**Geoscientist (19-4042.00)**

### At-a-Glance Statistics

**Sample Job Titles**
- Engineering Geologist, Environmental Protection Geologist, Exploration Geologist, Geological Specialist, Geologist, Geophysicist, Geoscientist, Mine Geologist, Petroleum Geologist, Project Geologist

**Key Tasks**
- Advise construction firms or government agencies on dam or road construction, foundation design, land use, or resource management.
- Develop applied software for the analysis and interpretation of geological data.
- Determine methods to incorporate geomethane or methane hydrates into global energy production or evaluate the potential environmental impacts of such incorporation.
- Determine ways to mitigate the negative consequences of mineral dust dispersion.
- Develop strategies for more environmentally friendly resource extraction and reclamation.
- Identify new sources of platinum group elements for industrial applications, such as automotive fuel cells or pollution abatement systems.
- Identify possible sites for carbon sequestration projects.
- Research geomechanical or geochemical processes to be used in carbon sequestration projects.
- Research ways to reduce the ecological footprint of increasingly prevalent megacities.
- Review work plans to determine the effectiveness of activities for mitigating soil or groundwater contamination.
- Study historical climate change indicators found in locations such as ice sheets or rock formations to develop climate change models.

*All data sourced from O*NET OnLine (2018) [https://www.onetonline.org/].*
Education and Training

- Bachelor's Degree: 50%
- Master's Degree: 25%
- Doctoral Degree: 13%

Median Wages

- Hourly: $44.25
- Annually: $92,040

Top Industries

- Mining, Quarrying, Oil, and Gas Extraction
- Professional, Scientific, and Technical Services

Number Employed

- 31,000 positions
- 3,600 job openings

Top Ten States for Occupational Percentage Growth

- TN: 36%
- CO: 26%
- OR: 24%
- UT: 22%
- FL: 22%
- NC: 20%
- NY: 19%
- WA: 18%
- TX: 18%
- MO: 16%