Oil and gas will continue to dominate the global energy mix for many decades. Accordingly, the technical skills and the operational know-how required to produce oil and gas in economical and environmentally responsible ways will continue to be in demand for generations.

Our department is currently the top-ranked undergraduate petroleum engineering school in the nation, and we have the reputation for educating the most readily employable graduates in the industry. Our students study a wide variety of disciplines, from technology to geosciences to economics, and a required internship experience reinforces this education with practical experience and provides networking opportunities for future employment.

**RANKINGS** (2022)
(U.S. News & World Report)

1st Undergraduate Program
2nd Graduate Program

**ENROLLMENT**
(Fall 2021 – Preliminary, 5th class day)

Undergraduate 333
Graduate 140

**DEGREES AWARDED**
(AY 2020-21 - Preliminary)

- B.S. 105
- M.E. 16
- M.S. 25
- PH.D. 22

**DIVERSITY**
(Undergraduate and Graduate)

23.5% International Students
76.5% Domestic Students

**FACULTY 2021**

41 Faculty, including:
- 19 Society of Petroleum Engineers Distinguished Members
- 6 Society of Petroleum Engineers Honorary Members
- 2 National Academy of Engineering Members

**FINANCIAL ASSISTANCE**

221 Undergraduate Scholarships Awarded in 2021-22
$930,050 Total Scholarship Amount

41 Graduate Fellowships Awarded in Fall 2021
$223,332 Total Fellowship Amount

engineering.tamu.edu/petroleum
DEGREES

- Bachelor of Science
- Master of Engineering (on campus and online)
- Master of Science
- Doctor of Philosophy

CERTIFICATES

**Petroleum Ventures Certificate** - awarded through the Graham Petroleum Ventures Program in collaboration with the Mays Business School

**Data Analytics for Petroleum Industry Certificate** - awarded through the department and coordinated by the Texas A&M Institute of Data Science

ENGINEERING HONORS

The Engineering Honors Program offers an academically enriched plan of study developed for exceptionally talented and motivated students.

FAST TRACK PROGRAM

If students are committed to earning a master's degree from our department, the Fast Track Program speeds up the process. Students can begin graduate studies at the end of their junior year and complete both the bachelor's and master's degrees within five years.

STUDENT ORGANIZATIONS

- SPE | Society of Petroleum Engineers
- AADE | American Association of Drilling Engineers
- IADC | International Association of Drilling Contractors
- Pi Epsilon Tau | National Honor Society of Petroleum Engineers

RESEARCH EXPENDITURES

$5.593M for the 2020 fiscal year

RESEARCH AREAS OF FOCUS

**Advanced Drilling Technologies**
Well Control, Optimized Drilling Performance, Horizontal Drilling, Dual Gradient Drilling, Applied Drilling, Offshore Drilling Risks

**Advanced Well Completion Technologies**
Downhole Diagnostic Measurements, Intelligent Completions, Wellbore Models, Oil and Gas Recovery, Fluid/Gas/Foam Behavior

**GeoEnergy Technologies**
Methane Hydrates, Geothermal Systems, Carbon Capture and Sequestration, Hydrogen Separation and Storage, Water Management

**Gas Hydrates**
Data Investigation, Crystal Growth, Behavior Modeling and Prediction, Gas Hydrate Systems

**Predictive Models for Unconventional Reservoirs**
Geologic, Fracture Propagation, Reservoir Simulation, Risk Assessment

**Reservoir Modeling**
Simulator Development, Optimization, Upscaling, Numerical Analysis

**Unconventional Reservoir Development and Assessment**
Pore-Scale Rock Physics, Diagnostic Technologies, Nanotechnologies

**Well Stimulation**
Hydraulic Fracturing Methods, Materials, Models, Matrix Acidizing, Acid Fracturing, Injections, Nanotechnology, Thermal Applications, Refracturing, Sand Transport