



APPENDIX TABLE 3-1 

S&E occupations in the 1960 U.S. Census and 2015 American Community Survey

(List of S&E occupations)

Decennial Census, 1960	American Community Survey, 2015
Biological, agricultural, and environmental life scientists	Biological, agricultural, and environmental life scientists
Agricultural scientists	Agricultural and food scientists
Biological scientists	Biological scientists
Foresters and conservationists	Conservation scientists and foresters
	Medical scientists
	Life scientists, all other
Mathematical scientists	Computer and mathematical scientists
Mathematicians	Computer and information research scientists
Statisticians and actuaries	Computer network architects
	Computer support specialists
	Computer systems analysts
	Database administrators
	Information security analysts
	Network and computer systems administrators
	Operations research analysts
	Software developers, applications and systems software
	Web developers
	Computer occupations, all other
	Logisticians
	Mathematicians
	Operations research analysts
	Statisticians
	Miscellaneous mathematical science occupations
Physical scientists	Physical scientists
Chemists	Astronomers and physicists



Decennial Census, 1960	American Community Survey, 2015
Geologists and geophysicists	Atmospheric and space scientists
Physicists	Chemists and materials scientists
Miscellaneous natural scientists	Environmental scientists and geoscientists
	Physical scientists, all other
Social scientists	Social scientists
Economists	Economists
Psychologists	Psychologists
Miscellaneous social scientists	Sociologists
	Survey researchers
	Urban and regional planners
	Miscellaneous social scientists and related workers
Engineers	Engineers
Aeronautical engineers	Aerospace engineers
Chemical engineers	Agricultural engineers
Civil engineers	Biomedical engineers
Electrical engineers	Chemical engineers
Industrial engineers	Civil engineers
Mechanical engineers	Computer hardware engineers
Metallurgical engineers and metallurgists	Electrical engineers
Mining engineers	Environmental engineers
Sales engineers	Industrial engineers, including health and safety engineers
Engineers nec	Marine engineers and naval architects
	Materials engineers
	Mechanical engineers
	Mining and geological engineers, including mining safety engineers
	Nuclear engineers
	Petroleum engineers



Decennial Census, 1960	American Community Survey, 2015
	Sales engineers
	Engineers, all others

nec = not elsewhere classified.

Note(s)

The data reported here on the S&E employment levels for 1960 and 2015 were calculated using the Census Bureau's 1960 Decennial Census and 2015 American Community Survey (ACS) microdata, respectively, adjusted by the Integrated Public Use Microdata Series (IPUMS) from the University of Minnesota's Minnesota Population Center (<https://www.ipums.org/>). Computer occupations were not present in the occupational classification system used in 1960. For more information on how occupational classification systems have changed over time, see Wyatt and Hecker's report, "Occupational Changes During the 20th Century" (*Monthly Labor Review*, March 2006). S&E employment levels for 1960 and 2015 do not include S&E postsecondary teachers. Although the 1960 Census data allow for separate identification of S&E postsecondary teachers, the 2015 ACS data aggregate postsecondary teachers of both S&E and non-S&E fields into one occupation code.

Source(s)

National Science Foundation, National Center for Science and Engineering Statistics, based on 1960 Decennial Census and 2015 ACS, Census Bureau.

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