The University of Texas at Dallas

Erik Jonsson School of Engineering and Computer Science

Master of Science in Materials Science and Engineering

Program Description

The Master of Science in Materials Science and Engineering program trains students in the study and application of various advanced materials — from metals, semiconductors and composites to polymers, nanomaterials and biomaterials — for use in virtually all areas of science, engineering, industry and society. Students in the master's program benefit from the highly interdisciplinary nature of the field as well as the wide-ranging expertise of faculty in the Erik Jonsson School of Engineering and Computer Science to learn how to advance the design and discovery of new materials.

The Materials Science and Engineering master's program provides both a rigorous foundation and advanced preparation for professional practice in modern materials science. The program is open both to students completing their undergraduate study in materials science, mechanical engineering, electrical engineering, chemical engineering, chemistry or physics, and to professional engineers who wish to advance their education and develop new skills and expertise.

Benefits

The Materials Science and Engineering curriculum ensures that students are exposed to a broad knowledge of modern materials science, that they apply their knowledge and analytical skills to create effective and novel solutions to practical problems, and that they communicate and work effectively in collaborative environments. These outcomes prepare graduates for successful careers in many settings and make key contributions in materials science and engineering research.

Other benefits include:

- *World-Class Faculty*: The program is led by faculty of the Erik Jonsson School of Engineering and Computer Science who are widely cited experts in their respective fields.
- *Comprehensive Curriculum*: Courses in the Materials Science and Engineering master's program will introduce students to new ideas, technologies, and competencies while also teaching them the skills they'll need to thrive in competitive, ever-changing industries.
- *Facilities*: Three buildings on campus are dedicated to engineering and computer science: ECS South, North and West, as well as collaborative research spaces in the Bioengineering and Sciences building, the Edith O'Donnell Arts and Technology building and the Natural Science and Engineering Research Laboratory.
- *Research*: Master's students may elect to pursue research in state-of-the-art materials science laboratories under faculty supervision.
- *Location*: Situated in the greater Dallas region—recently rated by *Forbes* magazine as the #1 "Best City for Jobs"—UT Dallas provides students with easy access to employers and internship opportunities, not to mention a large and supportive alumni population.

Career Opportunities

Graduates of the Materials Science and Engineering master's program have gone on to pursue professional careers in a wide variety of fields. Some of the most popular fields include:

- Materials Engineering and Materials Science
- Process Engineering
- Engineering Research

Contact Information

MSE Admissions
Email: MSEadmissions@utdallas.edu

engineering.utdallas.edu

800 W. Campbell Road Richardson, TX 75080
utdallas.edu

Marketable Skills

Upon successful completion of the MS in Materials Science and Engineering, graduates will be able to enter the workforce with the following skills:

- Foundational knowledge in materials science
- Analyze and interpret scientific/technical data and literature
- Effective technical communication
- Familiarity with materials characterization methods

Application Deadlines and Requirements

Please take note of all application deadlines and visit the Apply Now webpage to begin the application process. See the Materials Science and Engineering degree program webpage for additional information.

Applicants to the Materials Science and Engineering master's degree program should have:

- An undergraduate preparation equivalent to a baccalaureate degree from an accredited engineering program.
- GRE Test Scores: GRE revised scores of 154 or above (verbal), 154 or above (quantitative), and 4 (analytical writing components) are advisable based on the program's student success outcomes. Scores must be no more than five years old by date of application.
- Three letters of recommendation from individuals who are able to judge the applicant's ability to succeed in the program, including work ethic and scholastic abilities.
- A narrative statement outlining the applicant's background, education, professional goals and interest in the program.
- Unofficial transcripts from all universities attended.
- International applicants must provide copies of diplomas and/or degree certificates, certified translations of non-English documents, and proof of English proficiency. See the Graduate Catalog for additional information regarding proof of English proficiency.

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