



Any questions?

Contact us at
challenges@thebmi.org

Mission

To introduce students in grades 1 to 12 to the role of engineers in today's society and connect what students learn in school with real-world engineering concepts. The Maryland Engineering Challenges are a project-based STEM competition for grades 1 to 12 hosted at the Baltimore Museum of Industry.

How to Participate:

1. **Choose a challenge!** Paper Airplane for 1st-5th; Safe Racer for 2nd-3rd; Straw Bridge & Hovercraft for 5th-8th, Future City and Robot for 6th-8th; Wood Bridge, Robot, and Cargo Ship for 9th-12th
2. **Choose an adult to be your coach and assemble a team** of fellow students or your friends! Number of team members varies for each challenge.
3. **Download the guide for your challenge to find out more about the project.** The guides can all be found on thebmi.org under the Program & Events tab.
4. **Gather your materials for the project.** Some challenges have kits that can be provided by the BMI, some will need to be purchased. Details within each guide.
5. **Start experimenting!** Work on your project with your team in school, after school, or on weekends. The project will need to be completed before the competition.
6. **Write your report** based on your experience building & testing your project. Practice for your oral presentation. Details within each guide, reports are due prior to the challenge event.
7. **Attend your challenge event for competition day!** See dates in guide.

