



**WARREN DIXON, PH.D.**

DEAN'S LEADERSHIP PROFESSOR  
AND DEPARTMENT CHAIR

The University of Florida's Department of Mechanical & Aerospace Engineering in the Herbert Wertheim College of Engineering pursues greater understanding of the fundamentals of force, displacement, energy, and evolution of motion as a means to develop predictive theory, design, manufacture, power, and control systems. We explore the combination of physics, mathematics, data, and information with advances in AI & machine learning to educate our diverse world and address enduring societal problems. Through innovations from 68

faculty members and more than 3,200 undergraduate and graduate students, the department has comprehensive body of research in all areas of Mechanical and Aerospace Engineering with world-class renown in areas such as Autonomy, Multiphase and Multiscale Dynamics, Cryogenics, Soft Matter, Thermal Transport, Alternative Energy Systems, and others. As a result, we are privileged to lead multiple large-scale federal Centers of Excellence and have strong industrial networks.

### RESEARCH AREAS

- AI/Machine Learning
- Aeronautics
- Astronautics
- Bioengineering
- Control and Optimization
- Design and Manufacturing
- Digital Engineering
- Energy Conversion and Storage
- Engineering Education
- Fluid Dynamics and Acoustics
- Multiscale Modeling and Solid Mechanics
- Robotics and Autonomous Systems
- Soft Matter
- Thermal Transport, Thermodynamics and Power



TOP PUBLIC UNIVERSITY  
U.S. NEWS & WORLD REPORT 2023

### FACTS & FIGURES

**2,233+**  
ENROLLED STUDENTS

#### UNDERGRADUATE STUDENTS

**23%** UNDERREPRESENTED GROUPS  
**21%** WOMEN

#### GRADUATE MECHANICAL AND AEROSPACE ENGINEERING PROGRAM

**#16**

AMONG PUBLIC UNIVERSITIES

**22** CAREER AWARD WINNERS

**38** FELLOWS: IEEE, ACM AAAS

**17** ACTIVE GRANTS OVER \$1 MILLION

**19M** RESEARCH EXPENDITURES (2022-2023)

**120** PATENTS GRANTED (2013-2023)



OUT OF 40 PH.D. STUDENTS ENROLLED IN THE MECHANICAL AND AEROSPACE ENGINEERING PROGRAM, 23.6 PERCENT ARE WOMEN. 2023 DEPARTMENTAL ENROLLMENT DATA



DOMESTIC STUDENTS COMPRISE 77.8 PERCENT OF UF MAE'S PH.D. ENROLLMENT. 2023 DEPARTMENTAL ENROLLMENT DATA