TABLE 7-6

Early career doctorates who indicate that various critical competencies were very or extremely important to their sampled position, by doctoral degree characteristics: 2017

(Percent)

Selected characteristic	Appropriately apply research methodologies	Develop new ideas, processes, or products	Critically analyze and evaluate findings and results	Demonstrate theoretical and practical understanding of your subject area	Work constructively with colleagues	Manage and influence others	Communicate ideas clearly and persuasively in writing	Communicate ideas clearly and persuasively orally	Effectively plan, manage, and deliver projects on time
Number of early career doctorates for whom the item was applicable (denominator)	173,800	179,400	181,400	184,300	182,900	180,300	185,200	185,500	179,800
Percentage of early career doctorates	69.3	70.6	77.1	81.5	66.2	59.9	80.6	80.1	69.5
Doctoral degree type									
Professional degree or doctoral equivalent[a]	54.7	65.7	72.2	82.4	76.5	74.4	80.1	84.0	79.4
Research degree	70.5	71.1	77.5	81.4	65.2	58.6	80.7	79.8	68.6
Years since doctoral degree									
1 year or less	74.6	73.3	80.6	80.7	65.5	57.6	79.2	77.4	69.3
2–5 years	68.5	70.2	76.3	81.2	66.3	59.1	80.5	80.2	69.7
6–10 years	67.4	69.7	76.1	82.2	66.3	62.3	81.6	81.6	69.4
Origin of doctoral degree									
U.S. degree	67.3	69.1	75.8	81.1	66.0	59.9	80.7	80.8	69.3
Non-U.S. degree	81.4	80.5	85.4	83.9	67.5	60.3	80.2	76.0	71.0
Field of doctoral degree									
Science and engineering	74.4	74.5	79.9	81.1	65.8	60.3	79.1	78.0	69.2
Biological, agricultural, and environmental life sciences	78.4	78.5	83.6	81.5	73.4	67.7	82.7	79.1	78.8
Agricultural and environmental life sciences	73.2	76.8	78.2	84.3	80.3	64.9	83.7	77.6	80.1
Biological and biomedical sciences	79.2	78.8	84.5	81.1	72.4	68.2	82.6	79.3	78.6
Engineering	77.4	81.1	83.8	83.8	70.2	68.0	80.9	81.1	71.3
Mathematics and computer sciences	67.0	69.0	70.8	77.5	60.5	48.0	70.0	72.4	54.5
Computer and information sciences	65.8	72.8	71.2	77.2	67.2	56.7	72.8	71.7	61.1
Mathematics and statistics	68.1	65.3	70.4	77.7	54.0	39.4	67.4	73.1	48.1

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Early career doctorates who indicate that various critical competencies were very or extremely important to their sampled position, by doctoral degree characteristics: 2017

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Multidisciplinary fields and science and engineering related fields	70.5	72.1	77.5	84.2	70.7	69.4	79.6	80.6	75.9
Physical sciences, geosciences, atmospheric sciences, and ocean sciences	79.4	79.6	85.6	81.8	65.5	61.8	76.1	75.0	69.7
Psychology and social sciences	68.6	65.7	74.0	79.8	57.9	51.9	80.2	79.3	63.6
Psychology	74.8	65.9	75.6	82.1	63.7	59.2	81.7	74.0	71.1
Social sciences	66.3	65.6	73.5	78.9	55.6	48.9	79.6	81.4	60.7
Health	61.8	62.7	69.9	80.8	76.6	72.9	78.9	77.3	72.8
Non-science and engineering	61.0	65.2	73.4	82.3	64.5	56.4	83.8	84.7	69.4
Education	57.8	67.6	74.5	82.6	75.5	70.7	81.6	83.2	76.1
Humanities	60.6	67.7	77.3	81.3	55.7	48.7	91.1	87.8	62.9
Other non-science and engineering	63.9	61.5	70.1	82.7	60.5	48.6	80.9	84.1	67.5

[a] 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. "Not used in this position" responses are excluded from the denominator for each column variable.

Source(s):
National Center for Science and Engineering Statistics, Early Career Doctorates Survey, 2017.