



TABLE 3-8

## Interaction between supervisors and early career doctorates, by position type, employment setting, and doctoral degree characteristics: 2017

(Percent distribution)

Selected characteristic	Number of early career doctorates	Provided appropriate recognition for work			Encouraged collaboration with others			Encouraged increasing independence in research or work			Provided opportunities to work on grant proposals			Supported publishing papers or presenting work			Provided career guidance			Encouraged work-life balance		
		Disagree	Neither agree nor disagree	Agree	Disagree	Neither agree nor disagree	Agree	Disagree	Neither agree nor disagree	Agree	Disagree	Neither agree nor disagree	Agree	Disagree	Neither agree nor disagree	Agree	Disagree	Neither agree nor disagree	Agree	Disagree	Neither agree nor disagree	Agree
U.S. degree	134,000	15.4	9.3	75.3	14.2	20.4	65.4	13.0	22.7	64.3	22.0	28.3	49.7	9.9	12.1	78.0	21.2	20.9	57.9	17.9	23.5	58.6
Non-U.S. degree	21,800	13.0	6.2	80.8	12.8	11.1	76.1	10.7	13.1	76.2	18.6	18.1	63.3	7.6	7.2	85.1	17.2	17.3	65.5	18.2	20.1	61.7
Field of doctoral degree																						
Science and engineering	91,500	14.0	7.7	78.3	11.6	15.3	73.2	10.7	18.2	71.2	18.5	22.2	59.4	8.5	8.8	82.7	18.6	17.6	63.7	16.8	23.2	60.0
Biological, agricultural, and environmental life sciences	25,900	13.5	6.7	79.8	11.7	12.9	75.4	8.8	13.8	77.5	15.6	20.2	64.2	6.8	7.3	85.9	19.8	19.0	61.2	17.6	22.1	60.3
Agricultural and environmental life sciences	3,500	13.1	2.7	84.2	10.2	10.1	79.7	13.2	12.2	74.6	15.5	16.8	67.7	6.0	9.3	84.7	18.9	19.2	61.9	15.9	21.1	63.0
Biological and biomedical sciences	22,300	13.6	7.3	79.1	11.9	13.4	74.8	8.1	14.0	77.9	15.6	20.7	63.6	6.9	7.0	86.1	20.0	18.9	61.1	17.8	22.3	59.9
Engineering	14,500	13.7	8.1	78.1	11.0	12.6	76.4	11.4	16.8	71.8	19.8	17.4	62.8	7.9	11.8	80.3	16.0	17.3	66.7	13.5	25.4	61.0
Mathematics and computer sciences	9,000	10.7	5.4	83.9	9.3	12.7	78.1	8.6	18.2	73.2	15.4	22.0	62.6	9.0	10.2	80.7	13.5	20.0	66.4	12.4	25.1	62.5
Computer and information sciences	4,500	13.3	4.3	82.4	12.4	9.7	78.0	11.4	15.7	72.9	18.2	17.9	63.9	13.2	8.1	78.6	17.5	20.4	62.1	14.2	23.5	62.3
Mathematics and statistics	4,400	8.0	6.5	85.4	6.1	15.8	78.2	5.8	20.8	73.4	12.5	26.3	61.2	S	12.4	82.9	9.5	19.6	70.9	10.6	26.8	62.6
Multidisciplinary fields and science and engineering related fields	2,000	8.8	8.7	82.6	14.8	9.8	75.4	11.6	16.3	72.2	16.0	14.1	69.9	7.8	3.8	88.4	17.8	10.3	71.9	14.9	21.4	63.7
Physical sciences, geosciences, atmospheric sciences, and ocean sciences	17,300	13.8	6.1	80.1	10.2	11.4	78.4	11.5	13.9	74.6	16.8	21.9	61.4	7.2	6.8	86.0	17.2	13.0	69.8	18.9	20.4	60.7
Psychology and social sciences	23,000	16.6	10.4	73.0	13.5	24.0	62.5	12.4	27.4	60.2	23.5	28.5	48.0	11.8	9.8	78.4	22.1	19.6	58.4	18.4	24.5	57.1
Psychology	6,300	14.4	10.4	75.3	14.8	20.0	65.2	12.7	21.4	65.9	27.8	24.5	47.7	13.5	13.8	72.8	23.2	16.6	60.3	21.4	19.6	59.0
Social sciences	16,700	17.4	10.5	72.1	13.0	25.5	61.5	12.3	29.7	58.0	21.9	30.0	48.1	11.2	8.3	80.5	21.6	20.7	57.7	17.3	26.3	56.4
Health	12,500	14.2	11.9	73.9	14.9	19.5	65.6	11.7	21.8	66.5	25.2	26.0	48.8	10.4	10.3	79.3	24.3	15.6	60.1	18.0	19.8	62.2
Non-science and engineering	51,900	17.2	10.2	72.5	18.0	25.8	56.3	16.5	26.8	56.7	26.0	35.4	38.5	11.2	16.5	72.3	23.4	26.3	50.3	19.9	23.6	56.5

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Education	19,600	17.4	10.1	72.5	16.6	24.5	58.8	16.4	28.5	55.1	30.1	31.0	38.9	13.1	21.2	65.7	24.5	28.7	46.8	19.0	21.9	59.1
Humanities	12,400	16.1	9.9	74.0	17.6	32.3	50.2	12.4	28.3	59.3	23.5	38.4	38.1	11.6	16.3	72.1	20.6	24.3	55.1	18.4	24.7	57.0
Other non-science and engineering	19,900	17.7	10.7	71.6	19.5	22.9	57.6	19.2	24.1	56.6	23.7	38.0	38.4	9.2	11.9	78.9	24.1	25.1	50.8	21.7	24.5	53.8
Position tenure																						
1 year or less	22,200	11.5	12.5	76.1	13.3	23.5	63.2	13.3	24.1	62.6	21.9	36.5	41.6	11.6	16.1	72.3	18.5	24.7	56.8	15.6	26.1	58.3
More than 1 year but less than 5 years	92,300	15.1	7.7	77.2	13.7	16.3	70.0	12.1	18.7	69.2	21.1	24.0	54.9	9.2	9.6	81.2	20.7	17.4	61.9	18.3	20.7	61.0
5 years or more	41,300	17.0	9.4	73.5	14.9	23.0	62.1	13.6	25.8	60.6	22.3	28.1	49.6	9.4	13.2	77.5	21.7	24.6	53.7	18.4	26.6	55.0

S = suppressed for reliability; coefficient of variation exceeds publication standards.

FFRDC = federally funded research and development center.

<sup>a</sup> Other faculty, no rank or tenure, positions includes all other faculty positions such as instructors, lecturers, and adjuncts. Postdoctoral scholar positions are temporary positions in academe, industry, government, or a nonprofit organization primarily for gaining additional education and training in research. Other positions are diverse but are typically university administrators and staff.

<sup>b</sup> Academic institutions include U.S. academic institutions in the Survey of Graduate Students and Postdoctorates in Science and Engineering that grant master's and doctorate degrees in science, engineering, and health-related fields.

<sup>c</sup> Includes medical and related degrees, such as Medical Doctors (MD), Doctor of Pharmacy (PharmD), and other professional degrees such as Doctor of Education (EdD).

**Note(s):**

Counts are rounded to the nearest 100. Percentages are calculated from unrounded counts and rounded to the nearest 10th of a percent. Details may not add to totals because of rounding. Includes only early career doctorates with a supervisor.

**Source(s):**

National Center for Science and Engineering Statistics, Early Career Doctorates Survey, 2017.