

## GRADUATE PROGRAMS:

# CERTIFICATE IN ELECTRONIC PARTS ENGINEERING



### PROGRAM HIGHLIGHTS:

- This certificate is part of a new partnership between UCF and the NASA Electronic Parts and Packaging Program.
- Courses are available both online and in-person

### COURSEWORK INCLUDES:

- Semiconductor Material and Device Characterization
- Reliability Engineering
- Power Electronics
- Radiation Effects and Reliability
- Introduction to Space Electronics
- Radio Frequency Integrated Circuit Design
- Semiconductor Device Modeling and Simulation
- Introduction to Sensors
- Field-Programmable Gate Array Design

For complete program requirements, see the UCF Graduate Catalog at [graduatecatalog.ucf.edu](http://graduatecatalog.ucf.edu).

[ECE.UCF.EDU](http://ECE.UCF.EDU)



**Electrical and  
Computer Engineering**

### DEVELOP EMERGING TECHNOLOGY WITH A GRADUATE CERTIFICATE IN ELECTRONIC PARTS ENGINEERING

There is a global need for electronics that are safe, reliable and trustworthy, particularly for environments with extreme levels of heat, humidity or radiation. With a graduate certificate in electronics parts engineering from UCF, you'll be ideally positioned to manufacture the integral components that power everything from cell phones to satellites.

You'll learn how to assess engineering equipment, verify the reliability of electromechanical components and ensure that the manufactured elements are produced on time and on budget. While working with parts manufacturers, you'll establish testing plans, including screening and qualification test campaigns and any required failure analyses, and evaluate test results for proper disposition for space flight usage.

The graduate certificate is part of a partnership with the NASA Electronic Parts and Packaging Program, an initiative designed to address a shortage of parts engineers in the workforce. As part of the program, you'll have the opportunity to conduct hands-on training at the Kennedy Space Center, helping assess the capabilities of new electronic parts engineering technologies and suppliers for spaceflight use.

Earn the certificate and change your career trajectory by supporting the rapidly growing space industry, as well as critical infrastructures that rely on microelectronic devices and integrated circuits in harsh environments.

LEARN MORE



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### WHERE GRADUATES WORK

UCF's graduate certificates provide job preparation through hands-on experiences with industry clients. Internships and jobs are plentiful with UCF's proximity to Central Florida Research Park and Florida's high-tech corridor. Our graduates have successful careers at top companies, including AMD, Texas Instruments, Intel, Meta, Siemens, Mitsubishi Power Systems, L3Harris and Northrop Grumman.

### APPLICATION DEADLINES

#### Domestic Applicants:

Fall — July 1

Spring — Dec. 1

Summer — April 1

#### International Applicants:

Fall — Jan. 15

Spring — July 1

Spring — Nov. 1

### FOR MORE INFORMATION:

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### ABOUT THE UCF DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

At the UCF Department of Electrical and Computer Engineering, we strive to achieve national and international prominence in graduate study and research. We boast an outstanding faculty that is engaged in cutting-edge research through several highly competitive, prestigious grants. As a graduate student, you have the opportunity to pursue research in an area of your interest under the tutelage of our faculty.

- Our research faculty received more than \$6 million in funding over the last academic year.
- Our electrical and computer engineering programs are consistently ranked by *U.S. News and World Report*.
- The department has formed partnerships with pioneers such as Texas Instruments, AMD and Intel to provide internship opportunities for its students.
- UCF is located in Orlando, close to industry giants such as Lockheed Martin, Siemens Energy, Northrop Grumman and NASA's Kennedy Space Center.

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