

# Materials Science and Engineering

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*Master of Science in Engineering  
Doctor of Philosophy*

## For More Information

**Campus address:** Engineering Education and Research Center (EER)  
6.614A, phone (512) 471-1504, fax (512) 475-8482; campus mail code:  
C2201

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Engineering Program, 204 E. Dean Keeton Street Stop C2201, Austin TX  
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## Objectives

This program is designed to educate materials scientists and engineers, to develop new knowledge, and to solve problems related to the synthesis, processing, characterization, and application of materials.

## Facilities for Graduate Work

Extensive facilities, including laboratories for materials research and instruction and offices for faculty members and students, are located in several buildings on the main campus and at the J. J. Pickle Research Campus. The offices for the Texas Materials Institute (TMI) the materials science and engineering graduate program are located in the Engineering Education and Research Center (EER) building. Core central facilities for research include the Electron Microscopy, X-Ray Scattering, Surface Analysis, Nanofabrication and Testing, Electronic and Vibrational Scattering, Microelectronic Materials Processing, Organic Electronic Fabrication, Scanning Probe, X-ray Photoelectron Spectroscopy, Time-of-Flight Mass Spectrometry, and Polymer Characterization Facilities, each of which employs a manager to assist users. Other laboratories provide materials synthesis, powder processing, mechanical testing, and property measurements facilities for use by students and faculty members.

## Areas of Study

Graduate study is focused on a range of materials, including metals and alloys, ceramics, polymers, composites, nanomaterials, structural materials, electronic and photonic materials, energy materials, and computational materials.

## Graduate Studies Committee

The following faculty members served on the Graduate Studies Committee (GSC) in the spring 2025 semester.

Deji Akinwande  
Narayana R Aluru  
Jose R Alvarado  
Sanjay K Banerjee  
Seth Robert Bank  
Jonathan Yan Chen  
Ray T Chen  
Michael Arthur Cullinan  
Alex de Lozanne  
Ananth Dodabalapur  
D Emma Fan  
Juan Guan  
Graeme Andrew Henkelman  
Rui Huang  
Tanya Hutter  
Gyeong S Hwang  
Jean Incorvia  
Keith P Johnston  
Hadi Khani  
Joseph Hong Yui Koo  
Brian A Korgel  
Desiderio Kovar  
Wei Li  
Xiuling Li  
Kenneth M Liechti  
Jung-Fu Lin  
Yijin Liu  
Yuanyue Liu  
Nanshu Lu

Filippo Mangolini  
Arumugam Manthiram  
Alexander Marras  
David Mitlin  
Charles B Mullins  
Zachariah Allen Page  
Hang Ren  
Devleena Samanta  
Li Shi  
Chih-Kang Shih  
Donald Jason Siegel  
Wen Song  
S V Sreenivasan  
Venkat Subramanian  
Eric M Taleff  
Huiliang Wang  
Wennie Wang  
Yaguo Wang  
Jamie Warner  
Daniel M Wasserman  
Jin Yang  
Hsin-Chih Yeh  
Qian Yin  
Edward T Yu  
Guihua Yu  
Yunlan Zhang  
Kent Zheng  
Yuebing Zheng  
Jianshi Zhou

## Admission Requirements

Students with a bachelor's degree in engineering or in one of the physical sciences may be admitted to the materials science and engineering degree program upon the recommendation of the Graduate Studies Committee. Students who do not have a background that the committee considers satisfactory for the study of advanced materials science and engineering will be required to take preparatory coursework, some of which may be at the undergraduate level. Completion of some coursework may be required before the student begins the work for the graduate degree.