

# ANNOUNCEMENT

Date: December 14, 2011

**Subject: Appalachian Regional Commission/Oak Ridge National Laboratory/Oak Ridge Associated Universities 2012 Middle School Summer Science Academy for students**

**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 Oak Ridge Associated Universities (ORAU) in Oak Ridge, Tennessee, to provide a one-week residential hands-on science academy focusing on math, science, and technology for middle school students from **July 15 to 20, 2012**.



Twenty-six students from throughout Appalachia will be selected to participate in a hands-on learning program that will focus on the application of math and science principles in the world of work. See *Criteria for Selecting Participants* for specific eligibility requirements. (Participating Appalachian states may have additional criteria for selecting 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. ORAU has a diverse array of complementary, and often unique, science education programs.



The ARC/ORNL/ORAU Summer Science Academy is a unique opportunity for students to work with research scientists on relevant math and scientific topics facing the world in the 21<sup>st</sup> century. Students work in teams on research projects during the one-week academy, with each team comprising three to six students. The team approach provides an opportunity to conduct research activities and solve problems in a group setting. Research topics and activities may include such areas as:

- Biofuels and Alternative Energy
- Climate Change and Global Warming
- Robotics
- Our Environment

The summer 2012 participants will be housed at a hotel in Oak Ridge, Tennessee, near ORNL and ORAU facilities. Students will be chaperoned 24 hours a day by experienced teachers.

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

Participants will tour ORNL research facilities, use a variety of technologies to solve problems in ORAU's learning center, and participate in field trips to nearby industries, universities, and museums. Field trips will illustrate the applications of math and science in the real world and provide participants with opportunities to learn more about Appalachia and 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 will be available on the ARC web site at ([www.arc.gov](http://www.arc.gov)).

*Program is dependent upon availability of funding.*