Participants will receive

- $650 stipend for attendance
- Stipend for travel expenses
- Video equipment and materials for recording
- Kit with lessons and supplies valued at $4,500 (per math/science team)
- Strategies and lessons notebook
- Breakfast and lunch during workshop
- Professional development credit
- Optional free graduate course connected to workshop

Sponsored by:
The University of Tennessee at Chattanooga
615 McCallie Avenue
Chattanooga,, TN 37403

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The University of Tennessee at Chattanooga

Technology/ Engineering + Literacy = Math Understanding (TELMU)

Funded by:
Tennessee Higher Education Commission

A Professional Development Opportunity addressing Common Core Math and Science Standards

Technology/Engineering + Literacy = Math Understanding (TELMU)

Academy Overview:

The TELMU Academy serves teams of math and science teachers from Bledsoe, Grundy, Hamilton, Meigs, Sequatchie, and Richard City School Systems. It provides participants with a repertoire of projects that provide 6th-9th grade lessons addressing Common Core Mathematics and Science Standards using engineering applications. The focus of the TELMU Academy is to provide participants with hands-on experiences that strengthen their content knowledge in mathematics and their ability to implement inquiry-based science lessons. Teachers attending the workshop will use curricular materials involving engineering and technology to support Tennessee's process and content standards in mathematics as well as inquiry standards in science. Each lesson is grounded in research-based reading instruction and engages participants in active, "hands-on" learning—learning shown to pique student interest, increase student engagement and support mastery of content.

Academy Objectives:

The TELMU Academy includes a combination of pre-workshop, workshop, and post-workshop activities that provide professional development for grades 6th-9th mathematics and science teachers to

- Expand teacher mathematical content knowledge, especially in the areas of rational number sense, linear models, vocabulary, and understanding of key 6th-9th grade concepts
- Engage teachers in STEM lessons and provides supplies for implementation
- Increase teachers' ability to use mathematical knowledge and concepts to solve contextual STEM problems, learn the value of such problems for developing mathematical competence, rehearse effective ways to use project-based learning and develop confidence to use similar activities in their classrooms
- Increase teachers' understanding of comprehension strategies that support students' ability to solve quantitative problems in context and to implement inquiry-based learning

Collective Participation: Participants of the workshop will include ***at least one mathematics teacher and at least one science teacher*** from each school. No more than six teachers from a single school may participate in the project.

Tentative Schedule:

January 21, 2012: Attend one pre-summer workshop at UTC; Orientation and introduction to the project

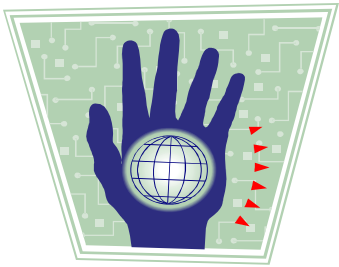
June 18-29, 2012: Participate in two-week workshop at UTC

Fall 2012: Participate in on-line collaboration using workshop materials from workshop

September 2012: Record classroom lesson using STEM activity kit with support from project team

September 2012: Attend one day workshop at UTC to share lessons from project

October 2012: Attend one day workshop at UTC to share lessons from project



Hands-on, project-based learning to master math and science