

AN INTRODUCTION TO ENGINEERING DESIGN IN THE PRE-K–12 CLASSROOM



Engineering design challenges provide engaging and purposeful contexts that can enrich students' math and science learning, but what is engineering design, and how can teachers use it to teach math and science? The Knowles Science Teaching Foundation and The American Society for Engineering Education are pleased to offer a daylong introduction to engineering design, where you'll learn how to use engineering to enrich your students' math or science learning, as called for in the Next Generation Science Standards.

This workshop is appropriate for all PK–12 teachers interested in learning about engineering design processes. While the workshop may be especially useful for middle- and high-school teachers, all materials may be adapted for younger audiences, and anyone interested in using real-world problems is welcome to attend.

WORKSHOP DETAILS:

JUNE 3, 2017 • 9 AM TO 4 PM
GEORGE WASHINGTON UNIVERSITY
SCIENCE & ENGINEERING HALL
800 22ND ST NW
WASHINGTON, DC 20052

REGISTRATION:

\$300 *LUNCH INCLUDED*
\$250 EARLY BIRD REGISTRATION UNTIL
MAY 7

Please register online at
<http://bit.ly/RegisterEngineering>
by May 21, 2017

IN THE WORKSHOP, YOU WILL:

- complete a teacher-facilitator-developed, classroom-tested engineering design challenge for teaching math, science, and engineering skills;
- actively co-construct an understanding of the engineering design process; and
- gather teacher and student materials to help you begin planning engineering design for your math or science class.

KSTF is a non-profit organization dedicated to providing new math and science teachers with professional development, resources and support to improve STEM education in our schools. Key features of KSTF professional development services include:

- Teachers supporting teachers: All professional development that KSTF provides includes currently practicing teachers as facilitators and coaches.
- Professional community development: We know that teaching can be isolating. All of our professional development services are designed to build teacher community so that they can continue to support each other's learning and professional growth long after the professional development experience ends.
- Long-term support for sustainable change: Effective teacher professional development must be sustained and tied to classroom practice. All of our programs include support from coaches and opportunities to engage with other participants over an extended period.
- Professional expertise and leadership: All of KSTF's professional development services draw and build on the work we've done since 2002, supporting math and science teachers and leaders across the U.S.