UNIVERSITY OF SOUTH CAROLINA
College of Engineering and Computing

Electrical Engineering Enhanced Learning Experience

September 12, 2011

Dear High School Teachers,

The College of Engineering and Computing at the University of South Carolina is hosting a one day Enhanced Learning Experience for all high school students interested in learning more about engineering and computing. This unique experience will provide students a hands-on learning experience on a real college campus with real college students and actual college professors.

The day will focus on Electrical Engineering; please see below for a detailed list of activities. The program will begin at 10 am with a brief introduction and welcome to the College and then the students will begin their experience with the department of Electrical Engineering. Sessions will run for 1.5 hours (10:00am-11:30am and 12:30pm-2pm) with a lunch break from 11:40am-12:20pm. Dates for the learning experiences will vary and will be determined after the application date on a school by school basis.

The College of Engineering and Computing is offering reimbursement for expenses associated with the trip, including the costs for a South Carolina bus (charter buses will not be reimbursed), the bus driver, bus mileage reimbursement and substitute teachers. Lunch will also be provided at no cost to the school or students. Each session will be limited a maximum of 30 students.

The enhanced learning experiences will begin in October and will continue through November. Only a limited number of schools will be selected. Enhanced Learning Experience days will vary and will be determined after all schools have been selected on a school by school basis. If you are interested in bringing a group to USC please fill out and return the below application by **5pm on September 30, 2011** to: University of South Carolina, College of Engineering and Computing, Attn: Stefanie Pirwitz, Columbia, SC 29208. Applications may also be e-mailed, pirwitz@cec.sc.edu, or faxed, (803) 777-3818.

I look forward to hearing from you. If you have questions or concerns please contact me at pirwitz@cec.sc.edu or (803) 777-2706.

Sincerely,

Stefanie Pirwitz
Outreach Coordinator
College of Engineering and Computing

UNIVERSITY OF SOUTH CAROLINA
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Electrical Engineering Enhanced Learning Experience Application

The College of Engineering and Computing is accepting proposal submissions for high school students to participate in the Electrical Engineering Enhanced Learning Experience (ELE) at the University of South Carolina. This one day experience is designed to work in conjunction with the South Carolina educational standards to provide students with hands experiences in Electrical Engineering.

Please complete the following application. Applications must be received no later than 5pm on **September 30, 2011**. Applications will not be accepted after the deadline. Please email completed application as an attachment to pirwitz@cec.sc.edu. Applications may also be faxed to (803) 777-3818) or mailed to: University of South Carolina, College of Engineering and Computing, Attn: Stefanie Pirwitz, Columbia, SC 29208.

General Information

School Name: _____

School Address: _____
Street *City* *Zip code*

Contact Name: _____ E-mail Address: _____

Phone Number: _____ Fax Number: _____

Class Type: _____ AP ___ Honors ___ Adv. ___ Other _____
(physics, chemistry, calculus, computing, etc.)

Purpose

Please type your answers to the following questions in a Word document and attach upon submission.

1. What impact will the Enhanced Learning Experience have on your students?
2. What educational standards can be applied to the Enhanced Learning Experience?
3. What do you hope your students will learn from the Enhanced Learning Experience at USC?
4. How many students do you hope to bring to USC? From what grades?
5. How much money will be needed for the Enhanced Learning Experience?

Signature: _____ Date: _____

Enhanced Learning Experience

ELE

Awaken your Potential for

Electrical Engineering

Students will be immersed in a laboratory experience that is both challenging and stimulating. Students will receive a balanced blend of theoretical and hands-on activity.

Students will use a permanent magnet and a battery to build a simple motor. They will learn the theory behind the operation of various components and use the hands-on activity to test their knowledge.

In their ELE experience students will be provided with all the components to build a 'simple motor' and they will use this activity to understand the principle of operation of a dc motor. In short, students can have a glimpse of being an Electrical Engineer through ELE at USC in Electrical Engineering.