

Having trouble with links?
[View the eBlast in the archives.](#)



TNTech College of Engineering
News & Events

Tuesday, Feb. 5, 2019

Calling All Engineers and Engineering Students - Be counted! Take the [Global Engineer Survey](#). While we know a lot about what engineers do, we want to find out more about *why you do it*. We will post the results on April 3 as we celebrate **Global Day of the Engineer**, a worldwide celebration of the engineering community's positive impact and a call to inspire future innovators. [This is YOUR survey!](#) Please take a few minutes to weigh in. Then [share the survey](#) with your friends and colleagues.

FREE PIZZA (and how to turn your idea into a business). Join us in the iMakerSpace on Wednesday, Feb. 6 at 5 p.m. for free pizza, while you also hear from Tech faculty and The Biz Foundry on how to make your idea come to life. Business Model Canvas is a great tool for you to learn if your idea or product is viable, how to identify your customers, find any issues, and give yourself and your team the best chance for success! The Eagle Works judging rubric is based off BMC, so if you're thinking about competing, this pop-up is vital! For more information, please email akruszka@tntech.edu or visit www.tntech.edu/eagleworks.

oSTEM chapter meeting Feb. 6 - officer elections: Out in STEM (oSTEM) is a new organization focused on promoting LGBTQIA+ individuals and allies in STEM fields. The next meeting will be at 6 p.m., Wednesday, Feb. 6, in Foster Hall 233. During this meeting we will elect officers for the semester and organize upcoming events. We welcome students and faculty from all departments. Come enjoy some pizza and learn more about this new organization!

NSBE General Body meeting is going to be Thursday, Feb. 7 in Bruner Hall 206 during dead hour. Deadline for \$10 dues is also on Thursday.

Career Spots with the Center for Career Development | [All events are scheduled from 11 - 11:45 a.m. on the 1st floor of the RUC.](#) Drop by and learn about our events, make appointments for resumes, or if we aren't too busy, then maybe get it reviewed there. **Next Career Spot: Thursday, Feb. 7**

Thursday, Feb. 7 | 11—11:30 a.m. Additively Innovative Lecture Series "The Phantom Hole Technique, Improving Structural Performance in FFF/FDM 3D Printed Products" with Eric N. Wooldridge, Professor of Additive Manufacturing, Somerset Community College, Kentucky. **Join from anywhere via tntech.zoom.us/j/432789883**

Theta Tau presents... DENSO – Crafting Your Career! Thursday, Feb. 7th at 6:15 p.m., Prescott Hall 215.

Topics of discussion:

- How to prep for your first job
- What to expect at your first co-op /job
- Crafting your career in Engineering
- Ask the Engineers: Students can ask questions to the panel of engineers

Career Readiness Certification Events | [All events are scheduled from 11 - 11:45 a.m. in the Tech Pride Room of the RUC.](#) Next event: **Tuesday, Feb. 12:** Employer Tips on Successfully Working a Job Fair (Panel Discussion) with various employers.

SENIOR EXIT EXAM

Congratulations SPRING GRADUATES! In order to complete your requirements for graduation you MUST take the Senior Exit Exam. It is required by the State of Tennessee that all students attending a state-supported college or university complete this assessment. Failure to do so will result in your diploma being on hold until the test is taken.

REGISTER TODAY at the following link.

<https://www.tntech.edu/engineering/cnh-ssc/senior-exit-exam/see-registration>

OFFICE LOCATION CHANGE

Dr. Elizabeth Powell, SSC Assistant Director is now located in Clement 314.

SSC ACADEMIC ADVISING LOCATIONS

- Dr. Ahmed Abounassif – CLEM 316
- John Faulkner – CLEM 302
- Carol McGee – CLEM 301
- Amanda Miller – BRWN 203
- Linda Randolph – CLEM 320

**Please note that academic advising does NOT take place in the Student Success Center.

College of Engineering Ph.D. Graduate Student Research Progress Presentations.

Thursday, Feb. 7, 3-4 p.m., Prescott Hall, Room 225

- "A Theoretical Approach for Determining Mechanical Properties of Polymer Materials at Cryogenic Temperatures" presented by Bo Bonning, Chemical Engineering, Holly Stretz, Ph.D., Advisor
- "Structural Performance Of Flat Oval Duct System Using Finite Element Modeling" presented by Venkata Avinash Paruchuri, Mechanical Engineering, Stephen Idem, Ph.D., Advisor
- "Privacy-preserving Computing on Encrypted Data" presented by Mahmoud Nabil Mahmoud, Electrical and Computer Engineering, Mohamed Mahmoud, Ph.D., Advisor

Tuesday, Feb. 12, 3—3:30 p.m., Prescott Hall, Room 225

- "Fundamental Stock Classification with a Genetic Multi-Objective Ensemble of ANNs (GMEANNs)" presented by Jesse Roberts, Computer Science, Doug Talbert, Ph.D., Advisor
- "Hardware attack detection in Home Area Network Leveraging Network Traffic Modeling" presented by Hawzhin Raoof Mohammed, Electrical and Computer Engineering, Syed Rafay Hasan, Ph.D., Advisor

Each graduate student will have a 10 min. presentation followed by a 5 min. Q&A session.

The student presenters are supported by State of Tennessee funds in recognition of Tennessee Tech's Carnegie classification.

Laboratory Internship Virtual Event - L.I.V.E. [Oak Ridge National Laboratory \(ORNL\)](https://orau.6connex.com/event/LIVE/ORNL19Q1/login) Science Education and Workforce Development Virtual Career Fair **Wednesday, Feb. 20, 2019 from noon to 3 p.m. Register today!**
<https://orau.6connex.com/event/LIVE/ORNL19Q1/login>

EWeek Banquet Student Tickets are ON SALE NOW in all departments! Student tickets are \$5.00, refunded when the ticket is presented at the door the evening of the banquet. **Tickets will not be sold at the door.**

REMEMBER: Student ticket sales from each department go toward Best Darn Major points!

The Engineers' Awards Banquet will be held on Thursday, Feb. 21, 2019 at 6:00 p.m. with seating beginning at 5:30 p.m. in the Multipurpose Room of the RUC.

ABB is hosting a presentation about co-op opportunities at ABB for Tech students Thursday, Feb. 21 in Brown 241 during dead hour. Dan Hagen and Ben Schnurbusch plant managers with ABB and Mechanical Engineering students: Hunter Ross, Chance Bowman and Pedro Garza-Ramos will also share their co-op experiences at ABB. Free pizza will be provided.

ABB is a pioneering technology leader that works closely with utility, industry, transport and infrastructure customers in roughly 100 countries. Find them on the web at new.abb.com.

The SEARCH is Underway! The search is underway for energetic, personable, organized, informed students to represent Tennessee Tech and the College of Engineering as Student Ambassadors. Mr. Ingle, SSC Director, looks forward to meeting with you to get to know you and share information about the student ambassador program. **Interviews will be held during the month of February.** Contact Donna Thorne at dthorne@tntech.edu to schedule a meeting with Mr. Ingle.

MARK YOUR CALENDAR NOW!

Tuesday, Feb. 19: Preparing for the Engineering Fair with Lynsey Nail of ATC Automation is from **11 – 11:45 a.m. in the Tech Pride Room.** *This is a Career Readiness Certification Event sponsored by the Center for Career Development.*

Thursday, Feb. 28: The 2019 Engineering Career Fair is from **10 a.m. – 2 p.m. at the Hooper Eblen Center.**

- **Don't forget to bring your Eagle Card! This will allow you to sign in quickly and get a *personalized* name tag!**
- **Enter through tunnel on McGee Blvd.**
- **Engineering Fair 2019 is a *NO BACKPACK ZONE* | Please lock your backpack in your car or leave it in your room.**
- **This year's event is Freshman-Friendly.**
- The Engineering Fair is open to ALL students, ALL majors, freshmen to alumni. Co-op, internship, and full-time job opportunities will be available. Be sure to review this [Career Fair Tips](#) handout to make the most of the Engineering Fair!

Find the list of attending employers and other important information [here](#).

The 2019 Engineering Career Fair is co-sponsored by the Center for Career Development and the [Engineering Joint Council](#).

2019 Summer REU (NSF Research Experience for Undergraduates) on Secure and Privacy-Preserving Cyber-Physical Systems: Software and Hardware Approaches

- Location: Tennessee Tech University, Cookeville, TN
- Durations: 10 weeks, from June 3 to August 9
- In addition to gaining valuable research experience in cybersecurity field that is of national interest, every student can receive in terms of stipend and other allowances up to \$8,000.

- Room and board in an on-campus university dormitory.
- Meal plan
- GRE preparation courses
- Eligibility: No prior research experience is required
- Enrolled in an accredited U.S. university or college
- U.S. citizens or permanent residents
- **We will start processing the applications on March 1st.** Submitted applications after this date may also be considered if some positions are not filled.

Website <http://www.cae.tntech.edu/~mmahmoud/REU/REU.htm>

SHOUT OUT!’ an upcoming event in the CoE [eBlast!](#)

The [eBlast](#) is a twice weekly email to Tech’s College of Engineering campus community – students, faculty and staff. It consolidates announcements, reminders of important registration dates, and special events within the college – like DENSO Day, block parties, career fairs and seminars. Engineering student organizations also post reminders of upcoming meetings.

Send announcement information to engineering@tntech.edu. Be sure to include the name of the organization, contact email, along with date, time and location of the event. Also the organization web address or social media link(s) – when available.



College of Engineering . Box 5005 . 1010 N. Peachtree . Clement Hall 201 . Cookeville, TN 38505
P 931-372-3172 . F 931-372-6172 . E engineering@tntech.edu. www.tntech.edu/engineering