THE UCF DIFFERENCE

HIGH-IMPACT RESEARCH
The department’s robust research activities ($6,175,000 in new external funding in 2016-17) address a myriad of relevant societal topics, including coastal hydro-science, structural monitoring and performance, traffic safety, drinking water safety and intelligent transportation systems.

WORLD-CLASS FACULTY
Graduate students work alongside and publish with distinguished researchers internationally renowned for their scholarly contributions. They publish approximately 200 books, chapters and papers annually with external funding averaging $300,000. Department Chair Mohamed Abdel-Aty is editor of Accident Analysis & Prevention, the premier journal for transportation safety research. See below for more faculty highlights.

POWERFUL PARTNERSHIPS
Our partners and funders include the National Science Foundation, National Oceanic and Atmospheric Administration, Florida Department of Transportation, state and local agencies across the nation, as well as numerous corporate affiliates. Visit our website at cece.ucf.edu, and click Partnerships to learn more.

PRIME LOCATION
The central Florida region provides a year-round outdoor living laboratory for research areas such as water resources, coastal hydro-science and geotechnical topics such as erosion and sinkhole formation.

Jobs and internships are plentiful in the greater Orlando region, an economic powerhouse in the southeast.

FACTS OF INTEREST
UCF is home to the nation’s best Graduate Structural Engineering Student Chapter (Structural Engineering Institute), advised by Prof. Necati Catbas.

The world’s largest rainfall simulator at UCF’s Stormwater Management Academy is used to research soil erosion and other topics.

Potable water expert Steven Duranceau, associate professor, directs UCF’s Environmental Systems Engineering Institute. He is associate editor of Desalination and Water Treatment and has contributed to the understanding of corrosion control in water distribution systems.

Earthquake experts: Prof. Nicos Makris is editor of Earthquakes and Structures, and Assoc. Professor Kevin Mackie is chair of the American Society of Civil Engineers’ national technical committee on seismic effects.

Faculty member Dennis Filler wrote a chapter in a first-of-its-kind text-book, Handbook of Oil Spill Science and Technology.

Assistant Prof. Kelly Kibler, a water resources expert, is on a team of UCF scientists analyzing the impact of 20 years of restoration efforts in Indian River Lagoon, a significant estuary on Florida’s east coast. Her work on the $1.6 million NSF project focuses on how shorelines restored with oyster reefs and mangroves shape the physical and aquatic environments through the flow of water, input of sediments and more.

GRADUATE DEGREES OFFERED
MASTER’S
Civil Engineering (general or with track)
• Structures and Geotechnical
• Transportation Systems
• Water Resources
Environmental Engineering

DOCTORAL
Civil Engineering
Environmental Engineering

FACULTY HONORS
Our faculty are members and fellows of scientific societies including:
• National Academy of Engineering
• American Society of Civil Engineers
• American Association for the Advancement of Science
• European Academy of Sciences

ALUMNI AND STUDENTS SAY
“I credit much of my workplace success to the training and education I received at UCF.”
~ Joanne Keller, ’03, ’04
Engineer for Palm Beach County, Florida

“The opportunities at UCF have enriched my development and leadership. I have conducted breakthrough research on the effects of sea level rise in the northern Gulf of Mexico that benefits the scientific community and helps coastal managers and policy makers make informed decisions.”
~ Davina Passeri, Ph.D.,’15

“My UCF graduate studies went beyond my expectations. The courses are diverse and detailed. The many research opportunities provide amazing ways to tangibly connect academic work with ‘real-world’ engineering problems and practitioners on a local and global scale.”
~ Ryan Shamet, ’14, ’17, doctoral student, graduate teaching and research assistant, sinkhole scholar
UNIVERSITY OF CENTRAL FLORIDA  |  ORLANDO

RESEARCH FOCUS AREAS
Water resources and quality
Structural health and monitoring
Infrastructure
Traffic safety
Environmental engineering
Structural topics related to earthquakes
Sinkholes and other geotechnical topics

LABORATORIES
Spaces for advanced research techniques including micro- and macro-scale sensing, data mining, big data, simulation and computer modeling.

- Air Quality Modeling
- Bioenvironmental System Research
- Boyle Engineering Organic Analysis
- Joint-Use Computer Teaching
- Chemical/Biological Process
- Coastal Hydroscience Analysis, Modeling & Predictive Simulations
- Environmental Process
- Florida Water Service Drinking Water
- Geotechnical and Pavement
- Hydraulics
- Metals/Inorganic
- Microbiology
- Microsensor Biofilm Research
- Structural Health Monitoring
- Structural
- Transportation Simulation
- Water Treatment and Sustainability Research
- Welbro Construction Engineering

ALUMNI STARS
MARYAM GHYABI, CE, ’83, ’86
Owner and CEO of a transportation engineering firm. Chaired the Interstate 4 - St. Johns River Bridge Coalition. Was named one of the 10 most powerful women in the state by Florida Transportation magazine, and one of the five most influential women in Volusia County.

TAYLOR LOCHRANE, PH.D., CE, ’08, ’09, ’14
Research civil engineer, Federal Highway Administration. At UCF, he was the first engineering doctoral student to be elected student body vice president. He designed a student ridesharing system and an evening bus service for students.

LEILA JAMMAL NODARSE, CE, ’82
Senior client manager, Terracon. Started her own geotechnical engineering company after graduating. Established a UCF lecture series in memory of her father S.E. “Jim” Jammal.

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ADMISSION
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