

Table 8-2

Definite postgraduation plans of U.S. citizen and permanent resident S&E doctorate recipients, by selected field, sex, and planned location: 2019

(Percent distribution)

Major field and sex	All definite plans (number)	All definite plans	Plans to stay in the United States					Plans to go abroad	Location unknown
			All U.S. plans	Academic employment	Industry employment	Postdoctoral study	Other ^a		
All doctorate recipients ^b									
S&E	16,967	100.00	96.30	18.34	22.48	42.90	12.59	3.67	*
Science ^c	14,234	100.00	96.18	19.99	18.48	45.55	12.16	3.80	*
Agricultural sciences and natural resources	508	100.00	96.46	22.64	22.83	36.02	14.96	3.35	0.20
Biological and biomedical sciences	3,988	100.00	97.04	9.65	17.03	63.59	6.77	2.96	0.00
Computer and information sciences	580	100.00	96.03	22.93	42.59	17.59	12.93	3.97	0.00
Geosciences, atmospheric sciences, and ocean sciences	544	100.00	92.65	12.32	14.71	47.61	18.01	7.35	0.00
Health sciences ^d	1,263	100.00	98.81	35.95	12.67	29.69	20.51	1.11	0.08
Mathematics and statistics	671	100.00	91.21	26.23	23.85	32.94	8.20	8.79	0.00
Physical sciences and earth sciences	2,511	100.00	94.34	9.16	29.39	47.27	8.52	5.66	0.00
Psychology	2,414	100.00	98.47	15.91	11.68	57.62	13.26	1.53	0.00
Social sciences	2,299	100.00	94.26	42.11	10.79	21.27	20.10	5.70	*
Engineering	2,733	100.00	96.96	9.73	43.32	29.09	14.82	3.00	*
Female									
S&E	8,056	100.00	96.88	21.19	17.02	45.28	13.39	3.10	*
Science ^c	7,376	100.00	96.92	22.03	15.02	46.53	13.34	3.06	*
Agricultural sciences and natural resources	251	100.00	D	25.10	D	36.65	13.55	D	0.00
Biological and biomedical sciences	2,075	100.00	97.06	11.23	16.48	61.98	7.37	2.94	0.00
Computer and information sciences	151	100.00	92.72	32.45	25.17	17.88	17.22	7.28	0.00
Geosciences, atmospheric sciences, and ocean sciences	263	100.00	94.68	13.31	13.69	47.15	20.53	5.32	0.00
Health sciences ^d	887	100.00	D	36.75	D	27.28	22.32	D	0.11
Mathematics and statistics	190	100.00	93.68	31.58	20.53	33.68	7.89	6.32	0.00
Physical sciences and earth sciences	879	100.00	95.79	12.51	26.62	46.42	10.24	4.21	0.00
Psychology	1,730	100.00	98.84	14.86	10.87	60.00	13.12	1.16	0.00
Social sciences	1,213	100.00	94.56	43.45	8.57	22.67	19.87	5.44	0.00
Engineering	680	100.00	96.47	12.06	38.68	31.76	13.97	3.53	0.00
Male									
S&E	8,911	100.00	95.78	15.76	27.42	40.75	11.86	4.19	*
Science ^c	6,858	100.00	95.38	17.79	22.19	44.50	10.89	4.59	*
Agricultural sciences and natural resources	257	100.00	D	20.23	D	35.41	16.34	D	0.39
Biological and biomedical sciences	1,913	100.00	97.02	7.95	17.62	65.34	6.12	2.98	0.00
Computer and information sciences	429	100.00	97.20	19.58	48.72	17.48	11.42	2.80	0.00

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(Percent distribution)

Major field and sex	All definite plans (number)	All definite plans	Plans to stay in the United States					Plans to go abroad	Location unknown
			All U.S. plans	Academic employment	Industry employment	Postdoctoral study	Other ^a		
Geosciences, atmospheric sciences, and ocean sciences	281	100.00	90.75	11.39	15.66	48.04	15.66	9.25	0.00
Health sciences ^d	376	100.00	D	34.04	D	35.37	16.22	D	0.00
Mathematics and statistics	481	100.00	90.23	24.12	25.16	32.64	8.32	9.77	0.00
Physical sciences and earth sciences	1,632	100.00	93.57	7.35	30.88	47.73	7.60	6.43	0.00
Psychology	684	100.00	97.51	18.57	13.74	51.61	13.60	2.49	0.00
Social sciences	1,086	100.00	93.92	40.61	13.26	19.71	20.35	5.99	0.09
Engineering	2,053	100.00	97.13	8.96	44.86	28.20	15.10	2.83	*

* = value < 0.05%; D = suppressed to avoid disclosure of confidential information.

S&E = science and engineering.

^a Includes elementary and secondary schools, government, nonprofit organizations, other, and unknown.^b Total may include doctorate recipients who did not report sex. As a result, detail may not sum to total.^c The fields presented under science contain both broad and selected subordinate fields of study. As a result, detail does not sum to the total.^d In previous years, health sciences was classified as non-S&E.**Note(s):**

Includes all U.S. citizen and permanent resident S&E doctorate recipients; temporary visa holders are excluded. American Indian or Alaska Native doctorate recipients with unknown or refused citizenship status are counted as U.S. citizens and thus are included. Data in this table refer to research doctorates only and differ from doctoral degree data in this report that are based on the Integrated Postsecondary Education Data System Completions Survey. The greatest differences are in psychology, education, and medical or other health sciences, which are fields with many professional doctorates. American Indian or Alaska Native doctorate recipients with unknown or refused citizenship status are counted as U.S. citizens and thus are included. Definite postgraduate plans are defined as *Returning to, or continuing in, predoctoral employment* or *Have signed contract or made definite commitment for a "postdoc" or other work* by doctoral degree recipients who responded to the question, *What is the status of your postgraduate plans (in the next year)?* In 2019, 66.0% of U.S. citizen and permanent resident S&E doctorate recipients had definite plans.

Source(s):

National Center for Science and Engineering Statistics, special tabulations (2020) of the 2019 Survey of Earned Doctorates.