



**MARATHON HIGH SCHOOL  
TEACHER ENGINEERING  
AWARENESS PROGRAM**  
PROFESSIONAL  
DEVELOPMENT FOR  
SCIENCE AND  
MATHEMATICS TEACHERS



OFFICE FOR DIVERSITY PROGRAMS  
AND THE LSU CAIN CENTER

*“Learn how to infuse engineering into your class through hands-on activities, active-learning strategies and problem-solving and critical thinking skills for your students!”*

June 7-11, 2010 8:00 am – 5:00 pm

*Earn a \$1,000 stipend and receive \$200 in materials*



*Applications must be submitted by a pair of certified science and math teachers from the same high school. All science and math disciplines are eligible! Activities are correlated to the Louisiana GLEs and guaranteed to charge up your classroom!*

*Interested? Go to [www.cain.lsu.edu](http://www.cain.lsu.edu) to apply or download application at [www.eng.lsu.edu/diversity](http://www.eng.lsu.edu/diversity)*

**APPLICATION DEADLINE:  
FEBRUARY 8, 2010**

**EACH PARTNER SHOULD SUBMIT AN APPLICATION**

*For additional information  
contact  
Vaneshette Henderson  
vhende1@lsu.edu  
225-578-6004*

# **Marathon's High School Teacher Engineering Awareness Program**

## ***"Engineering Principles in Science and Math Classrooms"***

### **APPLICATION GUIDE**

Learn how to infuse problem-solving and critical thinking skills in your classroom through creative, hands-on engineering design activities for your students!

Louisiana State University, Baton Rouge

June 7-11, 2010 8:00 am – 5:00 pm

Earn a \$1,000 stipend and receive \$200 in materials

High school teachers can be very influential in helping students decide on a chosen major in college. This is particularly true for women and underrepresented minorities. Subsequently, this Teacher's Program seeks to aide high school teachers in understanding the engineering profession and how engineering is the application of basic math and science courses.

The Institute will consist of a series of mini-workshops (and hands-on activities) on the fundamentals of the different engineering disciplines. Teams of teachers from a school will develop an engineering lesson plan that can then be incorporated in each of the math, science and physics courses at their school. A common lesson plan implemented across several courses will help high school students make the physical connection between math, physics and science. Activities and content presented are correlated to the Louisiana GLEs.

#### **Engineering Awareness Program Criteria**

- Applications should be submitted by a pair of science and math teachers. Priority for acceptance will be given to teams from the same school, although science/math teams from different schools will be considered if space is available.
- All science and math disciplines are eligible!
- Only certified 9<sup>th</sup> -12<sup>th</sup> grade math or science teachers who commit to implementing the engineering principles and teaching strategies in their respective classrooms, and whose principals will support this implementation, will be accepted.
- Space is **LIMITED**, so apply early!

**Deadline: February 8, 2010**

**Announcement of Acceptance: March 2010**

**EACH PARTNER SHOULD SUBMIT AN APPLICATION!!**

Mail submission to: Vaneshette Henderson  
Marathon High School Teacher Engineering Awareness Program  
College of Engineering Diversity Programs  
3304 Patrick F. Taylor Hall  
Baton Rouge, LA 70803

# **Marathon's High School Teacher Engineering Awareness Program**

## *"Engineering Principles in Science and Math Classrooms"*

### APPLICATION FORM

Please Type

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Partner's Name: \_\_\_\_\_

Email Address: \_\_\_\_\_

Home Number: \_\_\_\_\_ Cell Phone: \_\_\_\_\_ Fax Number: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Current School: \_\_\_\_\_

School Phone  
Number: \_\_\_\_\_

Current Grade \_\_\_\_\_

Level(s) Teaching \_\_\_\_\_

Subject(s) Taught \_\_\_\_\_

How many years have you been teaching? \_\_\_\_\_

List other professional development workshops, conferences or seminars you have attended in the past two years:

Please provide typed responses to the following information and enclose with your application form. Minimum 350 words.

a. Please explain why you are interested in attending this program.

b. How will you use and share the information in your classroom and with your colleagues?

My signature indicates that I am committed to helping my students develop a better understanding of engineering principles and career opportunities.

Applicant's Signature \_\_\_\_\_

My signature indicates that I will support this program and allow this applicant to implement the strategies and information learned in her/his classroom.

Principal's Signature \_\_\_\_\_

**\*Communication with applicants will be by via e-mail. Therefore, an accurate and current e-mail address is needed.**

**Please submit application to:** Vaneshette Henderson, College of Engineering Diversity Programs  
3304 Patrick F. Taylor Hall, Louisiana State University, Baton Rouge LA 70803  
If you have any questions or need additional information:  
(225) 578-6004 (Tel) ♦ (225) 578-4845 (Fax) ♦ vhende1@lsu.edu