Each year, visitors of all ages 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.

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

Help us spark excitement in engineering and build a strong technical community.

Inspire the future at DiscoverE Days 2016
Dear Colleagues and Friends:

Four 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?

Since then, 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 2016, we will again welcome third through eighth grade students from around the Phoenix metropolitan area to discover engineering during DiscoverE Days, our 2016 Engineering Field Trip events. This year we will host an event on Friday, February 12, 2016 on ASU's Tempe campus, and on Friday, April 1, 2016 on ASU's Polytechnic 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. 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 18,000 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.

All sponsors will be featured in our annual Fulton Engineering Outreach Report—a publication distributed at the event as well as at ASU and Fulton Engineering community events throughout the year.

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

Packages

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*on both Polytechnic and Tempe campuses

Contact: Betsabe Sandoval, Assistant Director of Development, Betsabe.Sandoval@asu.edu or 480-727-1557
Field trip events to the Fulton Schools of Engineering drew close to 2,500 students to the Polytechnic and Tempe campuses.

Ashley Hayden knotted together a series of thin rubber bands to attach to a small white paper cup.

“We could probably put tape on the end,” said Ashlyn Hudson, inspecting Hayden’s work.

Teammate Mikala Buckwalter had gone off in a different direction, deciding that a paper plate makes a better “scoop” than a cup.

“Remember, we are supposed to combine our ideas,” Annie Stoddard blurted out.

Their mission: construct a device from everyday materials to rescue “Rover,” a stuffed toy animal, from a “sewer,” a small plastic bin.

The three girls, along with classmate Daniella Cruz, were among a group of third and fourth graders from Granville Elementary in Prescott Valley who had come to Arizona State University to participate in the Ira A. Fulton Schools of Engineering’s DiscoverE Day.

“We want the kids to experience what it is like to be an engineer. To think creatively, design and test their ideas. We want them to learn that failure is not a bad thing, and that it is part of the process that can be overcome,” said Trevor Forrey, an ASU undergraduate software engineering student who was running the activity session. “I love sharing the excitement of engineering, because I never knew what it was all about until I came to college.”

Sparking imagination

DiscoverE Day brings school field trip events to the Fulton Schools of Engineering — and one of ASU’s largest annual education outreach events — designed to spark youngsters’ interest in the world of engineering and the broad range of career opportunities in the field.

For this fourth year of DiscoverE Day events, ASU hosted close to 2,500 students in third through eighth grades on its Polytechnic and Tempe campuses. The students, teachers and chaperones came from about 100 public, private and charter elementary schools — as well as home school groups.

Students got a look at a diverse array of engineering applications from almost 90 exhibits presented by more than 300 Fulton Schools of Engineering students and staff volunteers, as well as about 25 teacher candidates from ASU’s Mary Lou Fulton Teachers College.

The title sponsor this year was the NPL Construction Company, a national leader in pipeline construction and energy distribution systems. Raytheon, the international aerospace and defense systems company, also sponsored DiscoverE Day.
Youngsters saw rudimentary demonstrations of rocketry and robotics, aeronautical and automotive engineering, biomechanical and solar energy technologies.

They used recycled materials to build small cars powered by balloons to learn about the concepts of force and propulsion.

They learned how a basic iPhone app is created and how video games are developed.

They tested their skills at using common materials to build small vehicles or structures that could glide through the air, float on water or bear up under the weight of various objects.

**Seeing connections**

“This is great hands-on learning,” said Lori Garcia, a teacher at Our Lady of Mount Carmel grade school in Tempe. “The kids are super-engaged. They are getting a look at how some of the things they are being taught about in class are applied in the real world.”

The fifth-graders from Heard Elementary School in Phoenix were equally enthralled.

“They love this stuff,” said teacher Rosalia Beruman. “They’re seeing the connection between science, technology and engineering and real life. For some of them this is the first time seeing a college campus and they are fascinated. Some of them are starting to talk about college and careers.”

Parent Dana Dailey was there with her son Ezra, a fifth-grade student from Magnet Traditional School in Phoenix. “This is right down Ezra’s alley. He is a math and science kid. He is always putting things together. Maybe he’ll be an engineer,” Dailey said.

“I can see this is a place where my son feels he fits in. It’s fun to see him get excited and connect with adults who were probably like him when they were in the fifth grade,” she said.

**Motivating activities**

Parent Sandra Shaver was with a contingent of third and fourth graders from Lake Valley and Granville elementary schools in Prescott Valley. DiscoverE Day, she said, “reinforces what their teachers are trying to teach them, how to experiment and create things, and how to build things.”

Kino Junior High School in Mesa again sent a large group to DiscoverE Day – about 50 students from the school’s Advancement Via Individual Determination (AVID) program. AVID students are typically representative of groups that have not traditionally pursued college education due to socioeconomic factors, said teacher Rochelle Deriso.

“We come [to DiscoverE Day] every year. It exposes them to college culture. We want to get them here on the campus interacting with college students,” Deriso said. “We want to open doors for them and get them motivated, and these kinds of hands-on experiences help do that.”

Chris Kmetty, who earned his degree in civil engineering at ASU in 1997, said he has seen the outreach event awaken young students’ innate problem-solving talents.

Kmetty, director of signature events for the Fulton Schools of Engineering Alumni Chapter Board, managed one of the interactive activities at this year’s DiscoverE Day.

“You give kids a challenge and they often instinctively see what needs to...
be done. I think a lot of students get some real insight into engineering out of this," Kmetty said.

**Engineering in action**

Teresa Clement, an engineer for Raytheon Missile Systems, a member of the ASU Alumni Association board, and president of the Fulton Schools of Engineering Alumni Chapter Board, has engaged with students at DiscoverE Day for several years.

"It's really enlightening to see how much they are able to get out of it in only a day, and to watch their excitement when they learn something new," she said. "You can catch some of them having that 'aha' moment when they realize they are seeing math or engineering in action."

Sort of like what happened to Ashley Hayden and her fellow elementary school students when they were trying to devise ways to rescue "Rover" from the "sewer."

They were unsuccessful in their mission, but by testing their rescue device they came up with new ideas to make it work better.

Jane Nguyen, an undergraduate in elementary education in the Mary Lou Fulton Teachers College, who was team-teaching with engineering student Trevor Forrey, told Hayden and the other students, "When I asked you at the start, many of you thought you weren't engineers. But you are. You just went through the engineering process."

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For more information, visit [openhouse.engineering.asu.edu](http://openhouse.engineering.asu.edu)

**By the numbers**

- nearly 2,500 students
- 85 school groups
- over 70 exhibits
- 300+ engineering students, faculty and staff made it happen

**2015 sponsors**

Raytheon

NPL
2016 DiscoverE Days Sponsorship Form

Thank you for your support of DiscoverE Days 2016, the Fulton Schools of Engineering field trip days 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):

__________________________________________

Primary contact:

Phone: ___________________________ Email: ___________________________

Sponsorship level:

Levels that include logo promotion will be advertised on both campuses.

☐ Title ($7,500)

☐ Gold ($5,000)

☐ Maroon ($2,500)

☐ Partner ($1,000)

☐ Friend ($250)

☐ Exhibitor ($100)

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: ___________________________

Engineering is everywhere you look, it touches every part of daily life and brings us so many inventions and devices to make the world a better place. Engineering is also super cool! Check out our programs and discover why we are so excited to be doing what we do!

Join us: outreach.engineering.asu.edu