



TNTech College of Engineering News & Events

Tuesday, Jan. 29, 2019

APPLY NOW for the 2019 Engineering, Computing and Technology SPECTRUM Award
All entries and recommendations must be received TODAY Tuesday, Jan. 29, 2019

- All juniors and seniors enrolled in the College of Engineering, except for previous winners, are eligible.
- Two winners will be chosen from each department—ChE, CEE, CSC, ECE, MET and ME.
- Each winner will receive a cash award and an award plaque.
- Awards will be presented at the Engineers Week Awards Banquet, Thursday, Feb. 21, 2019

Visit www.tntech.edu/engineering/spectrum for more information and to apply.

Contest organized by the Department of Computer Science.

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.

How would winning thousands of dollars feel? Branding is more than a pretty picture and a catch phrase—it's a feeling! On **Wednesday, Jan. 30, come to our Branding pop-up event at 5 p.m. in the MakerSpace** to learn why branding isn't limited solely to aesthetic advertising, but is really all about conveying a positive emotion about your company, your product, and yourself! MakerSpace is on the third floor of the Volpe Library. For more information, please email akruszka@tntech.edu or visit www.tntech.edu/eagleworks

Out in STEM (oSTEM) is a new organization focused on promoting LGBTQIA+ individuals and allies in STEM fields. The first meeting will be at **6 p.m., Wednesday, Jan. 30, in Foster Hall 233**. This meeting will discuss plans for the organization and determine a regular meeting time. Anyone interested is welcome to attend. Come enjoy some pizza and learn more about this new organization!

Hola everyone! Join us - Society of Hispanic Engineers - Thursday, Jan. 31 during dead hour, 11 a.m. in Brown Hall 321 for a General Body meeting. We have a few officers that would like to discuss events leading up to the Career Fair. SHPE

Membership, Linked In and Resume Review, and Volunteering/Networking opportunities. Also, will discuss the goals for Spring 2019! Pizza and drinks will be provided!

ASME is having a meeting Thursday, Jan. 31, at dead hour in Brown 237, rescheduled from last Thursday. We will have Tech Mechanical Engineering professor Ahmad Vassel talk about his work experience and research.

"Where We Stand in U.S Manufacturing" Thursady, Jan. 31 from noon to 1 p.m. Come to the iMakerspace to hear two presentations by leaders in the Manufacturing field; Ralton Emory, SME member and Industry Relations Manager and Dean Phillips, SME Board of Directors.

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**

Career Readiness Certification Events | **All events are scheduled from 11 - 11:45 a.m. in the Tech Pride Room of the RUC.** Next event: **Thursday, Jan. 31:** Behavioral Interviewing Made Simple with Russ Coughenour from the Center for Career Development.

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.

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**

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 Raouf 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.

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.



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