

swe NEXT



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It's Summertime!

Hey, SWENexters! This is our last newsletter of the school year. Enjoy your summer, be safe, and keep engineering! We'll be back in September. Keep in touch with us on [Facebook](#), [Twitter](#), and our new [SWENext YouTube channel](#).

Meet Ellen McIsaac, Materials Engineer

SWENexters: Meet Ellen McIsaac, a Materials Engineer for Lockheed Martin. Find out how she got there, a project she's working on, and how you can #BeThatEngineer on SWE's [All Together](#) Blog.



Watch our Day in the Life of an Engineer video series



Have you ever wondered what it's like to be an engineer? SWE has partnered with Terracon to find out more about women engineers.

Connecting to SWE



SWE makes it easy to stay connected at every phase of your education/career.

As you all know, SWENext helps grade school and high school students learn more about engineering, and how engineers are creative problem solvers that help shape the future.

SWE also has college level sections to keep university students engaged in the community of women engineers. This is a great way to have a support system as you go through school and prepare for your career.

Finally, SWE has professional level sections once you start your career. This provides a way for women to network and collaborate with other engineers and learn about different projects going on.

Want to find out which SWE sections are in your area (either collegiate or

professional)? You can search for them [here on the SWE website](#). Or, you can search for them in your web browser by typing in the college or city name and “SWE.” For example, typing in “Ohio State SWE” takes you right to their website!

Questions about SWE or SWENext? Send an email message to swenext@swe.org.

Medtronic Tour – exclusive opportunity for SWENexters



Medtronic is opening its doors to the 2018 SWENext High School Leadership Academy (SHLA) at this year’s WE18 conference in Minneapolis, MN. SHLA participants will have a unique opportunity to explore one of Medtronic’s largest facilities while learning about how Medtronic is Transforming Healthcare through Meaningful Innovation. Participants will get an inside look into how Medtronic is using new and innovative tools like Augmented Reality (AR), 3D printing, and 360° immersive environments, to help alleviate pain, restore health, and extend life.

Apply for a SWENext Award for a chance to be part of the SWENext High School Leadership Academy and the Medtronic Tour! Details about the awards applications are below.

2018 SWENext Awards

It’s time to share your awesomeness! Apply for SWENext Awards!

2018 SWENext Global Innovator Award – for Rising juniors and seniors

If you are a rising junior or senior in high school, you are eligible to submit a video and four short essays that highlight your STEM and leadership accomplishments. The award recipients are selected by SWE members and up to six SWENexters will be selected. **The deadline to apply is July 31, 2018 at 11:59 PM CT (Midnight).**



SWENext Global Innovator Award Recipients receive the following:

- All-expenses paid trip to WE18, SWE’s Annual Conference in Minneapolis, MN in October 2018 for the recipient and one adult chaperone.
- Recognition for their accomplishments during the SWE Awards Banquet.
- Participation in the SWENext High School Leadership Academy.

- Participation in the [Invent it. Build it.](#) event as an engineer's assistant.
- A 3D printed trophy and certificate of achievement.
- SWE Commemorative Shirts: “Watch Me Change the World” and other goodies.

[Click here to apply for the 2018 SWENext Global Innovator Award Program >>](#)



2018 SWENext Northrop Grumman Community Award – Minneapolis – for rising freshmen and sophomores

If you are a rising freshmen and sophomore, you are eligible to design and submit a poster detailing your proposed STEM-based solution to this problem. **The deadline to apply is July 31, 2018 at 11:59 PM CT (Midnight).**

For 52 years, the Upper St. Anthony Lock in Minneapolis allowed ships to transport goods past the only waterfall on the Mississippi River. [In 2015, the lock closed to prevent invasive Asian Carp from spreading any further up the Mississippi River.](#) These fish reproduce quickly, jump over barriers, and push out native species as they make their way up the river. Closing the lock seemed essential to stop the fish, but it pushed all cargo into trucks, increasing road traffic through Minneapolis and changing the city’s relationship to the river.

Put yourself in the shoes of an engineer. How would you stop Asian Carp from progressing further up the Mississippi River and into Minnesota’s other waterways in a way that would allow the Upper St. Anthony Lock to be reopened? Alternatively, how would you alleviate the cargo shipment traffic on Minneapolis roadways caused by the lock closure?

SWENext High School Community Award Recipients receive the following.

- Registration to WE18, SWE’s Annual Conference in Minneapolis, MN in October 2018 for the recipient and one adult chaperone.
- Participation in the SWENext High School Leadership Academy.
- Participation in the [Invent it. Build it. event](#) as an Engineer's Assistant.
- Participation in Community Award poster presentations during the STEM EXPO where they will present their poster to middle school girls, parents, educators, and professional engineers.
- A 3D printed trophy and certificate of achievement.
- SWE Commemorative Shirts: “Watch Me Change the World” and other goodies.

SWENext Northrop Grumman Community Award recipients are selected by SWE members.

[Check out a selection of the SWENext Northrop Grumman Community Award winning posters from 2017.](#)

[Click here to apply for the 2018 SWENext Northrop Grumman Community Award Program >>](#)

Take on the SWENext Club Challenge



SWE is challenging the next generation to create an exciting engineering demo and to celebrate women engineers who broke boundaries in their field. The winning club will come to SWE's Annual Conference, WE18, in Minneapolis, Minnesota this October and show their demo to women engineers.

Find out more about how to [start a SWENext Club](#) and take on the [SWENext Club Challenge](#).

Register for Invent it. Build it.

High School SWENexters: now's the time to [register for Invent it. Build it.](#), our largest hands-on engineering event. When registering, don't forget to enter the early-bird phrase "BETHATENGINEER" to be entered into a special raffle at the event!



Win a \$25 gift card with June's SWENext Engineering Challenge

SWE recently announced who the new Society leaders are for 2019, which includes the president-elect and more. With that exciting buzz in the air, we're challenging you to take a photo with and/or share a story about a time you interacted with a professional or collegiate SWE member. What did you do with them? Were they an officer in their section? Tell us all about it!

Post it by July 29 on our [closed SWENext Facebook Group](#). #BeThatEngineer

The winning SWENexter will be selected by random from all entries and will win a \$25 Amazon gift card.



 130 East Randolph Street, Suite 3500
Chicago, IL 60601
www.swe.org | #BeThatEngineer

The purpose of this email is to publicize a program or activity sponsored by the Society of Women Engineers (SWE). You are receiving this email because you are either a SWE member or have an affiliation with SWE. [Unsubscribe](#)

