Teaching & Lifelong Learning

Undergraduate degree programs accredited by the Engineering Accreditation Commission of ABET
- chemical engineering
- electrical & computer engineering
- mechanical engineering
- petroleum engineering

Master’s program in chemical engineering established in 2011

Same high standards and curricula as main campus, with classes taught in English in a co-educational setting

Emphasis on student global experiences, with strong collaborative programs with main campus

Many graduates have been accepted into elite graduate schools, including:
- Stanford
- MIT
- Georgia Tech
- Imperial College
- Cambridge
- Caltech
- Texas A&M University
- Texas A&M University

Research

10 patents awarded, 81 total invention disclosures and 105 total patent applications

125 active research projects, and $256 million in total cumulative project funding (2008-2018)

Collaborative partnerships with local industry, including:
- ExxonMobil
- RasGas
- ORYX GTL
- Oxy Qatar
- Ooredoo
- RasGas
- KAHRAMAA
- QAPCO
- QAFCO
- Qatar Shell
- Ashghal, Public Works Authority

Many of these companies and others use our state-of-the-art Technical Services facilities and expertise that are available nowhere else in the region

Sharing leading-edge research and knowledge through conferences, workshops and seminars/short courses, including:
- Qatar Process Safety Symposium
- QAFCO–Texas A&M University at Qatar Conference
- Materials Science & Engineering Symposium
- Liberal Arts International Conference
- Research and Industry Partnership Showcase

The Center for Teaching & Learning is transforming engineering education in Qatar by providing teaching innovation & faculty training, supporting student academic success and offering student development

Centers of Excellence
- TEES Gas & Fuels Research Center
- Texas A&M at Qatar Advanced Scientific Computing Center
- TEES Smart Grid Center Extension in Qatar
- TEES Center for Remote Health Technologies and Systems Extension in Qatar
- TEES Mary Kay O’Connor Process Safety – Qatar
- Qatar Sustainable Water & Energy Utilization Initiative

“When I was studying, I noticed there weren’t many women professors. I thought I could change that. I want to be a woman working in science in Qatar. I want to be an asset instead of a number.”

— Dhabia Al-Mohannadi ’12, assistant professor of chemical engineering
Engagement

STEM engagement
Partnering with Occidental Petroleum Qatar (Oxy Qatar) to attract students to pathways in science and engineering to develop the technical workforce Qatar needs to meet its future goals
- Engineering Heroes Drone Camp & QSI: Qatar Science Investigators
- Summer Engineering Academy
- Future Engineers
- Engineering Explorers
- Qatar Invents
- App Camp
- Young Engineers & Scientists

Training STEM teachers to better prepare students for the rigors of an engineering education

Offered STEM activities to 18,350+ visitors during Qatar Foundation’s 2018 Qatar National Day tent

Organizational Excellence

Texas A&M at Qatar’s faculty members are known for excellence in education and research. Faculty excellence is a driving contributor to Texas A&M at Qatar’s efforts to cultivate a new generation of engineering leaders who will have a direct impact on the State of Qatar’s growth and development, as well as Qatar’s evolution into a knowledge-based economy.

Faculty members who are fellows of professional societies:
- Dr. Haitham Abu-Rub — Institute for Electrical & Electronics Engineers
- Dr. Hassan S. Bazzi — Royal Society of Chemistry
- Dr. Troy Bickham — Royal Historical Society
- Dr. Ali Ghazyeb — Institute for Electrical & Electronics Engineers
- Dr. Ibrahim Hassan — American Society of Mechanical Engineers
- Dr. Tingwen Huang — Institute for Electrical & Electronics Engineers
- Dr. Mansour Karkoub — American Society of Mechanical Engineers
- Dr. César Malavé — Institute of Industrial & Systems Engineers
- Dr. Eyad Masad — American Society of Civil Engineers
- Dr. Vijay Panchang — American Society of Civil Engineers
- Dr. Erchin Serpedin — Institute for Electrical & Electronics Engineers
- Dr. Arun Srinivasa — Society of Engineering Science, American Society of Mechanical Engineers
- Dr. Reza Tafreshi — American Society of Mechanical Engineers

Enhancing the workforce in Qatar
As Qatar’s industrial and commercial sectors adapt to rapidly shifting market forces, Texas A&M at Qatar is uniquely positioned to offer customized advanced training and professional development tailored to meet industry needs and taught by faculty experts. Topics include:
- Process safety
- Loss prevention
- Risk assessment
- Best practices
- Power systems
- Supply chain
- Project management

22 people attended modules in the new Fundamentals of Cybersecurity certificate program, including participants from Qatar News Agency.

129 professionals from 29 companies benefited from 13 continuing education courses in 2018

Dean’s Inclusive Excellence Leadership Academy
Established in Fall 2017, the Dean’s Inclusive Excellence Leadership Academy aims to elevate staff to take leadership roles to build a more efficient, effective and resilient organization. Each fall, high-achieving staff members are selected to participate in the academy, which provides training, professional development and opportunities for high-impact contributions to organizational excellence.
Texas A&M at Qatar is creating cutting-edge solutions to real-world challenges with the power to revolutionize key industries and sharing expertise across industries and around the globe. Texas A&M at Qatar’s Centers of Excellence provide unique opportunities for scientific and technical exchanges, bringing world-class expertise to Qatar and sharing locally created knowledge with other parts of the world. Texas A&M at Qatar leads integrated research activities and leverages multidisciplinary expertise to solve complex challenges.

Centers of Excellence

TEES Gas & Fuels Research Center
Advancing natural gas exploration, production, treatment and processing, Qatar is home to some of the most significant gas resources on the planet, including the largest liquefied natural gas and gas-to-liquids plants in the world, and to an integrated supply chain of cleaner energy sources in addition to value-added chemicals and ultra-clean fuels. The center aims to be the definitive repository of knowledge in gas and fuels research, and to incubate new technologies.

TEES Smart Grid Center Extension in Qatar
Advancing environmental development through smarter use of renewable energy in Qatar and worldwide. The center is partnering with local industry to address the grand challenge of securing Qatar’s energy future by integrating renewable energy resources such as solar and wind energy into the smart grid.

TEES Center for Remote Health Technologies & Systems Extension in Qatar
Advancing remote health care technologies and systems such as state-of-the-art informatics systems, genomics, diagnostic and micro/nanosensing technologies to make it easier to link people to health care providers and to enable patients to receive timely, personalized care no matter how remote their locations.

TEES Mary Kay O’Connor Process Safety Center – Qatar
Providing sound science-based counsel; developing and disseminating best practices through consulting and short courses; providing benchmarking for process safety management systems and practices; and conducting research – all in the name of preventing future accidents.

Qatar Sustainable Water & Energy Utilization Initiative
Addressing sustainable water, environment and energy issues relevant to the Qatar. The initiative aims to be the center of scientific and technical excellence for high-impact research and development; human capacity building; scientific and technical advising; and public awareness campaigns on environmental sustainability and sustainable water and energy utilization.

Texas A&M at Qatar Advanced Scientific Computing Center
Tackling complex problems in science, engineering and industry. Locally, TASC aims to contribute to implementation of the Qatar National Research Strategy in the field of computational science and its applications, such as materials science, computational chemistry, medical physics, system biology and high-performance computing. Internationally, TASC links with international supercomputing and computational centers.