

Opportunity to participate in a NSF Funded STEM Summer Workshop for High School Science and Technology Teachers

Be an essential part of STEM curriculum development!

YOU ARE INVITED to be on the forefront of STEM curriculum development by contributing to a research project that will explore how engineering concepts can be infused in a science curriculum. Participate in an engaging process of critical reflection and analysis with a select number of your peers on the beautiful UMass Campus this summer!

What's Involved: Join Professor Arthur Eisenkraft and 10 of your colleagues for two, two-week long summer workshops, one in 2012 and one in 2013. At the first summer workshop, we will try to understand three engineering concepts (models, systems and design), their relation to similar science concepts, and how we can infuse an understanding of these concepts into our teaching of high school electricity (e.g. circuits, Ohm's law.) The second summer workshop will present an opportunity for all participants to share their experiences and results teaching the electricity concepts in their school setting and to explore how this work can be extended to other science content.

Qualifications: Participants must commit to the two summer workshops, and teaching the electricity concepts at their high school during the 2012-2013 year. Preference will be given to teachers who possess an interest in incorporating engineering into their classes, have a collaborative mindset, are effective communicators and able to provide a two-year commitment for participation in the project.

Where: University of Massachusetts Boston Campus (100 Morrissey Blvd., Boston MA 02125)

When: Session One will take place July 9-20, 2012

Session Two will take place in the summer session of 2013 – date to be determined

Compensation Potential: \$3,000 total (*plus lunches and parking vouchers during the workshop days*) and six graduate credits

Compensation Breakdown:

\$1,000 to be provided upon completion of July 2012 two-week workshop

\$500 to be provided upon completion of the feedback on teaching the engineering-infused chapter

\$1,000 to be provided upon completion of the 2013 two-week summer workshop

\$500 to be provided upon completion of final paperwork

Are you interested? Would you like more information?

Contact Arthur Eisenkraft at Arthur.eisenkraft@umb.edu or Kim Rocco at Kimberly.Rocco@umb.edu