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 34 professors and lecturers, many of them widely known and globally involved in the petroleum industry. Two (2) of the faculty are members of the prestigious National Academy of Engineering, and 17 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 Mashhadimighani, Sara, Associate Professor Petroleum Engineering PHD, University of Southern California, 2012

Akkutlu, Ibrahim Y, Professor Petroleum Engineering PHD, University of Southern California, 2002

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

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

Alyafei, Nayef M, Associate Professor Petroleum Engineering-Qatar Campus PHD, Imperial College London, United Kingdom, 2015

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

Banerjee, Debjyoti, Professor Petroleum Engineering PHD, University of California at Los Angeles, 1999

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, University Distinguished Professor and Regents Professor Petroleum Engineering

PHD, The University of Texas at Austin, 1992

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

Elbashir, Nimir O, Professor Petroleum Engineering-Qatar Campus PHD, Auburn University, 2004 Fadlelmula, Mohamed, Instructional Assistant Professor Petroleum Engineering-Qatar Campus

PHD, Middle East Technical University, 2012

Gildin, Eduardo, Professor Petroleum Engineering

PHD, The University of Texas at Austin, 2006

Hasan, Abu Rashid, Research Professor

Petroleum Engineering

PHD, University of Waterloo, 1979

Hascakir, Berna, Associate Professor

Petroleum Engineering

PHD, Middle East Technical University, 2008

Hill, Alfred D, Regents Professor

Petroleum Engineering

PHD, The University of Texas at Austin, 1978

Jochen, John E, Senior Lecturer Petroleum Engineering

MS, Texas A&M University, 1993

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

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, William J, Regents Professor

Petroleum Engineering

PHD, Georgia Institute of Technology, 1963

Liang, Jenn T, Professor Petroleum Engineering

PHD, The University of Texas at Austin, 1988

Maggard, Bryan, Senior Lecturer

Petroleum Engineering

PHD, Texas A&M University, 2000

McVay, Duane A, Professor Petroleum Engineering

PHD, Texas A&M University, 1994

Medina Cetina, Zenon, Associate Professor

Petroleum Engineering

PHD, John Hopkins University, 2007

Misra, Siddharth, Associate 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, Esuru, Assistant Professor

Petroleum Engineering

PHD, Stanford University, 2021

RABBANI, HARRIS SAJJAD, Engineering Assistant Professor

Petroleum Engineering-Qatar Campus PHD, University of Manchester, 2018

Rahman, Mohammad A, Associate Professor Petroleum Engineering-Qatar Campus PHD, University of Alberta, 2010

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

Seers, Thomas D, Engineering Assistant Professor

Petroleum Engineering-Qatar Campus PHD, University of Manchester, 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

Suarez-Rivera, Roberto, Adjunct Professor

Petroleum Engineering

PHD, University of California - Berkeley, 1992

Sun, Yuefeng, Professor Petroleum Engineering PHD, Columbia University, 1994

Von Gonten, William, Adjunct Professor

Petroleum Engineering

BS, Texas A&M University, 1988

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

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

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

Majors

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

Minors

 Petroleum Engineering Minor (http://catalog.tamu.edu/ undergraduate/engineering/petroleum/minor/)

Certificates

- Data Analytics for Petroleum Industry Certificate (http://catalog.tamu.edu/undergraduate/engineering/petroleum/data-analytics-petroleum-industry-certificate/)
- Energy Engineering Certificate (http://catalog.tamu.edu/ undergraduate/engineering/petroleum/energy-engineeringcertificate/)
- Petroleum Ventures Certificate (http://catalog.tamu.edu/ undergraduate/engineering/petroleum/petroleum-venturescertificate/)