**Ph.D. Materials Science & Engineering**

*About the Program*

Materials Science & Engineering (MSE) underpins the development of many technologies, ranging from electronics to healthcare to manufacturing, and Rowan University’s Ph.D. in MSE lies at the intersection of chemistry, physics, and engineering. MSE researchers seek to understand how processing, composition, and structure determine material properties and how those properties can be used for innovation. Research projects are generally sponsored by industry or federal and state agencies, and the work pushes the boundaries of science and technology.

The program curriculum, developed in collaboration with an industrial advisory board, offers a highly flexible interdisciplinary structure, allowing students to pursue and achieve their research objectives from fundamental theoretical work to applied device development to advanced manufacturing techniques. The nation has seen substantial growth in MSE-related jobs especially with employers such as major defense contractors, chemical companies, materials industries, and pharmaceutical companies, all of which employ large numbers of professionals with Ph.D. degrees.

*Program Highlights*

- Emphasis on experimental work for materials design and device development
- Dedicated, student-centered faculty mentors with access to cutting-edge instrumentation
- Interdisciplinary program between the College of Science & Mathematics and the Henry M. Rowan College of Engineering

*Curriculum*

- Focus on cutting-edge technology with hands-on training
- Highly flexible inter- and multidisciplinary structure
- Thesis research starts immediately and continues throughout

*Research Areas Include:*

- Catalysis
- Batteries
- Photovoltaics
- Nanotechnology
- Construction
- Biomaterials
- Biomedical devices
- Electronic materials and devices
- Additive manufacturing
- Polymeric materials
- Composites
- Sensors
- Many more!

For more information:

**Materials Science & Engineering**

mse@rowan.edu
go.rowan.edu/mse
Rowan University

is a top 100 national public research institution
that offers bachelor’s through doctoral programs
in-person and online to 23,000 students. With
eight colleges and nine schools, Rowan focuses
on practical research at the convergence of
science, engineering, business, and medicine
while ensuring excellence in undergraduate
education. It has earned national recognition for
innovation, commitment to high-quality,
affordable education, and developing
public-private partnerships. Rowan is one of four
universities in the nation to offer M.D. and D.O.
degree programs and is the 4th fastest-growing
research university in the nation.

Rowan is located in Glassboro, New Jersey,
30 minutes from Philadelphia and an hour from
the Jersey Shore. The Glassboro area offers much
to explore, including shopping, restaurants,
outdoor recreation areas, farmer’s markets, and
the South Jersey Wine Trail. Visit
www.visitsouthjersey.com for more information
about the area.

Application Process
The following is a list of items required to begin
the application process for this program. More
information on the admissions process can be
found at global.rowan.edu.

- Completed Rowan Global Application
  Form
- $65 (U.S.) non-refundable application fee
- Bachelor’s degree (or its equivalent) from
  an accredited institution of higher
  learning
- Official transcripts from all colleges
  attended (regardless of number of credits
  earned)
- Recommended minimum undergraduate
cumulative GPA of 3.0 (on a 4.0 scale)
- Current professional resume or
  curriculum vitae
- Typewritten statement of professional
  objectives (provide reasons for pursuing
  the program and how this program would
  help you advance your career)
- Three letters of recommendation