Each year, elementary and middle school students join Ira A. Fulton Schools of Engineering faculty, students and staff as we open our doors and labs for hands-on activities, games and exhibits designed to share the innovation and impact of engineering and technology.

Kids learn about solar energy, rockets, robots, bridge construction and even a trebuchet built by our students. There is something for everyone—and each year we strive to make it even better.

Help us spark excitement in engineering and technology futures and inspire the next generation of problem solvers.
Dear Colleagues and Friends:

Three years ago, a group of Fulton Engineering students came to us with the idea of starting an engineering open house—an annual event that opens up our labs, brings in community partners and engages young students with hands-on activities to share the excitement of engineering. How could we say no?

For the last three years, we have hosted thousands of young students and their teachers at ASU’s Tempe campus to learn about new healthcare devices, how buildings are built, how solar energy works and much more.

In 2015, we will again welcome students from around the Phoenix metropolitan area to discover engineering during DiscoverE Days, our 2015 Engineering Open House events. This year we will host an event on Friday, February 6, 2015 on ASU’s Polytechnic campus, and on Friday, March 27, 2015 on ASU’s Tempe campus. We hope that you will be a part of this great effort to inspire young makers, builders and engineers.

For our corporate partners, this is a chance to reach a wide audience. The teachers are active supporters of STEM disciplines. The students—many of whom may know little about science and engineering careers—light up as they learn. Our undergraduate and graduate students participate, giving you an opportunity to meet these remarkable students in an informal setting. Our faculty provide hands-on activities that enable students to learn more about the many innovations and advancements they are pursuing. As a sponsor, you have the opportunity to showcase your company with an exhibit at the event.

It’s inspiring to see the passion for engineering. It’s rewarding to see young students and young engineers. And, it’s fun!

Sponsors have an excellent opportunity to build their brand on campus. All of our students, faculty and staff are engaged in this effort and the event is highly publicized.

This brochure covers the details on sponsorship, and we have included a sponsorship form for your convenience. Please contact Betsabe Sandoval, Betsabe.Sandoval@asu.edu, to discuss sponsorship opportunities and any questions you may have. On behalf of everyone at Fulton Engineering, we appreciate your support.

Sincerely,

James S. Collofello, Ph.D.
Senior Associate Dean and Professor
**sponsorship opportunities**

The Ira A. Fulton Schools of Engineering’s innovative, experiential educational environment provides more than 16,000 students the knowledge and skills they need to succeed in technically-oriented careers.

Join us and engage young students and our community in engineering activities. Meet our students and faculty—among the hundreds of volunteers who help make this event a success. Or, show your support as a partner and get the word out about your company to the entire ASU community and event attendees.

Contact us if you’d like to discuss a custom package.

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**packages**

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Contact: Betsabe Sandoval, Assistant Director of Development, Betsabe.Sandoval@asu.edu or 480-727-1557
2014 DiscoverE Day
A FULTON SCHOOLS OF ENGINEERING OPEN HOUSE

The wonders of flight, infrared cameras, 3-D printing, underwater robots and solar crickets came alive for elementary and middle-school children at the 2014 DiscoverE Day on Feb. 28.

More than 1,100 students from about 20 schools attended the open house, sponsored by Arizona State University’s Ira A. Fulton Schools of Engineering.

Displays ranging from a trebuchet modeled after those used on medieval battlefields to rockets that can fly into space were set up on the lawn next to the Virginia G. Piper Writers House on ASU’s Tempe campus and manned by engineering students and industry sponsors.

“There are so many things here that the students have never put together with engineering,” said Randi Cutler, the gifted specialist at Desert Springs Preparatory Elementary School in Scottsdale. “I think a lot of them thought it was just someone building a building. But there are so many aspects to it that almost anything you want to do can come under the big umbrella of engineering.”

Cutler scheduled a late bus pickup so her class of fifth- and sixth-grade honors math students also could tour Barrett, The Honors College, where her son, Ben Beechamp, a sophomore in mechanical engineering, is enrolled.

“I want my students to have the expectation that they should go to an honors college.”

At one table, Alecia DePhillips, 13, a seventh-grader at Horizon Elementary School in Glendale, was tying a string around a rubber band and hooking it to a binder clip to make something that could pick up a cup.

“We're learning to make a robotic arm,” DePhillips said.

Catie Hoekstra, a freshman mechanical engineering major, encouraged DePhillips and her classmates to keep reinventing their inventions.

“Looks like you need to change your design,” Hoekstra said. “A big part of the design process is trying different prototypes. You might have hundreds of iterations of a prototype before being successful.

“If you like to build and invent things, engineering is the place for you.”

Nearby, students were trying not to crash an airplane in a flight simulator.

“We're showing them the magic of flight,” said Don Wood, a junior in aerospace engineering, standing behind a small-scale airplane with wings that reached both ends of the table. “They want to know, ‘Does it fly? Is it real? How does it work?’

“We want them to see how much fun it is to design planes. This plane uses the same principles as the ones over our heads, heading into Sky Harbor.”
Wood, whose father was a pilot, grew up around planes, and was an avionics technician on F/A-18 aircraft in the U.S. Marine Corps. He would like to design engines when he graduates.

“Engine technology is changing so quickly,” he said. “Fuel efficiency is a big deal, especially on the commercial side.”

A hive of students buzzed around Joe Carpenter, a senior chemical engineer, who stood near the booth for the Quantum Energy and Sustainable Solar Technologies (QESST) Engineering Research Center, holding a tray of clattering mechanical crickets, each with a tiny solar panel on its back.

Slowly, Carpenter lowered the tray into the shade and the clattering stopped, eliciting oohs and aahs from the students.

“Some of them know the difference between the sun’s energy and electrical energy,” said Carpenter, who wants to be a college professor someday. “But most of them think of it as just an alternative to something else. When you start talking to them, they’re impressed by its limitless quantity.”

Tucker Ely, in the first year of a doctoral program at ASU’s School of Earth and Space Exploration, also manning the QESST booth, said exposure to college and engineering is important for the students.

Ely, who earned his bachelor’s degree in evolution from the University of California, Santa Cruz, wants to run his own laboratory one day to explore the origins of life.

“You can’t force students in any direction, but you can show them everything and let them pick,” Ely said. “I didn’t know what I wanted to do. I never saw it coming until late in life.”

Robert Espinoza, who is working on his master’s degree in bioengineering, showed students the process and outcome of 3-D printing.

“We want them to see how you take something from the idea through design to make a viable medical product,” Espinoza said.

Through his research, Espinoza helped produce a clothlike structure that is applied to a wound instead of sutures and promotes faster healing.

“The students coming behind me are taking it to another level,” said Espinoza, who wants to work in research and development, or possibly as a forensic scientist.

Across the sidewalk, Cheyenne Harden, a master’s student, and Claire Antaya, a fourth-year doctoral student, showed students how to use an infrared camera to see which of several light bulbs was more energy efficient and which household appliances put off the least heat: a toaster, a radio, a space heater, or a dust buster vacuum. They also used wattmeters to see how much power each appliance used.

Both women said the open house was a good way for girls to get excited about engineering.

“Girls don’t get enough encouragement at school or at home,” Antaya said. “Research shows us that females lose interest around the sixth grade. They don’t think they can do it anymore.

“We’re failing our females. We need to tell them, ‘Yes, you can pursue this. You are smart enough. You can do science and math. Everyone struggles. Help is there!’ ”

Harden said that, up until high school, she thought an engineer was a train conductor.
This fair gives students early exposure to the wide range of applications of engineering in everyday use,” Harden said. “You can be so creative and innovative, from toy design to anything.”

Sandy Abbott, who teaches gifted third- through fifth-graders at Cochise Elementary School in Scottsdale, said she saw many of her students blossom at the event.

“I’ve seen even my quiet and shy kids get very involved in the activities,” Abbott said. “They’re like sponges, asking questions, observing, touching things. I did not realize how fascinated they were going to be.”

Giovanny Renteria, 11, a student from the Magnet Traditional School, said he has worked on cars with his dad, and wants to learn how to make them safer.

“Engineering can help,” Renteria said.

For more information, visit

openhouse.engineering.asu.edu

2014 by the numbers

1,100 students from 20 schools

over 70 activities

300+ engineering students, faculty and staff made it happen

2014 sponsors

Raytheon
NPL Construction Company
Artcraft
2015 DiscoverE Day sponsorship form

Thank you for your support of DiscoverE Days 2015, the Fulton Schools of Engineering Open House events at Arizona State University and for helping us promote science, technology, engineering and math in our community.

**your contact information:**

company/sponsor name (as you would like it to read in all materials):

________________________________________________________________________

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primary contact: ____________________________________________________________

phone: ______________________________ email: ________________________________

**sponsorship level:**

☐ title ($7,500)

☐ gold ($5,000)

☐ maroon ($2,500)

☐ partner ($1,000)

☐ friend ($250)

☐ other: $ ______________________________

If you would like to discuss other options for support, including in-kind donations, please contact Betsabe Sandoval, Betsabe.Sandoval@asu.edu, 480-727-1557.

**payment information:**

☐ check enclosed (Mail to Betsabe Sandoval, P.O. Box 879309, Tempe, AZ 85287-9309. Please make checks payable to ASU Foundation.)

☐ credit card (You may also email this form to Betsabe.Sandoval@asu.edu)

    card number: ______________________________

    expiration date: ______________________________

    cardholder’s name: ______________________________

    billing address: ______________________________

    city: ______________________________ state: ____________ zip: ______________________________

    cardholder signature: ______________________________

Mail form, and check if applicable, to Betsabe Sandoval, P.O. Box 879309, Tempe, AZ 85287-9309. Please make checks payable to ASU Foundation.
The world needs more engineers. At DiscoverE Day, our annual Fulton Schools of Engineering Open House, you’ll meet an up-and-coming group of young leaders who envisioned this open-house-style venue on the ASU Tempe campus and the ASU Polytechnic campus (new for 2015) as a way to engage younger students and share their passion for all of the possibilities that engineering and technology degrees offer.

Hundreds of students—many who may not know anything about science, technology, engineering and math (STEM) careers—get to meet our students, faculty, staff, alumni and community partners and learn how engineering affects nearly every aspect of their lives.

We hope that you’ll join us. [openhouse.engineering.asu.edu](http://openhouse.engineering.asu.edu)