Explore Engineering Innovation
Be part of engineering the future—start now!

Join other high school students in a challenging summer program where you will learn how to apply math and science concepts to practical engineering exercises.

What is Explore Engineering Innovation (EEI)?
Designed for talented high school math and science students, Johns Hopkins Explore Engineering Innovation is offered online and as an in-person residential or commuter program.

- Hands-on engineering labs and team projects
- Learn from expert engineers and faculty
- College-level course
- Earn college credit

Learn More!
Visit us at ei.jhu.edu to apply. You will also find more information about deadlines, tuition and fees, and locations.

Need-based financial aid is available.
About Explore Engineering Innovation
EEI is an exciting, college-level, summer program for motivated high school students with an aptitude in math and science and curiosity about engineering. During the course, students explore a variety of topics and disciplines in engineering and earn Johns Hopkins University (JHU) credit.

Students complete activities in civil, chemical, electrical/computer, mechanical engineering and materials science. By applying knowledge of math and science to labs and hands-on projects, the concepts learned in high school classrooms are linked to real-world practice. Additionally, students’ confidence grows as they attend college-level lectures, solve problems, test theories, and ultimately learn to think like engineers.

- Curriculum developed by Johns Hopkins University
- Student-to-faculty ratio of 12:1 or lower
- Students earn Johns Hopkins University (JHU) credit
- Program-specific lab kit for online students

Interested students must meet the following academic requirements:
- Have As and Bs in their high school math and science classes
- Successful completion of Algebra II
- Successful completion of a course that includes trigonometric functions to determine angles and side lengths for right angle triangles
- Successful completion of high school chemistry and/or physics, including a lab. Many students feel that knowledge of physics is particularly helpful for the course.

In 2023, EEI will be offered:
- As a residential program at the JHU Homewood campus in Baltimore and at Hood College in historic Frederick, Maryland. July 2–July 28 (no class July 4)
- As a commuter program at various locations; see our website for the up-to-date list of locations. July 3–July 28 (no class July 4) 9 a.m. to 3 p.m. at most locations
- Online as a three-hour synchronous program June 26–July 28 (no class July 4) 9 a.m. to noon (ET) 2 to 5 p.m. (ET) 7 to 10 p.m. (ET)

Apply Now: ei.jhu.edu/apply  Questions? ei@jhu.edu