

# GEOLOGICAL ENGINEERING

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## B.S. Degree

Geological engineering integrates geology and engineering concepts to mitigate geohazards like landslides, ensure safe construction at a site, find and manage groundwater, and locate mineral resources.

Geological engineers are also interested in what the terrain can tell us about the stability of the soil or rock underneath. The Geological Engineering program at UAF has maintained ABET accreditation since 1941. Our program prepares students for employment with industry, consulting companies and government agencies.

The mission of the geological engineering program is to advance and disseminate knowledge related to geologic hazard assessment; engineering site selection; construction and construction material production; groundwater and geo-environmental engineering; and mineral and energy exploration, evaluation, development and production, through creative teaching, research and public service with an emphasis on Alaska, the North and its diverse peoples.

Educational Objectives of the B.S. Geological Engineering Program:

1. Our graduates use their broad education to serve as the foundation of successful careers in geological engineering and/or related fields in the public or private sectors, and/or graduate education.
2. Our graduates possess technical knowledge required to meet the unique challenges of geological engineering problems, especially those germane to cold regions including Alaska.
3. Our graduates demonstrate professionalism through clear communication, actively serving the community, teamwork, commitment to ethical standards, and life-long learning.

Minimum Requirements for Geological Engineering Bachelor's Degree: 127 credits

Learn more about the Bachelor's degree in Geological Engineering, including an overview of the program, career opportunities and more.

College of Engineering and Mines  
Department of Civil, Geological, and Environmental Engineering (<https://www.uaf.edu/cem/>)  
907-474-7241

## Programs Degree

- B.S., Geological Engineering (<http://catalog.uaf.edu/bachelors/bachelors-degree-programs/geological-engineering/bs/>)