



# Engineering Technician

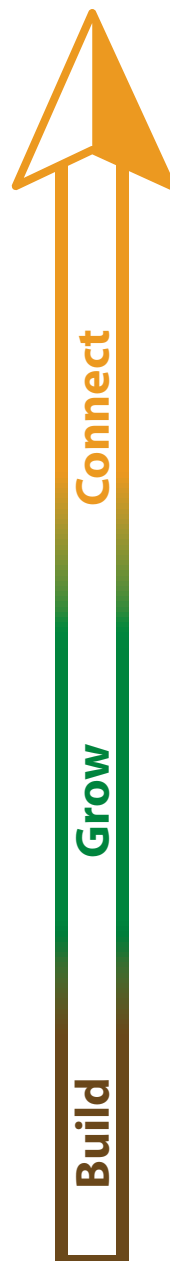


# Career Compass Geosciences

## Job Summary

Engineering Geology technicians gather and investigate data concerning rock, minerals, and soils as applied to the geology in the built environment. Engineering Geology technicians collect and describe rock, mineral, and soil samples using accepted industry procedures and equipment. They conduct field tests on the rock, mineral, and soils samples. They keep notes, check computations, and gather information for computer software analysis, and they enter data and prepare data for technical reports and publications. Much of the technician's work is done outdoors and sometimes in difficult terrain under all weather conditions.

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This career compass provides options, tips, suggestions, and strategies for how a student can obtain critical skills, experiences, and competencies in order to launch their geoscience career based on their academic standing. The content herein is based on data from the U.S. Bureau of Labor Statistics, interviews with personnel in the occupation, and research on available student opportunities.

## Undergraduate

- Geoscience professional society conference
- Student clubs, student government, or geoscience professional societies
- Hone skills through public speaking or science communication courses or conference presentations
- Events, activities, and technical sessions at professional society conference
- Geoscience internship with a non-profit, for profit organization or company, research institution, or federal agency.
- First Aid/ AED/CPR training
- OSHA HAZWOPER training
- Geologist in Training Certification or Professional Geologist license (ASBOG Fundamentals of Geology Exam and/or the Practice of Geology Exam)
- Bachelor's or master's degree in Earth science, geosciences, or geotechnical engineering
- Writing course outside the discipline (business or environmental law) or technical writing course, accounting, and project management
- Basic understanding of engineering geology and geotechnical engineering
- Course work in math, physics, chemistry, environmental compliance and regulations, environmental engineering, applied geology, or geotechnical engineering
- Develop good observational and note taking skills
- Applied engineering geology field camp and experiences
- Practical research experiences
- Field classification of rocks, minerals, and soils, instrument experiences with emphasis on data collection, data quality, and data reliability (mechanical aptitude is a plus)
- Write a senior thesis

### Symbol Key

