The Department of Chemical Engineering offers three graduate degrees: Doctor of Philosophy (PhD), Master of Science (MS), and Master of Engineering (MEng). The PhD and MS degree programs include a significant research component in addition to graduate coursework. Information about specific departmental requirements for coursework and examinations is available upon request from the graduate advisor and on our website: http://engineering.tamu.edu/chemical.

Some of the research areas available within the department include: advanced materials, applied fluid mechanics and transport phenomena, catalysis, kinetics and reaction engineering, microelectronics and plasma processing, nanotechnology, polymers, process modeling and control, process optimization, process safety and design, systems biology, thermodynamics, and molecular simulation. Modern equipment is available in numerous laboratories to perform research in these and other areas.

There is no foreign language requirement for the PhD program in chemical engineering.

Faculty

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

Balbuena, Perla B, Professor
Chemical Engineering
PhD, University of Texas, 1996

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

Cheng, Zheng Dong, Professor
Chemical Engineering
PhD, Princeton University, 1999

Cochrum, Alan M, Lecturer
Chemical Engineering
PhD, University of Texas at Arlington, 2015

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

Elabd, Yossef A, Professor
Chemical Engineering
PhD, Johns Hopkins University, 2001

Gagnon, Zachary, Associate Professor
Chemical Engineering
PhD, University of Notre Dame, 2009

Glover, Charles J, Senior Professor
Chemical Engineering
PhD, Rice University, 1975

Green, Micah, Associate Professor
Chemical Engineering
PhD, Massachusetts Institute of Technology, 2007

Harris, James E, Professor of the Practice
Chemical Engineering
PhD, University of Texas, Austin, 1981

Hasan, M M Faruque, Assistant Professor
Chemical Engineering
PhD, National University of Singapore, 2010

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

Holste, James C, Senior Professor
Chemical Engineering
PhD, Iowa State University, 1973

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

Jayaraman, Arul, Professor
Chemical Engineering
PhD, University of California, Irvine, 1998

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

Kao, Katy C, Associate Professor
Chemical Engineering
PhD, University of California, Los Angeles, 2005

Karim, Muhammad N, Professor
Chemical Engineering
PhD, University of Manchester, 1977

Khosravianghadikolaei, Homa, Research Assistant Professor
Chemical Engineering
PhD, University of Illinois at Chicago, 2013

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

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

Kwon, Joseph, Assistant Professor
Chemical Engineering
PhD, University of California, Los Angeles, 2015
Lele, Pushkar P, Assistant Professor
Chemical Engineering
PHD, University of Delaware, Newark, 2010

Lutkenhaus, Jodie L, Associate Professor
Chemical Engineering
PHD, University of Notre Dame, 2003

Mannan, Mahboobul, Professor
Chemical Engineering
PHD, University of Oklahoma, 1986

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

Menon, Rani, TEES Assistant Research Scientist
Chemical Engineering
PHD, The University of Mississippi, 2011

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

Raftery, Jonathan P, Lecturer
Chemical Engineering
PHD, Texas A&M University, 2018
PHD, Texas A&M University, 2017

Rogers, William J, Lecturer
Chemical Engineering
PHD, Ohio State University, 1976

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

Shahrashoob, Zahra, Lecturer
Chemical Engineering
PHD, University of Oklahoma, 2018

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

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

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

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

Wilson, Christin M, Lecturer
Chemical Engineering
PHD, The Ohio State University, 2012

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

---

**Masters**

• Master of Engineering in Chemical Engineering (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/chemical/meng)

• Master of Science in Chemical Engineering (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/chemical/ms)

**Doctoral**

• Doctor of Philosophy in Chemical Engineering (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/chemical/phd)

**Certificates**

• Engineering Therapeutics Manufacturing Certificate (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/chemical/engineering-therapeutics-manufacturing-certificate)