

TABLE 62. Statistical profile of doctorate recipients in engineering fields, by sex and field of study: 2014

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) <sup>a</sup>	9,568	387	975	622	1,957	298	836	1,332	3,161
Sex (%)									
Male	76.8	85.5	70.2	75.6	82.7	70.1	74.0	84.7	72.4
Female	22.8	14.2	29.7	23.6	16.7	29.9	25.5	14.8	27.3
Unknown	0.4	0.3	0.1	0.8	0.7	0.0	0.5	0.5	0.3
Citizenship (%)									
U.S. citizen or permanent resident	42.1	63.6	45.8	36.8	29.5	30.5	43.5	41.9	48.0
Temporary visa holder	51.6	32.0	49.5	54.7	62.2	62.1	50.4	51.7	46.7
Unknown	6.3	4.4	4.6	8.5	8.3	7.4	6.1	6.5	5.3
Marital status (%)									
Never married	38.1	40.1	47.1	29.6	37.9	35.2	40.9	37.6	36.8
Married	42.8	41.3	37.3	47.6	43.6	46.3	39.5	43.5	43.5
Marriage-like relationship	5.9	D	5.7	4.8	4.0	D	8.0	4.5	7.2
Separated, divorced, widowed	1.7	D	1.1	2.6	1.4	D	1.2	1.9	2.0
Unknown	11.5	10.1	8.7	15.4	13.1	12.8	10.4	12.5	10.5
Bachelor's in same field as doctorate (%) <sup>b</sup>	76.3	82.9	83.7	75.9	79.9	69.8	67.6	83.3	70.9
Master's earned (%)	71.6	85.3	48.9	81.0	78.0	81.2	57.7	78.1	71.1
Age at doctorate (median years)	30.0	29.6	28.8	31.7	30.2	31.2	29.3	30.2	30.2
Time to doctorate (median years)									
From bachelor's	7.3	6.8	6.1	8.5	7.6	8.3	6.7	7.3	7.5
From graduate school start	6.5	6.3	5.6	7.3	6.7	7.0	6.0	6.5	6.7
Male doctorate recipients (number)	7,349	331	684	470	1,618	209	619	1,128	2,290
Citizenship (%)									
U.S. citizen or permanent resident	41.0	62.8	48.0	33.2	30.0	28.7	44.3	41.9	45.1
Temporary visa holder	52.9	33.5	47.2	58.9	62.3	63.6	49.9	52.1	49.6
Unknown	6.1	3.6	4.8	7.9	7.7	7.7	5.8	5.9	5.4
Marital status (%)									
Never married	38.2	39.0	49.4	29.1	38.3	32.5	41.5	38.7	35.8
Married	43.5	43.8	35.4	49.6	44.1	47.4	40.5	43.4	44.6
Marriage-like relationship	5.6	D	5.6	4.0	4.1	D	D	D	6.6
Separated, divorced, widowed	1.6	D	0.9	2.3	1.2	D	D	D	2.1
Unknown	11.3	9.1	8.8	14.9	12.3	14.4	9.7	11.4	11.0
Bachelor's in same field as doctorate (%) <sup>b</sup>	77.4	83.1	85.5	79.1	80.6	70.3	68.0	83.7	71.5
Master's earned (%)	72.6	86.1	49.3	82.6	78.0	80.9	56.5	78.2	72.6
Age at doctorate (median years)	30.2	29.7	28.8	31.9	30.2	31.4	29.4	30.3	30.4
Time to doctorate (median years)									
From bachelor's	7.4	6.8	6.1	8.7	7.6	8.4	6.7	7.3	7.6
From graduate school start	6.6	6.3	5.6	7.5	6.7	7.0	6.0	6.5	6.7
Female doctorate recipients (number)	2,179	55	290	147	326	89	213	197	862
Citizenship (%)									
U.S. citizen or permanent resident	46.5	69.1	41.0	49.7	28.2	34.8	42.3	43.1	56.3
Temporary visa holder	48.2	23.6	55.2	42.9	64.4	58.4	52.6	50.8	39.6

TABLE 62. Statistical profile of doctorate recipients in engineering fields, by sex and field of study: 2014

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	5.3	7.3	3.8	7.5	7.4	6.7	5.2	6.1	4.2
Marital status (%)									
Never married	38.8	47.3	41.7	32.0	37.4	41.6	39.9	32.5	39.8
Married	41.4	27.3	42.1	42.9	42.9	43.8	37.1	45.7	41.2
Marriage-like relationship	7.1	10.9	6.2	7.5	3.4	D	D	D	8.9
Separated, divorced, widowed	2.0	0.0	1.7	3.4	2.5	D	D	D	1.6
Unknown	10.6	14.5	8.3	14.3	13.8	9.0	10.8	15.2	8.5
Bachelor's in same field as doctorate (%) <sup>b</sup>	73.9	83.6	79.7	68.0	79.1	68.5	67.6	84.3	70.1
Master's earned (%)	69.4	81.8	48.3	78.9	80.7	82.0	62.0	80.2	68.0
Age at doctorate (median years)	29.5	28.9	28.8	31.0	29.9	30.8	28.8	29.7	29.7
Time to doctorate (median years)									
From bachelor's	7.0	6.5	6.3	7.9	7.6	7.9	6.6	7.3	7.3
From graduate school start	6.3	5.8	5.7	6.7	6.9	7.0	5.9	6.5	6.4

D = suppressed to avoid disclosure of confidential information.

<sup>a</sup> Includes respondents who did not report sex.

<sup>b</sup> 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, except for engineering and education fields where broad field categories need be the same. 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, 2014.