



# RETainUS

Research Experiences for Teachers in  
Manufacturing for Competitiveness in  
the United States

The Center for Manufacturing Research at Tennessee Tech University seeks Math and Science high school teachers to partner with university researchers to bring knowledge of engineering and technological innovation to the pre-college classroom.

*Focus: Assisting teachers in bringing engineering ideas into the classroom.*

In a 6-week summer program at TTU:

- Select & refine a research question
- Receive research mentoring & support from TTU faculty & graduate students
- Become the principal investigator for your research and maintain ownership of it
- Receive assistance in adapting your research into a module for classroom instruction

The program is full-time (40 hrs/wk) for 6 weeks during the summer. Three follow-up events during the school year are required.

Proposed projects will be based on ongoing research activities in the engineering disciplines: electrical and computer, mechanical, chemical, industrial, and manufacturing and industrial technology.

Eligibility Requirements for Teachers:

- ✚ In-service or pre-service
- ✚ High school math or science, licensed and currently teaching
- ✚ County school systems: Cannon, Clay, Cumberland, DeKalb, Fentress, Hamilton, Jackson, Macon, Overton, Pickett, Putnam, Smith, Van Buren, Warren, White
- ✚ Teachers are required to apply in pairs from the same school. Exemptions may be given.

Financial Considerations:

- ✚ Receive stipend of \$6,000 (in-service) or \$4,000 (pre-service) for completing program
- ✚ Free on-campus housing available, depending on length of commute
- ✚ Funding for equipment and supplies for classroom

**Program Dates: June through mid-July, 2010**

**Submit application by February 5, 2010.**

See complete project description at <http://tntech.edu/cmr/ret>

Contact:

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"The RET has allowed me to convey to my students the process of science. I now talk with understanding and passion about the research process and the students understand and have more interest in science careers. I have more students interested in pursuing engineering and science careers this year than ever before."

--participant in TTU's 2008 RET Program