



M.S. in Chemical, Environmental, and Materials Engineering

This program offers specialized concentrations in aerosol science, advanced materials, sustainable energy, product design, and water management, providing students with in-depth knowledge and practical skills to pursue impactful careers and address today's most pressing global challenges.

WHAT TO EXPECT

Integrated Engineering Foundations

- Gain cross-disciplinary training in chemical, environmental, and materials engineering, with work in transport and reaction processes, aerosols and water quality, and materials synthesis and characterization.

Applied Research and Problem-Solving

- Develop practical solutions for sustainable energy, clean water access, and public health while working in labs focused on aerosols, water systems, and advanced materials. Customize your coursework through flexible electives and collaborations with faculty and industry partners.

Career Preparation and Accelerated Completion

- Build skills for roles in industry, government, and research, with options for internships and the ability to complete the degree in as little as one year.



FAST FACTS



15+
Faculty
and Staff



10+
Cross-
Disciplinary Labs



Flexible
Coursework
Options

Eligible for students with a bachelor's degree in engineering, chemistry, physics, or materials science.

AREAS OF EMPHASIS

Pursue flexible training across multiple engineering disciplines, allowing students to focus on specific topics or explore a range of areas to tailor their education to their interests and career goals.

- Chemical Engineering
- Environmental Engineering
- Materials Science and Engineering



UNIVERSITY OF MIAMI
COLLEGE of
ENGINEERING

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WHY MIAMI?

- **Hub for Sustainability:** Miami's coastal setting offers a living laboratory for advancing research in water resources, environmental processes, energy systems, and advanced materials.
- **Faculty Expertise:** Work alongside professors recognized for breakthroughs in aerosol science, chemical process design, and renewable energy.
- **Innovation in Action:** Engage in hands-on projects that bridge research and real-world solutions within Miami's tech ecosystem.

CAREER PATHS

Apply your skills across diverse sectors.



**Advanced Materials
and Manufacturing**



**Energy and Sustainable
Technologies**



**Environmental
Resources Consulting**



**Government and
Regulatory Agencies**



**Pharmaceuticals and
Biotechnology**



**Research and
Development**



**Nonprofit and Policy
Organizations**



For more
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