

TABLE 32-3

Labor force participation rate among U.S. residing doctoral scientists and engineers, by occupation: 2019

(Percent and SE)

Occupation	Labor force participation rate	
	Percent	SE
All occupations	86.4	0.20
Science occupations	86.5	0.25
Biological, agricultural, and other life scientist	87.2	0.40
Agricultural, food scientist	81.7	1.50
Biochemists, biophysicist	86.0	1.35
Biological scientist	88.7	0.95
Forestry, conservation scientist	83.6	3.30
Medical scientist	89.7	0.70
Postsecondary teachers, agricultural, other natural sciences	78.5	2.50
Postsecondary teachers, biological sciences	86.3	0.95
Other biological, agricultural, life scientist	89.0	1.10
Computer and information scientist	89.3	0.60
Computer and information scientist	89.3	0.70
Postsecondary teachers, computer science	89.6	1.30
Mathematical scientist	87.9	0.70
Mathematical scientist	89.5	0.85
Postsecondary teachers, mathematics, statistics	86.1	1.15
Physical scientist	84.8	0.55
Chemists, except biochemist	82.1	1.15
Earth, atmospheric, ocean scientist	82.8	1.35
Physicists, astronomers	85.8	1.40
Postsecondary teachers, chemistry	87.4	1.20
Postsecondary teachers, physics	86.8	1.70
Postsecondary teachers, other physical science	87.6	1.45
Other physical scientist	82.5	2.75
Psychologist	85.3	0.65
Psychologist	85.3	0.75
Postsecondary teachers, psychology	85.1	1.10
Social scientist	85.1	0.55
Economist	85.6	1.50
Political scientist	78.0	4.15
Postsecondary teachers, economics	85.3	1.75
Postsecondary teachers, political science	91.4	1.30
Postsecondary teachers, sociology	81.0	2.10
Postsecondary teachers, other social sciences	87.2	1.05
Sociologist, anthropologist	79.6	3.00
Other social scientist	81.1	1.75
Engineering occupations	89.8	0.45
Aerospace, aeronautical, astronautical engineer	87.7	1.80
Chemical engineer	87.0	1.90
Civil, architectural, sanitary engineer	89.9	1.80
Electrical engineer	91.6	0.90
Industrial engineer	94.0	3.15
Mechanical engineer	90.9	1.20
Postsecondary teacher, engineering	93.7	0.85
Other engineer	86.2	0.90
S&E-related occupations	86.1	0.50
Health occupations, except postsecondary teachers and managers	86.4	0.85
Postsecondary teacher, health and related science	86.0	1.10

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S&E managers, including health	86.9	1.00
S&E precollege teachers	78.8	2.75
S&E technicians/ technologists	88.9	1.75
Other S&E-related occupation	82.0	6.35
Non-S&E occupations	83.6	0.45
Arts, humanities-related occupation	83.4	1.70
Management-related occupation	80.8	1.15
Non-S&E managers	87.4	0.70
Non-S&E postsecondary teachers	83.7	1.10
Non-S&E precollege/ other teachers	71.4	3.10
Sales, marketing occupation	85.1	1.75
Social service-related occupation	79.0	2.20
Other non-S&E occupation	82.3	1.65

S&E = science and engineering; SE = standard error.

Note(s):

Labor force is defined as those employed (E) plus those unemployed and seeking work (U). Unemployed includes individuals who were not working during the survey reference week but had been seeking work in the prior 4 weeks or who were on layoff from their job. Population (P) is defined as all S&E doctorate holders less than 76 years of age, who were residing in the United States during the week of 1 February 2019, and who earned doctorates from U.S. institutions. Labor force participation rate (RLF) = (E+U)/ P. If respondent was not employed during survey reference period, occupation when last employed was reported. Excludes 350 individuals who reported never having worked so could not be classified by occupation. Residence location is based on reported living location on 1 February 2019.

Source(s):

National Center for Science and Engineering Statistics, Survey of Doctorate Recipients: 2019.