

Table 9-9. Mathematics and statistics research doctorate recipients, postgraduation plans by sex and major field of doctorate: 2024

(Number and percent)

Characteristic	All mathematics and statistics fields	Applied mathematics	Mathematics	Statistics
Doctorate recipients reporting postgraduation status (number)	1,833	425	811	597
Definite postdoctoral training plans	33.5	34.1	40.7	23.3
Definite employment plans	38.3	38.4	27.4	53.1
Seeking employment or study	26.4	26.1	29.6	22.3
Other status ^a	1.6	1.2	2.2	1.2
Definite postdoctoral training plans (%) ^b				
Postdoc fellowship or research associateship	97.6	97.2	97.6	97.8
Other training or unknown ^c	2.4	2.8	2.4	2.2
Definite employment plans (%) ^d				
Academe	40.7	34.4	61.7	29.3
In tenure track faculty position (%)	45.1	48.2	31.4	63.4
Not in tenure track position (%)	50.3	42.9	65.0	33.3
Government	3.8	D	D	5.7
Industry or business ^e	47.6	56.4	27.5	57.1
Nonprofit organization	4.0	D	D	5.4
Other or unknown ^f	3.8	5.5	4.5	2.5
Primary activity ^g				
Research and development	46.0	47.8	25.0	59.5
Teaching	32.1	28.9	57.1	16.5
Management or administration	1.9	D	2.8	D
Professional services and other	20.0	D	15.1	D
Secondary activity ^g				
Research and development	27.2	27.0	31.1	24.6
Teaching	8.7	5.0	6.6	12.0
Management or administration	6.6	6.3	8.0	5.8
Professional services and other	11.3	13.8	5.7	13.9
No secondary activity	46.2	47.8	48.6	43.7
Activity unknown	3.1	2.5	4.5	2.5
Postgraduation location (%) ^h				
United States ⁱ	86.2	87.7	81.2	91.2
Midwest	17.0	14.9	17.0	18.4
Northeast	21.2	17.5	22.3	22.4
South	23.5	24.0	22.1	24.8
West	24.1	30.5	19.4	25.4
Outside the United States	13.7	12.0	18.7	8.8
Location unknown	0.2	0.3	0.2	0.0
Postgraduation location in same state as doctorate institution (%)	26.7	34.4	21.7	27.4
Male doctorate recipients reporting postgraduation status (number)	1,267	275	593	399
Definite postdoctoral training plans	34.2	33.5	41.0	24.6
Definite employment plans	37.0	41.1	25.5	51.4
Seeking employment or study	26.9	24.4	31.0	22.6
Other status ^a	1.8	1.1	2.4	1.5
Definite postdoctoral training plans (%) ^b				
Postdoc fellowship or research associateship	98.2	96.7	97.9	D
Other training or unknown ^c	1.8	3.3	2.1	D
Definite employment plans (%) ^d				
Academe	37.7	D	57.6	D
In tenure track faculty position (%)	45.8	57.6	29.9	63.2

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(Number and percent)

Characteristic	All mathematics and statistics fields	Applied mathematics	Mathematics	Statistics
Not in tenure track position (%)	49.2	36.4	64.4	33.3
Government	3.6	D	3.3	D
Industry or business ^e	51.2	62.8	31.1	59.5
Nonprofit organization	4.1	D	3.3	D
Other or unknown ^f	3.4	5.3	4.6	1.5
Primary activity ^g				
Research and development	48.7	50.0	28.0	62.7
Teaching	30.2	25.5	53.8	15.9
Management or administration	1.1	0.0	D	D
Professional services and other	20.0	24.5	D	D
Secondary activity ^g				
Research and development	26.7	28.2	31.5	22.4
Teaching	7.9	D	6.3	D
Management or administration	7.0	D	D	D
Professional services and other	11.9	13.6	4.2	16.4
No secondary activity	46.5	46.4	52.4	42.3
Activity unknown	3.2	2.7	5.3	2.0
Postgraduation location (%) ^h				
United States ⁱ	83.8	86.8	78.2	89.1
Midwest	16.4	13.2	16.8	18.2
Northeast	20.8	16.1	21.3	23.4
South	22.1	23.4	20.3	23.4
West	24.1	33.2	19.5	23.8
Outside the United States	16.0	12.7	21.6	10.9
Location unknown	0.2	0.5	0.3	0.0
Postgraduation location in same state as doctorate institution (%)	25.7	34.6	20.1	27.1
Female doctorate recipients reporting postgraduation status (number)	566	150	218	198
Definite postdoctoral training plans	32.0	35.3	39.9	20.7
Definite employment plans	41.2	33.3	32.6	56.6
Seeking employment or study	25.3	29.3	25.7	21.7
Other status ^a	1.2	1.3	1.8	0.5
Definite postdoctoral training plans (%) ^b				
Postdoc fellowship or research associateship	96.1	98.1	96.6	D
Other training or unknown ^c	3.9	1.9	3.4	D
Definite employment plans (%) ^d				
Academe	46.8	D	70.4	D
In tenure track faculty position (%)	44.0	34.8	34.0	63.9
Not in tenure track position (%)	52.3	52.2	66.0	33.3
Government	4.3	0.0	D	D
Industry or business ^e	40.3	42.0	19.7	52.7
Nonprofit organization	3.9	D	D	D
Other or unknown ^f	4.7	6.0	4.2	4.5
Primary activity ^g				
Research and development	40.7	42.9	18.8	53.7
Teaching	35.8	36.7	63.8	17.6
Management or administration	3.5	D	D	D
Professional services and other	19.9	D	D	D
Secondary activity ^g				
Research and development	28.3	24.5	30.4	28.7

Table 9-9. Mathematics and statistics research doctorate recipients, postgraduation plans by sex and major field of doctorate: 2024

(Number and percent)

Characteristic	All mathematics and statistics fields	Applied mathematics	Mathematics	Statistics
Teaching	10.2	D	7.2	D
Management or administration	5.8	D	D	D
Professional services and other	10.2	14.3	8.7	9.3
No secondary activity	45.6	51.0	40.6	46.3
Activity unknown	3.0	2.0	2.8	3.6
Postgraduation location (%) ^h				
United States ⁱ	91.3	89.3	88.6	95.4
Midwest	18.4	18.4	17.7	19.0
Northeast	22.0	20.4	24.7	20.3
South	26.6	25.2	26.6	27.5
West	24.2	25.2	19.0	28.8
Outside the United States	8.7	10.7	11.4	4.6
Location unknown	0.0	0.0	0.0	0.0
Postgraduation location in same state as doctorate institution (%)	28.7	34.0	25.9	28.1

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.