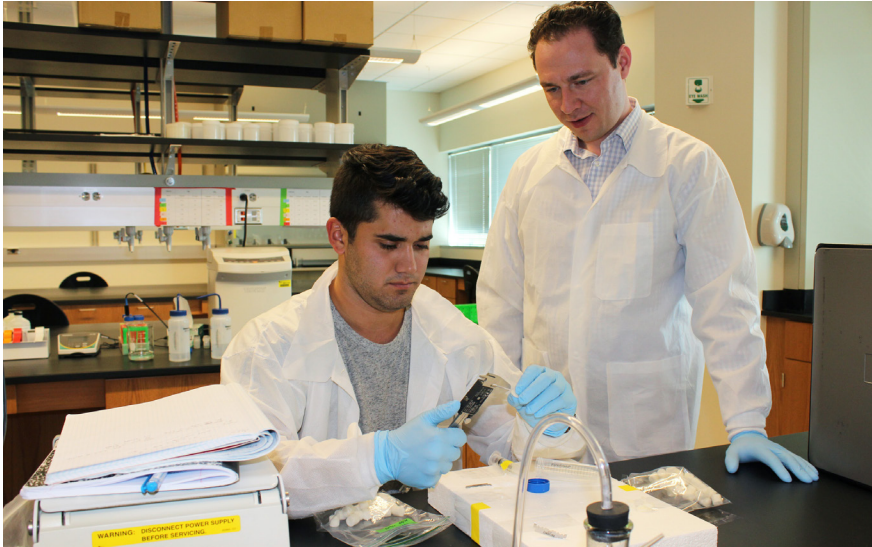


## Materials Science and Engineering



### ABOUT MATERIALS SCIENCE AND ENGINEERING

**M**aterials science engineers are involved with creating new materials or altering known materials to improve anything engineered, from computer chips to structural materials, medicine to electronic sensors, environmental and sustainable materials and materials in manufacturing and commercialization. For example, they make materials (hard and soft matter) more durable, stronger, lighter, efficient, adaptable or productive; and they discover new and innovative ways to use materials. UCF researchers in this field have contributed to scientific advances as in fields as diverse as medicine and space exploration.



### COURSEWORK INCLUDES

- *Structure and Property of Materials*
- *Electronic Materials*
- *Biomaterials*
- *Polymers*
- *Mechanical Behavior of Materials*
- *Nanomaterials*
- *Experimental Techniques in Materials*
- *Materials Processing*



### RELATED MINORS

- *Engineering Leadership*
- *International Engineering*

### RELATED STUDENT ORGANIZATIONS AT UCF

Materials Research Society, Electrochemical Society, American Vacuum Society, American Society of Materials, Society of Biomaterials, Materials Advantage, and many more



### TOP EMPLOYERS

- MSE graduates can be employed in almost all fields of human endeavor, particularly in fields where one uses a material to produce something, such as the automotive, aerospace and microelectronics industry. Grads are also employed in plastics and materials industries, where they create a material for use by others. Additionally, they can be found in knowledge-based industries, such as archaeology and education.



# \$65,806

*typical starting salary*



## POSSIBLE JOB TITLES

**Metallurgical Engineer, Materials Engineer, Ceramics Engineer, Composites Engineer, Process Engineer**

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

LEARN MORE >>>

# UCF RANKINGS

**#1**

Nation's #1 workforce supplier  
to aerospace and defense industry  
(Aviation Week)

**10**

Nation's Top 10 most innovative  
universities, U.S. News &  
World Report, 2019

**324**

324 National Merit Scholars  
(Fall 2018). UCF in nation's  
Top 40 for incoming scholars.

**#1**

Ranks #1 in North America,  
#10 in World among 13,000+ regional  
teams (2018 Association of Computing  
Machinery's International Collegiate  
Programming Competition)

**6x**

U.S. Southeast Champions:  
UCF Programming Team –  
2012, 2013, 2014, 2015, 2016, 2017

**4x**

National Champion Collegiate  
Cyber Defense Competition  
Team – 2014, 2015, 2016, 2018

**25**

Nation's Top 25 ranking among public  
universities for number of patents



## ABOUT THE UNIVERSITY OF CENTRAL FLORIDA

Located in Orlando, Florida, UCF is among the nation's largest universities with more than 68,000 students from all 50 states and 154 countries. UCF's 13 colleges offer 220+ degree programs. Students find community and camaraderie in more than 650 registered student organizations. To learn more, visit [www.ucf.edu/admissions](http://www.ucf.edu/admissions).

## COLLEGE OF ENGINEERING AND COMPUTER SCIENCE

With 11,000+ students, the college is among the nation's top producers of engineers and computer scientists. Students receive rigorous instruction, enhanced with real-world hands-on experiences, to graduate with solid technical skills in 12 majors offered: aerospace engineering; civil engineering; computer engineering; computer science; construction engineering; electrical engineering; environmental engineering; industrial engineering; information technology; materials science and engineering; mechanical engineering; and optics and photonics.

During their academic career, students benefit from unique and innovative leadership and diversity-based support programs, such as the UCF Engineering Leadership & Innovation Institute (eli2) ([www.cecs.ucf.edu/eli2](http://www.cecs.ucf.edu/eli2)), and renowned STEM retention programs described at [stem.ucf.edu/stem-programs-at-ucf](http://stem.ucf.edu/stem-programs-at-ucf).



 **College of Engineering and Computer Science**  
UNIVERSITY OF CENTRAL FLORIDA

### FOR MORE INFORMATION

Department of Materials Science and Engineering

407-823-0607  
[www.mse.ucf.edu](http://www.mse.ucf.edu)



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

