Greetings,

This newsletter provides information on various STEM programs and professional opportunities for teachers and students. In addition, we have a variety of fun and educational activity options compiled on our website available to K-12 students and their families. We encourage you to share these resources and opportunities with anyone that may find them beneficial.

Well wishes to your family and our communities,

The Center for Educational Outreach
BIOMEDICAL ENGINEERING INNOVATION

Biomedical Engineering Innovation (BMEI) is a fully online course offered year-round that introduces biomedical engineering concepts to high school students. Students participating in this course model biological systems and design experiments to test their models and use engineering principles to solve design problems that are biological, physiological, and/or medical. Students model human efficiency and the cardiovascular system. They use the content they learned in high school math, physics, and biology to solve practical problems encountered in biomedical engineering.

Click [HERE](mailto:) for more information and contact ei@jhu.edu for any questions.

EXPLORE ENGINEERING INNOVATION

Explore Engineering Innovation (EEI), formerly called 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 complete hands-on projects in a variety of engineering disciplines (civil, electrical/computer, chemical, materials, and mechanical) and learn to think and problem-solve like engineers. Participating students have the opportunity to earn Johns Hopkins University (JHU) credit.

Click here for more information about our [in-person](mailto:) and online programs and contact ei@jhu.edu for any questions.

CEO IS SEEKING SABES STEM AFTER-SCHOOL TEACHERS

The Center for Educational Outreach is seeking SABES STEM after-school teachers (tutorial assistant), who will be responsible for working with multiple stakeholders in the implementation of the SABES STEM after-school curriculum for grade 3-5 students at specific partner sites in online/virtual and/or in-person format. The instructor will develop and implement weekly lesson plans that incorporate mentor support and prepare students for the STEM Showcase, where they will present their student-driven projects based on feedback from the SABES coach. The instructor will also track student attendance, participate in required professional development including an initial training retreat, prepare materials for STEM lessons, and regularly report and communicate program progress to SABES team and site coordinator.

Click [HERE](mailto:) if you are interested in applying and contact Program Director Alisha Sparks for any questions.

EXPLORE ENGINEERING INNOVATION - JOHNS HOPKINS SUMMER JOBS PROGRAM

Students who live in Baltimore City and attend Baltimore City Public Schools are eligible to receive free tuition to attend Explore Engineering Innovation. They can also apply to be paid to attend the course through JHU Summer Jobs/YouthWorks.

Click [HERE](mailto:) for more information and contact ei@jhu.edu for any questions.
The National Academy of Engineering is accepting applications for the 2022–2023 EngineerGirl Ambassadors Program! An EngineerGirl Ambassador is a female, U.S. high school student who designs, develops, and implements a project in her local community that will encourage younger girls – particularly those with little access to engineering role models – to think about engineering and engineering careers and give them practical experience in engineering design. Ambassadors will receive training and support from the National Academy of Engineering, $250 in project funding, an all-expense paid trip to a training and networking event, and more.

For more information click HERE.

Do you know a Baltimore City public high school student interested in science and engineering research? This program is for them! Students get paid to work with a JHU researcher, develop knowledge of a specific STEM field, foster connections with STEM professionals, do research at the JHU campus twice a week after school, and present their work and experiences at the end of the program. Eligible high school students must have A’s and B’s in all math and science courses, must be a sophomore, junior, or senior, and must be eligible to work in the US to be paid (or will have to participate as an unpaid intern).

For more information on WISE contact Program Manager Erin Burk. Students can complete the Interest & Eligibility Form HERE.