46.5	65.4	37.1	75.0	52.8	48.5	82.3	15.2	78.4	71.3	53.8	43.0	41.8	25.0	71.1	66.3	38.8
Citizenship status																			
U.S. citizen or permanent resident	61.4	66.2	47.7	69.2	42.4	80.6	55.2	42.5	84.4	14.0	80.9	72.1	55.6	45.3	42.8	23.6	73.1	68.1	37.7
Temporary visa holder	60.8	62.5	55.0	52.3	35.7	77.9	51.7	53.2	78.6	17.1	76.2	58.8	54.3	49.9	40.1	34.9	68.3	68.1	48.0
Ethnicity and race (U.S. citizens and permanent residents)																			
Hispanic or Latino	62.7	69.6	41.8	73.0	50.0	81.9	57.5	31.3	91.8	13.9	84.7	77.4	62.5	38.2	34.1	16.1	70.1	58.8	26.9
Not Hispanic or Latino																			
American Indian or Alaska Native	44.9	55.9	D	75.0	0.0	62.5	0.0	D	D	0.0	D	D	81.3	25.6	0.0	D	D	D	D
Asian	61.0	64.0	47.9	64.7	42.2	80.4	51.8	35.1	D	20.0	73.8	D	51.4	41.1	43.3	16.8	68.2	64.1	40.2
Black or African American	47.9	57.1	D	66.7	44.4	76.6	50.0	42.7	80.6	D	78.5	D	44.1	32.1	41.1	20.7	55.5	66.7	38.4
White	63.1	67.3	D	69.8	42.2	81.5	56.4	45.8	85.8	D	81.7	72.4	56.8	49.7	45.7	26.6	75.6	69.9	38.5
More than one race	62.5	67.0	58.3	70.8	41.5	76.1	51.4	D	87.9	D	D	76.2	56.5	45.6	46.2	D	67.5	73.3	D
Other race or race not reported	56.5	60.2	40.0	57.5	37.5	75.4	0.0	40.0	80.0	18.2	80.6	78.1	56.4	43.6	17.6	20.0	D	D	41.2
Ethnicity not reported	49.0	52.4	50.0	56.1	14.3	65.9	0.0	23.1	37.5	0.0	78.9	66.7	40.0	37.0	40.0	16.7	68.8	25.0	28.6

D = suppressed to avoid disclosure of confidential information.

Note(s):

Percentages are based on the total number of doctorate recipients. A bachelor's and doctoral degree are considered to be in the same field if doctorate recipient's first or most recent bachelor'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.