Geoscientists

SOC: 19-2042 • Career Profile Report

■ Key Facts

\$99,240Median Salary

25,100 Employment **+3.0%**Growth Rate

■ Requirements & Salary Range

Education: Bachelor's degree

■ Automation Risk Assessment

Low Risk - 8.0% probability of being automated in the next 10-20 years.

This job is relatively safe from automation due to its creative, social, or complex problem-solving requirements.

■■ Work-Life Balance

7.5/10 - Good work-life balance

■ Personality Fit (RIASEC)

Higher scores indicate better personality fit for this career type.

Realistic	6.2/10	Investigative	9.4/10	
Artistic	5.6/10	Social	6.4/10	
Enterprising	4.8/10	Conventional	6.4/10	

■ Top Skills Required

Communication skills, Critical-thinking skills, Outdoor skills, Physical stamina, Problem-solving skills

√ Strengths

- High Demand
- Flexible Work
- Continuous Learning

■ Challenges

- Burnout Risk
- Rapid Technological Change

■ What They Do

Geoscientists typically perform the following tasks: • Plan or conduct geological, geochemical, or geophysical field studies or surveys, sample collection, or drilling and testing programs used to collect data for research or application. • Analyze and interpret geological data, using computer software. • Investigate the composition, structure, or history of the Earth's crust through the collection, examination, measurement, or classification of soils, minerals, rocks, or fossil remains. • Analyze and interpret geological, geochemical, or geophysical information from sources, such as survey data, well logs, bore holes, or aerial photos. • Identify risks for natural disasters, such as mudslides, earthquakes, or volcanic eruptions. • Prepare geological maps, cross-sectional diagrams, charts, or reports concerning mineral extraction, land use, or resource management, using results of fieldwork or laboratory research. Communicate geological findings by writing research papers, participating in conferences, or teaching geological science at universities. • Locate and estimate probable natural gas, oil, or mineral ore deposits or underground water resources, using aerial photographs, charts, or research or survey results, • Advise construction firms or government agencies on dam or road construction. foundation design, land use, or resource management. • Measure characteristics of the Earth, such as gravity or magnetic fields, using equipment such as seismographs, gravimeters, torsion balances, or magnetometers. • Locate and review research articles or environmental, historical, or technical reports. • Conduct geological or geophysical studies to provide information for use in regional development, site selection, or development of public works projects. • Review environmental, historical, or technical reports and publications for accuracy. • Assess ground or surface water movement to provide advice on issues, such as waste management, route and site selection, or the restoration of contaminated sites. • Inspect construction projects to analyze engineering problems, using test equipment or drilling machinery. • Provide advice on the safe siting of new nuclear reactor projects or methods of nuclear waste management. • Design geological mine maps, monitor mine structural integrity, or advise and monitor mining crews. • Review work plans to determine the effectiveness of activities for mitigating soil or groundwater contamination. • Test industrial diamonds or abrasives, soil, or rocks to determine their geological characteristics, using optical, x-ray, heat, acid, or precision instruments. • Study historical climate change indicators found in locations, such as ice sheets or rock formations to develop climate change models.

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