



APPENDIX TABLE 2-14

Doctorate recipients' source of primary support, by broad field of study, sex, citizenship, ethnicity, and race: 2013–15

(Percent)

Source of primary support and broad field of study	Total ^a	Temporary visa holder	U.S. citizens and permanent residents											Unknown citizenship
			Total	Male	Female	Hispanic or Latino	Not Hispanic or Latino						Ethnicity not reported	
							American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported		
All fields (number)	161,716	47,671	103,093	50,458	52,635	6,778	352	8,846	6,625	74,990	2,643	800	2,059	10,952
Fellowship or traineeship	19.9	15.4	24.0	23.2	24.6	30.7	29.3	27.1	26.1	23.0	30.9	24.5	7.5	2.2
Grant	5.1	3.6	6.3	6.6	6.0	6.2	4.0	8.9	4.0	6.3	6.8	5.6	2.0	0.3
Teaching assistantship	18.3	21.1	18.8	19.3	18.3	17.4	13.6	16.8	10.6	20.3	17.2	16.8	6.3	1.8
Research assistantship	27.4	46.2	21.3	25.0	17.7	15.2	8.8	28.4	11.9	22.3	21.2	17.5	7.9	2.7
Personal	13.6	2.8	19.8	15.6	23.9	21.0	30.4	11.0	36.6	19.7	18.5	18.0	7.2	1.7
Other	4.1	4.5	4.3	4.7	3.9	3.4	4.8	3.9	5.0	4.5	2.7	4.0	1.5	0.5
Unknown	11.6	6.4	5.5	5.6	5.5	6.2	9.1	4.0	5.8	3.9	2.6	13.6	67.6	90.8
S&E (number)	121,808	41,373	72,565	37,828	34,737	4,636	217	7,171	3,963	52,625	1,943	556	1,454	7,870
Fellowship or traineeship	19.9	13.2	25.7	23.9	27.6	34.4	37.8	26.4	31.3	24.6	32.4	24.1	7.8	2.0
Grant	6.4	4.0	8.4	8.5	8.4	8.4	s	10.6	5.9	8.5	9.0	s	2.7	0.4
Teaching assistantship	16.5	19.8	16.2	16.5	15.9	14.1	12.4	15.1	11.0	17.3	14.3	16.5	5.7	1.6
Research assistantship	33.4	50.6	26.8	31.1	22.1	19.2	11.5	32.1	14.8	28.3	25.8	22.5	9.7	3.4
Personal	9.0	1.9	13.9	10.4	17.6	14.7	19.4	8.4	28.3	13.7	13.6	12.1	4.9	1.2



Source of primary support and broad field of study	Total ^a	Temporary visa holder	U.S. citizens and permanent residents											Unknown citizenship
			Total	Male	Female	Hispanic or Latino	Not Hispanic or Latino						Ethnicity not reported	
							American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported		
Other	3.6	4.2	3.7	4.3	3.1	3.1	s	3.7	3.7	3.9	2.2	s	1.0	0.4
Unknown	11.1	6.3	5.2	5.3	5.2	6.2	9.7	3.7	5.1	3.6	2.6	12.9	68.3	90.9
Agricultural sciences (number)	3,796	1,421	2,142	1,076	1,066	144	10	107	97	1,699	36	14	35	233
Fellowship or traineeship	16.8	15.3	19.4	17.1	21.8	23.6	60.0	16.8	21.6	18.7	27.8	21.4	17.1	1.3
Grant	5.1	2.9	7.0	6.6	7.5	9.7	0.0	5.6	s	7.2	s	0.0	0.0	0.4
Teaching assistantship	9.6	8.7	10.9	7.7	14.2	9.7	0.0	13.1	7.2	11.4	s	s	0.0	3.0
Research assistantship	43.3	58.3	37.7	41.3	34.1	27.8	s	48.6	s	38.8	41.7	28.6	8.6	3.9
Personal	8.2	0.9	13.8	13.9	13.6	13.2	s	10.3	21.6	13.7	s	14.3	8.6	2.1
Other	7.0	9.5	6.1	8.2	4.0	4.9	s	3.7	4.1	6.6	0.0	s	2.9	0.4
Unknown	9.9	4.4	5.0	5.2	4.8	11.1	0.0	1.9	5.2	3.6	0.0	7.1	62.9	88.8
Biological sciences (number)	25,658	6,570	17,554	8,103	9,451	1,264	36	2,063	714	12,600	525	125	227	1,534
Fellowship or traineeship	30.4	21.0	36.3	35.8	36.6	46.5	50.0	35.9	47.8	34.7	43.8	34.4	13.7	3.1
Grant	16.1	9.6	19.8	20.0	19.7	18.2	s	22.0	20.6	19.9	18.5	s	7.9	1.0
Teaching assistantship	11.2	14.3	10.9	10.9	10.9	7.8	s	8.7	7.7	12.0	9.9	s	5.3	0.7
Research assistantship	26.9	44.4	22.6	22.9	22.3	14.8	13.9	24.0	13.6	23.9	22.1	19.2	12.3	2.0
Personal	3.4	0.7	4.6	4.4	4.8	6.6	s	3.8	4.1	4.7	2.7	s	2.6	0.5



Source of primary support and broad field of study	Total ^a	Temporary visa holder	U.S. citizens and permanent residents											Unknown citizenship
			Total	Male	Female	Hispanic or Latino	Not Hispanic or Latino						Ethnicity not reported	
							American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported		
Other	2.4	4.5	1.8	1.6	1.9	1.3	0.0	2.4	1.1	1.8	1.3	2.4	0.0	0.4
Unknown	9.6	5.4	4.0	4.3	3.7	4.8	13.9	3.2	5.2	3.0	1.7	9.6	58.1	92.4
Computer sciences (number)	5,837	3,116	2,338	1,859	479	94	s	368	97	1,629	55	s	65	383
Fellowship or traineeship	12.4	9.1	18.6	16.7	26.3	33.0	0.0	13.3	32.0	18.3	27.3	29.6	6.2	1.0
Grant	3.1	2.6	4.1	4.2	3.5	s	s	2.7	s	4.7	s	0.0	s	1.0
Teaching assistantship	11.6	15.1	8.7	8.2	10.6	s	s	10.9	s	8.9	s	11.1	s	1.0
Research assistantship	50.7	63.0	41.4	44.1	31.3	24.5	0.0	49.5	20.6	43.1	s	s	21.5	7.0
Personal	6.5	1.3	14.3	13.3	18.0	20.2	0.0	13.0	33.0	13.4	14.5	11.1	9.2	1.3
Other	4.7	2.9	7.7	8.1	6.1	7.4	0.0	6.8	4.1	8.3	9.1	7.4	0.0	1.3
Unknown	11.1	6.1	5.2	5.4	4.2	5.3	33.3	3.8	4.1	3.3	5.5	7.4	58.5	87.2
Earth, atmospheric, and ocean sciences (number)	2,838	883	1,825	990	835	97	5	60	34	1,533	47	12	37	130
Fellowship or traineeship	19.7	12.1	24.6	20.5	29.5	36.1	s	18.3	44.1	23.9	27.7	s	10.8	2.3
Grant	8.4	7.5	9.4	9.1	9.7	s	0.0	s	s	10.2	s	0.0	s	0.0
Teaching assistantship	14.2	14.0	15.1	15.1	15.1	s	0.0	13.3	s	15.3	s	0.0	s	3.8
Research assistantship	42.1	54.4	38.7	40.8	36.2	25.8	s	50.0	29.4	40.1	s	50.0	16.2	6.2
Personal	4.1	1.0	5.9	6.9	4.7	7.2	s	s	s	5.6	s	0.0	5.4	0.8



Source of primary support and broad field of study	Total ^a	Temporary visa holder	U.S. citizens and permanent residents											Unknown citizenship
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							American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported		
Other	3.4	5.1	2.7	3.7	1.6	s	0.0	3.3	0.0	2.6	6.4	s	2.7	0.8
Unknown	8.1	5.9	3.7	3.9	3.4	3.1	0.0	1.7	2.9	2.3	8.5	16.7	54.1	86.2
Engineering (number)	28,531	14,844	12,056	9,007	3,049	728	19	1,799	504	8,291	298	102	315	1,631
Fellowship or traineeship	14.9	7.5	25.8	22.4	35.8	35.9	s	21.1	40.5	25.6	33.6	s	5.7	1.7
Grant	5.2	3.6	7.8	7.6	8.4	7.0	s	9.1	4.2	8.0	8.1	s	2.2	0.6
Teaching assistantship	7.6	10.1	5.5	5.7	4.7	5.1	s	6.2	6.2	5.5	4.4	s	1.3	1.0
Research assistantship	52.8	66.3	42.5	44.1	38.0	34.5	47.4	49.6	27.8	43.8	44.6	35.3	10.5	5.3
Personal	3.4	1.6	6.1	6.6	4.6	4.5	s	5.3	9.1	6.5	2.3	s	1.0	0.4
Other	5.1	4.3	6.7	7.7	3.6	7.3	0.0	5.2	6.9	7.2	4.7	9.8	1.3	0.6
Unknown	10.9	6.5	5.6	5.9	4.8	5.8	10.5	3.6	5.4	3.3	2.3	11.8	78.1	90.5
Mathematics (number)	5,511	2,492	2,692	1,947	745	112	s	291	88	2,047	54	s	75	327
Fellowship or traineeship	14.3	11.0	18.8	19.0	18.4	24.1	0.0	19.6	29.5	18.1	40.7	8.7	2.7	1.5
Grant	1.7	1.0	2.4	2.3	2.8	s	0.0	2.4	s	2.6	s	0.0	0.0	0.0
Teaching assistantship	53.8	60.1	53.8	54.5	51.9	47.3	s	49.8	43.2	56.2	s	52.2	26.7	6.4
Research assistantship	14.2	17.8	12.2	12.2	12.2	11.6	0.0	12.4	6.8	12.8	s	s	8.0	2.8
Personal	3.0	0.7	5.5	5.1	6.4	7.1	0.0	5.5	s	5.3	s	8.7	1.3	0.3



Source of primary support and broad field of study	Total ^a	Temporary visa holder	U.S. citizens and permanent residents										Unknown citizenship	
			Total	Male	Female	Hispanic or Latino	Not Hispanic or Latino							Ethnicity not reported
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Other	2.3	2.6	2.2	2.1	2.6	s	0.0	4.5	s	1.9	0.0	0.0	1.3	0.3
Unknown	10.8	6.7	5.1	4.9	5.6	4.5	0.0	5.8	3.4	3.2	0.0	13.0	60.0	88.7
Medical and other health sciences (number)	7,761	1,500	5,666	1,593	4,073	310	27	504	659	3,899	133	38	96	595
Fellowship or traineeship	21.0	18.9	23.5	20.5	24.7	31.3	37.0	29.2	23.1	22.3	29.3	26.3	8.3	1.5
Grant	5.3	3.9	6.3	7.4	5.9	7.4	0.0	8.3	4.6	6.2	9.8	5.3	5.2	0.0
Teaching assistantship	9.4	17.3	8.2	11.9	6.8	7.4	0.0	8.3	4.9	9.2	4.5	7.9	3.1	0.5
Research assistantship	18.4	37.5	15.1	19.8	13.2	14.8	s	20.2	s	15.4	19.5	21.1	12.5	2.0
Personal	24.9	6.5	32.2	25.4	34.9	31.3	29.6	19.6	49.6	31.5	30.1	28.9	15.6	1.8
Other	9.0	9.5	9.7	8.5	10.1	5.8	s	9.7	s	11.1	4.5	5.3	1.0	0.8
Unknown	12.0	6.3	4.9	6.5	4.3	1.9	11.1	4.6	3.8	4.3	2.3	5.3	54.2	93.3
Physical sciences (number)	14,275	5,409	7,949	5,462	2,487	435	18	682	251	6,142	212	62	147	917
Fellowship or traineeship	12.8	7.2	17.9	15.7	22.8	29.7	55.6	15.1	30.7	16.9	21.7	17.7	8.2	1.9
Grant	4.9	3.1	6.8	7.0	6.3	7.1	s	s	4.4	6.7	11.3	3.2	2.7	0.2
Teaching assistantship	21.9	27.9	20.1	19.5	21.4	21.4	s	22.9	27.1	19.9	18.4	s	3.4	2.4
Research assistantship	46.6	54.1	46.4	48.6	41.6	32.2	s	47.5	29.5	49.0	43.4	s	15.6	5.0
Personal	1.8	0.3	3.0	3.1	2.7	2.5	s	s	2.8	3.3	2.4	1.6	0.7	0.1



Source of primary support and broad field of study	Total ^a	Temporary visa holder	U.S. citizens and permanent residents											Unknown citizenship
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Other	1.2	1.3	1.3	1.4	0.9	1.6	5.6	1.8	2.0	1.2	0.5	0.0	0.7	0.0
Unknown	10.7	6.2	4.5	4.6	4.4	5.5	0.0	3.7	3.6	3.1	2.4	14.5	68.7	90.4
Psychology (number)	11,098	791	9,216	2,567	6,649	712	38	508	626	6,772	250	53	257	1,091
Fellowship or traineeship	15.4	20.2	16.7	17.2	16.5	21.5	34.2	23.6	21.2	15.6	18.4	17.0	3.1	0.8
Grant	2.3	1.6	2.5	3.0	2.4	3.7	s	2.6	1.1	2.6	2.4	s	0.0	0.3
Teaching assistantship	18.4	25.8	19.9	23.2	18.6	12.6	s	25.8	12.5	21.6	18.4	s	5.1	1.1
Research assistantship	16.6	23.0	17.9	16.9	18.2	12.4	s	18.3	11.7	19.7	19.6	s	1.2	1.1
Personal	28.2	13.3	32.4	28.3	34.0	36.8	28.9	23.8	44.6	32.5	35.2	17.0	7.0	3.2
Other	1.4	5.2	1.2	1.9	0.9	1.4	0.0	0.0	1.8	1.3	0.4	3.8	0.0	0.2
Unknown	17.7	10.9	9.4	9.5	9.3	11.7	15.8	5.9	7.2	6.7	5.6	37.7	83.7	93.3
Social sciences (number)	16,503	4,347	11,127	5,224	5,903	740	59	789	893	8,013	333	100	200	1,029
Fellowship or traineeship	26.4	29.1	27.4	27.3	27.6	32.2	33.9	34.1	26.8	26.6	32.7	22.0	10.0	3.3
Grant	0.8	0.7	0.9	0.7	1.0	0.8	s	1.5	0.6	0.8	s	2.0	1.0	0.1
Teaching assistantship	28.8	36.4	28.2	29.8	26.9	29.6	22.0	31.9	13.5	30.0	23.7	31.0	11.0	2.7
Research assistantship	13.2	17.9	12.4	12.4	12.4	10.1	s	11.9	8.4	13.4	s	7.0	6.5	2.5
Personal	17.1	4.9	23.2	21.4	24.7	19.1	27.1	15.5	41.1	22.4	28.5	25.0	8.0	2.2



Source of primary support and broad field of study	Total ^a	Temporary visa holder	U.S. citizens and permanent residents											Unknown citizenship
			Total	Male	Female	Hispanic or Latino	Not Hispanic or Latino						Ethnicity not reported	
							American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported		
Other	3.6	4.7	3.4	3.8	3.0	2.4	3.4	1.9	4.6	3.6	1.8	4.0	2.5	0.4
Unknown	10.2	6.3	4.5	4.6	4.4	5.8	6.8	3.2	5.0	3.1	1.5	9.0	61.0	88.7
Non-S&E (number)	39,908	6,298	30,528	12,630	17,898	2,142	135	1,675	2,662	22,365	700	244	605	3,082
Fellowship or traineeship	20.0	29.3	19.8	21.3	18.8	22.6	15.6	30.3	18.3	19.1	26.9	25.4	6.9	2.6
Grant	1.1	1.2	1.2	1.0	1.3	1.3	s	1.4	1.3	1.2	0.7	s	0.5	0.1
Teaching assistantship	23.8	29.2	24.9	27.5	23.1	24.6	15.6	24.0	10.0	27.4	25.3	17.2	7.8	2.4
Research assistantship	9.0	17.5	8.1	6.7	9.1	6.6	4.4	12.8	7.6	8.1	8.3	6.1	3.6	0.8
Personal	27.6	8.8	34.0	31.1	36.1	34.6	48.1	21.9	48.9	33.7	32.0	31.6	12.7	2.9
Other	5.5	6.7	5.8	6.2	5.5	3.9	s	4.7	7.1	6.1	4.0	s	2.6	0.6
Unknown	12.9	7.3	6.2	6.3	6.1	6.3	8.1	5.0	6.8	4.6	2.9	15.2	65.8	90.7

s = suppressed for reasons of confidentiality and/or reliability.

^a Total includes doctorate recipients for whom sex was not reported.

Note(s)

Includes only doctorate recipients who reported a primary source of support. Reporting categories for ethnicity and race were expanded in 2013; comparisons with data before 2013 should be made with caution. Personal support mechanisms include personal savings, other personal earnings, other family earnings or savings, and loans. Research assistantships include research assistantships and other assistantships. Traineeships include internships and residencies. Other support mechanisms include employer reimbursement or assistance, foreign support, and other sources. Percentages may not add to total because of rounding.

Source(s)



National Science Foundation, National Center for Science and Engineering Statistics, special tabulations (2016), 2015 Survey of Earned Doctorates (SED).

Science and Engineering Indicators 2018