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

Geological engineering deals with the application of geology in the environment. Properties of earth materials exploration activities, geophysical and geochemical prospecting, site investigations and engineering geology are all phases of geological engineering.

The program prepares students for employment with industry, consulting companies and government agencies.

The educational objectives of the geological engineering program are to produce:

1. Graduates who are employed in one of the following professional areas: mineral and energy exploration and development; geotechnical engineering; groundwater engineering; or geo-environmental engineering.
2. Graduates will possess technical knowledge required to meet the unique challenges of geological engineering problems germane to cold regions, especially Alaska.
3. Graduates will pursue life-long learning through continuing education opportunities, professional registration/certification, and/or graduate studies.

Minimum Requirements for Geological Engineering Bachelor’s Degree:
126 credits

Learn more about the bachelor’s degree in geological engineering (https://uaf.edu/academics/programs/bachelors/geological-engineering.php), including an overview of the program, career opportunities and more.

College of Engineering and Mines
Department of Civil, Geological and Environmental Engineering (https://cem.uaf.edu/mingeo/)
907-474-7388

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