**GENERAL INFORMATION**

**Who:** Highly motivated, inquisitive incoming freshmen with a minimum Math ACT of 27 and minimum GPA of 3.5 who have completed pre-calculus math, chemistry, and physics.

**What:** A two week long NON-RESIDENTIAL experience filled with fun and challenging engineering activities. [If you have chosen to live in university housing, you can check into your room early (and pay $12.95 per day). You need to fill out a form on the housing website: http://www.southalabama.edu/departments/housing/earlyarrival.html - Deadline to apply for Early Arrival is **July 15**. $100 late fee to apply after that date.]

**Where:** University of South Alabama in Mobile, AL.

**When:** July 27 – August 7, 2015 / 9:00 am – 2:30 pm.

**Why:** Because it’s fun!

**How:** Apply online (http://www.southalabama.edu/colleges/engineering/prospectivestudents/esquared.html)

**Cost:** FREE! Instruction and materials are provided by the National Science Foundation. Attendees are responsible for transportation to/from campus.

**WORKSHOP TOPICS**

Students will spend two weeks immersed in engineering topics ranging from robotics to composite materials. Classroom lectures on theory will be balanced with computer activity and experimentation. Each activity will be introduced by a series of short lectures followed by hands-on interactive laboratory sessions culminating in a project/activity.

- LabVIEW programming
- Sensors
- Instrumentation
- Robot Control
- Data Analysis (Graphing Statistics)
- Materials/Composites (metals, polymers, composites)
- Mechanics of Materials

**FACULTY AND STAFF**

Workshops are staffed by engineering faculty members, and undergraduate and graduate engineering students.

Dr. Thomas Thomas, Electrical Engineering
Dr. Carlos Montalvo, Mechanical Engineering
Dr. Kuang-Ting Hsiao, Mechanical Engineering
SCHEDULE
Check-in
Monday, July 27. 8:30 am. Shelby Hall Atrium

Closing Ceremony
Parents are invited to attend presentations on Friday, August 7, 10:00 – 12:00 pm.

Hours
Each day begins at 9:00 am. Workshops continue until 2:30 pm.

Food
Lunch is provided each day. Dietary needs will be accommodated if requested prior to the first day.

APPLICATION
Eligibility
All entering USA freshmen majoring in STEM fields: minimum Math ACT of 27 and minimum GPA of 3.5 completed pre-calculus math, chemistry, and physics.

Apply Online
The only way to apply is via our online application tool: (http://www.southalabama.edu/colleges/engineering/prospectivestudents/esquared.html).

Application Components
Students should already be admitted to the University of South Alabama through our Admissions Office. Please make sure you’ve sent them your official high school transcripts and ACT scores. Short statement (400 words) about why you would like to attend E2 (this is submitted in the online application).

Admission Decisions
Admissions decisions will be based upon students’ academic achievement and demonstrated interest. Admitted students will have typically earned A’s and B’s in math and science courses and demonstrate a true desire to learn more about engineering.

Timeline
Applications will be reviewed as submitted. You will be notified of acceptance by July 1, 2015.