

**HAROLD VANCE DEPARTMENT OF
PETROLEUM ENGINEERING**
TEXAS A&M UNIVERSITY

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.

Degrees awarded Dec 2017-Aug 2018		Cumulative degrees since 1930	
Bachelor's	205	Bachelor's	5462
Master's	80	Master's	1671
Ph.D.	28	Ph.D.	408

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**

Financial Assistance

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

Faculty

University Distinguished Professors	1
Professors	19
Associate professors	3
Assistant professors	5
Lecturers	3
Professors of practice	10
Visiting professors	1
National Engineering Academy members	3
Society of Petroleum Engineers distinguished members	23

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

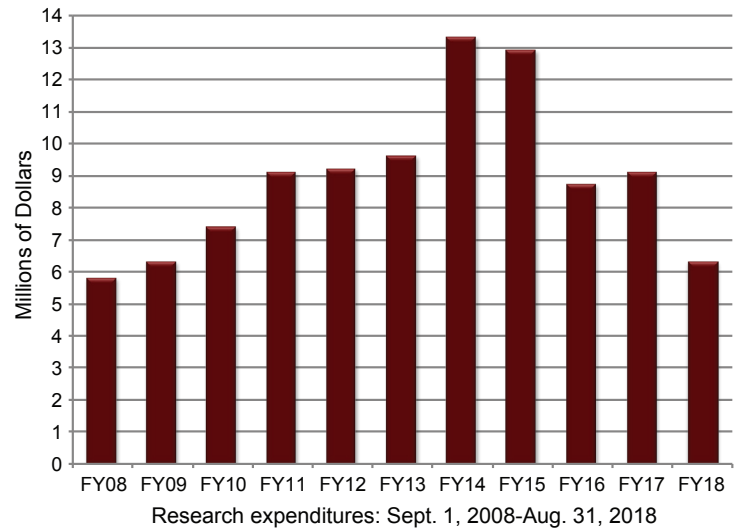
Simulator development, optimization, upscaling, numerical analysis

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



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