

STUDENT FORUM: TOWN HALL STYLE

Bring your questions! We hope to fill the hour with conversation.



College of Engineering and Computer Science

2020 Fall Student Forum

Wednesday, September 16, 2020 1-2pm

Virtual: Zoom







CONTENTS

- College Overview and Updates
- Successes and Kudos
- Student Success Center







COLLEGE HISTORY & OVERVIEW

- Engineering Program established in 1969, offering one Bachelor of Science Degree in Engineering.
- College of Engineering formed in 1974. College of Engineering and Computer Science established in 1977. Discipline-based degrees initially offered beginning in 2003.
- Now 44 years young, the college offers fully-accredited degrees in 8 undergraduate, 3 master's, and a Ph.D. programs. The college also offers 12 graduate certificates.
- Undergraduate and graduate students come to the College of Engineering and Computer Science from 65 Tennessee counties, more than 19 states, and 21 nations.
- Active student chapters representing 15 professional organizations exist.



COLLEGE OF ENGINEERING & COMPUTER SCIENCE

Vision

To be a preeminent college of engineering, engineering management, technology, and computer science in education and applied research.

Mission

- 1. Educate and train future technical & engineering management workforce for Tennessee, the nation, and beyond.
- 2. Discover new knowledge in engineering, management, technology and computer science.
- 3. Engage communities through scholarship, service and economic development.





DEPARTMENTS

- Civil and Chemical Engineering
- Computer Science & Engineering
- Electrical Engineering
- Engineering Management & Technology
- Mechanical Engineering





OUR STUDENTS YOU!

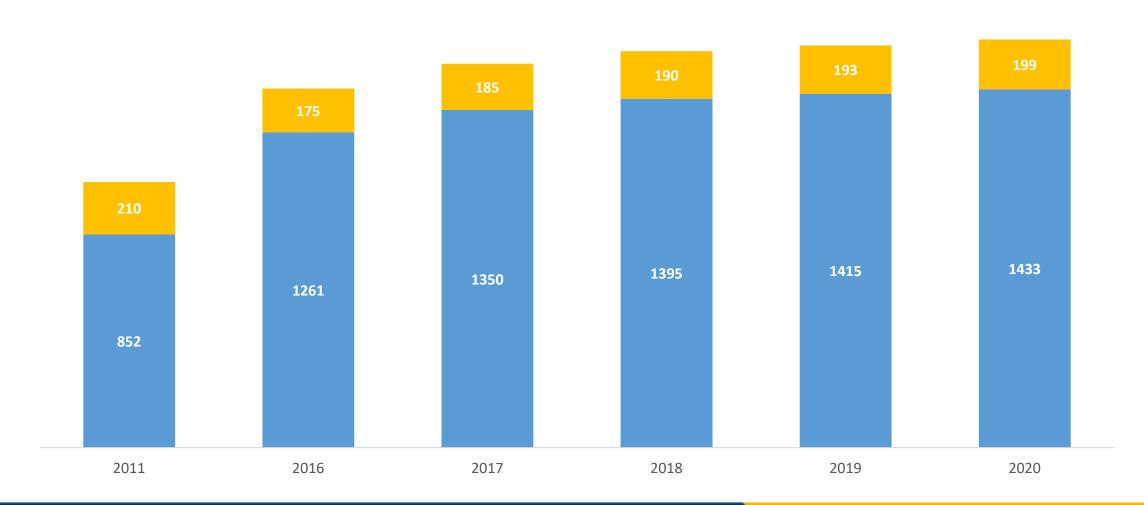
- Fall 2020 Total Enrollment: 1,632
- Enrolled Full Time:
 - 90% of undergraduate students are full time
 - 40% of graduate students are full time
- Adult Learns (25-years and older)
 - 17% of undergraduate students
 - **78**% of graduate students
- Nearly 1-in-5 are first generation college students
- **71** CECS students are veterans
- CECS students are 15% female, 85% male





CECS Enrollment

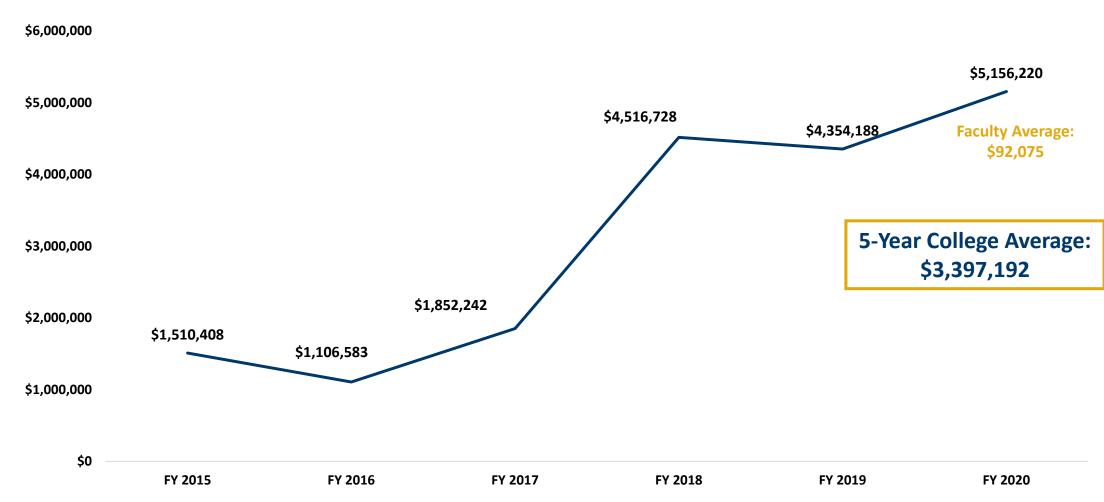






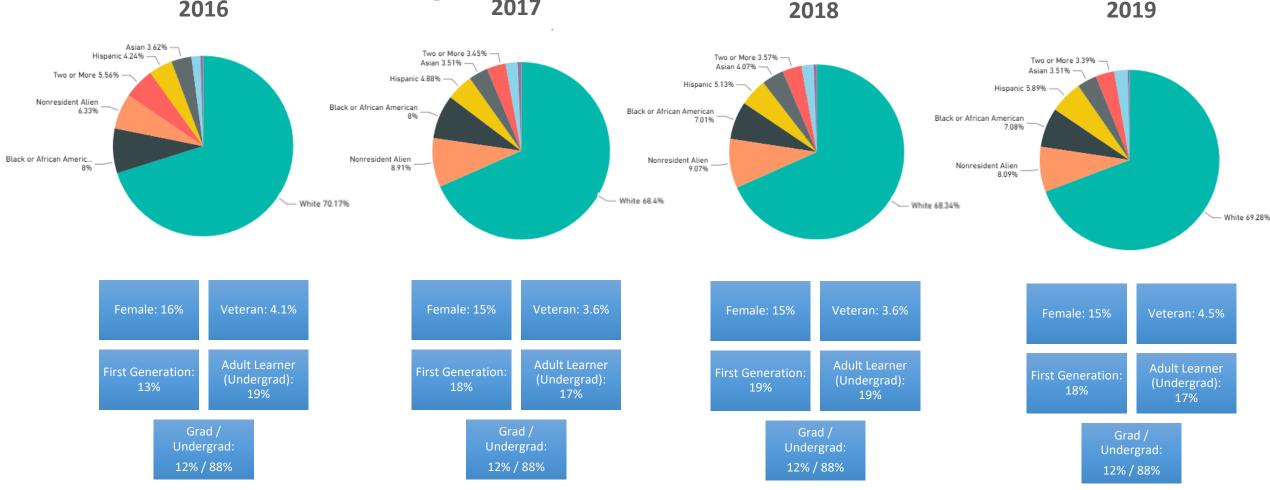
APPLIED RESEARCH PRODUCTIVITY

Total Award Dollars Received





College Demographics





Recent Accomplishments



Record Number of CECS Undergraduate Degrees Awarded in 2019-2020



Click here for Video Celebrating CECS Graduates

- 293 CECS students graduated last academic year
- Increase of 11% over the past academic year
- Increase of nearly 78% more graduates than 2015-2016



CECS on Frontlines to Combat COVID-19

- Dr. Trevor Elliott led UTC efforts to produce 3D printed PPE parts for Tennessee
- Dr. Kaplanoglu led a team of two students in the CoVent-19 competition to design a rapidly deployable mechanical ventilator
- Dr. Menjgun Xie and a student developed the COVID-19 Self-Check software deployed by the university



Self Check Option	0	8
Self Check Survey Answer the following questions to determine if you should stay at home		
Who will receive your survey response? * Supervisor		
What's your body temperature? *		
	© °F/°	C
Have you been tested for the coronavirus (awaiting results)? * Yes No		
Have you tested POSITIVE for the coronavirus?		
○ Yes ○ No		





UTC CECS Mechanical Engineering Alumnus Chantz Yanagida works closely with HCDE and other community leaders to print and produce respirators.



National, Regional Rankings for MS Engineering Management



- Online master's in engineering management program is ranked No. 3 in the nation and as the best program in the South by intelligent.com
- Rankings based on cost, course strength, reputation, faculty and flexibility
- UTC scored 95.60; the No. 1 program at the University of Idaho scored 98.46

"Our top picks for the best master's in engineering management are well-regarded, customizable and affordable."



Student Success Stories



Click here for video



Chemical engineering graduate wins prestigious Goldwater Scholarship

Click here for the story



Student Success Storica



Lee family is a triple threat with 3 siblings earning UTC degrees

Click here for the story



Work by UTC students makes things easier for hospital patients

Erlanger is using electronic kiosks that register patients, and the system is expected save the hospital about \$1.05 million over five years. It's a system three students pitched to Erlanger.

Click here for the story



Sinking the putt: Monica San Juan wins at school and sport

To be good at engineering is time-consuming. To be good at golf is time-consuming. To be good at both is, well, rare, and extremely difficult. Monica San Juan did both at UTC.

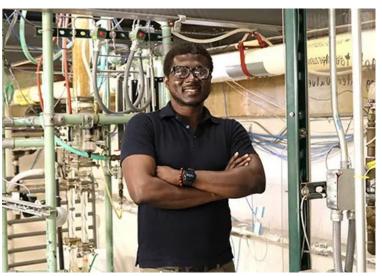
Click here for the story



Faculty Accomplishments

- Dr. Daniel Loveless led the effort to have UTC chosen as the Missile Defense Agency's partner institute in the SCALE microelectronics/rad fx consortium
- Dr. Michael Danquah was selected as a UC
 Foundation Professor, a recipient of the Ruth S.
 Holmberg Grants for Faculty Excellence, and
 elected to the Royal Society of Chemistry
- Dr. Mina Sartipi was selected as a Guerry Professor







Center for Urban Informatics and Progress (CUIP) Wins International Award

- Researchers at UTC are creating a computer model that can predict where traffic accidents will happen
- The project was selected as a winner in the International Data Corp.'s Smart City North America Awards
- Chattanooga and Hamilton County were named as the winner in the Police and Law Enforcement category for the "911 Project," spearheaded by UTC's CUIP, a member of the Chattanooga Smart City Collaborative



Dr. Mina SartipiCUIP Executive Director
Professor of Computer Science and Engineering



CECS Academic Advisors



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Dana Schmutte

Dana-Schnutte@utc.edu

Location: EMCS 344F

423-425-4309



Peer-to-Peer Tutoring

Lisa Tarr-Staff Mentor
Samantha Sweck -CECS Lead Peer Tutor

Sign-up for Tutoring

12 Peer Tutors2 Study Rooms

To schedule a tutor session:

MyMocsNet/Academics Tab/NAVIGATE/ Get Assistance. Then Choose tutoring



OUTREACH



Sara Jackson
Outreach Coordinator
Sara-Jackson@utc.edu
(423) 425-5828
344B EMCS

Student leaders are encouraged to participate in outreach activities. In 2019/2020 academic year, CECS participated in more than 200 recruiting events.



STUDENT AMBASSADORS



Ambassadors are here to help. Learn more - utc.edu/ambassadors





Professional Development



Nicole Wake, CECS Career Counselor EMCS 332 423/425-4730

Schedule an appointment with Nicole through Handshake

- Resume Review
- Job Search Techniques
- Interview Skills
- Dress For Success
- Prep for the Career Fair tips





Applications Open in October

Submit one application to be considered for 20+ scholarships specifically for CECS students

Awards announced in April – at Scholarship Awards Dinner

VISIT: utc.edu/CECS-Scholarships



CECS Residential Learning Community



- Provide students a unique, inclusive residential experience
- Allows students to learn where they live
- Students reside with like-minded peers interested in engineering, technology and computer science
- Students learn character development, maturity and individual growth



HANDSHAKE



Total Employers in Handshake: 8,029

Industries:

- · Manufacturing- 775
- · Internet Software- 944
- · Automotive- 198
- · Civil Engineering- 173
- · Utilities/Renewable Energy- 173
- · Electronic Computer Hardware- 156
- · Environmental Science- 211
- · Scientific/Technical Consulting- 221
- · Aerospace- 110
- · Telecommunications- 134
- · Construction- 290



Handshake

Find Your Next

Inspiration
Coffee Chat
Mentor
Internship
Opportunity

Job

Career Path Mission

ii Handshake

Why should I use Handshake?

6,000+ Employers
1400 within CECS focused Industries
Industries:

Manufacturing – Other (344)
Internet & Software (362)
Automotive (77)
Civil Engineering (76)
Utilities and Renewable Energy (61)
Electronic & Computer Hardware (55)
Environmental Services (73)
Scientific and Technical Consulting (80)
Aerospace (16)
Telecommunications (39)
Construction (140)
Electronic and Comp Hardware (55)



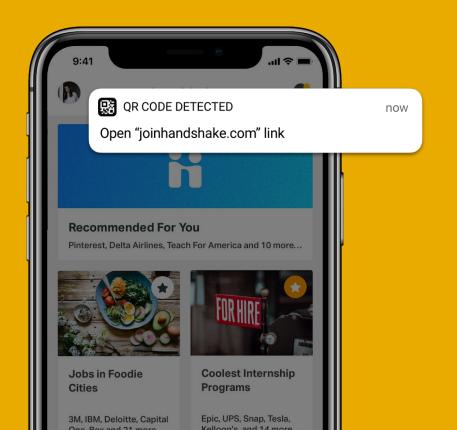
GET STARTED: STEP 1

Log In

Open the camera app to scan QR code, and tap the notification that pops up.

Alternatively, visit

utc.joinhandshake.com





GET STARTED: STEP 2

Download the app

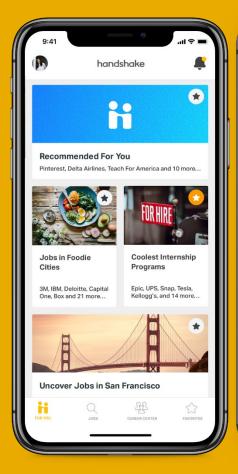
Search for "Handshake" on the App Store or Google Play.

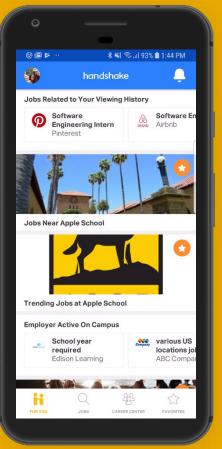
12.4K reviews













GET STARTED: STEP 3

Develop and launch your career.

Find your next.

Log into the Handshake app today and kick off your college-to-career journey.

