

Appendix table 5-23

Early career SEH doctorate holders employed in academia with federal support, by degree field, years since doctorate, and type of position: 1973–2010

(Percent)

Field	1–3 years since doctorate				4–7 years since doctorate			
	All positions	Full-time faculty	Other full-time	Postdocs	All positions	Full-time faculty	Other full-time	Postdocs
All fields								
1973	44.1	32.9	72.5	87.1	47.1	42.3	55.3	80.8
1975	44.2	31.1	58.3	87.8	42.5	40.0	66.2	83.2
1977	44.5	28.8	61.2	87.0	42.2	37.8	71.6	85.3
1979	47.2	29.6	58.9	86.6	43.0	37.4	67.3	83.1
1981	51.0	30.8	63.1	87.9	46.5	41.2	64.8	86.9
1983	50.2	33.7	59.0	86.1	50.1	45.3	68.1	84.8
1985	43.2	23.9	59.3	79.1	42.4	36.2	63.3	81.0
1987	53.3	36.7	56.1	82.0	54.8	49.7	71.6	84.2
1989	57.2	38.7	58.7	84.7	57.8	53.5	70.0	89.1
1991	53.6	38.3	56.6	83.8	57.4	53.4	66.6	88.7
1993	43.5	20.8	43.7	80.7	41.1	34.0	46.8	87.3
1995	47.0	23.2	40.1	78.5	43.9	36.1	52.0	86.0
1997	45.2	20.2	39.5	74.8	41.9	33.7	49.6	78.5
1999	52.5	28.1	45.7	79.0	47.4	41.4	46.6	83.3
2001	48.2	29.2	43.2	73.6	46.1	39.8	50.7	78.6
2003	48.2	31.3	43.4	77.7	47.5	42.3	55.3	81.1
2006	49.1	30.1	46.8	68.6	47.2	41.7	46.5	76.0
2008	46.4	26.9	48.3	70.6	43.1	37.9	44.3	75.0
2010	47.6	27.5	41.0	72.3	46.4	41.1	51.9	79.0
Physical sciences								
1973	58.4	31.2	78.3	88.5	44.8	39.5	72.1	98.5
1975	64.1	27.9	60.7	93.2	43.8	36.6	77.3	85.1
1977	63.2	28.9	95.7	88.5	51.6	40.5	77.5	92.4
1979	59.1	25.5	73.7	84.7	52.0	39.0	72.1	91.7
1981	69.3	25.2	94.3	88.1	57.9	49.4	84.5	97.9
1983	70.4	33.8	82.7	88.2	66.2	56.3	85.3	84.8
1985	64.3	18.7	86.6	84.6	50.8	35.7	78.7	91.4
1987	80.9	66.7	69.9	90.2	68.7	56.0	97.1	93.1
1989	77.9	49.2	82.1	88.0	72.4	61.9	89.0	90.6
1991	69.9	44.1	78.8	87.2	67.2	55.1	88.5	100.0
1993	63.1	21.3	64.9	84.5	58.2	43.9	70.0	94.5
1995	62.8	21.0	41.9	84.1	53.9	37.8	60.2	86.7
1997	65.1	37.5	66.7	77.8	53.4	41.2	67.9	96.5
1999	67.5	44.4	60.0	83.3	57.0	46.7	65.5	89.4
2001	64.9	40.0	57.1	80.0	54.1	39.4	73.9	83.7
2003	62.5	40.0	66.7	78.9	54.8	50.6	63.1	70.2

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(Percent)

Field	1–3 years since doctorate				4–7 years since doctorate			
	All positions	Full-time faculty	Other full-time	Postdocs	All positions	Full-time faculty	Other full-time	Postdocs
2006	66.7	40.0	50.0	78.6	57.6	52.8	64.2	72.2
2008	56.8	36.4	62.5	65.2	52.8	48.4	58.3	75.0
2010	59.3	27.3	37.5	76.5	53.3	43.1	66.1	81.7
Mathematics								
1973	17.5	16.3	58.5	38.7	29.0	29.4	15.4	100.0
1975	14.5	13.0	37.6	28.3	18.9	18.5	31.8	57.9
1977	16.2	12.2	45.9	56.4	19.2	17.6	44.0	52.2
1979	24.8	22.5	52.9	42.5	32.3	30.2	64.9	46.9
1981	10.8	9.5	S	44.1	29.7	27.6	62.7	81.5
1983	31.8	29.8	S	73.4	39.8	39.8	51.3	100.0
1985	14.7	14.1	S	34.6	27.0	26.8	S	100.0
1987	15.6	7.4	S	37.6	34.9	35.5	7.3	S
1989	29.1	24.9	S	52.4	39.0	39.1	S	100.0
1991	39.8	35.8	54.9	80.4	28.3	28.6	S	S
1993	15.7	14.8	0.0	100.0	15.2	14.0	100.0	S
1995	17.7	13.4	0.0	40.0	25.6	19.6	S	70.6
1997	12.5	D	D	33.3	15.0	12.5	D	D
1999	33.3	16.7	D	75.0	33.3	31.3	D	D
2001	37.5	12.5	D	50.0	41.2	38.5	50.0	D
2003	33.3	20.0	D	66.7	34.8	36.8	D	D
2006	33.3	25.0	D	62.5	30.4	27.8	D	50.0
2008	26.3	18.2	25.0	50.0	28.6	29.4	100.0	D
2010	35.0	25.0	D	60.0	40.0	45.0	D	D
Computer sciences								
1973	NA	NA	NA	NA	NA	NA	NA	NA
1975	NA	NA	NA	NA	NA	NA	NA	NA
1977	NA	NA	NA	NA	NA	NA	NA	NA
1979	34.8	25.0	S	57.1	S	S	S	S
1981	27.7	24.1	25.0	100.0	52.4	52.4	S	S
1983	45.7	35.1	60.0	100.0	43.5	40.4	92.3	S
1985	54.1	46.4	77.2	S	36.7	31.0	100.0	S
1987	47.2	46.3	42.0	100.0	73.2	66.3	100.0	S
1989	33.0	29.3	50.0	100.0	70.8	78.0	35.7	100.0
1991	23.1	23.1	25.1	S	66.2	63.9	100.0	100.0
1993	44.7	39.5	100.0	100.0	30.7	30.9	27.3	100.0
1995	38.2	31.4	61.1	75.9	38.1	38.3	23.9	S
1997	37.5	40.0	D	100.0	36.4	40.0	D	D
1999	50.0	50.0	D	D	58.3	54.5	D	D

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(Percent)

Field	1–3 years since doctorate				4–7 years since doctorate			
	All positions	Full-time faculty	Other full-time	Postdocs	All positions	Full-time faculty	Other full-time	Postdocs
2001	33.3	25.0	D	D	50.0	57.1	D	D
2003	44.4	28.6	D	S	42.9	40.0	66.7	D
2006	33.3	33.3	D	100.0	42.9	45.5	50.0	D
2008	38.5	33.3	100.0	50.0	50.0	45.5	33.3	D
2010	30.8	12.5	S	66.7	62.5	58.3	66.7	D
Life sciences								
1973	60.8	48.3	77.0	89.0	59.7	57.3	75.1	89.2
1975	61.8	46.4	72.5	87.6	60.1	57.6	76.2	87.5
1977	61.6	38.1	70.4	88.9	59.6	56.6	73.3	90.2
1979	65.9	40.6	75.8	85.9	57.3	51.4	76.5	84.2
1981	71.8	51.7	76.5	88.1	64.0	58.8	70.8	85.7
1983	68.2	52.8	65.1	84.7	67.1	64.5	72.6	83.7
1985	59.6	34.1	67.2	78.9	61.1	55.6	72.3	81.7
1987	70.2	53.5	73.8	82.1	71.4	68.3	81.0	83.0
1989	74.5	50.2	79.3	89.1	71.9	67.5	79.1	89.3
1991	68.1	49.9	60.0	83.0	70.6	66.8	79.2	86.3
1993	61.2	32.2	44.8	81.9	55.7	46.4	52.0	86.7
1995	58.5	30.3	35.3	80.3	54.0	43.9	47.4	87.4
1997	58.3	24.0	42.9	78.5	52.3	42.4	48.4	78.8
1999	64.7	32.0	50.0	81.4	57.2	47.2	49.3	83.0
2001	59.3	35.7	37.5	76.9	56.4	48.9	49.5	78.8
2003	62.7	39.4	45.0	81.7	57.3	50.3	56.9	83.0
2006	55.6	32.3	52.9	67.1	57.5	49.7	49.6	77.0
2008	60.0	33.3	54.5	75.8	54.4	44.2	57.6	82.8
2010	60.6	37.1	48.0	76.6	54.5	45.8	57.8	80.8
Psychology								
1973	34.3	28.5	59.7	95.3	37.8	36.9	52.1	71.4
1975	35.0	25.5	53.7	88.5	35.3	34.9	32.8	71.2
1977	35.3	26.8	71.7	86.0	31.5	27.9	60.5	73.0
1979	35.2	22.5	22.2	95.5	39.3	31.4	76.5	87.6
1981	46.5	33.2	41.6	93.4	34.7	28.6	54.5	88.2
1983	31.2	19.8	34.2	89.3	32.3	28.2	37.1	87.2
1985	30.6	15.6	44.5	70.1	29.2	26.2	38.7	72.5
1987	37.5	28.5	28.8	82.7	33.2	25.6	40.3	97.9
1989	41.7	34.6	36.1	64.9	36.1	36.7	33.1	63.1
1991	35.9	23.9	24.3	100.0	38.8	38.6	24.8	86.9
1993	21.6	12.0	27.5	61.6	23.2	24.6	15.5	48.2
1995	33.5	17.5	40.6	63.5	26.1	21.8	36.0	82.1

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(Percent)

Field	1–3 years since doctorate				4–7 years since doctorate			
	All positions	Full-time faculty	Other full-time	Postdocs	All positions	Full-time faculty	Other full-time	Postdocs
1997	35.3	21.4	25.0	75.0	30.2	22.2	37.5	75.0
1999	32.4	20.0	25.0	62.5	35.4	35.7	27.3	100.0
2001	35.1	22.2	33.3	66.7	34.7	31.0	54.5	S
2003	30.8	26.7	36.4	57.1	37.0	34.3	41.7	100.0
2006	45.2	37.5	33.3	64.3	35.5	36.1	23.1	66.7
2008	35.0	29.4	27.3	62.5	26.8	27.3	20.0	50.0
2010	37.8	35.3	22.2	85.7	33.3	33.3	28.6	66.7
Social sciences								
1973	24.7	23.7	53.7	23.9	29.0	28.7	34.1	93.1
1975	23.1	22.5	29.0	61.7	26.2	26.2	42.4	39.2
1977	24.8	24.2	12.3	61.4	24.6	23.2	56.3	48.0
1979	26.6	22.8	37.6	97.5	20.8	19.2	52.2	70.8
1981	20.4	16.3	48.7	56.0	24.3	24.3	25.2	60.0
1983	28.2	23.6	49.0	77.9	28.1	23.6	57.5	93.8
1985	15.6	12.3	27.8	44.4	19.3	15.7	51.0	41.0
1987	22.5	20.9	34.5	21.4	29.9	27.7	54.0	S
1989	25.6	24.7	24.3	41.9	33.2	31.6	51.4	83.9
1991	21.7	19.5	38.8	31.7	36.6	33.8	44.2	100.0
1993	11.2	7.2	25.4	88.2	14.9	14.4	21.9	100.0
1995	15.9	10.7	28.8	80.8	17.8	16.0	41.8	49.8
1997	14.0	12.1	28.6	25.0	16.9	15.2	28.6	D
1999	22.0	15.4	25.0	66.7	22.4	22.6	25.0	D
2001	19.6	19.4	20.0	33.3	21.1	20.4	27.3	D
2003	18.9	15.8	28.6	33.3	22.2	23.6	22.2	D
2006	18.9	15.6	28.6	33.3	21.6	22.8	20.0	D
2008	17.3	13.2	28.6	50.0	20.0	20.3	21.4	S
2010	15.3	12.8	14.3	33.3	18.8	18.3	25.0	D
Engineering								
1973	50.8	45.2	74.2	87.1	50.7	49.9	78.6	S
1975	53.7	48.9	65.8	83.8	54.4	53.1	82.3	S
1977	55.2	47.2	84.8	72.9	52.9	52.3	64.8	64.9
1979	55.5	48.5	71.9	99.4	55.1	58.8	33.8	16.9
1981	54.4	43.2	100.0	100.0	65.6	61.9	83.9	S
1983	47.1	36.7	58.2	98.3	64.3	62.2	99.0	S
1985	43.9	37.8	66.1	94.5	47.6	46.3	66.4	S
1987	53.3	43.7	79.2	75.7	65.5	64.2	97.6	100.0
1989	56.0	48.9	71.9	73.3	70.8	68.6	91.8	100.0
1991	66.6	62.1	67.7	89.9	73.2	73.0	79.7	S

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(Percent)

Field	1–3 years since doctorate				4–7 years since doctorate			
	All positions	Full-time faculty	Other full-time	Postdocs	All positions	Full-time faculty	Other full-time	Postdocs
1993	43.4	32.1	65.1	68.7	51.2	49.4	65.9	70.3
1995	51.1	38.5	50.3	72.6	62.1	60.3	72.5	86.5
1997	51.6	37.5	60.0	63.6	52.3	48.5	50.0	66.7
1999	59.3	36.4	80.0	77.8	53.8	56.7	50.0	100.0
2001	55.6	50.0	80.0	57.1	57.9	57.1	44.4	S
2003	55.9	47.1	66.7	77.8	63.6	61.3	63.6	100.0
2006	59.6	42.1	50.0	75.0	64.4	62.1	57.1	83.3
2008	56.4	37.5	71.4	71.4	60.8	57.6	66.7	66.7
2010	52.9	41.2	62.5	62.5	64.3	67.6	63.6	80.0

D = suppressed to avoid disclosure of confidential information; NA = not available; S = suppressed for reasons of confidentiality and/or reliability.

SEH = science, engineering, and health.

NOTES: Data for 1985 and 1993–97 are not comparable with other years and understate the degree of federal support. In 1985 and 1993–97, the federal support question asks whether work performed during the week of 15 April was supported by the government; in other years, the question pertains to work conducted over the course of an entire year. Because of larger sample sizes, estimates of federal support are more accurate for life sciences than for other fields, especially mathematics and computer sciences. Academic employment is limited to U.S. doctorate holders employed at 2- or 4-year colleges or universities, medical schools, and university research institutes. Full-time faculty includes full, associate, and assistant professors plus instructors from 1973–95; from 1997–2010, full-time faculty includes full, associate, and assistant professors. Other full-time positions include positions such as research associates, adjunct appointments, lecturers, and administrative positions. Total excludes those employed part time because they are students or retired. Physical sciences include earth, atmospheric, and ocean sciences; life sciences include biological, agricultural, environmental, and health sciences. The 2008 and 2010 figures reflect an integrated sample design that includes all U.S.-trained doctorates living or working in the U.S. on the reference. Previously, the survey excluded from the eligible sample U.S.-trained, non-U.S. citizen doctorates who indicated plans to leave the U.S., even if they were discovered to have been living or working in the U.S. The integrated design corrects for the slight undercoverage that resulted from this previous sampling practice.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations (2013) of the Survey of Doctorate Recipients.

Science and Engineering Indicators 2014