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DEPARTMENT CHAIR,
ALUMNI PROFESSOR
OF MATERIALS SCIENCE
AND ENGINEERING

The Department of Materials Science & Engineering (MSE) at the University of Florida is the state's top-ranked materials program and one of the oldest and most distinguished in the nation. The department advances the science and engineering of materials from fundamental discovery to deployment, integrating engineering, chemistry, physics and data science to deliver solutions for industry and society.

Research spans structural and functional materials, including metals, ceramics, polymers, composites, electronic and photonic materials and nanomaterials. The department is accelerating growth in nuclear materials, biomaterials and computational and artificial intelligence-driven materials design, with an emphasis on energy and sustainability, microelectronics and

performance in extreme environments. This breadth enables interdisciplinary teams to tackle complex, high-impact challenges and translate breakthroughs into manufacturable technologies.

UF MSE fosters strong partnerships with industry, national laboratories and federal agencies, supported by state-of-the-art laboratories and campuswide user facilities such as the Nanoscale Research Facility. Its master's and doctoral programs combine rigorous coursework, hands-on training with advanced instrumentation and close mentorship to prepare graduates for leadership in academia, national laboratories, startups and established companies. The department welcomes collaboration and engagement across the materials innovation ecosystem.

RESEARCH AREAS

Advanced Materials Characterization

Biomaterials

Ceramics

Computational Materials Science

Electronic Materials

Quantum and Energy Materials

Materials Processing

Metallurgy

Nanomaterials

Nuclear Fuels and Materials

Polymeric Materials

Materials Education

UF UNIVERSITY of FLORIDA

#7

AMONG PUBLIC UNIVERSITIES

2026 U.S. News & World Report

FACTS & FIGURES

ENROLLED STUDENTS

165 Undergraduate

163 Graduate

2025-26 Academic Year

FY25 RESEARCH EXPENDITURES

\$10.4M

13

 ENDOWED PROFESSORSHIPS

Endowed professorships result from the direct support of donors who prioritize excellence across all facets of research and higher education and enable the university to attract and retain top faculty for its programs.



30% OF OUR UNDERGRADUATE STUDENTS SECURE INTERSHIPS AND/OR CO-OPS DURING THEIR TIME IN THE PROGRAM.



STUDENTS CAN PARTICIPATE IN THE UF ONLINE PROGRAM, EDGE, TO EARN AN ENGINEERING PH.D. OR MASTER'S DEGREE FROM AFAR. THE GATOR NATION IS AND CAN BE EVERYWHERE.

OVER 25 YEARS AS A

TOP 20

MATERIALS SCIENCE GRADUATE PROGRAM

AMONG PUBLIC UNIVERSITIES

2026 U.S. News & World Report

116

 NUMBER OF PATENTS ISSUED IN THE PAST 10 YEARS

96

 NUMBER OF TECH LICENSES ISSUED IN THE PAST 10 YEARS

19

 FULL TIME CORE FACULTY