HAROLD VANCE DEPARTMENT OF PETROLEUM ENGINEERING

Petroleum Engineers provide the world with energy while safeguarding the environment. Petroleum Engineering is concerned primarily with the safe and economic extraction of oil, gas, and other natural resources from the earth. Oil and gas is produced through the design, drilling and operation of wells and well systems, and the integrated management of the underground reservoirs in which the resources are found.

The mission of the Petroleum Engineering Department is to create, preserve, integrate, transfer and apply petroleum engineering knowledge and to enhance the human capability of its practitioners. The Petroleum Engineering Program has two educational objectives:

- graduates will have the technical depth and breadth to be successful professionals early in their careers; and
- graduates will have the broad technical knowledge and soft skills needed to rise to positions of professional leadership.

In essence, the goal of the Petroleum Engineering curriculum is to provide a modern engineering education with proper balance between fundamentals and practice, and to graduate engineers capable of being productive contributors immediately who are also prepared for life-long learning. The curriculum includes study of:

- design and analysis of well systems and procedures for drilling and completing wells;
- characterization and evaluation of subsurface geological formations and their resources;
- design and analysis of systems for producing, injecting and handling fluids;
- application of reservoir engineering principles and practices for optimizing resource development and management; and
- use of project economics and resource valuation methods for design and decision making under conditions of risk and uncertainty.

There is a heavy emphasis on mathematics, computer applications, communication skills and interdisciplinary problem solving. As a result, Aggie petroleum engineers are in high demand in the industry, and their starting salaries are consistently among the top in the University and the nation.

The department is well known for its curriculum, facilities and faculty, and its undergraduate program is recognized as one of the top petroleum engineering programs in the United States. The faculty comprises more than 36 professors and lecturers, many of them widely known and globally involved in the petroleum industry. Three (3) of the faculty are members of the prestigious National Academy of Engineering, and 20 are Distinguished Members of the Society of Petroleum Engineers. The Bachelor of Science program is accredited by the Engineering Accreditation Commission of ABET, www.abet.org.

Students must work as interns within the Energy Industry. A minimum of one internship, six weeks of approved experience, is required for graduation. The department also participates in the Cooperative Education Program.

In addition to the Bachelor of Science degree in Petroleum Engineering, the department also offers both masters and doctoral degrees, including Master of Science, Master of Engineering, and Doctor of Philosophy (see the *Texas A&M University Graduate and Professional Catalog*).

The department offers a combined program designed to help students complete both a Bachelor's degree and a Master's degree within 5 years. For more information, please contact the advising office.

Before commencing course work in the major, students must be admitted to the major or have the approval of the department.

Faculty

Abedi, Sara, Associate Professor
Petroleum Engineering
PHD, University of Southern California, 2012

Akkutlu, I. Yucel, Professor
Petroleum Engineering
PHD, University of Southern California, 2002

Al-Mohannadi, Nasser Saqer L H, Professor of the Practice
Petroleum Engineering-Qatar Campus
PHD, Colorado School of Mines, 2004

AlMujalhem, Manayer, Assistant Professor
Petroleum Engineering-Qatar Campus
PHD, Texas A&M University, 2021

Alexander, Gia O, Lecturer
Petroleum Engineering
MA, Texas A&M University, 1991

Amani, Mahmood, Professor
Petroleum Engineering-Qatar Campus
PHD, Texas A&M University, 1997

Barrufet, Maria A, Professor
Petroleum Engineering
PHD, Texas A&M University, 1987

Bastian, Peter A, Professor of the Practice
Petroleum Engineering
MS, Texas A&M University, 1983

Blasingame, Thomas A, Professor
Petroleum Engineering
PHD, Texas A&M University, 1989

Dattagupta, Akhil, Professor
Petroleum Engineering
PHD, The University of Texas at Austin, 1992

Diyashev, Iskander Rasimovich, Professor of the Practice
Petroleum Engineering
PHD, Texas A&M University, 1998

Fadlelmula, Mohamed, Instructional Associate Professor
Petroleum Engineering-Qatar Campus
PHD, Middle East Technical University, 2012

Gildin, Eduardo, Professor
Petroleum Engineering
PHD, The University of Texas at Austin, 2006

Hascakir, Berna, Professor
Petroleum Engineering
PHD, Middle East Technical University, 2008

Hill, Alfred D, Professor
Petroleum Engineering
PHD, The University of Texas at Austin, 1978

Jin, Wencheng, Assistant Professor
Petroleum Engineering
PHD, Georgia Institute of Technology, 2018

Jochen, Valerie Ann, Professor of the Practice
Petroleum Engineering
PHD, Texas A&M University, 1994

Kim, Jihoon, Associate Professor
Petroleum Engineering
PHD, Stanford University, 2010

Kim, Kiseok, Assistant Professor
Petroleum Engineering
PHD, University of Illinois at Urbana Champaign, 2017

King, Michael J, Professor
Petroleum Engineering
PHD, Syracuse University, 1980

Laprea Bigott, Marcelo, Professor of the Practice
Petroleum Engineering
PHD, Texas A&M University, 1979

Lee, W. John, Professor
Petroleum Engineering
PHD, Georgia Institute of Technology, 1963

Maggard, Bryan, Senior Lecturer
Petroleum Engineering
PHD, Texas A&M University, 2000

McVay, Duane A, Professor
Petroleum Engineering
PHD, Texas A&M University, 1994

Meehan, D. Nathan, Professor
Petroleum Engineering
PHD, Stanford University, 1989

Mishra, Srikanta, Research Professor
Petroleum Engineering
PHD, Stanford University, 1987

Misra, Siddharth, Professor
Petroleum Engineering
PHD, The University of Texas at Austin, 2015

Moridis, George J, Professor
Petroleum Engineering
PHD, Texas A&M University, 1987

Nascentes Alves, Ibere, Professor of the Practice
Petroleum Engineering
PHD, University of Tulsa, 1991

Nasrabadi, Hadi, Associate Professor
Petroleum Engineering
PHD, Imperial College London, United Kingdom, 2006

Noynaert, Samuel F, Associate Professor of the Practice
Petroleum Engineering
PHD, Texas A&M University, 2013

Okoroafor, Rita, Assistant Professor
Petroleum Engineering
PHD, Stanford University, 2021

Retnanto, Albertus, Professor of the Practice
Petroleum Engineering-Qatar Campus
PHD, Texas A&M University, 1998

Rodrigues De Paula Lima, Heitor, Professor of the Practice
Petroleum Engineering
PHD, Texas A&M University, 1998

Samouei, Hamidreza, Research Assistant Professor
Petroleum Engineering
PHD, Shiraz Univeristy, 2011

Seers, Thomas D, Associate Professor
Petroleum Engineering-Qatar Campus
PHD, University of Manchester, 2016

Shor, Roman J, Associate Professor
Petroleum Engineering
PHD, University of Texas, 2016

Sliva, Catherine A, Associate Professor of the Practice
Petroleum Engineering
BS, Texas A&M University, 1980

Sliva, Glenn M, Associate Professor of the Practice
Petroleum Engineering
BS, Texas A&M University, 1981

Spath, Jeffrey B, Professor
Petroleum Engineering
PHD, Mining University of Leoben, Austria, 1996

Voneiff, George W, Professor of the Practice
Petroleum Engineering
MS, Texas A&M University, 1992

Wu, Kan, Professor
Petroleum Engineering
PHD, The University of Texas at Austin, 2014

Younis, Rami M, Associate Professor
Petroleum Engineering
PHD, Stanford University, 2011

Zhu, Ding, Professor
Petroleum Engineering
PHD, The University of Texas at Austin, 1992

Majors

- Bachelor of Science in Petroleum Engineering (https://catalog.tamu.edu/undergraduate/engineering/petroleum/bs/)

Certificates

- Data Analytics for Petroleum Industry Certificate (https://catalog.tamu.edu/undergraduate/engineering/petroleum/data-analytics-petroleum-industry-certificate/)
- Petroleum Ventures Certificate (https://catalog.tamu.edu/undergraduate/engineering/petroleum/petroleum-ventures-certificate/)