

Table 9-9

**Mathematics and statistics research doctorate recipients, postgraduation plans by sex and major field of doctorate: 2021**

(Number and percent)

Characteristic	All mathematics and statistics fields	Applied mathematics	Mathematics	Statistics
Doctorate recipients reporting postgraduation status (number)	1,769	452	742	575
Definite postdoctoral training plans	33.9	34.5	41.9	23.0
Definite employment plans	38.4	34.5	26.5	56.9
Seeking employment or study	25.6	28.3	30.2	17.6
Other status <sup>a</sup>	2.1	2.7	1.3	2.6
Definite postdoctoral training plans (%) <sup>b</sup>				
Postdoc fellowship or research associateship	98.0	96.8	98.7	97.7
Other training or unknown <sup>c</sup>	2.0	3.2	1.3	2.3
Definite employment plans (%) <sup>d</sup>				
Academe	33.7	28.8	49.7	26.3
In tenure track faculty position (%)	47.6	44.4	38.8	59.3
Not in tenure track position (%)	47.2	40.0	57.1	39.5
Government	4.0	D	4.1	D
Industry or business <sup>e</sup>	57.5	61.5	38.6	67.0
Nonprofit organization	2.9	D	3.6	D
Other or unknown <sup>f</sup>	1.9	1.3	4.1	0.9
Primary activity <sup>g</sup>				
Research and development	51.2	55.0	30.7	61.9
Teaching	26.8	18.8	52.1	15.2
Management or administration	0.8	D	D	D
Professional services and other	21.2	D	D	D
Secondary activity <sup>g</sup>				
Research and development	28.5	24.2	36.5	25.7
Teaching	6.7	D	D	10.5
Management or administration	7.8	D	D	6.3
Professional services and other	17.1	17.4	10.4	21.0
No secondary activity	39.9	45.6	41.1	36.5
Activity unknown	3.5	4.5	2.5	3.7
Postgraduation location (%) <sup>h</sup>				
United States <sup>i</sup>	82.0	88.1	71.1	90.0
Midwest	15.3	12.5	15.9	16.6
Northeast	21.8	23.1	22.6	20.0
South	19.9	23.4	16.3	21.6
West	24.6	28.5	16.1	31.4
Outside the United States	17.9	11.9	28.7	10.0
Location unknown	0.1	0.0	0.2	0.0
Postgraduation location in same state as doctorate institution (%)	23.9	29.5	16.9	27.9
Male doctorate recipients reporting postgraduation status (number)	1,276	315	579	382
Definite postdoctoral training plans	36.5	35.6	43.5	26.7
Definite employment plans	34.6	34.6	22.5	53.1
Seeking employment or study	26.9	27.6	32.8	17.3
Other status <sup>a</sup>	2.0	2.2	1.2	2.9
Definite postdoctoral training plans (%) <sup>b</sup>				
Postdoc fellowship or research associateship	98.3	95.5	99.2	99.0
Other training or unknown <sup>c</sup>	1.7	4.5	0.8	1.0

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**Mathematics and statistics research doctorate recipients, postgraduation plans by sex and major field of doctorate: 2021**

(Number and percent)

Characteristic	All mathematics and statistics fields	Applied mathematics	Mathematics	Statistics
Definite employment plans (%) <sup>d</sup>				
Academe	31.9	29.4	46.9	23.6
In tenure track faculty position (%)	46.8	46.9	36.1	60.4
Not in tenure track position (%)	47.5	37.5	59.0	39.6
Government	3.8	D	D	3.4
Industry or business <sup>e</sup>	D	D	D	69.5
Nonprofit organization	D	D	5.4	3.0
Other or unknown <sup>f</sup>	1.6	1.8	3.1	0.5
Primary activity <sup>g</sup>				
Research and development	53.5	60.2	32.5	63.5
Teaching	25.1	19.4	48.4	13.2
Management or administration	1.2	D	D	D
Professional services and other	20.2	D	D	D
Secondary activity <sup>g</sup>				
Research and development	29.1	24.3	38.1	25.9
Teaching	6.6	4.9	D	D
Management or administration	8.7	9.7	D	D
Professional services and other	18.1	20.4	9.5	22.3
No secondary activity	37.6	40.8	38.9	35.0
Activity unknown	3.6	5.5	3.1	3.0
Postgraduation location (%) <sup>h</sup>				
United States <sup>i</sup>	80.3	87.8	68.1	90.2
Midwest	14.5	11.8	14.4	16.7
Northeast	22.5	25.3	22.8	20.0
South	19.5	23.5	15.7	21.3
West	23.5	26.2	15.2	31.8
Outside the United States	19.6	12.2	31.7	9.8
Location unknown	0.1	0.0	0.3	0.0
Postgraduation location in same state as doctorate institution (%)	23.7	28.5	16.0	29.8
Female doctorate recipients reporting postgraduation status (number)	493	137	163	193
Definite postdoctoral training plans	27.0	32.1	36.2	15.5
Definite employment plans	48.3	34.3	41.1	64.2
Seeking employment or study	22.3	29.9	20.9	18.1
Other status <sup>a</sup>	2.4	3.6	1.8	2.1
Definite postdoctoral training plans (%) <sup>b</sup>				
Postdoc fellowship or research associateship	97.0	100.0	96.6	93.3
Other training or unknown <sup>c</sup>	3.0	0.0	3.4	6.7
Definite employment plans (%) <sup>d</sup>				
Academe	37.0	27.7	55.2	30.6
In tenure track faculty position (%)	48.9	38.5	43.2	57.9
Not in tenure track position (%)	46.6	46.2	54.1	39.5
Government	4.2	D	D	D
Industry or business <sup>e</sup>	D	D	D	62.9
Nonprofit organization	D	D	0.0	D
Other or unknown <sup>f</sup>	2.5	0.0	6.0	1.6
Primary activity <sup>g</sup>				

**Table 9-9****Mathematics and statistics research doctorate recipients, postgraduation plans by sex and major field of doctorate: 2021**

(Number and percent)

Characteristic	All mathematics and statistics fields	Applied mathematics	Mathematics	Statistics
Research and development	47.0	43.5	27.3	59.3
Teaching	30.0	17.4	59.1	18.6
Management or administration	0.0	0.0	0.0	0.0
Professional services and other	23.0	39.1	13.6	22.0
Secondary activity <sup>g</sup>				
Research and development	27.4	23.9	33.3	25.4
Teaching	7.0	D	0.0	D
Management or administration	6.1	D	9.1	D
Professional services and other	15.2	10.9	12.1	18.6
No secondary activity	44.3	56.5	45.5	39.0
Activity unknown	3.4	2.1	1.5	4.8
Postgraduation location (%) <sup>h</sup>				
United States <sup>i</sup>	86.3	89.0	80.2	89.6
Midwest	17.3	14.3	20.6	16.2
Northeast	20.2	17.6	22.2	20.1
South	21.0	23.1	18.3	22.1
West	27.5	34.1	19.0	30.5
Outside the United States	13.7	11.0	19.8	10.4
Location unknown	0.0	0.0	0.0	0.0
Postgraduation location in same state as doctorate institution (%)	24.5	31.9	19.8	24.0

D = suppressed to avoid disclosure of confidential information.

<sup>a</sup> 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.<sup>b</sup> Excludes doctorate recipients reporting plans for other full-time degree program. Percentages based on number of doctorate recipients reporting definite postdoctoral plans for study.<sup>c</sup> Other includes doctorate recipients who reported definite postdoctoral plans for traineeship, internship or clinical residency, or other study.<sup>d</sup> Percentages based on number of doctorate recipients reporting definite postgraduation plans for employment.<sup>e</sup> Includes doctorate recipients reporting self-employment.<sup>f</sup> Other is mainly composed of elementary and secondary schools.<sup>g</sup> Percentages based on number of doctorate recipients reporting definite postgraduation plans for employment and primary or secondary work activity.<sup>h</sup> Percentages based on number of doctorate recipients reporting definite postgraduation plans and type of plans.<sup>i</sup> Includes cases 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):**

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 the new broad, major, and detailed fields were used in tables reporting only the most recent data year. Therefore, the field of doctorate data in 2021 may not be comparable to prior years; see the "Technical Notes" for more information, table A-4 for a summary of SED-CIP codes in the new SED field taxonomy, table A-5 for a full list of SED-CIP codes in the new field taxonomy, and table A-6 for the SED-CIP code crosswalk to the historical field taxonomy.

**Source(s):**

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