

Geological and Hydrologic Technicians

SOC: 19-4043 • Career Profile Report

■ Key Facts

<div>\$50,510</div> <div>Median Salary</div>	<div>12,900</div> <div>Employment</div>	<div>+1.0%</div> <div>Growth Rate</div>
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■ Requirements & Salary Range

Education: Associate'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

Analytical skills, Communication skills, Critical-thinking skills, Interpersonal skills, Physical stamina

✓ Strengths

- High Demand
- Flexible Work
- Continuous Learning

■ Challenges

- Burnout Risk
- Rapid Technological Change

■ What They Do

Geological and Hydrologic Technicians typically perform the following tasks:

- Test and analyze samples to determine their content and characteristics, using laboratory apparatus or testing equipment.
- Collect or prepare solid or fluid samples for analysis.
- Compile, log, or record testing or operational data for review and further analysis.
- Prepare notes, sketches, geological maps, or cross-sections.
- Participate in geological, geophysical, geochemical, hydrographic, or oceanographic surveys, prospecting field trips, exploratory drilling, well logging, or underground mine survey programs.
- Prepare or review professional, technical, or other reports regarding sampling, testing, or recommendations of data analysis.
- Adjust or repair testing, electrical, or mechanical equipment or devices.
- Read and study reports in order to compile information and data for geological and geophysical prospecting.
- Interview individuals, and research public databases in order to obtain information.
- Plot information from aerial photographs, well logs, section descriptions, or other databases.
- Assemble, maintain, or distribute information for library or record systems.
- Operate or adjust equipment or apparatus used to obtain geological data.
- Plan and direct activities of workers who operate equipment to collect data.
- Set up or direct set-up of instruments used to collect geological data.
- Record readings in order to compile data used in prospecting for oil or gas.
- Create photographic recordings of information, using equipment.
- Measure geological characteristics used in prospecting for oil or gas, using measuring instruments.
- Participate in the evaluation of possible mining locations.
- Assess the environmental impacts of development projects on subsurface materials.
- Evaluate and interpret core samples and cuttings, and other geological data used in prospecting for oil or gas.

*Generated by StartRight • Data from U.S. Bureau of Labor Statistics & O*NET*

Source: <https://www.bls.gov/ooh/life-physical-and-social-science/geological-and-petroleum-technicians.htm>