Outlook for Petroleum Engineering Graduates

- Average pay for graduates $80,000+
- >90% placement
- Petroleum engineering field is rapidly growing
- Retiring work force
- Opportunities in CO₂ sequestration
- Urgent need for Petroleum Engineers

Why UND?

- High ethical standards focused on safety
- New program aimed at developing a unique applied education and research to meet industry needs
- Concerned for the environment for future generations – implementing and developing new clean technologies
- Industry affiliates program
- Increasing demand on energy has resulted in increased need for petroleum engineers
- Graduates work in a high-tech prestigious industry
- Fun and exciting place to study and grow
Bachelors of Science in Petroleum Engineering

**Mission**

Educate future generations of Petroleum Engineers who can contribute to building a better world through professional service and research for safe, reliable, and affordable energy production and environmental protection.

**Goals**

- To provide students the opportunity to develop skills to participate in the advancement of efficient methods to recover natural gas and petroleum with minimal environmental impact from new and existing resources.
- To provide students with problem solving skills to deal with technical issues and a strong background in ethics, safety, economics, information technology, leadership, management, inter-culture, and communication.

**What do Petroleum Engineers do?**

- Search for resources that contain oil and gas
- Once discovered they work with geologist to understand the formation and the characteristics of the rock that contains the oil and gas
- Determine the best drilling methods and perform the drilling and other methods such as fracturing to obtain optimum production
- Perform computer simulations for production optimization and field development
- Monitor production and processing
- Design equipment and processes to optimize production and enhanced recovery
- Apply Petroleum Engineering technologies to CO₂ sequestration
- Make all operations safe, smooth and environmentally healthy

**Curriculum**

*As required for ABET Accreditation*

- Mathematics, Physics and Chemistry
- Introduction to Petroleum Engineering
- Petrophysics
- Petroleum Fluid Properties
- Well Logging
- Drilling Engineering
- Production Engineering
- Petroleum Reservoir Engineering
- Petroleum Property Management
- Senior Design I and II
- Seminar I and II
- Technical electives – Petroleum geology, structural geology, environmental engineering, applied geophysics, geomechanics, sedimentology, stratigraphy, computer virtualization and information technologies

North Dakota Geological Survey’s Wilson M. Laird Core and Sample Library is located on UND Campus. The cores represent about 75% of the cores cut in the North Dakota portion of the Williston Basin.