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 was recognized as one of the top petroleum engineering programs in the United States. The faculty comprises more than 41 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 21 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 during the summer months; a minimum of 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).

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, Assistant Professor
  Petroleum Engineering
  PHD, University of Southern California, 2012

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

- Banerjee, Debjyoti, Professor
  Petroleum Engineering
  PHD, University of California, 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, Distinguished Professor
  Petroleum Engineering
  PHD, University of Texas, 1992

- Gildin, Eduardo, Associate Professor
  Petroleum Engineering
  PHD, University of Texas, 2006

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

- Hill, Alfred D, Professor
  Petroleum Engineering
  PHD, University of Texas, 1978

- Holditch, Stephen A, Professor
  Petroleum Engineering
  PHD, Texas A&M University, 1976

- 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

- Killough, John E, Professor
  Petroleum Engineering
  PHD, Rice University, 1986

- Kim, Jihoon, Assistant 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, 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

McCain Jr, William D, Visiting Professor
Petroleum Engineering
PHD, Georgia Institute of Technology, 1964

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

Medina Cetina, Zenon, Associate Professor
Petroleum Engineering
PHD, John Hopkins University, 2007
PHD, Johns Hopkins University, 2007

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

Morita, Nobuo, Professor
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PHD, The University of Texas at Austin, 1974

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

Nasr-El-Din, Hisham A, Professor
Petroleum Engineering
PHD, University of Saskatchewan, 1984

Nasrabadi, Hadi, Assistant Professor
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PHD, Imperial College London, United Kingdom, 2006

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Petroleum Engineering
PHD, Texas A&M University, 2013

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

Schechter, David S, Professor
Petroleum Engineering
PHD, Brisol University, United Kingdom, 1989

Schubert, Jerome J, Associate Professor
Petroleum Engineering
PHD, Texas A&M University, 1999

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

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

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

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

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

Weijermars, Rudy, Professor
Petroleum Engineering
PHD, University of Uppsala, 1987

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

Zhu, Ding, Professor
Petroleum Engineering
PHD, University of Texas, 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**

- Energy Engineering Certificate (http://catalog.tamu.edu/undergraduate/engineering/petroleum/energy-engineering-certificate)
- Petroleum Ventures Certificate (http://catalog.tamu.edu/undergraduate/engineering/petroleum/petroleum-ventures-certificate)