The graduate program in mechanical engineering is designed to offer a choice in curriculum depending upon career objectives. Students interested in leading cutting-edge research, teaching, creating new knowledge, or some combination of those activities may follow the Master of Science and Doctor of Philosophy route. Those interested in practicing engineering at an advanced level in government or industry may pursue the Master of Engineering in Mechanical Engineering. Students are able to tailor an individual program consistent with a degree choice and focus area of their interest.

Each mechanical engineering graduate course is designed to provide a clear presentation of the underlying principles and theories essential to an understanding of the subject. Analytical and experimental techniques are described when required to apply the subject material to modern problems facing the engineers of today. In many cases, the course material supplements active research in mechanical engineering areas currently conducted at Texas A&M and other prominent research centers around the world. Active research facilities are available for advanced manufacturing, biomechanics, design, plastics engineering, artificial intelligence, robotics, non-destructive testing, fracture testing, metallurgical studies, experimental stress analysis, vibrations and rotating machinery, turbomachinery, fluid dynamics, power generation, combustion, in situ lignite gasification, heat transfer, energy management, corrosion, solar energy and wind tunnel studies.

**Faculty**

- Albakri, Mohammad, Assistant Professor
  Mechanical Engineering-Qatar
  PHD, Virginia Polytechnic Institute and State University, 2016

- Allaire, Douglas L, Associate Professor
  Mechanical Engineering
  PHD, Massachusetts Institute of Technology, 2009

- Amiri, Ahmad, Research Assistant Professor
  Mechanical Engineering
  PHD, Texas A&M, 2022
  PHD, Texas A&M University, 2022
  PHD, University of Malaya, 2017

- Anand, Nagamangala, Regents Professor
  Mechanical Engineering
  PHD, Purdue University, 1983

- Antao, Dion S, Assistant Professor
  Mechanical Engineering
  PHD, Drexel University, 2013

- Balas, Mark, Professor
  Mechanical Engineering
  PHD, University of Denver, 1974

- Balawi, Shadi Omar, Instructional Associate Professor
  Mechanical Engineering
  PHD, University of Cincinnati, 2007

- Bandyopadhyay, Arkasama, Research Assistant Professor
  Mechanical Engineering
  PHD, University of Texas Austin, 2020

- Banerjee, Debijoti, Professor
  Mechanical Engineering
  PHD, University of California at Los Angeles, 1999

- Benjamin, Chandler C, Research Assistant Professor
  Mechanical Engineering
  PHD, University of Wisconsin, Madison, 2017

- Borazjani, Iman, Associate Professor
  Mechanical Engineering
  PHD, University of Minnesota, 2008

- Charoenphol, Phapanin, Instructional Assistant Professor
  Mechanical Engineering
  DEN, University of Michigan, 2012

- Claridge, David E, Professor
  Mechanical Engineering
  PHD, Stanford University, 1976

- Cope, Dale A, Associate Professor of the Practice
  Mechanical Engineering
  PHD, Wichita State University, 2002

- Corleto, Carlos Roberto, Professor of the Practice
  Mechanical Engineering
  PHD, Texas A&M University, 1990

- Darbha, Swaroop V, Professor
  Mechanical Engineering
  PHD, University of California at Berkeley, 1994

- El Borgi, Sami, Professor
  Mechanical Engineering-Qatar
  PHD, Cornell University, 1993

- Elliott, Matthew, Instructional Associate Professor
  Mechanical Engineering
  PHD, Texas A&M, 2013

- Erdemir, Ali, Professor
  Mechanical Engineering
  PHD, Georgia Institute of Technology, 1986

- Felts, Jonathan R, Associate Professor
  Mechanical Engineering
  DEN, University of Illinois Urbana Champaign, 2013

- Gao, Wei, Associate Professor
  Mechanical Engineering
  PHD, University of Texas, 2014
  PHD, University of Texas at Austin, 2014

- Gopalswamy, Swaminathan, Professor of the Practice
  Mechanical Engineering
  PHD, University of California, 1991
Grunlan, Jaime C, Professor  
Mechanical Engineering  
PHD, University of Minnesota, 2001

Guo, Bing, Associate Professor  
Mechanical Engineering-Qatar  
PHD, Tsinghua University, China, 1998

Haglund, John S, Instructional Associate Professor  
Mechanical Engineering  
PHD, Texas A&M University, 2003

Han, Je C, Distinguished Professor  
Mechanical Engineering  
PHD, Massachusetts Inst of Technology, 1977

Hasnain, Zohaib, Assistant Professor  
Mechanical Engineering  
PHD, University of Maryland, 2014

Hassan, Ibrahim, Professor  
Mechanical Engineering  
PHD, Manitoba University, 1995

Hassan, Yassin A, University Distinguished Professor and Regents Professor  
Mechanical Engineering-Qatar  
PHD, University of Illinois, 1980

Hipwell, M Cynthia, Professor  
Mechanical Engineering  
PHD, University of California at Berkeley, 1996

Hogan, Harry A, Professor  
Mechanical Engineering  
PHD, Texas A&M University, 1984

Hubbard Jr, James, Professor  
Mechanical Engineering  
PHD, Massachusetts Institute of Technology, 1982

Jacobs, Timothy J, Professor  
Mechanical Engineering  
PHD, University of Michigan, 2005

Jarrahbashi, Dorrin, Assistant Professor  
Mechanical Engineering  
PHD, University of California Irvine, 2014

Khraisheh, Marwan, Professor  
Mechanical Engineering-Qatar  
PHD, Washington State University, 1996

Kim, Haejune, Instructional Assistant Professor  
Mechanical Engineering  
PHD, University of Wisconsin at Milwaukee, 2014

Kim, Won-Jong, Associate Professor  
Mechanical Engineering  
PHD, Massachusetts Inst of Technology, 1997

Kim, Yong-Joe, Associate Professor  
Mechanical Engineering  
PHD, Purdue University, 2003

Krishnamoorthy, Aravind, Assistant Professor  
Mechanical Engineering  
PHD, Massachusetts Institute of Technology, 2016

Krishnamurthy, Vinayak, Associate Professor  
Mechanical Engineering  
PHD, Purdue University, 2016

Kulatilaka, Waruna D, Professor  
Mechanical Engineering  
DEN, Purdue University, 2006

Lacy, Thomas E., Professor  
Mechanical Engineering  
PHD, Georgia Institute of Technology, 1998

Lee, ChaBum, Assistant Professor  
Mechanical Engineering  
PHD, Gwangju Institute of Science and Technology, 2012

Lee, Kiju, Associate Professor  
Mechanical Engineering  
PHD, Johns Hopkins University, 2009

Li, Ying, Professor  
Mechanical Engineering  
PHD, University of Florida, 2007

Liang, Hong, Professor  
Mechanical Engineering  
PHD, Stevens Institute of Technology, 1992

Malak Jr, Richard J, Associate Professor  
Mechanical Engineering  
PHD, Georgia Institute of Technology, 2008

Mansoor, Bilal, Associate Professor  
Mechanical Engineering-Qatar  
PHD, University of Michigan, 2010

Masad, Eyad A, Professor  
Mechanical Engineering-Qatar  
PHD, Washington State University, 1998

Mathieu, Olivier E, Research Associate Professor  
Mechanical Engineering  
PHD, University of Orleans, 2006

McAdams II, Daniel A, Professor  
Mechanical Engineering  
PHD, The University of Texas at Austin, 1999

McFarland, Jacob, Associate Professor  
Mechanical Engineering  
PHD, Texas A&M University, 2013
McVay, Matilda W, Instructional Associate Professor
Mechanical Engineering
PHD, Texas A&M University, 1996

Mohiuddin, Mohammad W, Instructional Assistant Professor
Mechanical Engineering
PHD, Texas A&M University, 2008

Moreno, Michael R, Associate Professor
Mechanical Engineering
PHD, Texas A&M University, 2009

Muliana, Hanifah, Professor
Mechanical Engineering
PHD, Georgia Institute of Technology, 2004

Needleman, Alan, University Distinguished Professor
Mechanical Engineering
PHD, Harvard University, 1971

O'Neill, Zheng, Associate Professor
Mechanical Engineering
PHD, Oklahoma State University, 2004

Pagilla, Prabhakar R, Professor
Mechanical Engineering
PHD, University of California at Berkeley, 1996

Palazzolo, Alan B, Professor
Mechanical Engineering
PHD, University of Virginia, 1981

Pan, Heng, Associate Professor
Mechanical Engineering
PHD, University of California-Berkeley, 2009

Pate, Michael B, Professor
Mechanical Engineering
PHD, Purdue University, 1982

Petersen, Eric L, Professor
Mechanical Engineering
PHD, Stanford University, 1998

Pharr, George, Associate Professor
Mechanical Engineering
PHD, Harvard University, 2014

Polycarpou, Andreas A, Professor
Mechanical Engineering
PHD, University of Buffalo - The State University of New York, 1994

Powell-Palm, Matthew, Assistant Professor
Mechanical Engineering
PHD, University of California, Berkeley, 2020

Qiu, Jingjing, Associate Professor
Mechanical Engineering
PHD, Florida State University, 2008

Rajagopal, Kumbakonam, Distinguished Professor
Mechanical Engineering
PHD, University of Minnesota, 1978

Rasmussen, Bryan P, Professor
Mechanical Engineering
PHD, University of Illinois, 2005

Rathinam, Sivakumar, Professor
Mechanical Engineering
PHD, University of California at Berkeley, 2007

Reddy, Junuthula N, Distinguished Professor and Regents Professor
Mechanical Engineering
PHD, University of Alabama at Huntsville, 1974

Robbins, Andrew B, Research Assistant Professor
Mechanical Engineering
PHD, Texas A&M University, 2018

Ruimi, Annie, Associate Professor
Mechanical Engineering-Qatar
PHD, University of California at Santa Barbara, 2005

Sadr, Reza, Professor
Mechanical Engineering-Qatar
PHD, University of Utah, 2002

Sanandes, Luis A, Professor
Mechanical Engineering
PHD, Texas A&M University, 1985

Saripalli, Srikanth, Professor
Mechanical Engineering
PHD, University of Southern California, 2007

Schuller, Michael J, Instructional Associate Professor
Mechanical Engineering-Qatar
DEN, Texas A&M University, 1985

Srinivasa, Arun R, Professor
Mechanical Engineering
PHD, University of California at Berkeley, 1991

Staack, David A, Associate Professor
Mechanical Engineering
PHD, Drexel University, 2008

Subramanian, Velumani, Instructional Associate Professor
Mechanical Engineering
PHD, Bharathiar University, 1998

Suh, Chii-Der, Associate Professor
Mechanical Engineering
PHD, Texas A&M University, 1997

Tafreshi, Reza, Professor
Mechanical Engineering-Qatar
PHD, University of British Columbia, Canada, 2005

Tai, Li-Jung, Associate Professor
Mechanical Engineering
PHD, University of Michigan Ann Arbor, 2011

Thomas, Naveen, Instructional Assistant Professor
Mechanical Engineering
PHD, Texas A&M, 2021
PHD, Texas A&M University, 2021
PHD, Texas A&M University, 2019
Thyagarajan, Ravi, Professor Of The Practice
Mechanical Engineering
PHD, California Institute of Technology, 1989

Tran, Thanh Hai, Instructional Assistant Professor
Mechanical Engineering
PHD, University of South Florida, 2016

Tsenn, Joanna N, Instructional Assistant Professor
Mechanical Engineering
PHD, Texas A&M University, 2016

Tseregounis, Spyros, Professor of the Practice
Mechanical Engineering
PHD, University of California at Los Angeles, 1984

Walsh, Michael, Associate Professor of the Practice
Mechanical Engineering
MFA, University of Southern California, 2001

Wang, Ya, Associate Professor
Mechanical Engineering
PHD, Virginia Tech, 2012

Wen, Sy-Bor, Associate Professor
Mechanical Engineering
PHD, University of California at Berkeley, 2006

Wilkerson, Justin W, Associate Professor
Mechanical Engineering
PHD, Johns Hopkins University, 2014

Wright, Lesley M, Associate Professor
Mechanical Engineering
PHD, Texas A&M University, 2006

Yu, Choongho, Professor
Mechanical Engineering
PHD, The University of Texas at Austin, 2004

Zambrano-Roman, Byron Alfonso, Research Assistant Professor
Mechanical Engineering
PHD, Michigan State University, 2017

Zhou, Yuxiao, Assistant Professor
Mechanical Engineering
PHD, Pennsylvania State University, 2020

Masters

- Master of Engineering in Mechanical Engineering (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/mechanical/meng/)
- Master of Science in Mechanical Engineering (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/mechanical/ms/)

Doctoral

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