

# SUMMER TEACHERS WORKSHOP ENGINEERING CHALLENGE FOR THE 21<sup>ST</sup> CENTURY

Sponsored by the Regional Center for Next Generation  
Manufacturing funded by National Science Foundation

July 21 through July 25, 2008

At Tunxis Community College in Farmington, Connecticut

## THE PROGRAM:

Participate in a week-long residential program designed to help you help your students develop the skills necessary to become qualified and productive engineers and technologists in the 21<sup>st</sup> century. The Engineering Challenge, based on the TIDEE (Transferable Integrated Design Engineering Education) model, will teach you to teach

- Project-based learning: building a medical device
- Teamwork,
- Technical communication,
- Organizational skills (including project management),
- Interpersonal skills (including understanding behavior diversity using DISC profiles), and
- Personal accountability.

In addition to the traditional classroom setting, you will work in teams led by college faculty and a project-management professional.

This program has run up to four times a year since 2003 for high-school and community-college students, engaging them in STEM-related disciplines. Approximately 35% of the participants have been female and 53% underrepresented minorities. Thus, in learning this program, you can strongly affect diverse students, helping them to achieve success in STEM careers.

## GENERAL INFORMATION:

Participants in the program will receive the following:

- Reimbursement of airfare (to a maximum of \$400.00) or mileage (to a maximum of \$200.00)
- Hotel expenses (July 20 through July 25, 2008) for people traveling more than 50 miles each way
- A welcome dinner, Sunday evening, July 20
- Continental breakfast and lunch
- Program stipend of \$250.00
- Manuals and related technical materials
- 3.2 CEUs

Participants who develop program materials adapted to their home institutions and submit them to the Engineering Challenge team after the program ends will receive an additional stipend of \$500.00.

**FEES AND CANCELLATIONS:**

Your application fee of \$150.00 will be refunded on the last day of the workshop. If you are accepted to the workshop but don't attend, no refund will be provided.

For more information, please go to  
[www.nextgenmfg.org/workshop2008](http://www.nextgenmfg.org/workshop2008).

The Summer Teachers Workshop: Engineering Challenge for the 21<sup>st</sup> Century is open to STEM high-school teachers and community-college faculty. Teams of teachers from individual institutions are encouraged to apply.

# Engineering Challenge for the 21st Century



[www.nextgenmfg.org](http://www.nextgenmfg.org)

**Summer Teacher's Workshop**  
**Location: TUNXIS COMMUNITY COLLEGE**  
**Farmington, CT**

**SAVE THE DATE: July 21- July 25, 2008**



**Project-based learning, Teamwork, Organizational Skills**  
**Program Stipend \$250.00**

**Keep Manuals and related technical materials**  
**3.2 CEUs**

For more information, please go to [www.nextgenmfg.org/workshop2008](http://www.nextgenmfg.org/workshop2008).



Participant Name: \_\_\_\_\_

## Registration and General Information

Please submit application by ~~April 15, 2008~~ **June 5<sup>th</sup>, 2008** to be considered for the Summer Teacher's Workshop

Participants accepted in the program will be provided with the following:

- Airfare (not to exceed \$400.00)
- Hotel expenses (July 20- July 25, 2008)
- Continental breakfast and lunch
- Stipend during workshop: \$250.00

## Fees and Cancellations

**A refundable fee of \$150.00** must be submitted by mail after your application has been reviewed and accepted. This fee will be returned to you if you cancel by June 15<sup>th</sup> or in person during the last day of the workshop, August 1, 2008. Expect more details to follow in your acceptance letter, and on our website at <http://www.nextgenmfg.org/workshop2008> .

Cancellations must be submitted in writing (mail or e-mail) by June 15th. Please send letter by mail to:

Attn: Kerry Simoneau  
College of Technology  
Regional Center for Next Generation Mfg.  
61 Woodland Street  
Hartford, CT 06105

By email at [ksimoneau@commnet.edu](mailto:ksimoneau@commnet.edu).

**Refund will not be provided for teachers failing to cancel or no shows.**

## Program Changes

Workshop organizers reserve the right to make changes to the agenda or with instructors without prior notification to participants.

*The Summer Teacher's Workshop: Engineering Challenge for the 21<sup>st</sup> Century is available to all without discrimination.*

*Event is sponsored by a grant funded through the National Science Foundation*



*Participant Name:* \_\_\_\_\_

**Elaborate on the following questions:**

1. What are your expectations regarding the Teacher's workshop? How are you planning to apply it to your students?

2. What is your experience/participation in the areas of Engineering and Technology programs tailored to students to promote technical/science careers?

*Participant Name:* \_\_\_\_\_

3. Have you participated in other Engineering and Technology Teacher workshops?  
Please elaborate on your experience.

4. How are you planning on implementing/disseminating the concepts learned at the workshop?