

Invitation: **Engineering is Elementary!** Teaching Institute

The **Engineering is Elementary!** Teacher Institute presents a framework that teaches literacy in engineering and technology for elementary school students and educators. Institute participants will experience “research-based, standards-driven, and classroom-tested curriculum that integrates engineering and technology concepts and skills with elementary science topics.” The **Engineering Is Elementary (EiE)** curriculum is well established and developed by the Boston Museum of Science, <http://www.mos.org/eie/>. EiE includes a built in assessment and multiple studies show it is a great way to get kids thinking creatively about problem solving as well as understanding why math and science are important. The curriculum connects to the science standards. EiE lessons not only promote science, technology, engineering, and mathematics (STEM) learning in grades 1-5, but also connect with literacy and social studies.

Engineering is Elementary! Institute Goals and Objectives

- Provide opportunities for reflection and curriculum planning during the institute. Participants will leave with tangible products to use during the school year.
- Develop awareness of existing engineering elementary school curriculum, K-12 engineering education research, and existing K-12 state (Massachusetts) standards in engineering education (see www.teachengineering.com).
- Develop a community of teachers interested in pursuing engineering approaches to teaching math and science.
- Provide opportunities to experience the engineering design process first hand.

Benefits for Engineering is Elementary! Institute Participants

In addition, to the benefits described above, Institute participants will receive:

- Resource materials to support the work as well as academic year consulting.
- Course credit options.
- Opportunity to become part of a developing a community of K-12 engineering teachers.
- \$500 stipend.

Commitment from Engineering is Elementary! Institute Participants

- Attend the 5 days of DYF Institute: (July 18th – July 22rd at Humboldt State University)
- Integrate elements of the engineering design approach during regular content instruction.
- Work with the DYF Research and Evaluation Team to facilitate our understanding of what works.

Application Process

- **Who may apply?** Elementary school teachers, grades K-5
- **When?** Applications are due June 30
- **Fee?** \$ 125 Co-payment as purchase order or check made to RSP. *Institute cancellations* must be received in writing 7 days prior to start of Institute. *Refunds are not issued for no-shows.*

Questions or Comments?

- **Beth Eschenbach**, Environmental Resources Engineering Professor, Humboldt State University, 707-826-4348, Beth.Eschenbach@humboldt.edu
- **Julie Van Sickle**, Redwood Science Project Co-Director, Humboldt State University, 707-826-5552, jav16@humboldt.edu

Or visit our website at www.humboldt.edu/~dyf

Environmental Resources Engineering —Redwood Science Project

Humboldt State University · Arcata California 95521 · (707) 826-4348 · www.humboldt.edu/~dyf