Worldwide travel, advanced laboratories, hands-on equipment and small class sizes: Not exactly a rocky road.

Learn to design and build bridges, dams and other structures involving soil, rocks and bedrock as part of the University of North Dakota's Geological Engineering program. This program combines elements of engineering, design and geology, preparing you for careers in fields including geomechanics, environmental site assessment and natural hazard investigation.

Program Snapshot

Program type: Major  
Format: On-campus or online  
Est. time to complete: 4 years  
Credit hours: 128

Why Study Geological Engineering at UND?

As the planet's population increases, so do the demands we place on our mineral, water and energy resources. Geological engineers play critical roles in helping the world keep up.

In addition to completing a major design project, you'll have one-of-a-kind opportunities to study with faculty members around the globe: In the past, students have researched land-sliding, enhanced oil recovery and other phenomena in Peru, India, England, Canada, Antarctica and many locations in the United States.

- A petroleum option includes coursework designed to prepare students for employment in the petroleum industry while they complete their B.S. in Geological Engineering.
- A combined program allows students to earn a master's degree in addition to a B.S.

Top Online Engineering College in the Nation

Every engineering program offers education, but not every program prepares students to make a real impact the way UND does. UND is increasingly regarded as one of the top academic and research institutions in the nation for engineering. We consistently rank among the best for educational quality, affordability, and career outcomes.

#3 - Best Online Colleges Offering Bachelor's in Engineering Degrees in 2019

Accreditation

Accredited by the Engineering Accreditation Commission of ABET.

Application Deadlines

FALL: Feb. 1* (on campus freshmen)  April 15* (on campus transfer students)  Aug. 10 (online)  
SPRING: Dec. 1  
SUMMER: April 1 (on campus)  May 1 (online)  
*academic scholarship priority deadline

Program Highlights

- Smallest class sizes of any engineering discipline at UND.
- Gain access to the Willard M. Laird Core and Sample Library, a vast resource containing 40,000 cores from nearly every oil well drilled in North Dakota.
- The F.D. Holland Jr. Geology Library is one of the largest geoscience libraries in the upper Midwest.
- Generous scholarship support available.
Outcomes

93K
Median income for mining and geological engineers, 2016*

7K
Number of geological engineering jobs in the U.S., 2016*

*U.S. Bureau of Labor Statistics

Graduates of UND's Geological Engineering program play critical roles in many industries, including mining, energy exploration, education and more. Geological engineers are in demand in careers such as:

- Environmental engineering
- Geological engineering
- Petroleum geologist
- Hydrogeology
- Remote sensing/GIS
- Mining
- Mapping and surveying
- Teaching

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