

TABLE 8-7

Geosciences, atmospheric, and ocean sciences research doctorate recipients, statistical profile by sex and major field of doctorate: 2023

(Number, percent, and median years)

Characteristic	All geosciences, atmospheric, and ocean sciences fields	Geological and earth sciences	Ocean, marine, and atmospheric sciences
All doctorate recipients (number) ^a	1,216	682	534
Sex (%)			
Male	54.9	56.3	53.2
Female	45.0	43.7	46.6
Unknown	0.1	0.0	0.2
Citizenship status (%)			
U.S. citizen or permanent resident	63.6	60.4	67.6
Temporary visa holder	32.0	34.5	28.8
Unknown	4.4	5.1	3.6
Marital status (%)			
Never married	41.6	38.0	46.3
Married	33.1	37.7	27.3
Marriage-like relationship	13.2	13.5	12.9
Separated, divorced, widowed	2.7	2.1	3.6
Unknown	9.3	8.8	9.9
Has dependent age 18 or younger (%)	14.9	17.1	12.1
Has one or more functional limitations (%)	16.1	14.6	18.1
Age at doctorate (median years)	30.8	31.3	30.4
Bachelor's in same field as doctorate (%) ^b	49.8	58.0	39.4
Master's earned (%)	68.9	71.0	66.3
Master's earned at same doctorate institution (%)	45.2	39.8	52.6
Time to doctorate (median years)			
Years since earning bachelor's degree	8.1	8.4	8.0
From graduate school start	6.8	7.0	6.6
From doctoral program start ^c	5.7	5.4	5.8
Received tuition remission (%)	88.0	88.4	87.6
Male doctorate recipients (number)	668	384	284
Citizenship status (%)			
U.S. citizen or permanent resident	57.0	54.9	59.9
Temporary visa holder	38.2	39.3	36.6
Unknown	4.8	5.7	3.5
Marital status (%)			
Never married	43.1	37.8	50.4
Married	34.7	39.3	28.5
Marriage-like relationship	10.9	12.0	9.5
Separated, divorced, widowed	2.2	1.8	2.8
Unknown	9.0	9.1	8.8
Has dependent age 18 or younger (%)	18.5	21.5	14.3
Has one or more functional limitations (%)	12.2	11.3	13.5
Age at doctorate (median years)	31.3	32.0	30.6
Bachelor's in same field as doctorate (%) ^b	50.6	57.1	41.9
Master's earned (%)	72.6	75.9	68.1

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(Number, percent, and median years)

Characteristic	All geosciences, atmospheric, and ocean sciences fields	Geological and earth sciences	Ocean, marine, and atmospheric sciences
Master's earned at same doctorate institution (%)	43.9	39.4	50.5
Time to doctorate (median years)			
Years since earning bachelor's degree	8.3	8.6	8.0
From graduate school start	6.9	7.0	6.8
From doctoral program start ^c	5.5	5.3	5.6
Received tuition remission (%)	87.2	87.0	87.5
Female doctorate recipients (number)	547	298	249
Citizenship status (%)			
U.S. citizen or permanent resident	71.7	67.4	76.7
Temporary visa holder	24.5	28.2	20.1
Unknown	3.8	4.4	3.2
Marital status (%)			
Never married	39.9	38.3	41.8
Married	31.3	35.6	26.1
Marriage-like relationship	16.1	15.4	16.9
Separated, divorced, widowed	3.3	2.3	4.4
Unknown	9.5	8.4	10.8
Has dependent age 18 or younger (%)	10.5	11.4	9.5
Has one or more functional limitations (%)	20.9	18.8	23.6
Age at doctorate (median years)	30.4	30.7	30.1
Bachelor's in same field as doctorate (%) ^b	49.0	59.2	36.6
Master's earned (%)	64.3	64.6	63.9
Master's earned at same doctorate institution (%)	47.1	40.4	55.2
Time to doctorate (median years)			
Years since earning bachelor's degree	8.0	8.2	7.6
From graduate school start	6.8	7.0	6.3
From doctoral program start ^c	5.8	5.6	5.8
Received tuition remission (%)	89.0	90.2	87.5

^a All doctorate recipients includes doctorate recipients who did not report sex.

^b 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.

^c Time to doctorate from doctoral program start is based on master's degree entry if the master's degree was at the same doctoral institution in the same field of study or was a prerequisite to the doctorate; otherwise, it is based on doctoral program entry.

Note(s):

Due to rounding, percentages may not sum to 100. 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.