

TABLE 9-9

Mathematics and statistics research doctorate recipients, postgraduation plans by sex and major field of doctorate: 2023

(Number and percent)

Characteristic	All mathematics and statistics fields	Applied mathematics	Mathematics	Statistics
Doctorate recipients reporting postgraduation status (number)	1,881	469	782	630
Definite postdoctoral training plans	33.4	35.4	43.7	19.2
Definite employment plans	44.1	41.2	30.2	63.7
Seeking employment or study	20.4	20.5	23.9	16.0
Other status ^a	1.9	2.8	2.0	1.0
Definite postdoctoral training plans (%) ^b				
Postdoc fellowship or research associateship	97.0	96.4	97.4	96.7
Other training or unknown ^c	3.0	3.6	2.6	3.3
Definite employment plans (%) ^d				
Academe	29.4	22.3	51.3	20.0
In tenure track faculty position (%)	43.4	41.9	35.5	56.3
Not in tenure track position (%)	53.7	51.2	63.6	40.0
Government	5.2	D	D	4.2
Industry or business ^e	60.8	66.3	40.3	70.3
Nonprofit organization	2.4	D	D	3.2
Other or unknown ^f	2.2	2.6	1.7	2.2
Primary activity ^g				
Research and development	51.4	51.6	35.4	60.5
Teaching	D	19.4	D	D
Management or administration	D	0.0	D	D
Professional services and other	23.4	29.0	14.6	25.9
Secondary activity ^g				
Research and development	24.8	23.7	31.9	21.3
Teaching	3.6	D	D	4.4
Management or administration	5.0	D	D	5.4
Professional services and other	11.1	10.2	8.8	12.8
No secondary activity	55.5	59.1	51.3	56.2
Activity unknown	3.4	3.6	4.2	2.7
Postgraduation location (%) ^h				
United States ⁱ	87.9	91.9	82.5	91.2
Midwest	14.7	12.3	17.8	12.8
Northeast	23.3	22.8	21.3	25.9
South	23.7	25.9	21.6	24.5
West	25.7	30.1	21.5	27.4
Outside the United States	12.0	8.1	17.5	8.6
Location unknown	0.1	0.0	0.0	0.2
Postgraduation location in same state as doctorate institution (%)	26.1	31.2	21.8	27.4
Male doctorate recipients reporting postgraduation status (number)	1,351	326	618	407
Definite postdoctoral training plans	35.4	34.4	45.0	21.6
Definite employment plans	40.9	42.0	27.2	60.7
Seeking employment or study	22.0	21.5	25.4	17.2
Other status ^a	1.6	1.8	2.3	0.5
Definite postdoctoral training plans (%) ^b				
Postdoc fellowship or research associateship	96.4	94.6	97.1	96.6
Other training or unknown ^c	3.6	5.4	2.9	3.4
Definite employment plans (%) ^d				

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(Number and percent)

Characteristic	All mathematics and statistics fields	Applied mathematics	Mathematics	Statistics
Academe	28.3	16.8	D	D
In tenure track faculty position (%)	39.7	30.4	D	D
Not in tenure track position (%)	58.3	69.6	63.9	44.0
Government	5.8	D	D	4.0
Industry or business ^e	61.4	71.5	40.5	70.0
Nonprofit organization	2.0	D	D	D
Other or unknown ^f	2.5	2.9	1.8	2.8
Primary activity ^g				
Research and development	55.0	57.9	38.5	64.4
Teaching	D	14.3	47.8	D
Management or administration	D	0.0	0.0	D
Professional services and other	21.2	27.8	13.7	22.6
Secondary activity ^g				
Research and development	22.7	D	D	18.4
Teaching	3.9	D	3.7	D
Management or administration	5.6	5.3	D	D
Professional services and other	12.0	10.5	9.3	14.6
No secondary activity	55.7	60.9	50.9	56.1
Activity unknown	3.4	2.9	4.2	3.2
Postgraduation location (%) ^h				
United States ⁱ	86.4	91.2	80.0	91.3
Midwest	14.4	13.3	16.1	12.8
Northeast	22.6	20.5	22.9	23.9
South	22.6	24.9	19.5	25.1
West	26.1	31.7	21.1	28.7
Outside the United States	13.5	8.8	20.0	8.4
Location unknown	0.1	0.0	0.0	0.3
Postgraduation location in same state as doctorate institution (%)	25.8	32.5	20.2	28.4
Female doctorate recipients reporting postgraduation status (number)	529	143	163	223
Definite postdoctoral training plans	28.4	37.8	38.7	14.8
Definite employment plans	52.6	39.2	41.7	69.1
Seeking employment or study	16.4	18.2	18.4	13.9
Other status ^a	2.5	4.9	1.2	1.8
Definite postdoctoral training plans (%) ^b				
Postdoc fellowship or research associateship	98.7	D	98.4	97.0
Other training or unknown ^c	1.3	D	1.6	3.0
Definite employment plans (%) ^d				
Academe	31.7	35.7	D	D
In tenure track faculty position (%)	50.0	55.0	D	D
Not in tenure track position (%)	45.5	30.0	63.2	33.3
Government	4.0	D	D	4.5
Industry or business ^e	59.7	53.6	39.7	70.8
Nonprofit organization	3.2	D	0.0	D
Other or unknown ^f	1.4	1.8	1.5	1.3
Primary activity ^g				
Research and development	44.2	35.8	27.7	54.3
Teaching	D	32.1	D	14.6

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(Number and percent)

Characteristic	All mathematics and statistics fields	Applied mathematics	Mathematics	Statistics
Management or administration	D	0.0	D	0.0
Professional services and other	27.9	32.1	16.9	31.1
Secondary activity ^g				
Research and development	29.0	D	D	25.8
Teaching	3.0	D	D	D
Management or administration	3.7	D	D	D
Professional services and other	9.3	9.4	7.7	9.9
No secondary activity	55.0	54.7	52.3	56.3
Activity unknown	3.2	5.4	4.4	1.9
Postgraduation location (%) ^h				
United States ⁱ	91.8	93.6	91.6	90.9
Midwest	15.4	10.0	23.7	12.8
Northeast	25.0	28.2	16.0	29.4
South	26.4	28.2	29.0	23.5
West	24.8	26.4	22.9	25.1
Outside the United States	8.2	6.4	8.4	9.1
Location unknown	0.0	0.0	0.0	0.0
Postgraduation location in same state as doctorate institution (%)	26.9	28.2	27.5	25.7

D = suppressed to avoid disclosure of confidential information.

^a Other status includes doctorate recipients reporting: no plans to work or study, some other type of postgraduation plans, or definite plans for other full-time degree program.

^b Definite postdoctoral training plans excludes doctorate recipients reporting plans for other full-time degree program. Percentages are based on the number of doctorate recipients reporting definite postdoctoral plans for study.

^c Other training includes doctorate recipients who reported definite postdoctoral plans for traineeship, internship or clinical residency, or other study.

^d Percentages are based on the number of doctorate recipients reporting definite postgraduation plans for employment.

^e Industry or business includes doctorate recipients reporting self-employment.

^f Other is mainly composed of elementary and secondary schools.

^g Percentages are based on the number of doctorate recipients reporting definite postgraduation plans for employment and primary or secondary work activity.

^h Percentages are based on the number of doctorate recipients reporting definite postgraduation plans and type of plans.

ⁱ United States includes doctorate recipients with an unknown U.S. region of employment after doctorate; thus, the percentages by regions will not sum to the value for United States. See the "Technical Notes" for states or territories included in regions.

Note(s):

A definite postgraduation commitment includes accepting new employment or a postdoctoral study (postdoc) position or returning to predoctoral employment, while postgraduation employment includes accepting new employment or returning to predoctoral employment that is not a postdoctoral study (postdoc) position. 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.