As a global leader in modeling and simulation education, UCF builds a foundation for a high-performing workforce that will help shape the industry’s future. Our expert faculty and researchers bring years of experience to the classroom and have been involved in programs that yield transformative results, including virtual reality technology that helps treat PTSD and a software that transforms the production of floating offshore wind turbines.

UCF is also home to the Institute for Simulation and Training, which is one of the nation’s leading research centers for modeling, simulation, training, and virtual and mixed reality research for both defense and commercial applications. Plus, our location in Central Florida — the modeling, simulation and training capital of the world — provides us with unparalleled opportunities to work alongside top industry leaders in their initiatives, from implementing national security measures to improving healthcare. University researchers, educators and scholars harness the power of this multidisciplinary research to address society’s greatest challenges and drive positive change.

Orlando is known as the world epicenter of modeling and simulation because it is the only place where leading-edge research, effective design and go-to-market strategies create a nexus of innovation and practicality. Modeling and simulation is helping to solve some of the most challenging issues of our day, and we are at the center of that.”

Grace Bochenek ’98PhD
director of UCF’s School of Modeling, Simulation and Training

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**UCF and Army Team Up Together**

The Cooperative Research and Development Agreement — between UCF and the U.S. Army’s Development Command Soldier Center in Orlando — will provide the Army with innovative science and technology solutions. Additionally, UCF students will have the opportunity to intern with the Army, where they’ll contribute to the development of real-world solutions. This vital collaboration will mentor the next generation of scientists and engineers while fueling innovative ideas that benefit our nation’s soldiers.

**Local Hub with National Impact**

UCF and its local partners have begun future-proofing metro areas through a $50.8 million award from the U.S. Department of Commerce’s Economic Development Administration. Using $8.8 million from the investment, UCF will use digital twin technology — which encompasses digital replications of any real-world objects or systems — to replicate the production line at NeoCity’s Center for NeoVation in Kissimmee, Florida. The full project will expand the semiconductor manufacturing and research potential in NeoCity, which will position the region to lead the nation in semiconductor research.

**Connecting Infrastructure and Technology for Resilience**

Professor Mohamed Abdel-Aty leads interdisciplinary researchers in the FUTURe CITy Initiative to design and recommend urban policies that allocate limited resources and meet sustainability goals — all to promote social justice, equity and fairness. This effort includes advancements in smart environments, transportation, wastewater management and water management.

**Modeling and Simulation Companies Employing UCF Graduates**

NASA, Boeing, Lockheed Martin, Northrop Grumman, Siemens, L3Harris, Raytheon Technologies, Leidos, Luminar

Explore more about UCF’s impact on modeling and simulation at ucf.edu/modeling-simulation or scan here: