In the Hildebrand Department of Petroleum and Geosystems Engineering, we are advancing sustainable oil and gas production technologies that power the world. With a long history of educating many of the industry’s leading innovators and top executives, we continue to provide students with extraordinary educational opportunities that equip them with the skills and experience necessary to succeed.

### Areas of Focus
- Drilling and Completions
- Enhanced Oil Recovery
- Formation Evaluation
- Integrated Reservoir Characterization
- Geologic Carbon Storage
- Hydraulic Fracturing and Reservoir Geomechanics
- Natural Gas Engineering
- Petrophysics and Pore Scale Processes
- Production Engineering
- Reservoir Engineering
- Reservoir Simulation
- Unconventional Resources

### 2017-18 Research Expenditures
$13.7 Million

### Recent Research Highlights
Professor Mukul Sharma has created the world’s largest database for multi-phase flow, ANNA, leading to better well productivity for industry.

The real-time drilling operations center developed by professor Eric van Oort analyzes data streamed from industry drilling rigs. By revealing drilling inefficiencies, the program could save corporate partners millions of dollars.

Assistant professor Hugh Daigle has developed a new technique for separating oil from water through magnetic nanoparticles to help clean up offshore oil spills.

### After Graduation

**Average Starting Salary**
$87,554

89 percent of undergraduates secure employment or immediately enroll in a graduate program after graduation.

One in 10 petroleum and geosystems engineering alumni serves in an executive-level position in industry.

### Preparing Students for Industry Success
At the First-Year Fall Retreat, students shake hands with industry representatives and meet their classmates before the semester begins. Upperclassmen mentors help new students achieve their academic goals during their first year on campus.

Each spring, the Freshman Professional Development Workshop Series connects first-year students with faculty and industry representatives to learn how to successfully find and obtain internships.

Two faculty members are launching a Norway Maymester Engineering Program in the summer of 2019. This course provides a unique opportunity to study energy and global culture in the midst of the stunning natural beauty of Norwegian fjords and mountains. Students will visit several sites during the course to see equipment and training facilities at prominent oil and gas companies.

Updated October 2018 based on current data