



Join us for IIBI, design a t-shirt, enter our STEM contest

Invent it. Build it.



Register for Invent it. Build it.

Have you ever wondered about how your iPads work? Or maybe you wondered about how a 3-ton metal airplane flies through the air? Whatever it is you are curious about, chances are an engineer has had a hand in designing and building it.

This year at Invent It. Build It., SWE's flagship girls program, you can learn all about what being an engineer really means through hands-on learning activities and interactions with practicing engineers! This year Invent It. Build It. will be taking place in Philadelphia, Pennsylvania, on October 29. All middle and high school girls are invited to attend.

[Learn more here.](#)

We Need New Swag!

As SWENext continues to grow, our t-shirt needs to evolve with the group. We need a new updated look that will match the fun, excited, and passionate spirit of the community. That's why we are hosting the SWESwag Design Challenge.

To enter the SWESwag Design Challenge all you have to do is:

1. Sketch, paint or even electronically design a new face of the SWENext t-shirt.



2. Send a picture of your final design to christine.maida@swe.org with your name, email, and year in school included in the message.

Submitted t-shirt designs will then be posted to our national [SWE Facebook page](#) for judging. The photo with the most likes on Facebook will be our winner. There will be two division winners; one for K-8 students and one for 9-12 students.

All submissions are due by Wednesday August 31. There will be a one-week judging period and results will be released in the September SWENext Newsletter!

New Cool Competition

[RGMCs](#) (Rube Goldberg Machine Contests) present the perfect methodology to inspire young minds in STEM and STEAM curriculum. Science, Technology, Engineering, and Math are foundational components of any chain-reaction machine. Now add Rube Goldberg's screwball humor and Artistry to the mix and watch the fun begin!

To learn more about RGMCs, become a host, or register a team to compete, visit [Contests](#).

National Museum of Nuclear Science and History Photo Contest



This year the National Museum of Nuclear Science and History will host a Science, Technology, Engineering, Art, and Mathematics (STEaM) themed photo contest. All photo entries must have a subject that relates to the STEaM theme!

[Click here to learn more about the competition and how to enter.](#)

Check out last year's winning photo!

eCybermissions

[eCybermission](#) is a free online STEM learning competition which cultivates interest in science, technology, engineering and math by encouraging students to develop solutions to real-world challenges in their local communities. Students can win on a state, regional, and national level, with national winning teams receiving up to \$9,000 in U.S. EE Savings Bonds, valued at maturity. Administered by the National Science Teachers Association, teams of three to four students participate with the support of an adult team advisor.

Registration opens for students in grades 6-9 in September. [Click here to visit eCybermission and learn how to register.](#) To learn more about other STEM education programs available for students, visit the [Army Educational Outreach Program](#)



(AEOP).

Engineering Activity Challenge

Dates: August 12- August 26

Theme: A Lemon Battery

Challenge: Can you take lemons and make lemonade? Just kidding...that'd be too easy. This month's actual challenge is to transform a lemon into a battery. Then maybe afterwards make some lemonade to celebrate your success.

[Click here for a guide on the engineering activity challenge.](#)



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