

RICHMOND

Richmond is home to several Fortune 500 companies and serves as headquarters to many national corporations including Hamilton Beach, Honeywell, Meadwestvaco, and Altria. The city's welcoming of new economy continues to attract successful businesses and offers a variety of employment opportunities.

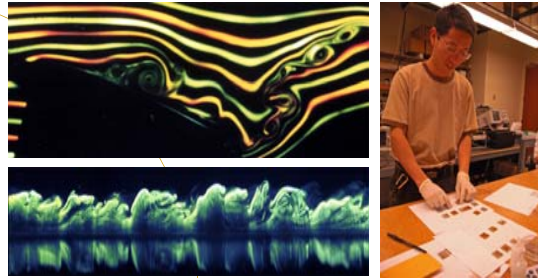


SUMMARY

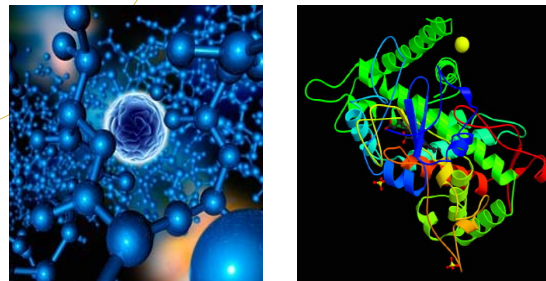
The graduate program in Mechanical Engineering at VCU prepares students for many traditional and non-traditional areas of employment. Our graduate degrees allow for multidisciplinary study in life science, design, and micro/nano technology. Our faculty is highly diverse with several members holding joint appointments in the VCU School of Medicine. Some comments from our students are provided below:

"My research in the field of nanotechnology has opened a world of ideas and opportunities for me." -*Srirupa Ganguly*

"The close-knit atmosphere of the VCU School of Engineering allows for a highly interactive relationship between the students and the faculty." -*Evan Neblett*



Staying current keeps us on the cutting edge! Biotransport, biomimetic devices, and nanotechnology are new thrust areas of research in the Department of Mechanical Engineering.



**VIRGINIA COMMONWEALTH
UNIVERSITY**

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VIRGINIA COMMONWEALTH
UNIVERSITY

**MECHANICAL
ENGINEERING
GRADUATE
PROGRAM**



MASTER OF SCIENCE
in Mechanical and Nuclear Engineering

DOCTOR OF PHILOSOPHY
in Mechanical Engineering

The School of Engineering at Virginia Commonwealth University provides state-of-the-art teaching and research facilities, world-class faculty, and cutting-edge research. As one of five research intensive programs within the School of Engineering, the Department of Mechanical Engineering offers graduate programs leading to the degrees of Masters of Science and Doctor of Philosophy in Mechanical Engineering. A new Masters of Science degree program in Nuclear Engineering began in 2007. Research within the Mechanical Engineering Department includes a broad range of interdisciplinary topics with applications in nano-manufacturing, alternative energy, bioterrorism preparedness, and respiratory drug delivery. We invite you to consider conducting your graduate study with us.



RESEARCH, PEOPLE AND FACILITIES

FACULTY

- Dr. Gary C. Tepper, Professor and Interim Chair**
Ph.D. University of California, San Diego
Chemical Sensors; Radiation Detectors; Nanomaterials
- Dr. Stephanie G. Adams, Associate Professor**
Ph.D. Texas A&M University
Engineering Management & Education; Active Learning
- Dr. Ross C. Anderson, Assistant Professor**
Ph.D. University of Virginia
Probabilistic Risk Assessment
- Dr. Jayasimha Atulasimha, Assistant Professor**
Ph.D. University of Maryland
Smart Materials; MEMS Devices
- Dr. Mohamed Gad-el-Hak, Caudill Professor**
Ph.D. Johns Hopkins University
Nanotechnology; MEMS; Turbulence; Flow Control
- Dr. Muammer Koc, Associate Professor**
Ph.D. Ohio State University
Micromanufacturing; Nano/Microstructured Surfaces
- Dr. P. Worth Longest, Associate Professor**
Ph.D. North Carolina State University
Biofluid Transport; CFD; Respiratory Drug Delivery
- Dr. James T. McLeskey, Jr., Associate Professor**
Ph.D. University of Virginia
Photovoltaics; Polymer/Quantum Dot Solar Cells
- Dr. Manu Mital, Lecturer**
Ph.D. Virginia Tech
Electronic Packaging; Microchannel Cooling
- Dr. Karla M. Mossi, Associate Professor**
Ph.D. Old Dominion University
Smart Materials; Piezoelectric Actuators; Flow Control
- Dr. Ramana M. Pidaparty, Professor**
Ph.D. Purdue University
Rapid Prototyping; Comp. Mech.; Micro/Nanotechnology
- Dr. John E. Speich, Associate Professor**
Ph.D. Vanderbilt University
Dynamic Systems and Controls; Robotics; Biomechanics
- Dr. Vishnu B. Sundaesan, Assistant Professor**
Ph.D. Virginia Tech
Applied Membrane Biophysics; Active Implantable
- Dr. Hooman V. Tafreshi, Assistant Professor**
Ph.D. Lappeenranta University of Technology, Finland
Two-Phase Flows, Porous Media; Aerosol Filtration
- Dr. Amy L. Throckmorton, Assistant Professor**
Ph.D. University of Virginia
Medical Devices; CFD; Artificial Organs

FACILITIES

We pride ourselves in maintaining outstanding facilities for our faculty and students. Our first 147,000 sq. ft. School of Engineering building was constructed in 1998 and is equipped with state-of-the-art research labs, modern classrooms, and the Virginia Microelectronics Center. Many of our faculty and students also conduct biomedical research on the VCU Medical Campus, which is the fourth largest teaching hospital in the nation.

A new School of Engineering building was completed in 2007, and houses the Departments of Biomedical Engineering, Computer Science and Mechanical Engineering. The new facility offers more than 50 additional research labs and helps us continue to provide an outstanding education to our growing student population.

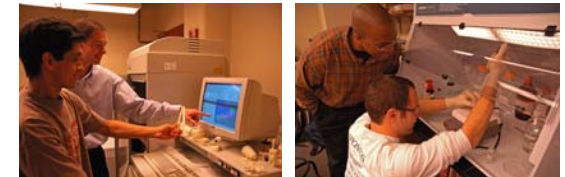
RESEARCH

Research within the Mechanical Engineering Department provides students with exposure to a variety of funding sources and collaborators including DARPA, DOD, DOE, NASA, NSF, NIH, and EPA. Corporate sponsorship is provided by biomedical, pharmaceutical, and power generation industries.



PEOPLE

Our most valued resource is our dedicated faculty. We are committed to working closely with our students to provide an in-depth and truly multidisciplinary graduate experience.



RESEARCH FOCUS AREAS

- Nanotechnology and MEMS
- Biomechanics and Biofluid Flow
- Computational Fluid Dynamics and Mechanics
- Robotics, Mechatronics, and Controls
- Energy Conversion Systems
- Miniature Sensors and Detectors
- Smart Materials

For more information on our research, course offerings, application requirements, and scholarships, please visit us on the Web:

www.egr.vcu.edu/me/index.html