One of the largest universities in the nation, UCF has experienced unprecedented growth in students and faculty in the past decade. The College of Engineering and Computer Science is leading this growth, with nearly 100 new faculty hired in emerging research areas of national and global importance: Cyber Security and Privacy; Data Analytics and Big Data, Power Systems and Smart Grid; Smart Prosthetics; Coastal Research; Catalysis and Propulsion; Science of Learning; Disability and Aging Technology; Smart Cities.

Through fellowships and assistantships, the college annually supports nearly 500 Ph.D. students in its six academic departments, including 100 new Ph.D. student positions recently added.

**SELECT RESEARCH STRENGTHS BY DEPARTMENT**

<table>
<thead>
<tr>
<th>Department</th>
<th>Research Areas</th>
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</thead>
<tbody>
<tr>
<td>Civil Environmental and Construction</td>
<td>Transportation, Structural Health Monitoring, Water Quality</td>
</tr>
<tr>
<td>Computer Science</td>
<td>Computer Vision, Virtual and Augmented Reality, Human-Computer Interaction, Artificial Intelligence, Machine Learning</td>
</tr>
<tr>
<td>Electrical and Computer Engineering</td>
<td>Cyber Physical Systems; Devices and Sensors; Communications and Signal Processing; Power Grid Technology and Resiliency</td>
</tr>
<tr>
<td>Industrial Engineering and Management Systems</td>
<td>Modeling and Optimization of Complex Networks, Complex Adaptive Systems and Data Analytics, Interoperability and Interactive Simulation Systems</td>
</tr>
<tr>
<td>Materials Science and Engineering</td>
<td>Manufacturing (Micro, Nano, Additive), Smart and Electronic Materials, Biomedical Materials and Devices</td>
</tr>
<tr>
<td>Mechanical and Aerospace Engineering</td>
<td>Advanced Turbomachinery and Energy Research, Thermal Fluids, Biomedical, Mechanical Systems</td>
</tr>
</tbody>
</table>

Visit department websites for all research areas and faculty information.

**FOR MORE INFORMATION**

- [Graduate Programs Resource Center](application.graduate.ucf.edu)

**TO APPLY**

Interested doctoral students can apply online at [application.graduate.ucf.edu](application.graduate.ucf.edu)
UCF AND COLLEGE RANKINGS

• Nation’s #1 workforce supplier to aerospace and defense industry (Aviation Week)
• Top producer of engineers and computer scientists nationally
• Ranked as one of the nation’s most innovative universities by U.S. News & World Report 2018
• Three-time national champion Cyber Defense Team (2014, 2015, 2016)
• Top-ranked Computer Programming Team: #1 in the U.S. and #13 in the world out of 13,000 regional teams; and U.S. Southeast regional champions for six consecutive years.

FOR MORE INFORMATION ABOUT THE COLLEGE OF ENGINEERING & COMPUTER SCIENCE
SEE cecs.ucf.edu

OPPORTUNITY STARTS HERE

CONTACT
Prof. Bassiouuni
Interim Associate Dean for Graduate Affairs
bassi@cs.ucf.edu

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UNIVERSITY RESEARCH IMPACT

$136 million in research funding (FY 2017)

#21 ranking among public universities for number of patents

998 total patents secured

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