

**TABLE 2-6**  
**Employed college graduates, by level of highest degree, major occupation, possession of a certification or license, and primary field of certification or license: 2019**

(Number)

Level of highest degree and occupation	Total	Obtained a certification or license for work-related reasons	Primary field of certification or license										
			Computer applications and design	Computer networking, administration, and security	Other information technologies and computers	Mathematics, statistics, and data analytics	Life sciences	Physical sciences	Social sciences	Engineering	S&E-related	Non-S&E	Uncodeable or missing
All degree levels	50,524,000	20,383,000	182,000	318,000	159,000	38,000	107,000	95,000	255,000	625,000	5,751,000	12,522,000	330,000
S&E occupations	7,466,000	1,629,000	123,000	228,000	108,000	3,000	29,000	42,000	136,000	381,000	107,000	428,000	43,000
Biological, agricultural, and other life scientists	698,000	107,000	D	D	D	D	20,000	5,000	D	S	43,000	30,000	6,000
Computer and mathematical scientists	3,774,000	696,000	113,000	216,000	100,000	2,000	D	5,000	D	5,000	29,000	199,000	25,000
Physical and related scientists	409,000	68,000	D	D	D	D	8,000	28,000	D	2,000	15,000	15,000	*
Social and related scientists	663,000	237,000	D	D	D	D	D	D	134,000	D	8,000	90,000	2,000
Engineers	1,921,000	521,000	S	11,000	S	*	D	4,000	D	374,000	12,000	94,000	9,000
S&E-related occupations	8,893,000	6,568,000	18,000	27,000	17,000	25,000	26,000	28,000	36,000	114,000	5,007,000	1,197,000	73,000
Non-S&E occupations	34,165,000	12,186,000	42,000	63,000	35,000	10,000	52,000	25,000	82,000	130,000	637,000	10,896,000	214,000
Bachelor's	31,373,000	10,458,000	123,000	233,000	113,000	29,000	70,000	48,000	24,000	375,000	2,958,000	6,333,000	150,000
S&E occupations	4,176,000	900,000	81,000	171,000	81,000	D	18,000	19,000	8,000	234,000	65,000	201,000	22,000
Biological, agricultural, and other life scientists	277,000	54,000	D	D	D	D	12,000	S	D	D	24,000	14,000	D
Computer and mathematical scientists	2,403,000	448,000	72,000	161,000	76,000	D	D	S	D	1,000	20,000	99,000	17,000
Physical and related scientists	189,000	41,000	D	D	D	D	6,000	14,000	D	S	9,000	10,000	D
Social and related scientists	147,000	34,000	D	D	D	D	D	D	8,000	D	D	23,000	D
Engineers	1,158,000	324,000	S	9,000	S	D	D	1,000	D	232,000	9,000	55,000	4,000
S&E-related occupations	4,794,000	3,260,000	10,000	20,000	9,000	19,000	15,000	16,000	3,000	75,000	2,501,000	570,000	23,000

TABLE 2-6

**Employed college graduates, by level of highest degree, major occupation, possession of a certification or license, and primary field of certification or license: 2019**

(Number)

Level of highest degree and occupation	Total	Obtained a certification or license for work-related reasons	Primary field of certification or license										
			Computer applications and design	Computer networking, administration, and security	Other information technologies and computers	Mathematics, statistics, and data analytics	Life sciences	Physical sciences	Social sciences	Engineering	S&E-related	Non-S&E	Uncodeable or missing
Non-S&E occupations	22,403,000	6,298,000	32,000	42,000	24,000	9,000	37,000	14,000	14,000	66,000	392,000	5,562,000	106,000
Master's	14,158,000	6,777,000	57,000	81,000	41,000	7,000	32,000	39,000	114,000	223,000	1,222,000	4,837,000	125,000
S&E occupations	2,286,000	541,000	40,000	54,000	24,000	1,000	9,000	17,000	37,000	127,000	23,000	194,000	13,000
Biological, agricultural, and other life scientists	152,000	24,000	D	D	D	D	6,000	2,000	D	D	6,000	8,000	D
Computer and mathematical scientists	1,168,000	231,000	39,000	53,000	22,000	1,000	D	1,000	D	3,000	8,000	93,000	8,000
Physical and related scientists	97,000	21,000	D	D	D	D	S	11,000	D	*	S	3,000	D
Social and related scientists	249,000	91,000	D	D	D	D	D	D	35,000	D	1,000	53,000	*
Engineers	619,000	174,000	D	1,000	D	D	D	3,000	D	123,000	3,000	37,000	S
S&E-related occupations	2,332,000	1,745,000	7,000	6,000	5,000	S	10,000	11,000	25,000	36,000	1,021,000	585,000	32,000
Non-S&E occupations	9,540,000	4,492,000	9,000	21,000	11,000	D	12,000	11,000	52,000	59,000	178,000	4,058,000	80,000
Doctorate	2,090,000	655,000	S	4,000	2,000	D	5,000	8,000	93,000	26,000	255,000	234,000	25,000
S&E occupations	938,000	154,000	S	3,000	D	D	1,000	6,000	73,000	20,000	13,000	27,000	7,000
S&E-related occupations	387,000	262,000	D	D	D	D	*	1,000	7,000	3,000	212,000	26,000	S
Non-S&E occupations	765,000	239,000	D	D	D	D	S	D	13,000	4,000	30,000	181,000	7,000
Professional	2,903,000	2,493,000	D	D	D	D	D	D	24,000	D	1,316,000	1,118,000	30,000
S&E occupations	67,000	34,000	D	D	D	D	D	D	19,000	D	6,000	6,000	S
S&E-related occupations	1,380,000	1,301,000	D	D	D	D	D	D	2,000	D	1,273,000	16,000	S
Non-S&E occupations	1,456,000	1,158,000	D	D	D	D	D	D	4,000	D	36,000	1,096,000	21,000

\* = suppressed when population estimate &lt; 500. D = suppressed to avoid disclosure of confidential information. S = suppressed for reliability; coefficient of variation exceeds publication standards.

S&amp;E = science and engineering.

**Note(s):**

Numbers are rounded to the nearest 1,000. Detail may not add to total because of rounding.

**Source(s):**

National Center for Science and Engineering Statistics, National Survey of College Graduates: 2019.