

TABLE 62. Statistical profile of doctorate recipients in engineering fields, by sex and field of study: 2013

Characteristic	All engineering fields	Aerospace, aeronautical, and astronautical engineering	Chemical engineering	Civil engineering	Electrical, electronics, and communication engineering	Industrial and manufacturing engineering	Materials science engineering	Mechanical engineering	Other engineering
All doctorate recipients (number) ^a	8,963	349	829	543	1,900	240	815	1,282	3,005
Sex (%)									
Male	77.1	84.2	68.6	77.0	85.1	72.9	73.4	84.6	71.7
Female	22.9	15.8	31.4	23.0	14.8	27.1	26.6	15.4	28.3
Unknown	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
Citizenship (%)									
U.S. citizen or permanent resident	41.7	55.9	43.9	33.5	31.7	32.1	42.9	42.6	47.3
Temporary visa holder	52.8	39.0	49.9	61.5	61.1	64.6	53.3	52.0	47.6
Unknown	5.5	5.2	6.2	5.0	7.2	3.3	3.8	5.4	5.1
Marital status (%)									
Never married	37.0	42.1	41.7	32.8	36.4	36.7	41.1	37.3	35.2
Married	44.4	40.4	39.8	49.5	44.5	50.4	42.9	43.1	45.7
Marriage-like relationship	5.4	D	6.2	D	3.7	4.2	6.0	5.6	6.5
Separated, divorced, widowed	1.9	D	1.4	D	1.4	2.1	1.8	1.9	2.3
Unknown	11.2	10.9	10.9	12.0	14.1	6.7	8.1	12.1	10.3
Bachelor's in same field as doctorate (%) ^b	76.5	82.2	80.3	81.2	79.5	71.7	68.7	82.4	72.1
Master's earned (%)	73.3	84.0	50.2	86.4	78.1	89.6	65.3	78.6	71.8
Age at doctorate (median years)	30.1	29.7	28.9	31.2	30.3	31.2	29.7	30.0	30.2
Time to doctorate (median years)									
From bachelor's	7.3	7.1	6.3	8.1	7.6	8.8	7.0	7.3	7.6
From graduate school start	6.6	6.3	5.7	7.0	6.8	7.7	6.2	6.5	6.7
Male doctorate recipients (number)	6,910	294	569	418	1,617	175	598	1,085	2,154
Citizenship (%)									
U.S. citizen or permanent resident	40.5	55.4	43.9	31.3	31.7	29.7	42.6	41.4	45.7
Temporary visa holder	53.9	40.1	50.6	62.9	61.0	66.3	53.7	53.3	48.9
Unknown	5.6	4.4	5.4	5.7	7.3	4.0	3.7	5.3	5.4
Marital status (%)									
Never married	36.8	41.8	40.9	30.1	36.6	38.9	43.6	36.6	34.6
Married	45.3	41.8	40.9	51.7	44.9	50.3	41.1	43.7	47.4
Marriage-like relationship	4.8	D	6.3	3.6	3.5	D	5.9	D	5.2
Separated, divorced, widowed	1.6	D	1.1	1.9	1.1	D	1.5	D	1.9
Unknown	11.5	10.5	10.7	12.7	13.9	7.4	7.9	12.3	10.8
Bachelor's in same field as doctorate (%) ^b	77.7	84.4	81.0	81.1	80.6	70.3	69.9	82.3	73.5
Master's earned (%)	74.3	84.7	48.9	86.1	78.0	88.6	65.4	79.4	73.4
Age at doctorate (median years)	30.3	29.8	29.0	31.7	30.5	31.5	29.9	30.2	30.5
Time to doctorate (median years)									
From bachelor's	7.5	7.0	6.4	8.8	7.7	9.0	7.0	7.3	7.7
From graduate school start	6.7	6.3	5.7	7.3	6.8	7.7	6.3	6.7	6.7
Female doctorate recipients (number)	2,051	55	260	125	281	65	217	197	851
Citizenship (%)									
U.S. citizen or permanent resident	45.8	58.2	43.8	40.8	32.0	38.5	43.8	49.2	51.2
Temporary visa holder	49.1	32.7	48.5	56.8	62.3	60.0	52.1	45.2	44.3

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Characteristic	All engineering fields	Aerospace, aeronautical, and astronautical engineering	Chemical engineering	Civil engineering	Electrical, electronics, and communication engineering	Industrial and manufacturing engineering	Materials science engineering	Mechanical engineering	Other engineering
Unknown	5.0	9.1	7.7	2.4	5.7	1.5	4.1	5.6	4.5
Marital status (%)									
Never married	37.8	43.6	43.5	41.6	35.2	30.8	34.1	41.1	36.7
Married	41.6	32.7	37.3	42.4	42.7	50.8	47.9	40.1	41.1
Marriage-like relationship	7.6	D	5.8	D	5.0	D	6.5	D	9.8
Separated, divorced, widowed	2.8	D	2.3	D	2.8	D	2.8	D	3.4
Unknown	10.2	12.7	11.2	9.6	14.2	4.6	8.8	11.2	9.0
Bachelor's in same field as doctorate (%) ^b	72.6	70.9	78.8	81.6	74.0	75.4	65.4	82.7	68.4
Master's earned (%)	70.1	80.0	53.1	87.2	78.6	92.3	65.0	74.6	67.9
Age at doctorate (median years)	29.4	29.4	28.7	30.2	29.7	30.7	29.0	29.0	29.5
Time to doctorate (median years)									
From bachelor's	7.0	7.3	6.2	7.4	7.3	8.0	6.6	6.6	7.1
From graduate school start	6.3	6.3	5.7	6.6	6.7	7.3	6.0	6.0	6.3

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

^a Includes respondents who did not report sex.

^b A bachelor's degree is counted as "in same field as doctorate" if the fields of study for the doctorate recipient's bachelor's degree and doctorate degree are both in the same major field category of the National Science Foundation's field of study taxonomy. See table A-6 in the technical notes for a listing of major fields and their constituent subfields.

NOTE: Due to rounding, percentages may not sum to 100.

SOURCE: NSF, NIH, USED, USDA, NEH, NASA, Survey of Earned Doctorates, 2013.