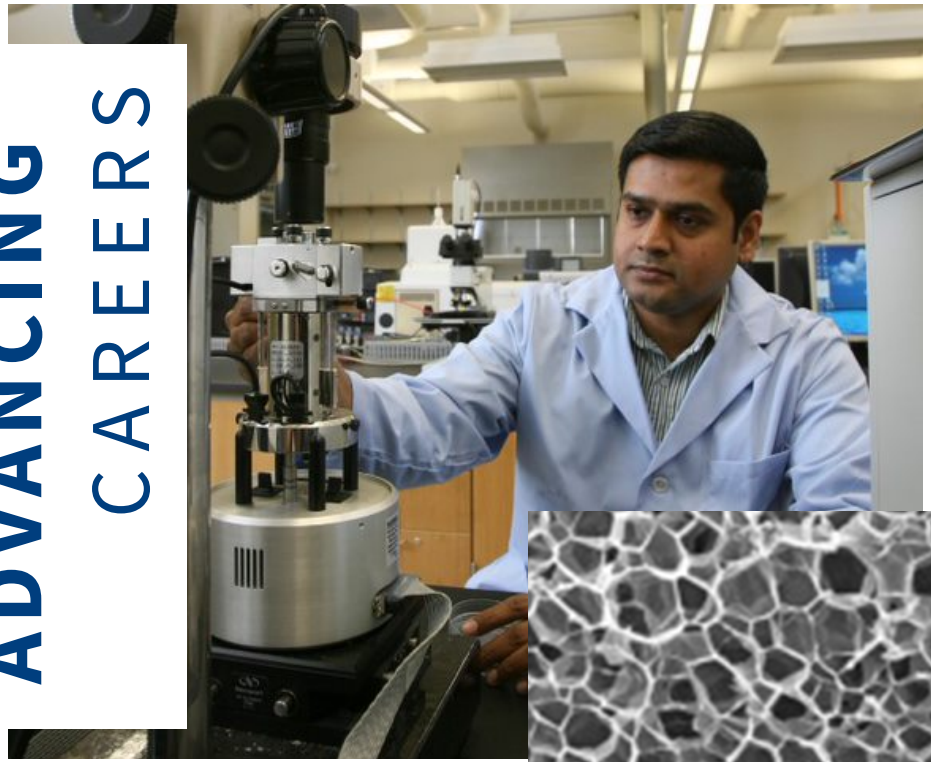
THE UNIVERSITY OF TOLEDO

GRADUATE CERTIFICATE IN MATERIAL SCIENCE AND ENGINEERING

Material science is an interdisciplinary area of study and research that supports many engineering disciplines as well as chemistry, and physics. New technologies for manufacturing as well as greening of chemistry and engineering are driving development of new material formulations and production methods. The graduate certificate in material science and engineering is designed to support engineers and physical scientists that are interested in materials development, performance, and applications.

ADVANCING CAREERS



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PROGRAM REQUIREMENTS

The graduate certificate program in Material Science and Engineering is structured to require 12 cr hr of coursework. Select any four courses from the list below.

CORE MATERIAL SCIENCE AND ENGINEERING COURSES

- **MIME 5350** – Advanced Ceramics
- **MIME 5370** – Advanced Materials for Automotive Structures
- **MIME 5380** – Engineering Polymers and Rubbers
- **MIME 5390** – Failure Analysis of Materials
- **EECS 5600 –** Solid State Devices

FUELING **TOMORROWS**

BENEFITS

Materials science is an important research and development area in a wide range of industries. If you are a STEM professional interested in expanding your technical skills in the materials field, this certificate is for you. Mini-projects integrated into the courses provide hands-on experience on material applications. You will develop and conduct experiments, analyze and interpret data, and make decisions for material selection and development for advanced technologies such as nanotechnology micro-machines and additive manufacturing.

APPLY ONLINE AT:

utoledo.edu/graduate/apply/

For additional information about all of our programs, visit **utoledo.edu/engineering/graduate-studies**

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