



**AERO SBC
(Standards-Based Curriculum)
At the Madeira School
AERO/Next Generation Science
Standards (NGSS)
Institute
www.projectaero.org
June 18-23, 2017**

The Next Generation Science Standards (NGSS) were developed from the Framework for K-12 Science Education published in 2012 by the National Research Council. With a focus on the practice of science and engineering, the NGSS will fundamentally change the way science is taught, learned and assessed. Developing a solid foundation of understanding of the NGSS will be an essential first step to creating meaningful learning experiences in the classroom.

Through a combination of instruction and engagement in model activities, participants in this institute will gain a deeper understanding of the NGSS and the resources available to assist in implementation of an NGSS based program. This week long course will be an introduction to the NGSS and not a curriculum writing workshop, although curriculum issues will be discussed. Participants in this AERO NGSS institute will have the opportunity to:

- Familiarize themselves with key ideas and features of the Framework for K-12 Science Education and the Next Generation Science Standards
- Explore the three dimensions of the NGSS: Disciplinary Core Ideas, Science and Engineering Practices, and Cross-Cutting Concepts
- Deconstruct Performance Expectations to understand their three dimensional foundation
- Engage in model NGSS activities and discuss what instruction might look like in an NGSS classroom
- Experience engineering tasks and discuss engineering instruction within the NGSS framework.
- Consider issues related to a school's transition to NGSS
- Develop a tentative plan for a school's transition to NGSS

Participants will gain a better understanding of the key ideas and organization of the NGSS, investigate NGSS resources, and discuss ideas for the transition to NGSS in their schools.

Participants may earn university course credit from the State University of New York at Buffalo. Applications for credit will be available in the spring; the fee is \$390.00 for those opting for the credit. (There is no charge for those not choosing credit.) The institute will be limited to 20 participants; preference will be given to schools sending two person teams.

Please send, e-mail, or fax the completed registration form by **March 3, 2017** to:

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