

# **Tennessee Higher Education Commission Improving Teacher Quality Grant Program 2016 Received Proposals**

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## **Austin Peay State University**

"Improving the Quality of Teachers of Students with Disabilities in STEM Subjects"

*Dr. Gina Grogan*

## **Belmont University**

"From Root to Flout: Connecting Gardening, Cooking, and Mathematical Practices to Strengthen Teachers' content and Pedagogical Knowledge in the STEM Fields"

*Dr. Ryan Fox*

## **Belmont University**

"Cooking & Gardening: Growing STEM Careers through Interdisciplinary Partnerships"

*Dr. Lauren Lunsford*

## **Bethel University**

"Improving Math by Igniting Reading"

*Dr. Michael T. Poore*

## **East Tennessee State University**

"Integrating High School Chemistry and Literacy for STEM Prosperity"

*Dr. Chih-Che Tai*

## **East Tennessee State University**

"Reaching for Excellence in High School Biology and Literacy"

*Dr. Karin Keith*

## **East Tennessee State University**

"Injecting Career-Related Applications into the Required High School Mathematics Curriculum"

*Dr. Ryan Nivens*

## **Lee University**

"Career and Technical Content in High School Mathematics"

*Dr. Caroline Maher-Boulis*

## **Lee University**

"Computations in Scientific Inquiry (CSI)"

*Dr. Lori West*

**Martin Methodist College**

“Project Based Learning: Engaging Students in Real Life Applications of STEM- Monitoring and Assessing Water Quality”

*Dr. George Cheatham*

**Milligan College**

“Hands-on CaMP: Integrating Chemistry, Math, and Physics to Support Real World STEM Applications”

*Dr. Lyn C. Howell*

**Middle Tennessee State University**

“POGIL to Success in Chemistry”

*Dr. Tom Cheatham*

**Middle Tennessee State University**

“Focusing on Mathematics Teaching Practices”

*Dr. Angela Barlow*

**Tennessee Technological University**

“Apply the Math: Integrated Mathematics and Problem-Solving (Grades 9-12)”

*Dr. Holly Anthony*

**Tennessee Technological University**

“Coding Connections at the Interface of Algebra I and Physical World Concepts”

*Dr. Leslie Suters*

**Tennessee Technological University**

“Learning to Speak STEM for the TN Workforce: Applying SciMath to Alternative Energy Through Teacher-driven Hypotheses Testing “

*Dr. Cynthia Rice*

**Tennessee Technological University**

“Biotechnology Education for Secondary Teachers”

*Dr. Jeffery Rice*

**Tennessee Technological University**

“Exploring, Incorporating, and Supporting Workplace STEM Literacies in Student Learning”

*Dr. Julie Stepp*

**Tennessee Technological University**

“Experiencing STEM: Demystifying the Practical Classroom Application of Immersive & Augmented Technologies “

*Dr. David Gallop*

**University of Memphis**

“Exploring Literacy Practices for Science and Technology in Secondary STEM Classrooms”  
*Dr. DeAnna Owens*

**University of Memphis**

“Improving Mobile Technology Integration in High School Math and Science Teachers' Instruction and Assessment Practices”  
*Dr. Deborah Watlington*

**University of Tennessee, Chattanooga**

“Creating High Tech Classroom Teaching in Grades 9-12 Math and Science Education”  
*Dr. Cuilan Gao*

**University of Tennessee, Chattanooga**

“I STEP: Infusing STEM-Themed Effective Pedagogy into Teacher Professional Development Programs”  
*Dr. Raga Ahmed*

**University of Tennessee, Chattanooga**

“Leveraging Remote Engineering Laboratories to Inspire Learning & Reinforce 9-12 STEM Curriculum Standards in the Physical, Chemical & Biological Sciences”  
*Dr. Bryan J. Ennis*

**University of Tennessee, Chattanooga**

“Creating a Zero+Energy Building”  
*Dr. Charles Margraves*

**University of Tennessee, Chattanooga**

“Equations, Functions, and Modeling with Real-world Problems in Algebra I”  
*Dr. Deborah A. McAllister*

**University of Tennessee, Chattanooga**

“Real World Applications for the Mathematics Classroom”  
*Dr. Francesco Barioli*

**University of Tennessee, Knoxville**

“VolsTeach Center for Enhancing Education in Mathematics & Sciences”  
*Dr. Yolanda F. Kirkpatrick*

**University of Tennessee, Knoxville**

“Connecting Math and STEM through Modeling”  
*Dr. Lynn Hodge*

**University of Tennessee, Knoxville**

“East Tennessee Geospatial Academy”  
*Dr. Patricia Stinger Barnes*