



CHERIE STABLER, PH.D.

PROFESSOR, INTEGRA LIFESCIENCES
TERM PROFESSOR, UF FOUNDATION
PREEMINENCE TERM PROFESSOR &
DEPARTMENT CHAIR

The University of Florida's **J. Crayton Pruitt Family Department of Biomedical Engineering** (BME) in the Herbert Wertheim College of Engineering integrates engineering principles with biology and medicine to advance human health.

The department is dedicated to developing innovative and clinically translatable biomedical technologies and educating future leaders in biomedical engineering by promoting collaboration, academic rigor, and a societal impact.

Our 30 faculty members and more than 440 undergraduate and graduate students leverage our unique co-localization of talent and resources in engineering, biology, medicine, veterinary science, dentistry, and technology commercialization to engage in open-ended collaborative research and complex, multi-faceted design challenges across our numerous research areas.

RESEARCH AREAS

BIOMATERIALS & REGENERATIVE MEDICINE

BIOMECHANICS & BIONICS

BIOMEDICAL IMAGING & APPLICATIONS

MODELING & BIOMEDICAL DATA SCIENCE

MOLECULAR & CELLULAR ENGINEERING

NEURAL ENGINEERING

TOP 5
UF
TOP PUBLIC UNIVERSITY
U.S. NEWS & WORLD REPORT 2023

FACTS & FIGURES

440+

ENROLLED STUDENTS

UNDERGRADUATE STUDENTS

37%

UNDERREPRESENTED GROUPS

57%

WOMEN

GRADUATE BIOMEDICAL ENGINEERING PROGRAM

#12

AMONG PUBLIC UNIVERSITIES

7

CAREER AWARD WINNERS

17

FELLOWS: BMES, AIMBE, NAI

23

ACTIVE GRANTS OVER \$1 MILLION

\$12M

RESEARCH EXPENDITURES (2022-2023)

47

PATENTS ISSUED (1988-2023)



OUT OF 99 PH.D. STUDENTS ENROLLED IN THE BIOMEDICAL ENGINEERING PROGRAM, **52 PERCENT** ARE WOMEN.
2023 DEPARTMENTAL ENROLLMENT DATA



DOMESTIC STUDENTS COMPRISE **78 PERCENT** OF UF BME'S PH.D. ENROLLMENT.
2023 DEPARTMENTAL ENROLLMENT DATA

UF | BIOMEDICAL ENGINEERING PRIMARY FACULTY



Kyle D. Allen

Professor
Ph.D., Rice University

Novel strategies to diagnose and treat degenerative joint diseases



Kuang Gong

Assistant Professor
Ph.D., University of California at Davis

Deep learning, medical imaging, and data science



Ivana Parker

Assistant Professor
Ph.D., Georgia Institute of Technology

Trained immunity, systems biology, HIV/TB, host-pathogen interactions and applied proteomics



Wesley E. Bolch

Distinguished Professor & UF Term Professor
Ph.D., University of Florida

Dosimetry, computational medical physics and radiation dose assessment



Aysegul Gunduz

Professor, Fixel Brain Mapping Professor & UF Term Professor
Ph.D., University of Florida

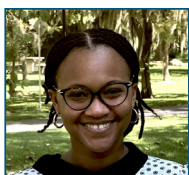
Human brain mapping, neuromodulation and neural interfacing



Edward A. Phelps

Assistant Professor
Ph.D., Georgia Institute of Technology

Cell and tissue regeneration, islet biology, diabetes and immunoengineering



Markia Bowe

Instructional Assistant Professor
Ph.D., University of Florida

Biomechanics of bone, 3D imaging, inclusive design and engineering education research



Gregory A. Hudalla

Associate Professor & Graduate Coordinator
Ph.D., University of Wisconsin

Molecular engineering for immunotherapies and immune modulation



Ana Maria Porras

Assistant Professor
Ph.D., University of Wisconsin

Biomaterials and tissue engineering to study host-microbe interactions and inclusive science communication



Mingzhou Ding

Distinguished Professor & J. Crayton Pruitt Family Professor
Ph.D., University of Maryland

Cognitive neuroscience, signal processing and neural imaging



Benjamin G. Keselowsky

Professor
Ph.D., Georgia Institute of Technology

Biomaterials and controlled release systems for vaccines, immunotherapies and implants



Parisa Rashidi

Associate Professor & IC3 Co-Director
Ph.D., Washington State University

Medical artificial intelligence (AI) and pervasive health



Xiao Fan

Assistant Professor
Ph.D., University of Alberta

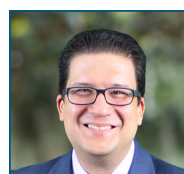
Computational approaches to study genetic architecture of rare diseases and interpretation of genetic variants



Jamal Lewis

Associate Professor
Ph.D., University of Florida

Biomaterials, drug delivery and immunoengineering



Carlos Rinaldi-Ramos

Dean's Leadership Professor & Chemical Engineering Department Chair
Ph.D., Mass. Institute of Technology

Nanomedicine and magnetic nanoparticles



Ruogu Fang

Associate Professor & J. Crayton Pruitt Family Term Fellow
Ph.D., Cornell University

Artificial intelligence (AI), brain dynamics and medical image analysis



May Mansy

Instructional Assistant Professor
Ph.D., University of Florida

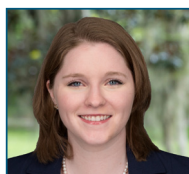
Bio-signals & systems, bio-instrumentation lab and engineering education



Christine E. Schmidt

Distinguished Professor & J. Crayton Pruitt Professor
Ph.D., University of Illinois

Biomaterials for neural tissue regeneration and neural interfacing



Meghan Ferrall-Fairbanks

Assistant Professor
Ph.D., Georgia Institute of Technology

Quantitative systems biology, mathematical modeling, cancer heterogeneity and evolutionary dynamics



Peter S. McFetridge

Associate Professor
Ph.D., University of Bath

Naturally inspired biomaterials for biologically functional implants and organ regeneration



Blanka Sharma

Associate Professor
Ph.D., Johns Hopkins University

Nanomedicine, biomaterials, targeted drug/gene delivery and immunoengineering



Daniel Ferris

Robert W. Adenbaum Professor
Ph.D., University of California, Berkeley

Biomechanics, neuromechanical control, locomotion, mobile brain imaging, robotic exoskeletons and bionic prostheses



Walter Lee Murfee

Associate Professor & Associate Chair for Undergraduate Studies
Ph.D., University of Virginia

Cell dynamics, microcirculation, angiogenesis, lymphangiogenesis and neurogenesis



Cherie Stabler

Professor, Integra LifeSciences Term Professor, UF Foundation Term Professor & Department Chair

Biomaterials, controlled release, regenerative medicine and diabetes



Sarah Furtney

Instructional Associate Professor, Undergraduate Coordinator & J. Crayton Pruitt Family Term Fellow
Ph.D., Clemson University

BME cellular engineering laboratory and engineering education research



Jennifer A. Nichols

Assistant Professor & J. Crayton Pruitt Family Term Fellow
Ph.D., Northwestern University

Biomechanics, musculoskeletal modeling, predictive simulation, medical imaging and machine learning



Brittany Taylor

Assistant Professor
Ph.D., Rutgers University

Musculoskeletal tissue engineering, bioactive biomaterials, tendon injury and repair



Chris Geiger

Instructional Associate Professor
Ph.D., Northwestern University

Senior Design and engineering education



Kevin J. Otto

Professor
Ph.D., Arizona State University

Neural engineering, device-tissue interfaces and neurostimulation



Lakiesha N. Williams

Professor & Associate Chair for Graduate Studies
Ph.D., Mississippi State University

Traumatic brain injury, soft tissue mechanics, bio-inspired design and materials characterization