

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 |
| S&E managers, including health | 86.9 | 1.00 |

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(Percent and SE)

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|-------------------------------------|--------------------------------|------|
| | Percent | SE |
| 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.