



JOHNS HOPKINS  
WHITING SCHOOL  
of ENGINEERING

Center for  
Educational Outreach

## March 2020 STEM Newsletter

Greetings!

This edition of the JHU STEM Newsletter covers events and program deadlines in March. We invite Maryland K-12 students and educators to take advantage of these upcoming events and professional development opportunities.

Enjoy,

Center for Educational Outreach Team

Visit Our  
Website

## Upcoming Programs

### Ready, Set, Design! Middle School Engineering Workshop

Ready, Set, Design! provides introductory engineering experiences for young girls in the Baltimore area through half-day events held on the Johns Hopkins University campus. This is our middle school engineering workshop for girls in grades 6-8, where participants will be able to work in small groups to design and build a project involving LEDs and Arduinos. JHU students will act as mentors for the girls. Our goal is to allow the girls to experiment with engineering and inspire them to pursue further STEM interests in a creative and educational environment.

**Registration Deadline:** Friday, February 28, 2020

**Program Date:** Saturday, February 29, 2020

**Program Time:** 10:30 AM to 1:00 PM

**Location:** Charles Commons Salon B, 3301 N Charles Street, Baltimore MD 21218

For more information click [HERE](#) or e-mail [Ready, Set, Design!](#) to learn more.

### Women in Science and Engineering (WISE)

We are now accepting applications for spring and summer 2020! Baltimore City public high school female juniors and seniors interested in pursuing STEM majors in college are urged to apply to [the WISE program](#). WISE offers a unique opportunity to work one-on-one after school alongside a graduate mentor



JOHNS HOPKINS  
WHITING SCHOOL  
of ENGINEERING

in a JHU engineering and research laboratory. Intent to apply should be submitted [HERE](#) prior to the application submission.

**Summer Early Application Deadline:** 11:59 PM on Sunday, March 15, 2020

**Summer Program Dates:** Approximately 4 weeks between June 2020 - August 2020, 6 hrs/day

**Location:** Homewood Campus, 3400 N. Charles Street, Baltimore, MD 21218

Click [HERE](#) or contact [Ruby Holder](#) for more information.

## Girl Power

Girl Power features hands-on activities, cool demonstrations, and take-home materials for students to encourage an interest in STEM careers. Participants have the opportunity to talk to professional women working in STEM fields such as aerospace, computer science, electrical engineering, geology, information technology, and space mission engineering.



**Date:** Sunday, March 15, 2020

**Time:** 2:00 PM to 5:00 PM

**Location:** JHU APL Kossiakoff Center, 1100 Johns Hopkins Rd, Laurel MD 20723

For more information click [HERE](#) or e-mail [APL STEM](#) to learn more.

## Army Educational Outreach Program (AEOP), Research and Engineering Apprenticeship Program (REAP)

AEOP REAP is a summer STEM program that places talented high school students, from groups historically underserved in STEM, in research apprenticeships at area colleges and universities. REAP apprentices work under the direct supervision of a mentor on a hands-on research project. REAP apprentices are exposed to the real world of research, they gain valuable mentorship, and they learn about education and career opportunities in STEM. REAP apprenticeships are 5-8 weeks in length (minimum of 200 hours) and apprentices receive a stipend.



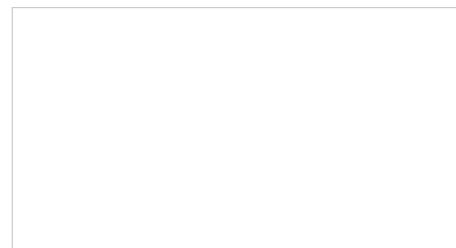
**Application deadline:** Sunday, March 15, 2020

**Location:** Johns Hopkins University, 3400 N Charles St, Baltimore MD 21218

For more information click [HERE](#) or e-mail [Bess Bieluczyk](#) to learn more.

## Ready, Set, Design! Elementary School Engineering Workshop

Ready, Set, Design! provides introductory engineering experiences for young girls in the Baltimore area through half-day events held on the Johns Hopkins University campus. This is our elementary school engineering workshop for girls in grades 3-5, where participants will be able to work in small groups to brainstorm, build, and present their prototype solutions to themed, real-world engineering problems in groups. JHU students will act as mentors for the girls. Our goal is to allow the girls to experiment with engineering and inspire them to pursue further STEM interests in a creative and educational environment.



**Registration Deadline:** Friday, March 27, 2020

**Program Date:** Saturday, March 28, 2020

**Program Time:** 10:30 AM to 1:00 PM

**Location:** Charles Commons Salon C, 3301 N Charles Street, Baltimore MD 21218

For more information click [HERE](#) or e-mail [Ready, Set, Design!](#) to learn more.

## YES! Connect Summer Program

Young Environmental Scientists (YES!) Connect program is seeking a Baltimore City Public School elementary teacher to help recruit 10 current third grade students from their school to participate in a week of free 2020 summer camp and two SY20-21 school-day field trips. We want to partner with one school to provide 10 third grade students with this outdoor nature-based, science learning experience.

Students will receive free breakfast, lunch, and snacks each day. Free transportation provided.

**Interest Deadline:** Tuesday, March 31, 2020

**Dates:** Monday, July 13, 2020 to Friday, July 17, 2020

**Times:** 8:00 AM to 4:00 PM

**Location:** Carrie Murray Nature Center, 1901 Ridgetop Rd, Baltimore MD 21207

For more information click [HERE](#) or contact [Erin Burk](#) to learn more.



## Get Involved

### Maryland Science Olympiad Baltimore City Regional Tournament

The Maryland Science Olympiad Baltimore City Regional Tournament will be held on Saturday, March 7th at Morgan State University. This event draws in hundreds of students so we need your help to make sure things run smoothly. Please sign up to volunteer and see how students connect with STEM. If you aren't able to volunteer, you can still attend and observe this tournament.

**Date:** Saturday, March 7, 2020

**Time:** 8:00 AM to 5:00 PM

**Location:** Morgan State University, 1700 East Cold Spring Ln, Baltimore MD 21251

For more information click [HERE](#) or e-mail [Kate McGuire](#) to learn more.



### FIRST Chesapeake District Events

Under strict rules, limited resources, and an intense time limit, teams of high school students are challenged to raise funds, hone teamwork skills, and build and program industrial-size robots to play a field game against like-minded competitors. It's as close to real-world engineering as a student can get. Sign up to volunteer! Some volunteer positions require technical skills, but many simply require a willingness to help. All roles come with training and a supportive community.



Owings Mills Event

**Dates:** Saturday, March 14 and Sunday, March 15, 2020  
**Times:** 7:00 AM to 5:00 PM (Volunteer times vary)

Edgewater Event Sponsored by Leidos  
**Dates:** Saturday, March 21 and Sunday, March 22, 2020  
**Times:** 7:00 AM to 5:00 PM (Volunteer times vary)

**Edgewater Event Location:** South River High School, 201 Central Ave E, Edgewater MD 21037

For more information click [HERE](#) or contact [Jenny Beatty](#) to learn more.

## SABES STEM Showcase Interactive Demonstration Volunteers Needed!



STEM Achievement in Baltimore Elementary Schools (SABES) is hosting its annual STEM Showcase where participating K-5th grade students will show off their STEM knowledge and student-driven projects to family, friends, and local community members. We are seeking volunteers to run interactive demonstration tables - these tables will be visited by participating students and families attending the event. You can sign up individually or as a group - the more the merrier! We have pre-made activities you can choose from or you can provide your own. It's always a fun event for all involved. No STEM experience needed to participate. Please email [sabes@jhu.edu](mailto:sabes@jhu.edu) to sign up.

**Date:** May 7th, 2020

**Time:** 5:00 PM - 7:00 PM

**Location:** Glass Pavilion in Levering Hall at Johns Hopkins University, 3400 N Charles St, Baltimore MD 21218

For more information about volunteering, click [HERE](#) or contact [Erin Burk](#).

## Professional Development

### Science Leadership Foundation PLC

The Center for Educational Outreach will be hosting a week-long science leadership course to equip school-based leaders with knowledge, skills, and tools to support science instruction in a pre-K-8 setting. The course will be taught by Dr. Katya Denisova and Principal Miguel Cervantes del Toro.



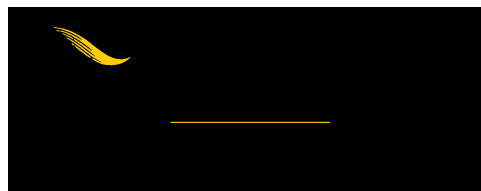
**Dates:** Monday, July 20, 2020 - Friday, July 24, 2020

**Time:** 8:30 AM to 3:30 PM

**Location:** Homewood Campus, 3400 N. Charles Street, Baltimore, MD 21218

For more information click [HERE](#) or e-mail [STEMOutreach](#) to learn more.

### Insect Investigations Professional Learning Workshop



The Insect Investigations: Using 'bugs' to engage students in the NGSS Science and Engineering Practices is a 4-day workshop that will focus on how to use insects in the classroom to engage students in the Science and Engineering Practices that are an essential part of the new Next Generation Science Standards (NGSS). Teachers will be given everything they need to engage their students in a lesson they create that

includes the use of live insects.

**Application Deadline:** Monday, March 23, 2020

**Workshop Dates:** Tuesday, July 7, 2020 to Thursday, July 9, 2020; Saturday, November 7, 2020

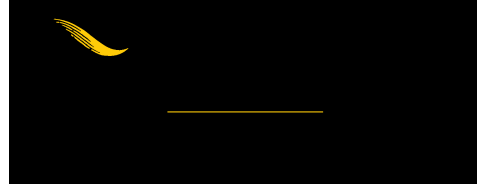
**Times:** 8:00 AM - 3:30 PM in July; 9:00 AM - 3:30 PM in November

**Location:** Towson University Center for STEM Excellence, 701 E. Pratt St., Baltimore, MD 21202

Contact [Mary Stapleton](#) or click [HERE](#) to learn more.

## Climate Literacy and NGSS Professional Learning Workshop

A 5-day professional development workshop focusing on climate literacy aligned with the Next Generation Science Standards for science teachers of grades 6 - 12; teachers will learn how to facilitate 3 original climate change activities developed by the Towson University Center for STEM Excellence



**Application Deadline:** Tuesday, March 31, 2020

**Workshop Dates:** Tuesday, July 14, 2020 to Friday, July 17, 2020; Saturday, November 14, 2020

**Times:** 8:00 AM to 3:00 PM in July; 9:00 AM to 4:00 PM in November

**Location:** Towson University Center for STEM Excellence, 701 E. Pratt St., Baltimore, MD 21202

Contact [Kara Berger](#) or click [HERE](#) to learn more.