Greetings!

This edition of the JHU STEM Newsletter covers events and program deadlines from February through 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

Upcoming Programs and Events

Digital Harbor Foundation's Maker Foundations

Enjoy learning new skills and creating projects as you explore popular maker topics. In this flagship program, youth will design and 3D print your own creations, learn to program games and make your own game artwork, make a website, create interactive electronics, and much more! Our Program is pay-what-you-can, text "programs" to 443-681-9384 to get started.

Registration Deadline: Friday, February 1st, 2019
Program Dates: Monday, February 11th - Thursday, May 23rd, 2019
Time: 4:00 PM - 6:00 PM
Location: 1045 Light St, Baltimore MD, 21230

Email or click HERE for more information

Tower of Power in Your Classroom!

Join Johns Hopkins University's Whiting School of Engineering in celebrating National Engineers Week (February 17-23, 2019) by building a tower from spaghetti and marshmallows. The tallest freestanding tower wins!

The top five winning middle school teams will be invited to JHU's Tower of Power competition on Tuesday, February 19, 2019 to build their tower again and compete with undergraduate students, alumni, and faculty teams.

Entries due: Friday, February 8, 2019
JHU Engineering Innovation

Engineering Innovation is an exciting college-level summer program for motivated high school students with an aptitude in math and science and an interest in (or curiosity about) engineering. Students learn to think and problem-solve like engineers and have the opportunity to earn Johns Hopkins University (JHU) credit.

1st Application Deadline: Friday, February 15th, 2019
Program Dates: Monday, June 24, 2019 - Friday, July 19, 2019
Time: 9:00 AM - 3:00 PM in most locations
Location: Multiple - including JHU-Homewood, JHU-APL, and JHU-Montgomery County

Contact Suzanne Kantt for more information or click HERE for program details.

Research and Engineering Apprenticeship Program

The Hopkins Extreme Materials Institute at Johns Hopkins University hosts the Research and Engineering Apprenticeship Program (REAP) created by the US Army Educational Outreach Program (AEOP). REAP is a summer Science, Technology, Engineering and Math (STEM) program that places talented high-school students from groups historically under-represented and underserved in research apprenticeships at U.S. colleges and universities. REAP apprentices work on a hands-on research project under the direct supervision of a mentor, exposing them to the real world of research and allowing them to learn about education and career opportunities in STEM.

Deadline: Thursday, February 28, 2019
Location: Johns Hopkins University

Contact Dr. Victor Nakano for more information or click HERE to apply.

Maryland Science Olympiad

Maryland Science Olympiad will be hosting the Baltimore City Regional Tournament. Middle school students from over 25 schools in Baltimore City will be competing for medals in events ranging from bottle rockets to towers and propeller planes! Volunteers are needed to help supervise events. Come check out the students’ projects and see what MSO is all about!

Event Date: Saturday, March 9, 2019
Time: All day
Location: Morgan State University, 1700 E. Cold Spring Ln, Baltimore, MD 21251
Girl Power

This is a hands-on, high energy STEM Expo for elementary and middle school students. Visitors get a chance to learn about STEM careers from APL and community STEM professionals.

Date: Sunday, March 10th, 2019
Time: 2:00 PM - 5:00 PM
Location: Johns Hopkins University Applied Physics Lab, 11100 Johns Hopkins Rd. Laurel, MD 20723

E-Mail Elise Buckley or click HERE for more information

Professional Development Opportunity

FutureMakers: Teacher Gym & Happy Hour

In response to growing demand FutureMakers is offering a series of FREE teacher centered hands-on workshops with affordable and durable student-ready tools, materials, and creative technologies - think of it as gym class for PK-8 educators who love to make and innovate. Learn how you and your students can transform the quality, scope and depth of 3D projects, and use tested tools and materials from our workshops. Register in advance and get a free drink on us!

2/7/2019 Workout 5: Wood You Be Mine?
3/21/2019 Workout 6: It’s lit!

Event Date: Thursday, February 7th & Thursday, March 21st, 2019
Time: 4:00 PM - 6:00 PM
Location: The Showroom at the Motor House, 120 W. North Ave., Baltimore, MD 21201

Contact Future Makers for more information or click HERE to register.

Volunteer Opportunities

FIRST LEGO LEAGUE Maryland State Championship

FIRST LEGO League provides students age 9-14 with a hands-on, interactive robotics program in a sports-like atmosphere. The State Championship will feature 80 teams who have earned their way to this competition. There are a variety of volunteer positions and 250+ volunteers will participate in this event. Training is provided for all positions.

Date: Saturday, February 23rd, 2019
Time: Times vary based on position
Location: UMBC - Catonsville

Contact Jenny Beatty for more information or click HERE to volunteer.

FIRST Chesapeake District Competition
High-school student participants call it "the hardest fun you'll ever have."
Under strict rules, limited resources, and an intense six-week time limit, teams of 20 or more
students are challenged to raise funds, design a team "brand," hone teamwork skills, and build
and program industrial-size robots to play a difficult field game against like-minded competitors.
It's as close to real-world engineering as a student can get. Consider signing up to volunteer!
Some volunteer positions require technical skills, but many simply require enthusiasm and
willingness to help support FIRST. All roles come with training and a supportive community. All
FIRST events are free and open to the public.

**Deadline:** Saturday, March 16th & Sunday, March 17th, 2019
**Time:** 8:00 AM - 5:00 PM. Volunteer times vary.
**Location:** McDonogh School, Owings Mills, MD 21117

Contact Jenny Beatty for more information or click HERE to volunteer.

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**Become a SABES Mentor**

SABES (STEM Achievement in Baltimore Elementary Schools) is looking for Mentors to work in our afterschool program. Mentors will assist in the classroom as students complete engaging STEM projects. Our afterschool program provides students with opportunities to grow their knowledge and curiosity, and lead inquiry-based projects related to their community's needs. If you have a background or interest in STEM and want to mentor 3rd - 5th grade students, please consider becoming a STEM Achievement in Baltimore Elementary Schools (SABES) mentor!

**Requirements:** Must pass a background check and have reliable transportation
**Dates:** Ongoing - throughout the school year
**Current Locations:** Baltimore City elementary schools
**Frequency:** 1-2 visits per month. Programs run between 3:00 PM - 5:00 PM
Mon - Thurs

Click HERE to sign up or email Erin Burk for more information.
April 2019 STEM Newsletter

Happy spring!

This edition of the JHU STEM Newsletter covers events, program deadlines, and opportunities from April through May. 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

Upcoming Programs and Events

Women in Science and Engineering (WISE)

We are now accepting applications for summer 2019 and fall 2019! 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 in a JHU engineering and research laboratory. Intent to apply should be sent to Ruby Holder by Wednesday, April 3, 2019. Visit the website below for details on eligibility and to start the application.

**Summer Application Deadline:** 8:00 am on Friday, May 3, 2019  
**Summer Program Dates:** June 2019 - August 2019, 6 hrs/day over 4 weeks  
**Location:** Homewood Campus, 3400 N. Charles Street, Baltimore, MD 21218

Contact Ruby Holder for more information or click [HERE](#) to complete the application.

SABES STEM Showcase

It's time for the annual Spring STEM Showcase for Baltimore City elementary students to share their projects and learning from throughout the year. Families and community members are invited to join the event and have fun with interactive demonstrations!

**Event Date:** Wednesday, May 15, 2019  
**Time:** 5:30 PM - 7:30 PM  
**Location:** Columbus Center, 701 E Pratt St, Baltimore, MD 21202
ASPIRE High School Internship

The ASPIRE program at APL is the opportunity for juniors and seniors in high school to get hands-on experience in STEM and to explore career opportunities before committing to an area of study in college. The ASPIRE program is a learning experience that exposes students to the real-world applications of what they are learning in school as well as to what it is like to work in a professional environment. Applications for 2019-2020 school year open Monday, April 15, 2019.

**Application Deadline:** Thursday, May 30, 2019  
**Program Dates:** September - May, minimum 5 hrs/wk  
**Location:** Johns Hopkins University Applied Physics Lab, 11100 Johns Hopkins Rd., Laurel, MD 20723  

E-Mail **APL ASPIRE** or click **HERE** for more information.

BmoreSTEM Ecosystem Launch

BmoreSTEM is a network of organizations and individuals committed to brightening Baltimore’s future by developing a local workforce equipped to accelerate businesses related to science, technology, engineering, and math. BmoreSTEM launched on Tuesday, February 19 with remarks by Dr. Santelises from City Schools and Delali Dzirasa from Fearless.

If you want to provide input on the City Schools proposed STEM plan click **HERE**. To learn more about the Bmore STEM Ecosystem, click **HERE**.

Professional Development Opportunity

**FutureMakers - Teacher Gym (& Happy Hour)**

FutureMakers offers FREE teacher centered hands-on workshops with affordable and durable student-ready tools, materials, and creative technologies - think of it as gym class for PK - 8 educators who love to make and innovate. Learn how you and your students can transform the quality, scope and depth of 3D projects, and use tested tools and materials from our workshops.

**Event Dates:** Thursday, April 11, 2019 & Thursday, May 9, 2019  
**Time:** 4:00 PM - 6:00 PM  
**Location:** Showroom Bar at the Motor House 120 W. North Ave., Suite 301 Baltimore MD 21201

Contact **Future Makers** or click **HERE** for more information.

Digital Harbor Foundation Educator Workshops

Each one of our educator workshops teaches the basics so that you can return to your own classroom and teach with confidence. Each workshop is free for educators and registration is required.

**Upcoming Workshops:**  
- **4/25/2019:** Quantum Computing  
- **5/16/2019:** Game Design  
- **6/6/2019:** Python for Educators

Contact Erin Burk for more information or click **HERE** for program details.
learning spaces and confidently facilitate projects and lessons. As a workshop participant, you'll receive a kit of physical supplies that you'll learn how to use during the course. After the workshop, you take home the kit for use in your own makerspace or classroom. In addition, you'll have post-workshop access to an online community and a collection of online materials that support and extend what you have learned.

**Program Dates:** Various dates in July & August  
**Time:** Depends on workshop  
**Location:** 1045 Light St, Baltimore MD, 21230

E-mail [Digital Harbor Foundation](mailto:) or click [HERE](http:) for more information
June - August 2019 STEM Newsletter

Happy summer!

This edition of the JHU STEM Newsletter covers events, program deadlines, and opportunities from June through August. 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

Upcoming Programs

**Women in Science and Engineering (WISE)**

We are now recruiting applications for fall 2019! 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 in a JHU engineering and research laboratory. Intent to apply should be submitted here.

**Fall Application Deadline:** TBD
**Fall Program Dates:** October 2019 - January 2020, 3 hrs/day, twice a week over 15 weeks
**Location:** Homewood Campus, 3400 N. Charles Street, Baltimore, MD 21218

Contact Ruby Holder for more information or click HERE to complete the application.

**Biomedical Engineering Innovation Online**

Biomedical Engineering Innovation is an online course that introduces biomedical engineering to high school students by (1) modeling biological systems and designing experiments to test those models and (2) introducing engineering principles to solve design problems that are biological, physiological, and/or medical. Students will model human efficiency, the arm, and the cardiovascular system. Students who complete the course with an A or a B can receive college credit.
Barclay Summer STEM Academy

The Barclay Summer STEM Academy, sponsored by Johns Hopkins University, is a three-week summer learning program for students entering grades 5-8 in Fall 2019. This year's program will run from July 8th-26th and will feature engineering, technology, arts & making, and media arts. A limited number of seats are still available for the 5th and 6th grade cohorts! Register today to save your space. Priority placement for City Schools students will continue through June 14th. Registration forms can be found online at here.

Program Dates: Monday, July 8, 2019 - Friday, July 26, 2019
Time: 8:30 AM - 3:00 PM, daily
Location: Barclay Elementary/Middle School, 2900 Barclay Street, Baltimore, MD 21218

Contact Becky Palmisano or click HERE for more information.

Digital Harbor Foundation Educator Workshops

Each one of our educator workshops teaches the basics so that you can return to your own learning spaces and confidently facilitate projects and lessons. As a workshop participant, you'll receive a kit of physical supplies that you'll learn how to use during the course. After the workshop, you take home the kit for use in your own makerspace or classroom. In addition, you'll have post-workshop access to an online community and a collection of online materials that support and extend what you have learned.

Program Dates: Various dates in July & August
Time: 10:00 AM - 5:00 PM
Location: 1045 Light St, Baltimore MD, 21230

E-mail Digital Harbor Foundation or click HERE for more information.

Professional Development

Science Leadership Course at JHU

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 preK-8 setting. This 45-hour Professional Learning Community focuses on the content knowledge, pedagogical practices, and leadership knowledge required to support, sustain, and advance science literacy achievement in PreK-5 and PreK-8 schools, as outlined and described by the Common Core and Next Generation Science Standards (NGSS). Those who successfully complete the course will earn three MSDE CPDs. The course will be taught by Dr. Katya Denisova and Principal Miguel Cervantes del Toro. For additional information regarding this course, complete the interest form below.
**Course Dates:** Monday, August 12, 2019 - Friday, August 16, 2019

To receive additional information about the course complete [this interest form](#) or call 410-516-0493.

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**STEM Champions of Baltimore Curriculum Available**

BLACK PANTHER themed Curriculum is available for your Summer or Fall Program. It contains 25 hours of interactive hands-on activities. It includes Black Panther themes of developing leadership, working with others, and technology benefiting society with STEM activities. It can be used for many years.

We have available options for on site training, on site coaching, lesson plans, supplies list with vendor links, and powerpoint slides to use with children in sessions. Accessible STEM background for non-STEM OST staff included. This is designed to be very affordable, and has been used by a city nonprofit on over 250 children and youth.

Contact [Kate McGuire](mailto:kate.mcguire@jh.edu) for more information or click [HERE](http://www.jhu.edu).

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**Center Highlight**

**SABES STEM Showcase**

Earlier this month we celebrated our SABES Afterschool 3rd - 5th grade students' achievements at the annual SABES STEM Showcase. Students from Dr. Bernard Harris, Furman L. Templeton, Barclay, Margaret Brent, Robert W. Coleman, Arlington, and Pimlico schools participated in the year-long program that allowed them to identify a problem in their community and solve it by using the engineering design process model. We want to thank our site partners, Child First Authority, Village Learning Place, Smart Steps, and U.S. Dream Academy for allowing us to work with such a talented and creative group of young scholars!

Click [HERE](http://www.jhu.edu) to read more about this Showcase in JHU's *Hub*. 
Visit Our Website

September- October 2019 STEM Newsletter

Happy new school year!

This edition of the JHU STEM Newsletter covers events, program deadlines, and opportunities in September and October. 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

Upcoming Programs

Women in Science and Engineering (WISE)

We are now accepting applications for fall 2019! 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 in a JHU engineering and research laboratory. Intent to apply should be submitted here.

Fall Application Deadline: 11:59 PM on Sunday, September 15, 2019
Fall Program Dates: October 2019 - January 2020, 3 hrs/day, twice a week over 15 weeks
Location: Homewood Campus, 3400 N. Charles Street, Baltimore, MD 21218

Contact Ruby Holder for more information or click HERE to complete the application.

JHU/APL STEM Academy

APL STEM Academy’s aim is to prepare students to be part of the 21st-century workforce. Taught by APL STEM Professionals, APL STEM Academy aims to:

Identify and develop STEM talent
Increase the diversity of students pursuing STEM majors and careers
Connect concepts taught in school to real-world application
Build students’ skills, understanding, knowledge, and competence in STEM fields
Create a path toward a future career in STEM
APL STEM Academy is for students in 8th - 12th grade.

**Application Deadline:** Monday, September 2, 2019  
**Program Dates:** Monday, September 16, 2019 - Friday, December 13, 2019  
**Time:** Classes are offered late afternoon/early evenings Monday - Friday. Each class meets one night a week.  
**Location:** JHU Applied Physics Laboratory, 11100 Johns Hopkins Rd., Laurel MD 20723

Contact [APL STEM](#) via e-mail or by calling 240-228-7836. Additional details can be found [HERE](#).

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**Maryland MESA Online**

Since 1976, Maryland MESA has been providing STEM experiences through school-based programs. Now your child can participate in MD MESA even if MESA is not offered at your child's school! The MD MESA Online Program uses project-based challenges to teach children in grades 3-12 the fundamentals of engineering and computer science. MD MESA provides the opportunity for anyone to form their own home or community-based MESA team. MD MESA Online teams hold regular meetings to work on the MESA challenge and submit their final products electronically for scoring.

**Application Deadline:** Saturday, August 31, 2019 (some late entries may be considered)  
**Program Dates:** September 2019 - March 2020  
**Time:** a few hours a week - team organized timing  
**Location:** Online

Contact [APL STEM](#) via e-mail or by calling 240-228-7836. Additional details can be found [HERE](#).

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**Maryland Science Olympiad**

Maryland Science Olympiad is an exciting after school program with STEM tournaments! You pick or do all from a variety of life, earth, space, physical science and engineering activities. For more info for Baltimore city, contact kate McGuire and [Rob Bruce](#). Registration opens Sept 9th at marylandscienceolympiad.org. You must be registered to attend the Coaches Clinic PD on October 5th.

**Apply by Date:** Saturday, October 5, 2019  
**Location:** After school with location of your choice

Contact [Kate McGuire](#) via e-mail or by calling 410-744-8481. Additional details can be found [HERE](#) or on their [website](#).

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**Professional Development**

**STEM Afterschool Teacher**

STEM Achievement in Baltimore Elementary Schools (SABES) is hiring afterschool teachers to work with students in grades 3-5 doing hands-on STEM activities at various Baltimore City schools. Successful candidate will be able to pass a criminal background check, have reliable transportation, and be excited and energized to work with our youth.

**Dates:** From mid-October through May 29, 2020  
**Time:** Typically 3:00 PM - 5:00 PM Mon/Wed or Tue/Thu  
**Location:** Various Baltimore City public school locations
Shadow Day for volunteers at the Battle O' Baltimore

Shadow Day is an opportunity to "try-on" a key role for a FIRST Chesapeake District Event.

This Shadow Day will offer an abbreviated experience of what happens at an event to allow potential new volunteers the opportunity to better understand the event experience. It is targeting adults who might want to take on a key event role during March 2020 at one of the 3 events being held in Edgewater, in Owings Mills and in Bethesda.

**Program Date:** Saturday, September 21, 2019  
**Time:** 8:00 AM - 12:00 PM  
**Location:** McDonogh School, Owings Mills, MD

E-mail Jenny Beatty or click [HERE](#) for more information.

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Teacher Gym!

It's back! Year two of FREE teacher-centered hands-on workshops for educators who want to grow their maker muscles! Each month we explore approaches to making with affordable and durable student-ready tools, materials, and creative technologies -- think of it as happy hour + PD that doesn't suck. Learn how you and your students can transform the quality, scope and depth of 3D design projects, and use tested tools and materials from our workshops.

**FALL 2019 WORKOUTS:**

Thursday, September 26th 2019  
Workout 1: Cutting and Punching

Thursday, October 24, 2019  
Workout 2: Get it together!

**Program Dates:** Thursday, September 26, 2019 and Thursday, October 24, 2019  
**Time:** 4:30 PM - 7:00 PM  
**Location:** September - Showroom at The Motor House 120 W. North Ave Baltimore 21201; October - TBD

E-mail FutureMakers or click [HERE](#) to register.

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Baltimore Bite of Science

Center for Excellence in Education (CEE) will be hosting a professional enrichment workshop for teachers called Bite of Science. Bite of Science brings together middle and high school STEM teachers with two scientists or engineers who to talk about their research/work over an informal dinner. This unique opportunity is designed to improve teachers' ability to provide students a context of how science is applied in the real world and to pique student interest in STEM careers in the region. Session speakers talk for ~35 minutes about their career path and their research; show a demonstration, hands-on activity, model, video, or simulation; highlight the job skills and knowledge needed to succeed in the field; and share any outreach opportunities that may be
Event Date: Wednesday, October 23, 2019
Time: 5:00 PM - 8:00 PM
Location: Baltimore (Location TBA)

Contact CEE via E-Mail. Additional details can be found HERE.
Greetings!

This edition of the JHU STEM Newsletter covers events, program deadlines, and opportunities in November and December. As we head into winter, 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

Upcoming Programs

BmoreSTEM Student Advisory Council

BmoreSTEM is a network of organizations and individuals committed to brightening Baltimore's future by developing opportunities to equip students to join the science, technology, engineering, and math workforce and live as technically literate citizens.

The Student Advisory Council will contribute to BmoreSTEM workgroups by serving as a focus group and giving a voice to City School students. A BmoreSTEM SAC member can expect to attend periodic Council Meetings and some of the Workgroup meetings as needed. The BmoreSTEM SAC will consist of current Baltimore City Public School (City Schools) middle or high School students and City Schools graduates currently enrolled in a local college pursuing a STEM-based degree.

Application Deadline: Saturday, November 30, 2019

For a copy of the application click HERE. For more information e-mail Melissa Sandlin.
Applications are now open for the Science and Engineering Apprenticeship Program (SEAP), a paid eight-week summer research program for high school students administered by the American Society for Engineering Education.

The goals of SEAP are to encourage rising sophomores, juniors, and seniors to pursue science and engineering careers, to further their education via mentoring by laboratory personnel and their participation in research, and to make them aware of the Navy's research and technology efforts, which can lead to employment within the Department.

**Application Deadline:** Friday, November 1, 2019 at 6:00 PM EST.  
**Location:** Check out participating locations [HERE](#).

For additional details click [HERE](#).

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**Ready, Set, Design! Middle School Workshop**

The Ready Set Design! program provides introductory engineering experiences for elementary and middle school girls in the Baltimore area, through half-day weekend programs on the Johns Hopkins University campus. In this middle school workshop, the girls will brainstorm, build, and present their prototype rubber band cars in groups. JHU students act as mentors for the girls.

**Application Deadline:** Friday, November 8, 2019  
**Date:** Saturday, November 9, 2019  
**Time:** 10:00 AM - 1:00 PM  
**Location:** Glass Pavilion, Homewood Campus, 3400 N. Charles Street, Baltimore, MD 21218

For additional information e-mail [Ready, Set, Design](#).

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**Biomedical Engineering Innovation Online Application**

Biomedical Engineering Innovation introduces biomedical engineering to high school students by (1) modeling biological systems and designing experiments to test those models and (2) introducing engineering principles to solve design problems that are biological, physiological, and/or medical. Students will model human efficiency, the arm, and the cardiovascular system. Students are expected to use the informational content being taught in math, physics and biology and to apply this knowledge to the solution of practical problems encountered in biomedical engineering. Students who earn an A or B grade in the course receive 3 credits from Johns Hopkins University.

**Application Opens:** Friday, November 15, 2019  
**Application Deadline:** Monday, January 6, 2020  
**Program Dates:** Monday, January 27, 2020 - Friday, May 1, 2020  
**Location:** Online

Additional details can be found [HERE](#). For questions e-mail [BMEI](#).
Splash is a free-of-charge half-day event held at Johns Hopkins University for inquisitive high school students. Participants get the opportunity to spend a day on a college campus and take a variety of classes taught by Hopkins undergraduates! Classes for our fall event range from Cancer Biology to Intro to Gymnastics. Come join us!

**Date:** Saturday, November 16, 2019  
**Time:** 1:00 PM - 5:00 PM  
**Location:** Homewood Campus, 3400 N. Charles Street, Baltimore, MD 21218

For more information click [HERE](#) or e-mail Splash.

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**Science Family Fun Night & STEM Showcase**

The Village Learning Place (VLP) and Margaret Brent E/M School will be hosting a free Science Family Fun Night. All community members are invited & welcome to attend! Enjoy hands-on activities and many exhibitors at our fall STEM Showcase & Science Family Night! This event will feature STEM presentations by the students in LINK After School at the VLP. Dinner will be served.

**Date:** Wednesday, November 20, 2019  
**Time:** 5:30 PM - 7:00 PM  
**Location:** Margaret Brent E/M School, 100 E 26th St, Baltimore, MD 21218

For more information click [HERE](#) or e-mail Ty Manning.

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**Maryland Science Olympiad**

Science Olympiad is a national tournament program 'for teachers, by teachers'. Students from Middle School or High School prepare to compete at a tournament in their choice of science & engineering events such as building towers or gliders, solving chemistry forensics, or competing in anatomy or ecology. Activities include hands-on and math content to master skills. Your team can do one or all activities, it is very flexible. Up to 15 students per team. Teachers can decide to co-coach.

**Registration Deadline:** Friday, December 20, 2019

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

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**Johns Hopkins Engineering Innovation Summer Program**

Engineering Innovation is an exciting college-level summer program for motivated high school students with an aptitude in math and science and an interest in engineering. Students learn to think and problem-solve like engineers and have the opportunity to earn Johns Hopkins University credit.

**Apply by Date:** Sunday, December 15, 2019  
**Location:** Varies

For more information click [HERE](#) or e-mail EI to learn more.
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 in a JHU engineering and research laboratory. Intent to apply should be submitted [HERE](#).

**Spring Application Deadline:** 11:59 PM on Sunday, January 12, 2020  
**Spring Program Dates:** February 2020 - May 2020, 3 hrs/day, twice a week over 15 weeks  
**Location:** Homewood Campus, 3400 N. Charles Street, Baltimore, MD 21218

Contact [Ruby Holder](#) for more information or click [HERE](#) to complete the application.

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**The Ingenuity Project**

A proven accelerate Math, Science and Research Education for Baltimore City Students in Grades 6-12 is now accepting applications for middle school and high school students entering 6th or 9th grade in the fall of the 2020-2021 school year! Visit an open house or information sessions.

**Application Deadline:** Friday, December 20, 2019  
**Times:** 8:30 AM - 4:30 PM  
**Location:** 1400 W. Cold Spring Lane, Baltimore, Maryland 21209

For more information contact [Keyha Royster](#) via email or click [HERE](#) to learn more.

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**Professional Development**

**Northrop Grumman Foundation Teachers Academy**

The Northrop Grumman Foundation Teachers Academy is now accepting applications for 2019-2020. The program-designed specifically for middle school teachers (grades 5-8) was established to help enhance teacher confidence and classroom excellence in science, engineering and technology, while increasing teacher understanding about the skills needed for a scientifically literate workforce. The Academy, which is directed by the National Science Teaching Association (NSTA), will support up to 32-teachers of physical science, engineering, and/or technology located in public school districts in select Northrop Grumman communities across the United States. The teachers will be immersed throughout the year in a host of blended professional learning opportunities in science, technology, and engineering.

**Application Deadline:** Monday, November 18, 2019
For more information about the Northrop Grumman Foundation Teachers Academy or to learn how to apply, click HERE.

STEM Afterschool Teacher

STEM Achievement in Baltimore Elementary Schools (SABES) is hiring afterschool teachers to work with students in grades 3-5 doing hands-on STEM activities at various Baltimore City schools. Successful candidate will be able to pass a criminal background check, have reliable transportation, and be excited and energized to work with our youth.

**Dates:** From mid-October through May 29, 2020  
**Time:** Typically 3:00 PM - 5:00 PM Mon/Wed or Tue/Thu  
**Location:** Various Baltimore City public school locations

To apply click HERE.

STEM Curriculum Embedded Transportation Funds

City Schools' Office of Teaching and Learning is partnering with several of these attractions to offer field experiences aligned to curriculum in STEAM (Science Technology Art Engineering and Math) subjects for grades 1-12. The Visit Baltimore Foundation is generously supporting transportation to several of the attractions and additional transportation funding is being provided by other attractions and partners. Each school is eligible for one trip with transportation covered by Visit Baltimore Foundation.

Click HERE for more information.