



NGSS Connections: Engineering in the High School Science Classroom

Professional Development Opportunities

The Framework for K-12 Science Education and the NGSS present a new vision of science learning that integrates core disciplinary ideas, science and engineering practices, and cross-cutting concepts. These interactive full-day workshops will introduce teachers to content-specific exemplars in either Life Science or Chemistry along with strategies that embody the NGSS student performance expectations. The workshops feature content-appropriate lessons that integrate applied science content within an engineering context.



NGSS Connections: Engineering in the High School Life Science Classroom

Participants will deepen their own content and pedagogical expertise while engaging in sample classroom-ready investigations that develop students' understanding of the core science ideas in biology and environmental science. Exemplar learning activities emphasize high-leverage science and engineering practices, such as modeling and evidence-based explanations and support **NGSS PE HS-LS4-6**. Connections to the NGSS and three dimensional learning will be discussed. In small groups, teachers will examine strategies associated with integrating engineering into life science instruction.

Wednesday
May 30, 2018

NGSS Connections: Engineering in the High School Chemistry Classroom

Participants will deepen their own content and pedagogical expertise while engaging in sample classroom-ready investigations that develop students' understanding of the core science ideas in chemistry. Exemplar learning activities emphasize high-leverage science and engineering practices, such as modeling and evidence-based explanations. Connections to the NGSS and three dimensional learning will be discussed and will focus on **NGSS PE HS-PS1-6**. In small groups, teachers will examine strategies associated with integrating engineering into chemistry instruction.

Thursday
May 31, 2018

All workshops will be held 9 am – 3 pm and include lunch.

Location: Stevens Institute of Technology, Hoboken, NJ

Workshop Cost: \$250.00

To register please go to www.ciese.org/work/pd/offerings

CIESE is an award-winning outreach center, including a Presidential Award for Excellence in Science, Mathematics & Engineering Mentoring, and has provided K-12 STEM professional development programs for 30 years.