The Harold Vance Department of Petroleum Engineering at Texas A&M University is perennially one of the top petroleum engineering programs in the United States, and “I am an Aggie Petroleum Engineer” is the most respected, prestigious self-definition within the petroleum engineering profession.

Our mission is:
- to create, preserve, integrate, transfer and apply petroleum engineering knowledge; and
- to produce capable future engineers and to enhance the capabilities of current practitioners.

Our primary goals are to produce highly-qualified U.S. and international graduates, place these graduates into entry-level industry positions or graduate and professional programs, conduct world-class research in our field, and provide service to our profession and our industry.

Our undergraduate curriculum provides every student with a solid foundation in petroleum engineering fundamentals, but we also insist on experience in the industry through internships. As a result, our graduates enter the industry ready to be productive contributors. They also understand the need to continue to learn and improve their skills throughout their careers.

Our graduate programs stress continued education and specialization. The M.S. and Ph.D. programs offer opportunities to conduct original research, working closely with renowned faculty. The M.Eng. program allows accepted applicants to work on their degree from anywhere in the world through distance learning.

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**Ranking**

Among all institutions, per *U.S. News and World Report*
- Undergraduate program (2019) No. 2
- Graduate program (2018) No. 2

**Enrollment (2018-19)**
- Undergraduate 497
- Graduate 259
- College of Engineering 19,101
- Texas A&M University 68,416

**Diversity %**
- Female 17.3
- Hispanic 18.1
- Asian 7.6
- African American 1.5
- Multiracial 1.5
- International 24.4

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**Financial Assistance**

- Department undergraduate scholarships (232) $469,350
- Department graduate fellowships (17) $63,000

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**Degrees awarded Dec 2017-Aug 2018**

<table>
<thead>
<tr>
<th>Degree</th>
<th>2017-18</th>
<th>Cumulative since 1930</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor's</td>
<td>205</td>
<td>5462</td>
</tr>
<tr>
<td>Master's</td>
<td>80</td>
<td>1671</td>
</tr>
<tr>
<td>Ph.D.</td>
<td>28</td>
<td>408</td>
</tr>
</tbody>
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engineering.tamu.edu/petroleum
Faculty

University Distinguished Professors
Professors
Associate professors
Assistant professors
Lecturers
Professors of practice
Visiting professors
National Engineering Academy members
Society of Petroleum Engineers distinguished members

Research

Our 42 faculty members have considerable expertise, covering virtually all aspects of petroleum engineering research. Our funding comes from federal, state, industry, and other sources.

Research Focus Areas

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

Gas Hydrates
Data investigation, crystal growth, behavior modeling and prediction, gas hydrate systems

Prediction 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

Contact information:
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Research expenditures: Sept. 1, 2008-Aug. 31, 2018

Research expenditures: Millions of Dollars