ARTIE MCFERRIN
DEPARTMENT OF CHEMICAL
ENGINEERING

Chemical engineering is a broad field of engineering and thus requires a diverse preparation in science and engineering. Distinguishing chemical engineering from other engineering disciplines is its use of chemical and biochemical reactions to produce products and materials for society. Traditionally, chemical engineers have provided leadership in the petrochemical, refining, chemical, polymer, and food processing industries. Because of strengths in the foundation sciences of mathematics, chemistry, physics and biology, as well as in engineering, this leadership role has now extended to the biochemical, biomedical, high-tech materials, semi-conductor and microelectronics, nanotechnology, environmental quality, safety, and a host of other areas. Chemical engineers have consistently commanded starting salaries among the highest of all college graduates because of the combined breadth and depth of their education.

The mission of the Artie McFerrin Department of Chemical Engineering at Texas A&M is to educate and prepare students for national and international leadership roles in industry, government, and academia; to attract top students to chemical engineering; to define and develop new directions in chemical engineering fundamentals and practices, and in chemical engineering education and curricula; to be a valuable resource and service base to the State and to industry; and to provide leadership in solving problems of social and economic importance.

Objectives of the chemical engineering program are that

1. graduates will have successful chemical engineering careers in industry, academia or government,
2. graduates will obtain, apply and transfer knowledge across disciplines and into emerging areas of chemical engineering and related fields,
3. graduates will communicate effectively, be leaders in their fields and work competently in interdisciplinary teams, and
4. graduates will be professionally responsible and ethical and engage in professional activities to impact the society on a global scale.

To supplement coursework, well-equipped laboratories provide our students with experiences in operating and analyzing a variety of unit operations and process control equipment and in the use of the modern computational tools and software used in chemical engineering. The department offers vibrant undergraduate research, co-op and study abroad programs that provide students with additional enrichment and experiential opportunities.

The undergraduate program in Chemical Engineering at Texas A&M University is accredited by the Engineering Accreditation Commission of ABET, www.abet.org, and compares favorably with the best in the nation.

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

Faculty

Abdalla, Ahmed A, Professor
Chemical Engineering
PHD, North Carolina State University, 2001

Abdel-Wahab, Ahmed I, Professor
Chemical Engineering
PHD, Texas A&M University, 2003

Akbulut, Mustafa, Associate Professor
Chemical Engineering
PHD, University of California at Santa Barbara, 2007

Al-Mohannadi, Dhabia, Research Assistant Professor
Chemical Engineering
PHD, Texas A&M University, 2019

Al-Rawashdeh, Ma'moun, Research Assistant Professor
Chemical Engineering
PHD, Technical University of Eindhoven, Netherlands, 2013

Al-Sowidi, Khalifa, Professor of the Practice
Chemical Engineering
BEN, Arizona State University, 1984

Alam, Mohammad, Lecturer
Chemical Engineering
PHD, University of Hong Kong, 1999

Aydogmus, Turkan, Associate Professor Of The Practice
Chemical Engineering
PHD, Texas A&M University, 2004

Balbuena, Perla B, Professor
Chemical Engineering
PHD, The University of Texas at Austin, 1996

Barteau, Mark A, Professor
Chemical Engineering
PHD, Stanford University, 1981

Blizzard, Gary Edward, Senior Lecturer
Chemical Engineering
MBA, The University of Texas at Austin, 2000

Djire, Abdoulaye, Assistant Professor
Chemical Engineering
PHD, University of Michigan, 2016

Economou, Ioannis, Professor
Chemical Engineering
PHD, Johns Hopkins University, 1993

El-Halwagi, Mahmoud M, Professor
Chemical Engineering
PHD, University of California at Los Angeles, 1990

Elbashir, Nimir O, Professor
Chemical Engineering
PHD, Johns Hopkins University, 2001

Elbashir, Nimir O, Professor
Chemical Engineering
PHD, Auburn University, 2004
Gagnon, Zachary, Associate Professor
Chemical Engineering
PHD, University of Notre Dame, 2009

Green, Micah, Professor
Chemical Engineering
PHD, Massachusetts Institute of Technology, 2007

Hasan, M M Faruque, Associate Professor
Chemical Engineering
PHD, National University of Singapore, 2010

Hilaly, Ahmad K, Professor of the Practice
Chemical Engineering
PHD, Colorado State University, 1992

Holtzapple, Mark T, Professor
Chemical Engineering
PHD, University of Pennsylvania, 1981

Isdale, Charles E, Senior Lecturer
Chemical Engineering
MBA, Southern Illinois University at Edwardsville, 1977

Jayaraman, Arul, Professor
Chemical Engineering
PHD, University of California at Irvine, 1998

Jeong, Hae-Kwon, Professor
Chemical Engineering
PHD, University of Minnesota, 2004

Kakosimos, Konstantinos E, Associate Professor
Chemical Engineering
PHD, Aristotle University, 2009

Khan, Faisal, Professor
Chemical Engineering
PHD, Pondicherry University, 1998

Kravaris, Costas, Professor
Chemical Engineering
PHD, California Institute of Technology, 1984

Kuo, Yue, Professor
Chemical Engineering
PHD, Columbia University, 1980

Kwon, Joseph, Associate Professor
Chemical Engineering
PHD, University of California at Los Angeles, 2015

Lele, Pushkar P, Associate Professor
Chemical Engineering
PHD, University of Delaware, Newark, 2010

Linke, Patrick, Professor
Chemical Engineering
PHD, University of Manchester Institute of Science and Technology, 2001

Lutkenhaus, Jodie L, Professor
Chemical Engineering
PHD, Massachusetts Institute of Technology, 2007

Malave, Ceasar, Professor
Chemical Engineering
PHD, University of South Florida, 1987

Mashuga, Chad V, Assistant Professor
Chemical Engineering
PHD, Michigan Technological University, 1999

Mittal, Jeetain, Professor
Chemical Engineering
PHD, The University of Texas at Austin, 2007

Nounou, Mohamed N, Professor
Chemical Engineering
PHD, Ohio State University, 2000

Pehlivan, Hatice, Senior Lecturer
Chemical Engineering
MS, Izmir Institute of Technology, 2013

Pistikopoulos, Efstratios, Professor
Chemical Engineering
PHD, Carnegie Mellon University, 1988

Reeves, Gregory, Associate Professor
Chemical Engineering
PHD, Princeton University, 2008

Rodden, John, Professor of the Practice
Chemical Engineering
PHD, Texas A&M University, 1988

Salama, Ghada H, Instructional Professor
Chemical Engineering
PHD, Cairo University, 2001

Seminario, Jorge M, Professor
Chemical Engineering
PHD, Southern Illinois University Carbondale, 1987

Sentmanat, Martin, Professor of the Practice
Chemical Engineering
PHD, McGill University, 1995

Shetty, Manish, Assistant Professor
Chemical Engineering
PHD, Massachusetts Institute of Technology, 2017

Sun, Qing, Assistant Professor
Chemical Engineering
PHD, University of Delaware, 2010

Tamamis, Phanourios, Associate Professor
Chemical Engineering
PHD, University of Cyprus, 2010

Tseregounis, Spyros, Professor of the Practice
Chemical Engineering
PHD, University of California at Los Angeles, 1984
Ugaz, Victor, Professor
Chemical Engineering
PHD, Northwestern University, 1999

Vaddiraju, Sreeram, Associate Professor
Chemical Engineering
PHD, University of Louisville, 2006

Vechot, Luc N, Associate Professor
Chemical Engineering
PHD, Ecole Nationale Superieure des Mines de Saint Etienne, France, 2007

Wang, Qingsheng, Associate Professor
Chemical Engineering
PHD, Texas A&M University, 2010

Wilhite, Benjamin A, Associate Professor
Chemical Engineering
PHD, University of Notre Dame, 2003

Woodard, Susan, Senior Lecturer
Chemical Engineering
PHD, Colorado State University, 1992

Wu, Hung-Jen, Associate Professor
Chemical Engineering
PHD, Texas A&M University, 2006

Zhu, Xuejun, Assistant Professor
Chemical Engineering
PHD, University of California, Berkeley, 2017

**Majors**

- Bachelor of Science in Chemical Engineering (http://catalog.tamu.edu/undergraduate/engineering/chemical/bs/)

**Minors**

- Chemical Engineering Minor (http://catalog.tamu.edu/undergraduate/engineering/chemical/minor/)

**Certificates**

- Engineering Therapeutics Manufacturing Certificate (http://catalog.tamu.edu/undergraduate/engineering/chemical/therapeutics-manufacturing-certificate/)
- Safety Engineering Certificate (http://catalog.tamu.edu/undergraduate/engineering/chemical/safety-engineering-certificate/)