

College of
Engineering & Computer Science



2018
FAST FACTS



College

DEGREE MAJORS

Aerospace Engineering, B.S., M.S.
Biomedical Engineering, M.S.
Civil Engineering, B.S., M.S., Ph.D.
Computer Engineering, B.S., M.S., Ph.D.
Computer Science, B.S., M.S., Ph.D.
Construction Engineering, B.S.
Data Analytics, M.S.
Digital Forensics, M.S.
Electrical Engineering, B.S., M.S., Ph.D.
Engineering Management, M.S.
Environmental Engineering, B.S., M.S., Ph.D.
Industrial Engineering, B.S., M.S., Ph.D.
Information Technology, B.S.
Materials Science and Engineering, M.S., Ph.D.
Mechanical Engineering, B.S., M.S., Ph.D.
Modeling and Simulation, M.S., Ph.D.
Joint program with UCF College of Graduate Studies
Photonics Science and Engineering, B.S.
Joint program with UCF College of Optics and Photonics

DEPARTMENTS

- Civil, Environmental and Construction Engineering
- Computer Science
- Electrical and Computer Engineering
- Industrial Engineering and Management Systems
- Materials Science and Engineering
- Mechanical and Aerospace Engineering

North American Champions 2018 — UCF Computer Programming Team



COLLEGE AND UNIVERSITY RANKINGS

Nation's #1 workforce supplier to the aerospace and defense industry.

—*Aviation Week, 2015, 2016, 2017*

The college is ranked in the top 100 public graduate engineering colleges nationwide.

—*U.S. News & World Report 2019*

UCF Online is ranked in the Top 20 online programs in the country.

—*U.S. News & World Report 2018*

Ranked #1 in North America and #10 in the world, out of 13,000+ teams; and U.S. Southeast Champions—2012, 2013, 2014, 2015, 2016, 2017.

—Association of Computing Machinery's International Collegiate Programming Competition

Three-time national champions: UCF Collegiate Cyber Defense Competition Team —2014, 2015, 2016.

UCF is designated as a "highest research activity" institution by the Carnegie Foundation.

Among nation's "Most Innovative" universities alongside Harvard, MIT, Stanford, Duke and Georgia Tech.

—*U.S. News & World Report Best Colleges 2019*

Ranked in nation's top 25 for number of U.S. patents secured.

—National Academy of Inventors

No. 1 choice of high school seniors in Florida and the 12 states of the U.S. Southeast region.

—*2016 Cappex College Considerations Report*

Students

FRESHMAN CLASS PROFILE

Total Incoming Freshmen: 1,810

Summer/Fall 2017

	General	Honors
Avg. SAT Score:	1291	1451
Avg. ACT Score:	28.0	32.1
Avg. High School GPA: (weighted)	3.99	4.41

FINANCIAL SUPPORT

133 teaching assistant positions and 299 research assistant positions plus tuition funded in Fall 2017 at an average annual stipend of more than \$18,000

\$303,810 in college scholarships awarded to undergraduate and graduate students for 2017-18.



ENROLLMENT

Fall 2017

Total: 11,047

9,468 undergraduate

1,579 graduate

National Merit Scholars: 118

40 new

78 returning

Undergraduate Diversity

African-American: 7.6%

Asian: 8.7%

Hispanic: 26.6%

Female: 17.5%

Graduate Diversity

African-American: 5.3%

Asian: 5.8%

Hispanic: 14.6%

International: 40.1%

Female: 23.5%

DEGREES CONFERRED

	2016-17	Cumulative*
Bachelor's:	1,357	26,853
Master's:	322	8,219
Doctoral:	81	1,406
Total:	1,760	36,478

*1969 through Fall 2017

Student success is fueled by rigorous academic instruction, research opportunities alongside world-renowned faculty, and innovative leadership development and STEM retention programs described in detail at stem.ucf.edu/stem-programs-at-ucf.

Faculty & Staff

FACULTY HONORS

- 6 National Academy of Engineering Members
- 2 National Academy of Inventors
- 3 ASM International Fellows
- 2 American Society of Engineering Education Fellows
- 2 U.S. Jefferson Science Fellowships
- 11 Institute of Electrical and Electronics Engineers Fellows
- 5 American Society of Civil Engineers Fellows
- 5 American Society of Mechanical Engineers Fellows
- 1 Association of Computing Machinery Fellow
- 3 Institute of Industrial Engineers Fellows
- 10 American Association for the Advancement of Science Fellows
- 3 Electrochemical Society Fellows
- 3 American Institute of Medical & Biological Engineering Fellows
- 2 SPIE International Society for Optics & Photonics Fellows
- 1 American Vacuum Society Fellow
- 1 Institute of NanoTechnology Fellow
- 16 National Science Foundation CAREER Awardees
- 15 Additional National Early Career/Young Investigator Awardees

FACULTY AND STAFF	
Professors	58
Associate Professors	48
Assistant Professors	51
Lecturers/Instructors	28
Post-Docs/Adjuncts	74
Research Associates	2
Staff	82
Faculty Administrator	1
TOTAL	344

UCF ENGINEERING LEADERSHIP & INNOVATION INSTITUTE (eli²)

The need for engineering and technology leaders is echoed universally by industry, government agencies, academia and professional societies. With industry feedback and support, eli² launched in 2010 with a goal to build a community of leaders through lifelong engagement opportunities.

The eli² journey begins with programs to transform undergraduates into self-driven leaders focused on collaboration, creativity, innovation and accountability. The journey continues with UCF programs that bolster young professionals' progress into management positions and empower mid-level managers to emerge as executives positioned to solve the world's major societal challenges.

Maker Space Lab Complex

A resource provided by eli², the complex is located in the Engineering II building on campus and is available to the entire UCF community. It offers students a dedicated space to gather and collaborate, generate creative ideas, vet those ideas, then build and fine-tune working prototypes, all in one convenient place that allows for easy movement between labs.

- Harris Corporation Gathering Lab
- Idea Lab
- Texas Instruments Innovation Lab
- Manufacturing Lab

Learn more: eli2.cecs.ucf.edu

FACILITIES

	Completed	Square Feet
Engineering I	1985	130,885
Engineering II	2001	105,545
Harris Engineering Center	2006	113,866
Siemens Energy Center	2008	10,000
MAE Research Facility	2012	4,000

Research

RESEARCH

	FY 2016	FY 2017
Expenditures	\$27.9 million	\$30.3 million
New Funding	\$35.6 million	\$37.3 million

FACT:

From 2010 to 2017, the total new research funding for CECS exceeded **\$197 million**.

UNIVERSITY RESEARCH FACULTY CLUSTERS

The clusters advance UCF's unique research strengths and foster strong, interdisciplinary teams focused on solving the world's toughest scientific and societal challenges.

See www.ucf.edu/faculty/faculty-research-clusters for detailed information.

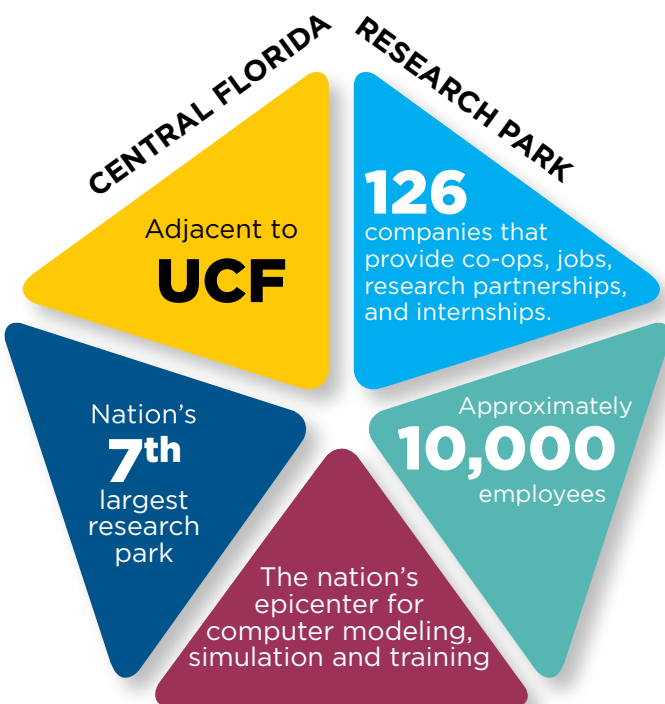
- Cyber Security and Privacy
- Disability, Aging and Technology
- Energy Conversion and Propulsion
- Genomics and Bioinformatics
- Learning Sciences
- Prosthetic Interfaces
- Renewable Energy Systems
- Sustainable Coastal Systems
- Violence Against Women

RESEARCH CENTERS

- Center for Advanced Transportation Systems Simulation
- Center for Advanced Turbo-machinery and Energy Research
- Center for Research in Computer Vision
- Consortium for Applied Acoustoelectronics Technology
- Environmental Systems Engineering Institute
- Institute for Advanced Systems Engineering
- Interactive Computing Experiences Research Cluster of Excellence
- Multi-functional Integrated System Technology Center
- Stormwater Management Academy

UCF AT A GLANCE

Among the nation's largest universities, UCF and its 13 colleges provide opportunities to 66,000+ students from all 50 states and 152 countries. UCF is called a "Most Innovative" university by *U.S. News & World Report*, and is consistently ranked a best-value university by *Kiplinger* and *Forbes*.



UNIVERSITY OF CENTRAL FLORIDA
*has been designated as a
 National Center of Academic Excellence
 in Cyber Defense Education*

Research, continued

UNIVERSITY TRANSPORTATION RESEARCH CENTERS

(U.S. Department of Transportation)

- Electric Vehicle Transportation Center Tier 1
- National Center for Transportation Systems Productivity & Management Tier 1
- Safer SIM Tier 1 (Simulation)
- Southeastern Transportation Center Region 4

FEEDER CONSORTIUM

(U.S. Department of Energy)

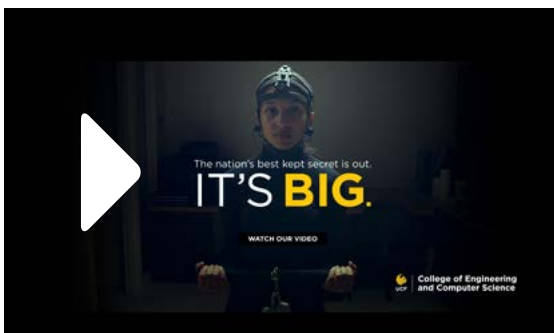
FOUNDATIONS FOR
ENGINEERING EDUCATION
FOR DISTRIBUTED ENERGY
RESOURCES

UCF is the lead partner in a national effort to upgrade and sustain the nation's energy grid. More than 50 partners include 2 national labs, 22 utilities and co-ops, 12 universities and 15 industry.

RESEARCH CENTER PARTNERS

Advanced Materials Processing and Analysis Center
Biomolecular Science Center
Center for Research and Education in Optics and Lasers
Florida Photonics Center of Excellence

Florida Solar Energy Center
Florida Space Institute
Institute for Simulation and Training
NanoScience Technology Center
National Center for Forensic Science
Townes Laser Institute



COLLEGE SHOWCASE VIDEO

Watch "Do Something Big" at cecs.ucf.edu

DEAN

Michael Georgiopoulos, Ph.D.

DEAN'S ADVISORY BOARD

Beverly J. Seay, Chair and UCF Trustee

Representing large and small businesses, government agencies and academia, the board's 30+ members provide strategic direction and guidance to the college. See cecs.ucf.edu/board for more information.



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UNIVERSITY OF CENTRAL FLORIDA



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Dean's Office | Harris Engineering Center #114
P.O. Box 162993 | Orlando, FL 32816-2993
407-823-2156 | info@cecs.ucf.edu

For more information, visit cecs.ucf.edu

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