

Table 7-23

Primary source of support for U.S. citizen and permanent resident S&E doctorate recipients, by ethnicity, race, sex, and broad field: 2015–19

(Percent distribution)

Primary source of support, ethnicity, race, and sex	All S&E	Science ^a										Engineering
		All science	Agricultural sciences and natural resources	Biological and biomedical sciences	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Health sciences ^b	Mathematics and statistics	Physical sciences and earth sciences	Psychology	Social sciences	
All recipients (number) ^c	126,169	104,993	3,982	31,163	3,900	3,866	8,911	4,762	18,536	16,478	17,261	21,176
All sources	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Personal or family funds	13.80	15.26	10.10	7.14	13.77	5.74	33.73	5.59	3.88	31.17	21.63	6.52
Teaching assistantship	16.90	18.97	11.45	11.42	10.28	16.30	10.20	54.37	21.02	19.33	28.50	6.66
Research assistantship, traineeship, or internship	29.64	26.96	42.37	30.32	40.05	39.45	18.03	13.25	44.18	19.10	11.76	42.95
Fellowship, scholarship, or grant ^d	28.96	28.72	23.68	43.42	20.67	31.40	21.75	17.60	23.80	17.14	28.15	30.18
Other ^e	10.70	10.09	12.41	7.70	15.23	7.11	16.28	9.20	7.11	13.26	9.95	13.69
Hispanic or Latino ^f (number)	9,139	7,707	249	2,510	192	241	563	255	1,071	1,484	1,383	1,432
All sources	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Personal or family funds	15.09	16.58	9.64	7.17	14.58	6.64	35.17	5.49	4.30	33.56	20.97	7.05
Teaching assistantship	14.32	15.80	10.84	8.57	11.46	14.11	10.30	47.06	18.67	13.34	27.33	6.35
Research assistantship, traineeship, or internship	21.18	19.05	28.92	22.35	33.33	31.95	14.56	10.59	31.56	13.75	8.68	32.68
Fellowship, scholarship, or grant ^d	38.25	37.64	34.14	54.06	24.48	41.08	27.18	26.67	37.25	21.56	34.13	41.55
Other ^e	11.15	10.93	16.47	7.85	16.15	6.22	12.79	10.20	8.22	17.79	8.89	12.36
Not Hispanic or Latino												
American Indian or Alaska Native (number)	367	325	14	63	D	D	47	6	D	59	92	42
All sources	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Personal or family funds	21.80	23.08	D	12.70	D	0.00	46.81	0.00	D	28.81	27.17	11.90
Teaching assistantship	12.26	D	D	D	D	D	D	D	20.00	16.95	13.04	D
Research assistantship, traineeship, or internship	11.99	D	D	20.63	0.00	D	D	0.00	17.50	8.47	6.52	D

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		All science	Agricultural sciences and natural resources	Biological and biomedical sciences	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Health sciences ^b	Mathematics and statistics	Physical sciences and earth sciences	Psychology	Social sciences	
Fellowship, scholarship, or grant ^d	35.69	34.77	50.00	46.03	0.00	66.67	14.89	0.00	45.00	25.42	40.22	42.86
Other ^e	18.26	18.15	14.29	D	50.00	0.00	25.53	D	15.00	20.34	13.04	19.05
Asian (number)	13,446	10,033	246	3,800	614	192	838	565	1,656	989	1,325	3,413
All sources	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Personal or family funds	8.56	9.50	4.07	5.79	8.63	6.25	21.84	6.19	2.96	23.76	12.68	5.80
Teaching assistantship	15.78	18.37	9.35	9.18	13.68	14.58	9.79	49.73	23.01	21.33	32.60	8.17
Research assistantship, traineeship, or internship	34.49	29.90	52.03	31.37	45.77	38.02	26.73	15.04	44.63	20.42	11.25	47.96
Fellowship, scholarship, or grant ^d	31.06	32.54	21.14	45.71	18.40	30.21	26.13	18.76	21.26	23.36	34.34	26.69
Other ^e	10.11	9.69	13.41	7.95	13.52	10.94	15.51	10.27	8.15	11.12	9.13	11.37
Black or African American (number)	6,972	6,127	178	1,388	179	63	1,091	136	483	1,226	1,446	845
All sources	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Personal or family funds	29.59	32.27	16.85	10.81	24.58	11.11	51.60	5.88	4.97	47.23	40.04	10.18
Teaching assistantship	11.35	11.83	10.11	6.92	6.15	D	5.68	48.53	26.92	9.38	15.70	7.81
Research assistantship, traineeship, or internship	15.95	14.38	35.96	23.13	20.67	D	9.99	7.35	23.60	10.85	6.43	27.34
Fellowship, scholarship, or grant ^d	30.95	29.79	24.16	50.65	30.73	49.21	20.44	30.15	35.61	18.60	24.90	39.41
Other ^e	12.16	11.73	12.92	8.50	17.88	11.11	12.28	8.09	8.90	13.95	12.93	15.27
White (number)	88,667	74,556	3,081	21,658	2,631	3,153	5,887	3,441	14,292	11,687	11,879	14,111
All sources	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Personal or family funds	13.49	14.78	10.45	7.21	14.67	5.36	32.82	5.61	3.94	30.60	20.93	6.70

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(Percent distribution)

Primary source of support, ethnicity, race, and sex	All S&E	Science ^a										Engineering
		All science	Agricultural sciences and natural resources	Biological and biomedical sciences	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Health sciences ^b	Mathematics and statistics	Physical sciences and earth sciences	Psychology	Social sciences	
Teaching assistantship	18.20	20.41	12.01	12.74	10.03	16.87	11.47	57.72	21.03	21.57	30.61	6.53
Research assistantship, traineeship, or internship	31.75	29.22	44.40	32.05	42.04	41.48	19.13	13.89	46.85	21.31	13.28	45.12
Fellowship, scholarship, or grant ^d	27.90	27.51	23.24	41.73	20.64	30.70	21.44	16.36	22.87	16.14	27.22	29.98
Other ^e	8.65	8.08	9.90	6.26	12.62	5.58	15.15	6.42	5.30	10.39	7.96	11.66
More than one race (number)	3,901	3,307	95	1,043	112	115	226	164	553	531	583	594
All sources	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Personal or family funds	13.20	14.94	8.42	7.09	8.93	9.57	30.53	4.88	4.70	34.46	19.90	3.54
Teaching assistantship	17.20	19.14	10.53	D	13.39	19.13	10.18	D	24.59	18.64	26.93	6.40
Research assistantship, traineeship, or internship	28.10	25.46	42.11	30.11	45.54	33.04	22.57	11.59	38.34	17.51	10.63	42.76
Fellowship, scholarship, or grant ^d	35.63	35.41	33.68	49.47	24.11	31.30	24.78	26.83	28.75	22.41	37.39	36.87
Other ^e	5.87	5.05	5.26	D	8.04	6.96	11.95	D	3.62	6.97	5.15	10.44
Other race or race not reported (number)	1,272	1,032	29	293	D	D	85	67	D	134	221	240
All sources	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Personal or family funds	12.26	13.47	D	6.48	D	13.79	23.53	5.97	D	23.13	22.17	7.08
Teaching assistantship	12.50	D	D	7.17	D	6.90	D	47.76	14.38	13.43	22.62	D
Research assistantship, traineeship, or internship	18.63	D	D	22.18	21.05	D	D	5.97	30.14	5.97	5.88	D

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Primary source of support for U.S. citizen and permanent resident S&E doctorate recipients, by ethnicity, race, sex, and broad field: 2015–19

(Percent distribution)

Primary source of support, ethnicity, race, and sex	All S&E	Science ^a										Engineering
		All science	Agricultural sciences and natural resources	Biological and biomedical sciences	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Health sciences ^b	Mathematics and statistics	Physical sciences and earth sciences	Psychology	Social sciences	
Fellowship, scholarship, or grant ^d	23.19	23.84	13.79	37.20	19.30	34.48	12.94	14.93	17.81	9.70	28.05	20.42
Other ^e	33.41	32.36	37.93	26.96	42.11	20.69	50.59	25.37	33.56	47.76	21.27	37.92
Ethnicity not reported (number)	2,405	1,906	90	408	111	58	174	128	295	368	332	499
All sources	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Personal or family funds	4.07	4.77	3.33	3.19	8.11	5.17	10.92	3.13	1.69	4.62	6.33	1.40
Teaching assistantship	3.78	4.41	1.11	2.45	0.00	5.17	1.72	10.94	5.08	3.53	8.43	1.40
Research assistantship, traineeship, or internship	7.69	6.93	8.89	9.80	9.91	13.79	2.30	6.25	13.22	3.53	2.71	10.62
Fellowship, scholarship, or grant ^d	6.36	6.19	4.44	10.05	9.01	3.45	4.02	4.69	5.76	3.26	6.33	7.01
Other ^e	78.09	77.70	82.22	74.51	72.97	72.41	81.03	75.00	74.24	85.05	76.20	79.56
Female (number)	60,005	54,545	1,987	16,694	919	1,796	6,459	1,245	6,387	11,771	9,083	5,460
All sources	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Personal or family funds	17.43	18.67	9.96	7.91	15.67	4.57	36.77	5.78	3.52	32.27	22.57	5.05
Teaching assistantship	16.34	17.30	12.18	11.12	11.86	16.76	8.24	52.61	21.42	17.91	28.24	6.72
Research assistantship, traineeship, or internship	25.44	24.20	40.36	29.94	30.47	36.36	16.07	13.01	39.58	19.64	11.89	37.86
Fellowship, scholarship, or grant ^d	30.66	29.79	26.87	43.83	28.29	36.14	22.51	19.20	29.37	17.14	28.12	39.29
Other ^e	10.13	10.04	10.62	7.19	13.71	6.18	16.41	9.40	6.11	13.05	9.18	11.08
Hispanic or Latino ^f (number)	4,698	4,316	141	1,420	42	124	399	55	428	1,065	766	382
All sources	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Personal or family funds	18.80	19.97	8.51	8.66	D	6.45	38.35	D	4.44	35.02	22.58	5.50
Teaching assistantship	13.75	14.32	13.48	8.59	14.29	11.29	8.77	43.64	17.52	12.49	26.63	7.33

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		All science	Agricultural sciences and natural resources	Biological and biomedical sciences	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Health sciences ^b	Mathematics and statistics	Physical sciences and earth sciences	Psychology	Social sciences	
Research assistantship, traineeship, or internship	18.28	17.63	29.08	22.18	D	32.26	13.53	D	29.91	13.24	8.49	25.65
Fellowship, scholarship, or grant ^d	38.12	36.89	34.75	53.38	33.33	43.55	26.32	21.82	40.42	20.94	33.68	52.09
Other ^e	11.05	11.19	14.18	7.18	14.29	6.45	13.03	16.36	7.71	18.31	8.62	9.42
Not Hispanic or Latino												
American Indian or Alaska Native (number)	199	187	6	42	D	D	33	0	D	41	47	12
All sources	100.00	100.00	100.00	100.00	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00
Personal or family funds	26.13	D	0.00	D	0.00	0.00	51.52	0.00	0.00	D	31.91	D
Teaching assistantship	6.53	6.95	0.00	D	D	0.00	D	0.00	0.00	D	D	0.00
Research assistantship, traineeship, or internship	9.55	D	D	16.67	0.00	D	D	0.00	D	D	D	D
Fellowship, scholarship, or grant ^d	40.70	D	D	50.00	0.00	D	D	0.00	64.71	D	44.68	D
Other ^e	17.09	17.11	D	D	0.00	0.00	27.27	0.00	5.88	24.39	10.64	16.67
Asian (number)	6,733	5,631	154	2,198	175	93	592	230	677	776	829	1,102
All sources	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Personal or family funds	9.94	10.97	D	5.78	7.43	D	22.80	7.39	2.51	D	14.11	4.63
Teaching assistantship	16.07	17.60	D	9.42	17.71	D	9.12	50.00	22.16	D	31.00	8.26
Research assistantship, traineeship, or internship	31.32	28.47	49.35	32.58	44.00	31.18	26.01	16.52	41.95	20.75	11.70	45.92

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Fellowship, scholarship, or grant ^d	33.37	33.58	24.68	44.72	21.14	36.56	27.70	15.22	26.44	22.94	33.41	32.30
Other ^e	9.30	9.38	12.34	7.51	9.71	9.68	14.36	10.87	6.94	11.47	9.77	8.89
Black or African American (number)	4,280	3,991	89	865	69	28	867	51	214	969	867	289
All sources	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Personal or family funds	32.92	34.88	13.48	9.94	D	D	51.33	D	4.21	48.81	39.79	5.88
Teaching assistantship	10.07	10.35	6.74	7.05	D	D	4.61	D	23.36	9.70	D	6.23
Research assistantship, traineeship, or internship	14.39	13.56	35.96	23.35	24.64	D	9.80	D	19.63	10.63	D	25.95
Fellowship, scholarship, or grant ^d	31.33	30.14	32.58	51.33	28.99	64.29	22.15	37.25	43.93	17.44	27.22	47.75
Other ^e	11.29	11.07	11.24	8.32	10.14	10.71	12.11	3.92	8.88	13.42	11.19	14.19
White (number)	40,518	37,180	1,487	11,260	572	1,441	4,236	820	4,696	8,158	5,951	3,338
All sources	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Personal or family funds	17.20	18.27	10.76	8.11	17.83	4.23	36.50	5.73	3.58	31.56	21.56	5.27
Teaching assistantship	17.73	18.75	12.78	12.34	11.01	17.49	9.02	55.12	21.89	19.96	30.87	6.44
Research assistantship, traineeship, or internship	27.35	26.28	41.69	31.63	28.50	38.65	16.67	13.17	42.27	22.25	13.63	39.25
Fellowship, scholarship, or grant ^d	29.61	28.66	26.09	42.14	30.42	35.11	22.17	19.27	28.17	16.28	26.89	40.20
Other ^e	8.11	8.04	8.68	5.77	12.24	4.51	15.65	6.71	4.09	9.95	7.06	8.84
More than one race (number)	2,057	1,886	60	588	23	70	162	54	227	401	371	171

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		All science	Agricultural sciences and natural resources	Biological and biomedical sciences	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Health sciences ^b	Mathematics and statistics	Physical sciences and earth sciences	Psychology	Social sciences		
All sources	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Personal or family funds	17.11	D	D	D	D	D	32.10	D	3.96	36.16	22.37	D	D
Teaching assistantship	17.16	17.97	D	D	D	22.86	10.49	D	24.67	16.46	25.61	8.19	D
Research assistantship, traineeship, or internship	22.95	21.90	40.00	26.87	D	25.71	20.37	14.81	29.52	D	10.78	34.50	D
Fellowship, scholarship, or grant ^d	37.24	D	36.67	50.68	34.78	D	24.07	20.37	38.33	D	35.85	46.78	D
Other ^e	5.54	5.30	D	D	8.70	5.71	12.96	1.85	3.52	6.98	5.39	D	D
Other race or race not reported (number)	514	463	15	125	D	D	56	11	D	100	106	51	D
All sources	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Personal or family funds	16.34	D	D	7.20	0.00	20.00	28.57	0.00	5.26	24.00	25.47	D	D
Teaching assistantship	12.06	13.39	D	7.20	D	10.00	D	27.27	18.42	14.00	21.70	0.00	D
Research assistantship, traineeship, or internship	12.65	D	D	19.20	8.33	D	D	0.00	D	7.00	5.66	D	D
Fellowship, scholarship, or grant ^d	22.57	22.25	D	37.60	16.67	30.00	D	27.27	13.16	9.00	24.53	25.49	D
Other ^e	36.38	35.85	33.33	28.80	66.67	30.00	46.43	45.45	42.11	46.00	22.64	41.18	D
Ethnicity not reported (number)	1,006	891	35	196	25	22	114	24	90	261	146	115	D
All sources	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Personal or family funds	3.98	4.26	0.00	3.06	12.00	0.00	9.65	0.00	1.11	3.83	4.79	1.74	D
Teaching assistantship	3.08	3.37	2.86	2.04	0.00	0.00	0.00	12.50	2.22	2.68	8.90	0.87	D

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Research assistantship, traineeship, or internship	4.77	4.94	17.14	7.65	4.00	13.64	1.75	0.00	10.00	3.45	1.37	3.48
Fellowship, scholarship, or grant ^d	5.67	5.27	5.71	10.71	20.00	0.00	1.75	4.17	4.44	3.45	2.05	8.70
Other ^e	82.50	82.15	74.29	76.53	64.00	86.36	86.84	83.33	82.22	86.59	82.88	85.22
Male (number)	66,161	50,445	1,992	14,469	2,981	2,070	2,452	3,517	12,149	4,707	8,178	15,716
All sources	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Personal or family funds	10.50	11.58	10.24	6.25	13.18	6.76	25.73	5.52	4.07	28.43	20.59	7.02
Teaching assistantship	17.42	20.78	10.74	11.77	9.80	15.89	15.38	54.99	20.82	22.88	28.80	6.64
Research assistantship, traineeship, or internship	33.45	29.94	44.43	30.75	43.01	42.13	23.21	13.34	46.60	17.76	11.62	44.73
Fellowship, scholarship, or grant ^d	27.43	27.55	20.53	42.94	18.32	27.29	19.74	17.03	20.87	17.14	28.19	27.02
Other ^e	11.20	10.15	14.06	8.29	15.70	7.92	15.95	9.13	7.64	13.79	10.81	14.59
Hispanic or Latino ^f (number)	4,440	3,390	107	1,090	150	117	164	200	643	419	617	1,050
All sources	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Personal or family funds	11.17	12.27	11.21	5.23	D	6.84	27.44	D	4.20	29.83	18.96	7.62
Teaching assistantship	14.93	17.70	7.48	8.53	10.67	17.09	14.02	48.00	19.44	15.51	28.20	6.00
Research assistantship, traineeship, or internship	24.26	20.86	28.97	22.57	D	31.62	17.07	D	32.66	15.04	8.91	35.24
Fellowship, scholarship, or grant ^d	38.40	38.61	33.64	54.95	22.00	38.46	29.27	28.00	35.15	23.15	34.68	37.71
Other ^e	11.24	10.56	18.69	8.72	16.67	5.98	12.20	8.50	8.55	16.47	9.24	13.43
Not Hispanic or Latino												
American Indian or Alaska Native (number)	168	138	8	21	D	D	14	6	D	18	45	30

Table 7-23

Primary source of support for U.S. citizen and permanent resident S&E doctorate recipients, by ethnicity, race, sex, and broad field: 2015–19

(Percent distribution)

Primary source of support, ethnicity, race, and sex	All S&E	Science ^a										Engineering	
		All science	Agricultural sciences and natural resources	Biological and biomedical sciences	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Health sciences ^b	Mathematics and statistics	Physical sciences and earth sciences	Psychology	Social sciences		
All sources	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Personal or family funds	16.67	D	D	D	D	0.00	35.71	0.00	D	D	22.22	D	D
Teaching assistantship	19.05	D	D	D	0.00	D	D	D	34.78	D	D	D	D
Research assistantship, traineeship, or internship	14.88	13.04	D	28.57	0.00	0.00	D	0.00	D	D	D	D	23.33
Fellowship, scholarship, or grant ^d	29.76	D	D	38.10	0.00	D	D	0.00	30.43	D	35.56	D	D
Other ^e	19.64	19.57	D	D	66.67	0.00	21.43	D	21.74	11.11	15.56	20.00	20.00
Asian (number)	6,712	4,401	91	1,602	439	99	246	335	979	213	496	2,311	2,311
All sources	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Personal or family funds	7.18	7.61	D	5.81	9.11	D	19.51	5.37	3.27	D	10.28	6.36	6.36
Teaching assistantship	15.49	19.36	D	8.86	12.07	D	11.38	49.55	23.60	D	35.28	8.14	8.14
Research assistantship, traineeship, or internship	37.66	31.74	57.14	29.71	46.47	44.44	28.46	14.03	46.48	19.25	10.48	48.94	48.94
Fellowship, scholarship, or grant ^d	28.74	31.22	15.38	47.07	17.31	24.24	22.36	21.19	17.67	24.88	35.89	24.02	24.02
Other ^e	10.92	10.07	14.29	8.55	15.03	12.12	18.29	9.85	8.99	9.86	8.06	12.55	12.55
Black or African American (number)	2,692	2,136	89	523	110	35	224	85	269	257	579	556	556
All sources	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Personal or family funds	24.29	27.39	20.22	12.24	D	D	52.68	D	5.58	41.25	40.41	12.41	12.41
Teaching assistantship	13.37	14.61	13.48	6.69	D	D	9.82	D	29.74	8.17	D	8.63	8.63

Table 7-23

Primary source of support for U.S. citizen and permanent resident S&E doctorate recipients, by ethnicity, race, sex, and broad field: 2015–19

(Percent distribution)

Primary source of support, ethnicity, race, and sex	All S&E	Science ^a										Engineering
		All science	Agricultural sciences and natural resources	Biological and biomedical sciences	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Health sciences ^b	Mathematics and statistics	Physical sciences and earth sciences	Psychology	Social sciences	
Research assistantship, traineeship, or internship	18.42	15.92	35.96	22.75	18.18	D	10.71	D	26.77	11.67	D	28.06
Fellowship, scholarship, or grant ^d	30.35	29.12	15.73	49.52	31.82	37.14	13.84	25.88	29.00	22.96	21.42	35.07
Other ^e	13.56	12.97	14.61	8.80	22.73	11.43	12.95	10.59	8.92	15.95	15.54	15.83
White (number)	48,149	37,376	1,594	10,398	2,059	1,712	1,651	2,621	9,596	3,529	5,928	10,773
All sources	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Personal or family funds	10.37	11.31	10.16	6.24	13.79	6.31	23.38	5.57	4.12	28.36	20.29	7.14
Teaching assistantship	18.60	22.07	11.29	13.18	9.76	16.36	17.75	58.53	20.61	25.30	30.35	6.56
Research assistantship, traineeship, or internship	35.45	32.14	46.93	32.51	45.80	43.87	25.44	14.12	49.09	19.13	12.94	46.94
Fellowship, scholarship, or grant ^d	26.47	26.37	20.58	41.29	17.92	26.99	19.56	15.45	20.28	15.81	27.56	26.82
Other ^e	9.10	8.11	11.04	6.79	12.72	6.48	13.87	6.33	5.90	11.39	8.86	12.54
More than one race (number)	1,844	1,421	35	455	89	45	64	110	326	130	212	423
All sources	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Personal or family funds	8.84	D	D	D	D	D	26.56	D	5.21	29.23	15.57	D
Teaching assistantship	17.25	20.69	D	D	D	13.33	9.38	50.91	24.54	25.38	29.25	5.67
Research assistantship, traineeship, or internship	33.84	30.19	45.71	34.29	D	44.44	28.13	10.00	44.48	D	10.38	46.10
Fellowship, scholarship, or grant ^d	33.84	D	28.57	47.91	21.35	D	26.56	30.00	22.09	D	40.09	D

Table 7-23

Primary source of support for U.S. citizen and permanent resident S&E doctorate recipients, by ethnicity, race, sex, and broad field: 2015–19

(Percent distribution)

Primary source of support, ethnicity, race, and sex	All S&E	Science ^a										Engineering
		All science	Agricultural sciences and natural resources	Biological and biomedical sciences	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Health sciences ^b	Mathematics and statistics	Physical sciences and earth sciences	Psychology	Social sciences	
Other ^e	6.24	4.71	D	D	7.87	8.89	9.38	D	3.68	6.92	4.72	11.35
Other race or race not reported (number)	758	569	14	168	D	D	29	56	D	34	115	189
All sources	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Personal or family funds	9.50	D	7.14	5.95	D	10.53	13.79	7.14	D	20.59	19.13	D
Teaching assistantship	12.80	D	14.29	7.14	6.67	5.26	D	51.79	12.96	11.76	23.48	D
Research assistantship, traineeship, or internship	22.69	18.98	D	24.40	24.44	D	D	7.14	D	2.94	6.09	33.86
Fellowship, scholarship, or grant ^d	23.61	25.13	D	36.90	20.00	36.84	D	12.50	19.44	11.76	31.30	19.05
Other ^e	31.40	29.53	42.86	25.60	35.56	15.79	58.62	21.43	30.56	52.94	20.00	37.04
Ethnicity not reported (number)	1,398	1,014	54	212	86	36	60	104	205	107	186	384
All sources	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Personal or family funds	4.15	5.23	5.56	3.30	6.98	8.33	13.33	3.85	1.95	6.54	7.53	1.30
Teaching assistantship	4.29	5.33	0.00	2.83	0.00	8.33	5.00	10.58	6.34	5.61	8.06	1.56
Research assistantship, traineeship, or internship	9.80	8.68	3.70	11.79	11.63	13.89	3.33	7.69	14.63	3.74	3.76	12.76
Fellowship, scholarship, or grant ^d	6.87	7.00	3.70	9.43	5.81	5.56	8.33	4.81	6.34	2.80	9.68	6.51
Other ^e	74.89	73.77	87.04	72.64	75.58	63.89	70.00	73.08	70.73	81.31	70.97	77.86

D = suppressed to avoid disclosure of confidential information.

S&E = science and engineering.

^a The fields presented under science contain both broad and selected subordinate fields of study. As a result, detail does not sum to the total.

^b In previous years, health sciences was classified as non-S&E.

^c Total may include doctorate recipients who did not report sex. As a result, detail may not sum to total.

^d In 2017, survey response option was changed from "grant" to "dissertation grant."

^e Includes foreign or unknown source of support and also employer reimbursement or assistance.

^f Hispanic or Latino may be any race; race categories exclude Hispanic origin.

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.

Source(s):

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