

Table 61

Statistical profile of postgraduation plans of doctorate recipients in mathematics and computer sciences fields, by sex and field of study: 2019

(Number and percent)

Characteristic	All mathematics and computer sciences fields	Computer and information sciences	Mathematics and statistics
All doctorate recipients (number) ^a	4,240	2,228	2,012
Postgraduation status (number) ^b			
Definite postgraduation study	912	311	601
Definite employment	2,061	1,267	794
Seeking employment or study	861	434	427
Other ^c	64	34	30
Definite postgraduation study (%) ^d			
Postdoc fellowship or research associateship	95.9	93.9	97.0
Other or unknown ^e	4.1	6.1	3.0
Definite employment (%) ^f			
Academe	30.3	26.0	37.2
Government	4.8	4.7	4.9
Industry or business ^g	60.5	65.1	53.1
Nonprofit organization	2.4	2.4	2.3
Other or unknown ^h	2.0	1.7	2.5
Primary activity ⁱ			
R&D	68.4	76.6	55.4
Teaching	21.1	15.1	30.7
Management or administration	1.8	2.1	1.3
Professional services	7.9	5.6	11.5
Other	0.9	0.7	1.2
Secondary activity ^j			
R&D	18.3	14.8	23.9
Teaching	9.6	10.8	7.7
Management or administration	6.1	6.9	4.8
Professional services	4.5	3.9	5.6
Other	0.6	0.7	0.5
No secondary activity	60.8	62.9	57.4
Activity unknown	4.0	4.3	3.5
Postgraduation location (%) ^k			
United States ^l	87.6	89.6	85.2
New England	7.5	6.8	8.3
Middle Atlantic	13.8	12.5	15.3
East North Central	8.6	6.5	11.0
West North Central	2.8	1.8	3.8
South Atlantic	11.7	9.9	13.8
East South Central	1.8	1.3	2.4
West South Central	4.8	4.4	5.3
Mountain	4.1	2.9	5.4
Pacific and insular	31.8	42.5	19.8
Not in United States	12.3	10.2	14.7
Location unknown	0.1	0.2	0.1
Male doctorate recipients (number)	3,144	1,717	1,427
Postgraduation status (number) ^b			
Definite postgraduation study	678	244	434
Definite employment	1,538	997	541

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Seeking employment or study	629	310	319
Other ^c	52	29	23
Definite postgraduation study (%) ^d			
Postdoc fellowship or research associateship	96.0	93.4	97.5
Other or unknown ^e	4.0	6.6	2.5
Definite employment (%) ^f			
Academe	27.0	22.7	34.9
Government	4.6	D	D
Industry or business ^g	64.6	69.4	55.6
Nonprofit organization	2.2	D	D
Other or unknown ^h	1.6	1.5	1.8
Primary activity ⁱ			
R&D	72.1	79.8	58.1
Teaching	17.3	11.8	27.3
Management or administration	1.9	1.9	1.9
Professional services	7.9	5.9	11.7
Other	0.7	0.6	1.0
Secondary activity ^j			
R&D	15.5	12.1	21.6
Teaching	9.5	10.4	8.0
Management or administration	5.5	D	D
Professional services	5.2	D	D
Other	0.6	0.8	0.2
No secondary activity	63.7	66.6	58.3
Activity unknown	3.9	4.2	3.3
Postgraduation location (%) ^k			
United States ^l	87.3	89.9	83.9
New England	7.2	6.8	7.7
Middle Atlantic	13.5	11.6	16.0
East North Central	8.3	6.6	10.4
West North Central	2.3	1.5	3.4
South Atlantic	11.4	10.2	12.9
East South Central	1.5	1.1	1.9
West South Central	4.8	3.9	5.8
Mountain	4.1	3.1	5.3
Pacific and insular	33.8	44.3	20.3
Not in United States	12.5	9.8	16.0
Location unknown	0.2	0.2	0.1
Female doctorate recipients (number)	1,095	510	585
Postgraduation status (number) ^b			
Definite postgraduation study	234	67	167
Definite employment	523	270	253
Seeking employment or study	232	124	108
Other ^c	12	5	7
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	95.7	95.5	95.8
Other or unknown ^e	4.3	4.5	4.2
Definite employment (%) ^f			
Academe	40.2	38.5	41.9
Government	5.4	D	D
Industry or business ^g	48.6	49.3	47.8
Nonprofit organization	2.9	D	D
Other or unknown ^h	3.1	2.2	4.0
Primary activity ⁱ			
R&D	57.3	64.7	49.4
Teaching	32.3	27.1	37.9
Management or administration	1.4	2.7	0.0
Professional services	7.8	4.7	11.1
Other	1.2	0.8	1.6
Secondary activity ^j			
R&D	26.7	24.8	28.8
Teaching	9.8	12.4	7.0
Management or administration	8.0	D	D
Professional services	2.6	D	D
Other	0.6	0.0	1.2
No secondary activity	52.3	49.2	55.6
Activity unknown	4.2	4.4	4.0
Postgraduation location (%) ^k			
United States ^l	88.4	88.4	88.3
New England	8.6	7.1	9.8
Middle Atlantic	14.5	15.7	13.6
East North Central	9.6	6.2	12.4
West North Central	4.0	3.0	4.8
South Atlantic	12.8	9.2	15.7
East South Central	2.9	2.1	3.6
West South Central	4.9	5.9	4.0
Mountain	4.2	2.4	5.7
Pacific and insular	26.2	35.6	18.6
Not in United States	11.6	11.6	11.7
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.