



# AUBURN ENGINEERING K-12 OUTREACH

## ABOUT AND FACTS

### ***We Believe in Education***

The Auburn University Samuel Ginn College of Engineering's vision is committed to exposing K-12 students to the field of engineering. In partnership with faculty, staff and campus partners, the College of Engineering will engage K-12 students through hands-on and interactive engineering programs while empowering and encouraging students to develop the necessary skills and confidence to pursue a career in a science, technology, engineering and mathematics (STEM) field. Because we value investing in tomorrow's future, Auburn Engineering is the highest ranked engineering program in the state of Alabama.

***In the 2018-2019 academic year, we led STEM activities for over 7,500 students.***

## SCHOOL GROUP VISITS

***We encourage school groups and organizations to visit the College of Engineering. Our group visits are customized for your group by developing a schedule that fits the academic needs of your students.***



*Quote from a Chambers County third-grade teacher:*

*"We absolutely love our annual trip to the Auburn University College of Engineering. It is an amazing experience that our third-graders will remember for years to come. Many of our students have never been on a college campus. Engineering Student Services does an outstanding job of introducing students to the field of engineering and helping them see real-life application through experiments and interaction with college students. The tour of the engineering departments, the hands-on activities and a special visit from Aubie made it an unforgettable field trip!"*

**[eng.auburn.edu/visit](http://eng.auburn.edu/visit)**

## K-12 OUTREACH PROGRAMS

### **BEST Robotics**

Boosting Engineering, Science, and Technology (BEST) Robotics, Inc. is a non-profit, volunteer-run national organization whose mission is to inspire students to pursue careers in STEM. Auburn hosts the regional and local robotics competitions.

### **MADE at AU**

Making A Difference in Engineering at AU (MADE) will give prospective female students the chance to visit campus and learn about Auburn Engineering.

### **ROBO Camp**

This program was developed to introduce students to computer science and computational thinking concepts and hands-on applications using different computer and robotics programming frameworks.

### **E-Day**

Auburn Engineering's annual open house gives students a chance to learn about our campus, our programs and the incredible opportunities the college offers.

*"Before going to Auburn I had no idea what to expect from college and engineering classes. E-Day gave me the chance to get an in depth look at a college campus, lifestyle, and what exactly I could do as an engineering student. Auburn was always one of my top choices but after that visit I also finally knew what I wanted to study. As a Senior looking back, I've never been more sure I made the right decision choosing engineering and Auburn."*

- Akshay Singh, Mechanical Engineering Student

### **GRAND Engineering Showcase**

This program allows students to explore and learn how Auburn Engineering is helping solve the world's engineering grand challenges.

### **GEARSEF**

The Greater East Alabama Regional Science and Engineering Fair (GEARSEF) is a regional affiliate fair of the Intel International Science and Engineering Fair (Intel ISEF). GEARSEF is open to all students in grades 6-12 who have advanced from their local science fairs (school, county, district or community fair.)

### **PEAK**

Promoting Engineering at Auburn for Kids (PEAK) helps young students understand what it's like to be an engineer through demonstrations and hands-on activities with our professors and students.

### **TEAMS**

The Technology Student Association integrates STEM education with theme-based practical experiences of real-life engineers. The TEAMS competition includes three parts: design/build challenge, multiple choice questions and essay questions that must be submitted prior to the competition. Winners of the competition will be invited to participate in the national competition.

### **Catapult Engineering Academy**

Catapult Engineering Academy is an online college-prep high school engineering curriculum developed and taught by Dr. Mark Conner. The courses are designed to mirror the first two years of collegiate engineering to prepare students for the rigors of undergraduate engineering degree programs and provide them with the knowledge, training and tools to excel as undergraduate engineering students.

## SUMMER PROGRAMS

### **Women in Engineering**

*"I attended the Women in Engineering summer camp in 2014. I was touring engineering schools all over the country but wanted to experience what being an engineering student would actually be like. Through hands-on projects and interactions with engineering faculty and students, I was challenged in ways I never had been in high school. Attending camp not only sold me on engineering and helped me narrow down which discipline was for me, but also affirmed that Auburn was to be my home following high school."*

- Cassie Atchley, Biosystems Engineering student

### **Junior Tigers**

### **Senior Tigers**

### **Cyber Security Camp**

### **CS4ALL Magic Camp**

### **Mentoring Alabama Girls in Computing (MAGIC)**

### **Robotic and Game Development Camp**

### **Tomorrow Community Innovators Camp**

**For more information about these programs visit:**

[eng.auburn.edu/outreach](http://eng.auburn.edu/outreach)

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