

ANNOUNCEMENT

Date: December 14, 2011

Subject: Appalachian Regional Commission/Oak Ridge National Laboratory 2012 High School Summer Math-Science-Technology Institute for students and teachers

To: Interested Persons

The Appalachian Regional Commission (ARC) is pleased to announce that it is collaborating with the U.S. Department of Energy's Oak Ridge National Laboratory (ORNL) and the Oak Ridge Institute for Science and Education (ORISE) in Oak Ridge, Tennessee, to provide a two-week residential hands-on learning institute focusing on math, science, and technology for high school students and teachers from **July 7 to 20, 2012**.



Twenty-six students and twenty-six teachers from throughout Appalachia will participate in a hands-on learning program that will focus on the application of math and science principles in the world of work. See attached *Criteria for Selection of Participants* for specific eligibility requirements. (Participating Appalachian states may have additional criteria for selection of participants in their state.)

ORNL is one of the largest U.S. Department of Energy research facilities in the United States. It is devoted to multi-purpose research and development and is located approximately 20 miles northwest of Knoxville, Tennessee, near the Great Smoky Mountains National Park. ORNL is a U.S. Department of Energy facility managed by UT-Battelle. ORISE is managed by Oak Ridge Associated Universities (ORAU). ORAU has a diverse array of complementary, and often unique, science education programs.



The ARC/ORNL Institute is a unique opportunity for students and teachers to work with research scientists on relevant math and scientific topics facing the world in the 21st century. Students and teachers work in teams on research projects during the two-week institute, with each team comprising three to six students or teachers. The team approach provides an opportunity to conduct research activities and solve problems in a group setting. Examples of the research and other activities engaged in during previous summer institutes can be seen at:

<http://www.ornl.gov/~lxi/arc2007/index.shtml>

http://www.ornl.gov/~lxi/arc2007/index.shtml	http://www.ornl.gov/~lxi/arc2007/index.shtml

The summer 2012 participants will be housed at a hotel in Oak Ridge, Tennessee, near ORNL and ORISE facilities. Student participants will be chaperoned 24 hours a day by experienced teachers who have worked with ORNL programs for several years. Participant teachers will not be responsible for chaperoning students.

All major expenses, including meals, lodging, transportation to and from the participant's home, and local transportation, will be covered for all participants. Teacher participants will receive a stipend.

The participants will spend most days in one of several ORNL research laboratories, but field trips to nearby industries, universities, and museums will illustrate the applications of math and science in the real world and provide participants with opportunities to learn more about Appalachia and some of its unique characteristics.

Applications must be submitted to the ARC State Program Manager of the state where the participant's school is located by **March 2, 2012**.

A list of all ARC State Program Managers, application forms, and further information are available on the ARC web site at www.arc.gov

Program is dependent upon availability of funding.