

Table 817. Civilian Employment of Scientists, Engineers, and Related Occupations by Occupation and Industry: 2008

[In thousands (293.0 represents 293,000). Standard Occupational Classification system categorize workers in 1 of 801 detailed occupations. Industry classifications correspond to 2007 North American Industry Classification (NAICS) industrial groups. For definition of scientists and engineers, see text this section]

Occupation	Total employment, all workers	Wage and salary workers						Self employed ²
		Mining (NAICS 21) ¹	Construction (NAICS 23)	Manufacturing (NAICS 31-33)	Information (NAICS 51)	Professional, scientific and technical services (NAICS 54)	Government (NAICS 99)	
Computer and information systems managers	293.0	0.4	0.7	27.5	33.6	73.5	19.0	9.6
Engineering managers	184.0	1.8	5.0	74.9	5.2	59.2	15.7	1.1
Natural science managers	44.6	0.2	(NA)	6.9	(NA)	16.2	13.8	(NA)
Computer and mathematical scientists	3,540.4	7.6	(NA)	272.7	422.3	1,121.5	247.4	155.3
Computer specialists	3,424.3	7.1	9.8	266.1	415.7	1,096.0	228.2	154.6
Mathematical science occupations	116.1	(NA)	0.2	6.6	6.5	25.5	19.2	0.8
Surveyors, cartographers, and photogrammetrists	70.0	0.8	3.8	0.1	(NA)	50.4	10.1	1.8
Engineers ³	1,571.9	26.1	47.7	559.6	41.5	468.8	190.3	41.8
Aerospace engineers	71.6	(NA)	(NA)	38.4	(NA)	17.8	9.5	2.4
Civil engineers	278.4	0.8	31.1	2.5	0.8	141.0	75.4	12.0
Computer and hardware engineers	74.7	(NA)	(NA)	32.1	3.5	24.5	4.7	1.0
Electrical and electronics engineers	301.5	0.3	4.8	105.3	32.4	76.9	26.4	4.8
Industrial engineers ⁴	240.4	2.4	6.4	155.2	2.5	33.5	6.1	1.8
Mechanical engineers	238.7	1.3	3.1	121.2	0.2	69.7	12.3	5.5
Drafters, engineering, and mapping technicians ⁵	826.2	5.3	26.0	229.8	22.4	315.0	108.5	15.1
Engineering technicians	497.3	3.9	5.1	169.5	18.9	124.3	91.7	3.6
Surveying and mapping technicians	77.0	0.6	(NA)	0.1	0.8	53.0	11.7	4.3
Life, physical, and social science occupations	1,460.8	20.1	(NA)	155.6	28.6	376.0	314.5	97.8
Life scientists	279.4	(NA)	(NA)	36.5	0.2	71.9	67.9	9.9
Physical scientists	275.5	9.4	(NA)	43.3	1.2	100.8	76.3	6.3
Social scientists and related occupations	549.4	0.3	2.6	22.3	26.7	111.0	82.6	78.2
Life, physical, and social science technicians	356.5	10.3	0.6	53.4	0.5	92.4	87.7	3.4

NA Not available. ¹ Includes oil and gas extraction. ² Includes secondary jobs and unpaid private household employment.

³ Includes kinds of engineers not shown separately. ⁴ Includes health and safety engineers. ⁵ Includes other drafters, technicians, and mapping technicians.

Source: U.S. Bureau of Labor Statistics, National Employment Matrix, December 2009 (data collected biennially). See also <<http://www.bls.gov/emp/empcols.htm>>.

Table 818. Employment and Earnings in Science and Engineering (S&E) Occupations by Industry: 2006

[As of May 2006. Industries ordered by Science and Engineering share of total employment]

Industry	2002 NAICS code ¹	Workers employed (number)		S&E workers as percent of all employed	Mean earnings in S&E occupations (dollars)
		All occupations	S&E occupations		
Computer systems design and related services	5415	1,254,320	609,590	48.6	75,040
Software publishers	5112	240,130	116,260	48.4	79,120
Scientific research and development services	5417	586,220	247,310	42.2	81,220
Computer and peripheral equipment manufacturing	3341	199,370	79,040	39.6	90,710
Internet service providers and Web search portals	5181	119,560	46,120	38.6	69,720
Data processing, hosting, and related services	5182	264,320	83,470	31.6	70,460
Internet publishing and broadcasting	5161	33,220	9,810	29.5	69,800
Architectural, engineering, and related services	5413	1,361,280	397,910	29.2	74,570
Communications equipment manufacturing	3342	144,200	39,270	27.2	83,400
Navigational, measuring, electromedical, and control instruments manufacturing	3345	435,510	117,950	27.1	82,190
Aerospace product and parts manufacturing	3364	464,990	114,620	24.6	80,410
Securities and commodity exchanges	5232	8,850	1,930	21.8	74,000
Semiconductor and other electronic component manufacturing	3344	452,060	93,940	20.8	83,490
Pharmaceutical and medicine manufacturing	3254	288,270	55,640	19.3	73,710
Other telecommunications	5179	5,300	980	18.5	73,820

¹ North American Industry Classification System (NAICS), 2002; see text Section 15.

Source: U.S. National Science Foundation, *Science and Engineering Indicators 2008*, January 2008. See also <<http://nsf.gov/statistics/seind08/>>.