

The Master's Degree Program in Materials Science and Engineering is the result of a collaborative effort between the School of Engineering and the School of Arts and Sciences.



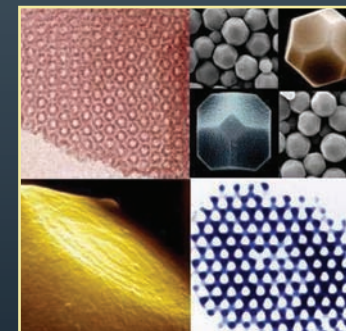
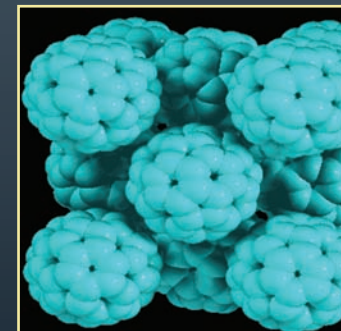
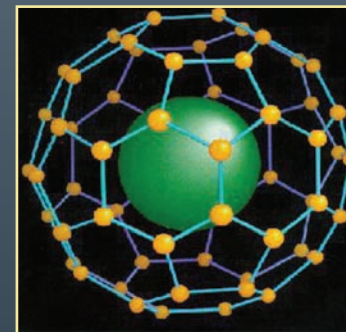
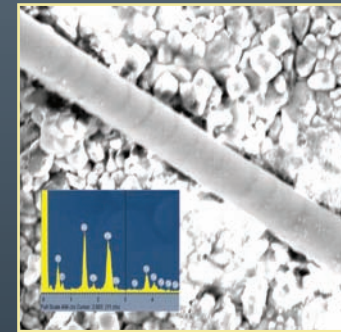
The Catholic University of America admits students of any race, color, national or ethnic origin, sex, age or disability.



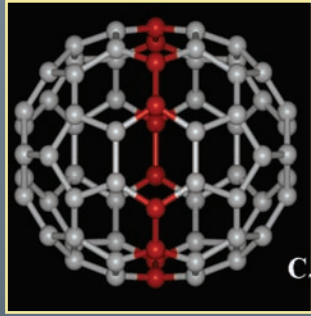
THE CATHOLIC UNIVERSITY OF AMERICA
Materials Science and Engineering Program
620 Michigan Ave, N.E.
Washington, DC 20064

THE CATHOLIC UNIVERSITY OF AMERICA
Washington, D.C.

Master's Degree in **Materials Science and Engineering Program**



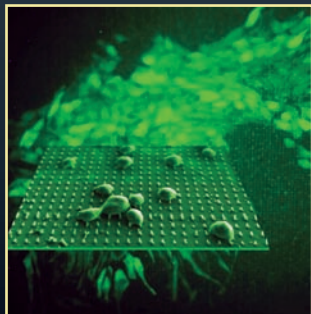
REASON. FAITH. SERVICE.



Materials Science and Engineering at CUA

Catholic University's materials science and engineering (MSE) graduate program is specifically designed for working professionals in the Washington, D.C., metropolitan area, offering many evening courses at an affordable tuition.

The program's mission is to develop students with a sound education in materials science, to advance the understanding and application of scientific principles, to enhance economic development, and to improve peoples' quality of life through teaching, research and outreach. Our goal is to produce well-rounded materials scientists and engineers who can function effectively in the technical arena as well as possess the skills to assume leadership roles in industry, academia and government.



What is Materials Science and Engineering?

Materials science is an interdisciplinary field involving the properties of matter and its applications to various areas of science and engineering. Materials scientists strive to understand the fundamental properties and characteristics of materials, applying elements of applied physics and chemistry, and mathematical modeling. Materials science investigates the relationship between the structure of materials at atomic or molecular scales and also their macroscopic properties.

Emerging areas of materials science include nanotechnology, biomaterials and electromagnetic materials. The need for materials is ubiquitous in daily life. In fact, few fields of science or engineering are not concerned in some way with selection or design of materials. It is estimated that the work of one in three engineers is directly related to materials, while more than half of all engineers have at least an indirect concern for the properties of materials.

Five Specialty Areas

The CUA MSE program curriculum emphasizes advances in existing and emerging technologies in the following five key specialization areas:

- Nanotechnology
- Biomaterials
- Magnetic and optical materials
- Glasses, ceramics and metallurgy
- Processing and instrumentation

Students in the MSE Program at CUA have unique opportunities for research and internships in numerous laboratories in the Washington, D.C., metropolitan area including:

- CUA's Nanotechnology Center
- CUA's Vitreous State Laboratory
- CUA's BONE/CRAB Laboratory
- Food & Drug Administration
- National Institute of Standards & Technology
- National Institutes of Health

Admission Requirements

- Bachelor's degree in any engineering or science discipline or in mathematics
- Letters of recommendation

Financial Aid

Scholarships available to selected students.

CUA is also a direct lender for Federal Stafford and other loans. Please see our Web site for more information.

For more information, contact:

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