The Nuclear Engineering Program is housed within the Herbert Wertheim College of Engineering’s Department of Materials Science and Engineering at the University of Florida. The program offers students an opportunity to work on research teams related to backscatter radiation, extreme environments testing and nuclear fuel cycles. Students conduct research alongside academics and in partnership with national labs and government agencies, including Idaho National Laboratory and the Department of Energy.

The department is ABET-accredited and offers bachelor’s and graduate degrees in Nuclear Engineering. The program is conducting interdisciplinary research with materials science and engineering to expand on nuclear materials research.

The Nuclear Engineering Program offers hands-on experience through its research labs. Facilities include the reactor, hot cell, microstructural characterization and mechanical testing laboratories. Below are three popular labs for students to gain research knowledge and one of our newest labs that will bring expand our nuclear proliferation research.

**Research Facilities**

The Nuclear Engineering Program offers hands-on experience through its research labs. Facilities include the reactor, hot cell, microstructural characterization and mechanical testing laboratories. Below are three popular labs for students to gain research knowledge and one of our newest labs that will bring expand our nuclear proliferation research.

- **University of Florida Training Reactor**
- **Nuclear Materials Laboratory**
- **HiPerGator (University of Florida High Performance Computing Center)**
- **Laser and Optics Laboratory (under construction)**

**Industry & Academic Partners**

Argonne National Laboratory; Idaho National Laboratory; Oak Ridge National Laboratory; Pacific Northwest National Laboratory; United States Department of Energy; United States Department of Defense; Nuclear Energy University Program;

**Research Areas**

- Nuclear Materials
- Radiation Detection and Imaging
- Reactor Physics
- Nuclear Security, Safeguards and Nonproliferation
- Fusion and Plasma Physics
- Thermal Hydraulics

**Number of Tenured and Tenure-Track Research Faculty in Program**

8

**$1M**

Awarded in funding from DOE and INMM for 2 Early Career Faculty Research Projects

**$6M**

Grant Project being Conducted with ARPA-E

**#14**

Nuclear Engineering Program among Public Universities

Information sourced (from left): U.S. News & World Report; Departmental Resources; ASEE

Connect with us

MSE.UFL  UFMSE
The Department of Materials Science and Engineering at the University of Florida is the top-ranked program in the state and is one of the oldest in the country. The department offers a hands-on approach to engineering steeped in a foundation of theoretical and science education that bridges engineering, chemistry and physics. The goal is to educate well-rounded and successful engineers through design labs where students work on solving real problems facing society.

The department is ABET-accredited and offers bachelor’s and graduate degrees in Materials Science and Engineering. The department offers students an opportunity to specialize in a specified material through a certificate option. In addition, the department is looking toward the future of engineering by expanding our nuclear materials and biomaterials research.

These professorships are the result of donors who prioritize research and want to help attract and retain top faculty. Thanks to a $1 Million gift in 2018, the department added two new named professorships honoring the legacy of the department founder, Dr. Frederick “Fred” Rhines and two early faculty, Robert DeHoff and Larry Hench.

HIGHLIGHTS

CERTIFICATES
Undergraduate and graduate students can pursue a certificate in biomaterials, ceramic, electronic materials, metals or polymers.

EQUIPMENT
Students are trained on industry-standard equipment, including the scanning electron microscope, polymer 3D printers, and ion-characterization.

DISTANCE LEARNING
Students can participate in the online program, EDGE, to earn a bachelor’s or master’s degree from afar. The Gator Nation is and can be everywhere.

10 ENDOWED PROFESSORSHIPS

DEPARTMENT OF MATERIALS SCIENCE & ENGINEERING RESEARCH CENTERS & INSTITUTES

- Major Analytical Instrumentation Center
- Particle Analysis Instrumentation Center
- Institute for Cell Engineering & Regenerative Medicine
- Nanoscale Research Facility
- Particle Engineering Research Center
- Center for Particulate and Surfactant Systems

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