

swe **NEXT**



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A Day in the Life of an Electrical Engineer

Meet Fiona Redmond, an Electrical Engineer with Hughes Network Systems. Find out how she got there, a project she's working on, and how you can #BeThatEngineer on SWE's *All Together* Blog.



The first female Electrical Engineer

Would you believe that the first female Electrical Engineer was born 135 years ago in 1883? Edith Clarke got a Master's degree in Electrical Engineering from the Massachusetts Institute of Technology (MIT) in 1919. She was also the first woman professionally employed as an Electrical Engineer in the United States when she went to work for General Electric in 1923.



[Read more about Edith Clarke](#) and be inspired!



2018 SWENext Awards

It's time to share your awesomeness! Apply for SWENext Awards by July 31!



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. Up to 6 SWENexters will be selected.

SWENext Global Innovator Award recipients receive the following:

- All-expenses paid trip to WE18, SWE's global 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. The deadline is July 31, 2018 at 11:59 p.m. CDT.](#)

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

If you are a rising freshman or sophomore, you are eligible to design and submit a poster detailing your proposed STEM-based solution to this problem.

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 global 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.

[View 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. The deadline is July 31, 2018 at 11:59 p.m. CDT.

EngineerGirl Ambassadors

Looking for ways to volunteer and promote Engineering among younger girls? Looking for ways to gain leadership experience? Looking for more scholarship application opportunities? (All of these are great college application boosters!) **[Apply to be an EngineerGirl Ambassador!](#)** Applications for the 2018-2019 school year are due by May 31, 2018.



Each Ambassador receives:

- An all-expenses-paid trip for the student and a chaperone to WE18, SWE's Annual Conference. (October 18-20, 2018, in Minneapolis, MN)
- Project funding of up to \$250.
- Leadership development and membership in a community of like-minded young women from around the country.
- The opportunity to be considered for a \$1,000 scholarship.
- A free one-year SWE membership upon acceptance to a university engineering program.

Click here to learn more and apply today. Applications for the 2018-2019 school year are due by May 31, 2018.

SWENext Award recipients at WE Local Portland and Providence

We love celebrating our SWENext Award recipients!

Congratulations to the **SWENext Local Innovator Award** recipients who were honored in Portland, Oregon on April 7 and in Providence, Rhode Island on April 21. They each answered four essay questions and created a video. Take a look!

- [Kira Corbett](#), Clackamas Web Academy in Portland, OR
- [Angela Zhang](#), Quartz Hill High School in Palmdale, CA
- [Mariah Gifford](#), Quartz Hill High School in Lancaster, CA
- [Kaitlyn Sandor](#), Daniel Hand High School in Madison, CT
- [Swathi Parthibha](#), Middlesex County Academy in Edison, NJ
- [Christina Patterson](#), Vincentian Academy in Wexford, PA

Congratulations to the SWENext Northrop Grumman High School Community Award recipients in Portland and Providence. They designed and submitted posters detailing their proposed STEM-based solution to a local problem.

- Jasmine Cheng, Skyline High School in Sammamish, WA
- Esther Adegoke, Brockton High School in Brockton, MA
- Sofia Conte, Montrose School in Westwood, MA
- Bridget Gleason, Sandwich High School in Sandwich, MA
- Caroline Kasuba, Mount Hebron High School in Ellicott City, MD
- Holly Mastromonica, South Brunswick High School in Monmouth Junction, NJ
- Christina Patterson, Vincentian Academy in Pittsburgh, PA
- Shreya Santhanagopalan, Mount Hebron High School in Ellicott City, MD
- Aneekah Uddin, Montclair High School in Montclair, NJ
- Noa Yovel, Downingtown STEM Academy in Chester Springs, PA

We are very proud of all of you! Check out photos from the events below.



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 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!

[Register today >>](#)

SWENext Social Media Challenge with a chance to win a \$25 Amazon gift card!

This month, all of us at SWE want to highlight the great work that outreach organizations do to promote engineering and science outside of the classroom.

Are you involved with FIRST Robotics, Girl Scouts, a SWENext Club, or another club/organization that allows you to learn more about engineering outside of your classes? If you are, share a picture of yourself in action!

Post it by May 31 on our [closed SWENext Facebook Group](#). Use **#BeThatEngineer**. The winning SWENexters will be selected randomly 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](#)

