

# PETROLEUM ENGINEERING PROGRAM

Petroleum engineering is primarily concerned with the safe and economic extraction of oil, gas and other natural resources from the earth. This is accomplished through drilling, completions, and operation of wells while considering safety of personal and the natural environment. The field of petroleum engineering also covers the management of subsurface reservoirs in which the resources are found.

## Program Mission

The mission of the Petroleum Engineering Program at Texas A&M at Qatar is to create, preserve, integrate, transfer and apply petroleum engineering knowledge, and to produce capable future engineers and enhance the capabilities of current practitioners. The curriculum includes study of:

- Characterization and evaluation of subsurface geological formations and their resources.
- Application of reservoir engineering principles and practices for optimizing resource development and management.
- Procedures for drilling and completing wells and design and analysis of well systems.
- Design and analysis of systems for producing, injecting and handling fluids.
- Use of project economics, safety, 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. The department encourages students to work as interns during the summer months. A minimum of six weeks of approved experience is required for graduation.

## Program Educational Objectives

The Program Educational Objectives of the Petroleum Engineering Program are to produce graduates who will be, within a few years of graduation:

1. Effective engineers that continue to develop personally and professionally into prospective leaders; and,
2. Successful in demonstrating their obligations to the profession and the society.

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

The undergraduate program in Petroleum Engineering at Texas A&M at Qatar is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>.

## 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  
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  
PHD, Imperial College London, United Kingdom, 2015

Amani, Mahmood, Professor  
Petroleum Engineering-Qatar  
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  
PHD, Auburn University, 2004

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

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

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Petroleum Engineering  
PHD, University of Waterloo, 1979

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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, Ibero, 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, Research Assistant Professor  
Petroleum Engineering-Qatar  
PHD, University of Manchester, 2018

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

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

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

Schechter, David S, Professor  
Petroleum Engineering  
PHD, University of Bristol, 1989

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

Seers, Thomas D, Research Assistant Professor  
Petroleum Engineering-Qatar  
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/qatar/petroleum-engineering-program/petroleum-engineering-bs/>)

## Minors

- Natural Gas Production and Processing Minor (<http://catalog.tamu.edu/undergraduate/qatar/natural-gas-production-processing-minor/>)
- Petroleum Engineering Minor (<http://catalog.tamu.edu/undergraduate/engineering/petroleum/minor/>)