

TABLE 7

U.S. STEM and non-STEM workers, by industry, occupation, sex, and education level: 2022

(Number)

Industry, occupation, and sex	All occupations			STEM occupation			Non-STEM occupation		
	All education levels	Bachelor's degree or higher	Less than a bachelor's degree	All education levels	Bachelor's degree or higher	Less than a bachelor's degree	All education levels	Bachelor's degree or higher	Less than a bachelor's degree
Total U.S. population ages 16–75	152,524,000	58,742,000	93,782,000	35,742,000	17,512,000	18,230,000	116,782,000	41,230,000	75,552,000
Industry									
Agriculture, forestry, fishing and hunting, and mining	2,124,000	342,000	1,782,000	900,000	182,000	718,000	1,224,000	160,000	1,064,000
Construction	9,364,000	1,761,000	7,603,000	3,747,000	574,000	3,173,000	5,617,000	1,187,000	4,430,000
Manufacturing	15,893,000	5,462,000	10,431,000	5,745,000	2,413,000	3,333,000	10,148,000	3,049,000	7,099,000
Wholesale trade	3,140,000	1,100,000	2,041,000	308,000	102,000	206,000	2,832,000	998,000	1,834,000
Retail trade	17,293,000	3,219,000	14,074,000	1,864,000	595,000	1,269,000	15,429,000	2,624,000	12,805,000
Transportation and warehousing	8,444,000	1,573,000	6,871,000	675,000	198,000	477,000	7,769,000	1,376,000	6,393,000
Utilities	1,609,000	470,000	1,140,000	664,000	314,000	350,000	945,000	155,000	790,000
Information	2,674,000	1,641,000	1,033,000	894,000	458,000	436,000	1,779,000	1,183,000	597,000
Finance and insurance, and real estate and rental and leasing	10,701,000	5,606,000	5,095,000	1,350,000	928,000	421,000	9,352,000	4,678,000	4,673,000
Professional, scientific, and management, and administrative and waste management services	18,307,000	9,938,000	8,369,000	5,961,000	3,788,000	2,173,000	12,346,000	6,149,000	6,196,000
Educational services, and health care and social assistance	36,158,000	19,659,000	16,499,000	10,147,000	6,648,000	3,499,000	26,011,000	13,011,000	13,000,000
Arts, entertainment, and recreation, and accommodation and food services	11,883,000	1,968,000	9,915,000	572,000	131,000	440,000	11,311,000	1,837,000	9,475,000
Other services, except public administration	7,375,000	1,949,000	5,426,000	1,160,000	193,000	968,000	6,215,000	1,756,000	4,459,000
Public administration	6,978,000	3,806,000	3,172,000	1,754,000	987,000	767,000	5,224,000	2,819,000	2,405,000
Occupation									
Management	17,996,000	10,910,000	7,085,000	2,514,000	1,497,000	1,017,000	15,482,000	9,413,000	6,069,000
Business	5,838,000	3,548,000	2,290,000	345,000	117,000	227,000	5,493,000	3,431,000	2,062,000
Financial operations	3,035,000	1,940,000	1,095,000	151,000	82,000	S	2,884,000	1,858,000	1,025,000
Computer and mathematical	6,532,000	4,508,000	2,025,000	6,532,000	4,508,000	2,025,000	D	D	D
Architecture and engineering	3,408,000	2,264,000	1,144,000	3,408,000	2,264,000	1,144,000	D	D	D
Life, physical, and social science	1,726,000	1,561,000	166,000	1,726,000	1,561,000	166,000	D	D	D
Community and social service	3,217,000	2,334,000	882,000	D	D	D	3,217,000	2,334,000	882,000
Legal	1,655,000	1,379,000	276,000	D	D	D	1,655,000	1,379,000	276,000
Education, training, and library	9,118,000	7,023,000	2,094,000	D	D	D	9,118,000	7,023,000	2,094,000

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(Number)

Industry, occupation, and sex	All occupations			STEM occupation			Non-STEM occupation		
	All education levels	Bachelor's degree or higher	Less than a bachelor's degree	All education levels	Bachelor's degree or higher	Less than a bachelor's degree	All education levels	Bachelor's degree or higher	Less than a bachelor's degree
Arts, design, entertainment, sports, and media	3,566,000	2,092,000	1,474,000	558,000	280,000	279,000	3,008,000	1,812,000	1,196,000
Health diagnosing and treating practitioner and other technical ^a	6,260,000	4,871,000	1,389,000	6,260,000	4,871,000	1,389,000	D	D	D
Health technologist and technician ^a	2,905,000	911,000	1,994,000	2,905,000	911,000	1,994,000	D	D	D
Healthcare support	5,787,000	791,000	4,996,000	D	D	D	5,787,000	791,000	4,996,000
Protective service	2,792,000	794,000	1,998,000	159,000	S	116,000	2,633,000	751,000	1,882,000
Food preparation and serving related	7,009,000	507,000	6,502,000	283,000	D	263,000	6,725,000	486,000	6,239,000
Building and grounds cleaning and maintenance	5,039,000	601,000	4,438,000	D	D	D	5,039,000	601,000	4,438,000
Personal care and service	4,325,000	947,000	3,378,000	D	D	D	4,325,000	947,000	3,378,000
Sales and related	12,948,000	3,731,000	9,218,000	D	D	D	12,903,000	3,713,000	9,189,000
Office and administrative support	17,406,000	4,312,000	13,094,000	D	D	D	17,406,000	4,312,000	13,094,000
Farming, fishing, and forestry	720,000	S	669,000	D	D	D	720,000	S	669,000
Construction	6,313,000	552,000	5,761,000	3,586,000	302,000	3,285,000	2,727,000	250,000	2,476,000
Extraction	77,000	D	77,000	D	D	D	S	D	S
Installation, maintenance, and repair	4,301,000	443,000	3,858,000	4,012,000	383,000	3,629,000	289,000	D	228,000
Production	8,367,000	1,026,000	7,341,000	3,142,000	624,000	2,518,000	5,225,000	402,000	4,823,000
Transportation and material moving	11,561,000	1,354,000	10,206,000	98,000	D	D	11,462,000	1,323,000	10,139,000
Female	72,024,000	30,208,000	41,815,000	12,464,000	7,298,000	5,165,000	59,560,000	22,910,000	36,650,000
Industry									
Agriculture, forestry, fishing and hunting, and mining	436,000	98,000	338,000	123,000	S	D	313,000	D	289,000
Construction	1,181,000	446,000	735,000	120,000	D	S	1,061,000	424,000	637,000
Manufacturing	4,283,000	1,715,000	2,568,000	943,000	465,000	478,000	3,340,000	1,250,000	2,089,000
Wholesale trade	883,000	488,000	395,000	74,000	70,000	D	809,000	418,000	392,000
Retail trade	7,895,000	1,641,000	6,254,000	654,000	278,000	376,000	7,241,000	1,363,000	5,878,000
Transportation and warehousing	2,339,000	420,000	1,918,000	D	D	D	2,242,000	393,000	1,849,000
Utilities	439,000	109,000	330,000	84,000	73,000	D	355,000	D	319,000
Information	873,000	591,000	282,000	S	48,000	S	723,000	543,000	180,000
Finance and insurance, and real estate and rental and leasing	5,765,000	2,769,000	2,996,000	555,000	357,000	198,000	5,210,000	2,412,000	2,798,000
Professional, scientific, and management, and administrative and waste management services	8,276,000	4,539,000	3,737,000	2,001,000	1,206,000	795,000	6,275,000	3,334,000	2,941,000

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	All education levels	Bachelor's degree or higher	Less than a bachelor's degree	All education levels	Bachelor's degree or higher	Less than a bachelor's degree	All education levels	Bachelor's degree or higher	Less than a bachelor's degree
Installation, maintenance, and repair	234,000	D	S	234,000	D	S	D	D	D
Production	1,964,000	432,000	1,532,000	600,000	204,000	396,000	1,364,000	228,000	1,136,000
Transportation and material moving	1,945,000	243,000	1,702,000	D	D	D	1,945,000	243,000	1,702,000
Male	80,501,000	28,534,000	51,967,000	23,278,000	10,214,000	13,064,000	57,222,000	18,320,000	38,902,000
Industry									
Agriculture, forestry, fishing and hunting, and mining	1,688,000	244,000	1,444,000	777,000	108,000	669,000	911,000	136,000	775,000
Construction	8,183,000	1,315,000	6,867,000	3,626,000	552,000	3,075,000	4,556,000	763,000	3,793,000
Manufacturing	11,610,000	3,747,000	7,863,000	4,802,000	1,948,000	2,854,000	6,808,000	1,799,000	5,009,000
Wholesale trade	2,257,000	612,000	1,645,000	234,000	31,000	203,000	2,023,000	581,000	1,443,000
Retail trade	9,398,000	1,578,000	7,820,000	1,210,000	317,000	893,000	8,189,000	1,261,000	6,927,000
Transportation and warehousing	6,105,000	1,153,000	4,952,000	578,000	170,000	408,000	5,527,000	983,000	4,544,000
Utilities	1,170,000	360,000	810,000	580,000	242,000	339,000	590,000	118,000	471,000
Information	1,800,000	1,050,000	751,000	744,000	410,000	334,000	1,057,000	640,000	417,000
Finance and insurance, and real estate and rental and leasing	4,936,000	2,837,000	2,099,000	795,000	571,000	223,000	4,141,000	2,266,000	1,875,000
Professional, scientific, and management, and administrative and waste management services	10,031,000	5,399,000	4,632,000	3,960,000	2,583,000	1,377,000	6,071,000	2,816,000	3,255,000
Educational services, and health care and social assistance	9,863,000	6,060,000	3,804,000	3,383,000	2,454,000	929,000	6,480,000	3,606,000	2,874,000
Arts, entertainment, and recreation, and accommodation and food services	5,691,000	1,096,000	4,595,000	304,000	99,000	205,000	5,387,000	997,000	4,390,000
Other services, except public administration	3,446,000	819,000	2,628,000	1,021,000	109,000	911,000	2,425,000	709,000	1,716,000
Public administration	3,807,000	2,056,000	1,750,000	1,262,000	618,000	644,000	2,544,000	1,438,000	1,106,000
Occupation									
Management	10,310,000	5,889,000	4,421,000	1,760,000	936,000	824,000	8,550,000	4,953,000	3,597,000
Business	2,634,000	1,611,000	1,024,000	242,000	90,000	S	2,393,000	1,521,000	872,000
Financial operations	1,248,000	949,000	299,000	63,000	S	D	1,186,000	898,000	288,000
Computer and mathematical	4,802,000	3,360,000	1,443,000	4,802,000	3,360,000	1,443,000	D	D	D
Architecture and engineering	2,785,000	1,937,000	848,000	2,785,000	1,937,000	848,000	D	D	D
Life, physical, and social science	847,000	747,000	101,000	847,000	747,000	101,000	D	D	D

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	All education levels	Bachelor's degree or higher	Less than a bachelor's degree	All education levels	Bachelor's degree or higher	Less than a bachelor's degree	All education levels	Bachelor's degree or higher	Less than a bachelor's degree
Community and social service	998,000	762,000	236,000	D	D	D	998,000	762,000	236,000
Legal	820,000	751,000	D	D	D	D	820,000	751,000	D
Education, training, and library	2,262,000	1,805,000	458,000	D	D	D	2,262,000	1,805,000	458,000
Arts, design, entertainment, sports, and media	1,787,000	1,106,000	681,000	383,000	234,000	D	1,405,000	872,000	533,000
Health diagnosing and treating practitioner and other technical ^a	1,624,000	1,443,000	181,000	1,624,000	1,443,000	181,000	D	D	D
Health technologist and technician ^a	597,000	324,000	273,000	597,000	324,000	273,000	D	D	D
Healthcare support	961,000	216,000	745,000	D	D	D	961,000	216,000	745,000
Protective service	2,133,000	536,000	1,596,000	136,000	D	116,000	1,996,000	516,000	1,480,000
Food preparation and serving related	3,453,000	315,000	3,139,000	186,000	D	165,000	3,267,000	294,000	2,974,000
Building and grounds cleaning and maintenance	3,175,000	319,000	2,856,000	D	D	D	3,175,000	319,000	2,856,000
Personal care and service	1,237,000	391,000	845,000	D	D	D	1,237,000	391,000	845,000
Sales and related	6,532,000	1,927,000	4,605,000	D	D	D	6,487,000	1,910,000	4,576,000
Office and administrative support	5,110,000	1,260,000	3,850,000	D	D	D	5,110,000	1,260,000	3,850,000
Farming, fishing, and forestry	479,000	D	443,000	D	D	D	479,000	D	443,000
Construction	5,985,000	552,000	5,432,000	3,374,000	302,000	3,072,000	2,610,000	250,000	2,360,000
Extraction	77,000	D	77,000	D	D	D	S	D	S
Installation, maintenance, and repair	4,067,000	341,000	3,726,000	3,778,000	281,000	3,497,000	289,000	D	228,000
Production	6,403,000	594,000	5,809,000	2,542,000	420,000	2,122,000	3,861,000	174,000	3,687,000
Transportation and material moving	9,616,000	1,111,000	8,505,000	98,000	D	D	9,517,000	1,080,000	8,438,000

D = suppressed to avoid disclosure of confidential information. S = suppressed for reliability; coefficient of variation exceeds publication standards of 50%.

STEM = science, technology, engineering, and mathematics.

^a "Healthcare practitioner and technical occupations" was broken into "Health diagnosing and treating practitioner and other technical" and "Health technologist and technician" to differentiate between doctors and technologists.

Note(s):

The National Training, Education, and Workforce Survey Pilot data tables are designated as an experimental statistical product. These estimates are experimental statistics and may not meet all the quality standards of the National Center for Science and Engineering Statistics. Users should take caution when using the estimates presented in these tables. Additional information about the experimental statistical product designation can be found in the "Technical Notes" accompanying these tables.

Numbers are rounded to the nearest 1,000. Detail may not add to total because of rounding. The survey uses the 2017 Industry Code and 2018 Occupation Code lists from the Census Bureau.

Source(s):

National Center for Science and Engineering Statistics, National Training, Education, and Workforce Survey Pilot, 2022.