

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-Qatar Campus
PHD, North Carolina State University, 2001

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PHD, Columbia University, 1980

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PHD, University of South Florida, 1987

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

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Seminario, Jorge M, Professor
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Vaddiraju, Sreeram, Associate Professor
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PHD, Ecole Nationale Supérieure des Mines de Saint Etienne, France, 2007

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Wu, Hung-Jen, Associate Professor
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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/>)