

TABLE 61

Statistical profile of postgraduation plans of doctorate recipients in mathematics and computer sciences fields, by sex and field of study: 2018

(Number and percent)

Characteristic	All mathematics and computer sciences fields	Computer and information sciences	Mathematics and statistics
All doctorate recipients (number) ^a	4,030	2,004	2,026
Postgraduation status (number) ^b			
Definite postgraduation study	888	261	627
Definite employment	1,887	1,109	778
Seeking employment or study	864	421	443
Other ^c	59	25	34
Definite postgraduation study (%) ^d			
Postdoc fellowship or research associateship	96.2	93.9	97.1
Other or unknown ^e	3.8	6.1	2.9
Definite employment (%) ^f			
Academe	32.6	27.5	39.8
Government	4.3	4.0	4.9
Industry or business ^g	59.0	64.8	50.8
Nonprofit organization	2.4	2.3	2.4
Other or unknown ^h	1.6	1.4	2.1
Primary activity ⁱ			
R&D	65.1	74.6	51.7
Teaching	22.8	15.3	33.4
Management or administration	2.4	2.5	2.4
Professional services	9.5	7.5	12.3
Other	0.2	0.2	0.3
Secondary activity ^j			
R&D	20.5	15.7	27.2
Teaching	9.8	10.7	8.5
Management or administration	6.9	7.8	5.6
Professional services	5.3	3.7	7.5
Other	0.3	0.2	0.4
No secondary activity	57.4	62.0	50.9
Activity unknown	4.1	4.6	3.5
Postgraduation location (%) ^k			
United States ^l	88.0	90.7	85.4
New England	7.7	6.5	8.9
Middle Atlantic	14.1	12.1	16.0
East North Central	10.8	8.5	13.0
West North Central	3.1	1.9	4.3
South Atlantic	11.9	11.7	12.1
East South Central	1.9	1.9	1.9
West South Central	5.2	3.6	6.8
Mountain	3.6	2.7	4.5
Pacific and insular	29.1	41.2	17.4
Not in United States	12.0	9.3	14.6
Location unknown	0.0	0.0	0.0
Male doctorate recipients (number)	3,043	1,568	1,475
Postgraduation status (number) ^b			
Definite postgraduation study	674	194	480
Definite employment	1,423	881	542

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Seeking employment or study	661	333	328
Other ^c	43	19	24
Definite postgraduation study (%) ^d			
Postdoc fellowship or research associateship	96.6	93.3	97.9
Other or unknown ^e	3.4	6.7	2.1
Definite employment (%) ^f			
Academe	30.5	25.9	38.0
Government	4.4	4.1	5.0
Industry or business ^g	61.3	66.6	52.8
Nonprofit organization	2.3	2.4	2.2
Other or unknown ^h	1.4	1.0	2.0
Primary activity ⁱ			
R&D	67.3	76.6	52.2
Teaching	21.1	14.1	32.4
Management or administration	2.4	D	D
Professional services	9.0	D	D
Other	0.2	0.1	0.4
Secondary activity ^j			
R&D	18.8	14.4	25.9
Teaching	9.8	10.9	8.2
Management or administration	7.2	7.8	6.3
Professional services	5.3	3.7	7.8
Other	0.3	0.2	0.4
No secondary activity	58.6	63.0	51.4
Activity unknown	3.7	4.0	3.1
Postgraduation location (%) ^k			
United States ^l	88.0	90.7	85.1
New England	8.0	6.9	9.2
Middle Atlantic	14.6	12.8	16.4
East North Central	9.9	D	D
West North Central	3.1	D	D
South Atlantic	11.3	11.0	11.6
East South Central	1.9	1.7	2.1
West South Central	5.2	3.6	6.8
Mountain	3.4	2.5	4.4
Pacific and insular	30.0	41.9	17.5
Not in United States	12.0	9.3	14.9
Location unknown	0.0	0.0	0.0
Female doctorate recipients (number)	983	435	548
Postgraduation status (number) ^b			
Definite postgraduation study	214	67	147
Definite employment	464	228	236
Seeking employment or study	203	88	115
Other ^c	16	6	10
Definite postgraduation study (%) ^d			

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(Number and percent)

Characteristic	All mathematics and computer sciences fields	Computer and information sciences	Mathematics and statistics
Postdoc fellowship or research associateship	94.9	95.5	94.6
Other or unknown ^e	5.1	4.5	5.4
Definite employment (%) ^f			
Academe	39.0	33.8	44.1
Government	4.1	3.5	4.7
Industry or business ^g	51.9	57.9	46.2
Nonprofit organization	2.6	2.2	3.0
Other or unknown ^h	2.4	2.6	2.1
Primary activity ⁱ			
R&D	58.2	66.5	50.4
Teaching	28.3	20.3	35.8
Management or administration	2.5	D	D
Professional services	10.7	D	D
Other	0.2	0.5	0.0
Secondary activity ^j			
R&D	25.6	20.8	30.1
Teaching	9.6	9.9	9.3
Management or administration	5.7	7.5	4.0
Professional services	5.3	3.8	6.6
Other	0.2	0.0	0.4
No secondary activity	53.7	58.0	49.6
Activity unknown	5.6	7.0	4.2
Postgraduation location (%) ^k			
United States ^l	88.2	90.8	86.2
New England	6.8	5.1	8.1
Middle Atlantic	12.5	9.5	14.9
East North Central	13.4	D	D
West North Central	2.9	D	D
South Atlantic	13.7	14.2	13.3
East South Central	2.1	2.7	1.6
West South Central	5.3	3.7	6.5
Mountain	4.1	3.4	4.7
Pacific and insular	26.4	38.6	17.0
Not in United States	11.8	9.2	13.8
Location unknown	0.0	0.0	0.0

D = suppressed to avoid disclosure of confidential information.

^a Includes respondents who did not report sex.^b Includes only respondents who reported postgraduation status.^c Includes respondents who indicated that they did not plan to work or study, respondents who indicated some other type of postgraduation plans, and respondents who indicated definite plans for other full-time degree program.^d Excludes respondents who indicated plans for other full-time degree program. Percentages based on the number of doctorate recipients reporting definite postgraduation plans for study.^e "Other" includes respondents who indicated definite postgraduation study plans for traineeship, internship or clinical residency, or other study.^f Percentages based on number of doctorate recipients reporting definite postgraduation plans for employment.^g Includes doctorate recipients who indicated self-employment.^h "Other" is mainly composed of elementary and secondary schools.

ⁱ Percentages based on number of doctorate recipients reporting definite postgraduation plans for employment and primary work activity.

^j Percentages based on number of doctorate recipients reporting definite postgraduation plans for employment and secondary work activity.

^k Percentages based on number of doctorate recipients reporting definite postgraduation plans and type of plans.

^l Includes cases with an unknown U.S region of employment after doctorate; see technical notes for states or territories included in regions.

Note(s)

Due to rounding, percentages may not sum to 100. See table A-6 in the technical notes for a listing of major fields and their constituent subfields.

Source(s)

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