Middle/High School Level (Grades 7-12)

TOSHIBA | nsta ExploraVision

Toshiba/NSTA Exploravision for 7-12 Coaches

The **Toshiba/NSTA ExploraVision science challenge** for K-12 students engages the next generation in real world problem solving with a strong emphasis on STEM. ExploraVision challenges students to envision and communicate new technology 10 or more years in the future through **collaborative brainstorming** and research of current science and technology. Beyond engaging students in problem solving, team-based learning, critical thinking, and communication skills, **ExploraVision** aligns with the **Next Generation Science Standards**.

exploravision@nsta.org

www.exploravision.org

Toshiba Innovation

@ToshibaInnovate

@Toshiba_STEMEducation

ALL STUDENTS RECEIVE ENTRY PRIZES

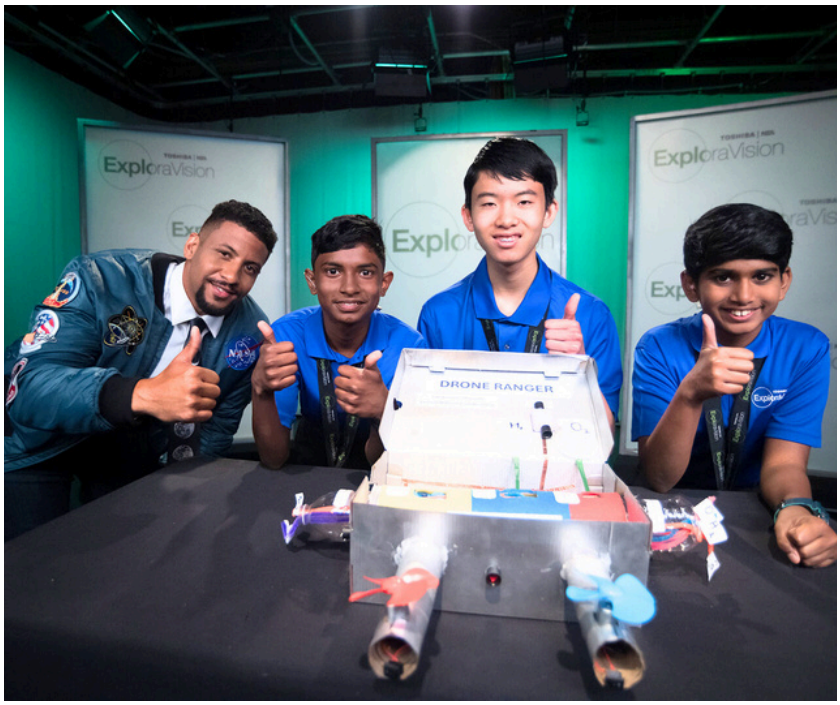
Submission Deadline: Late January

FREE TO ENTER

OVERVIEW

ExploraVision is a science competition for K-12 students of all interest, skill, and ability levels. The competition encourages students to combine their imaginations with the tools of science to create and explore a vision of a future technology.

Students work in groups of two to four, and are guided by a coach and an optional mentor. Each team selects a technology that is relevant to their lives. They will explore the background of the current technology and then project into the future what the technology could be in ten years and determine what breakthroughs are needed and possible consequences of the new technology.



7-9 participants with Mr. Fascinate at the 2025 ExploraVision Awards Weekend. Photo courtesy of @therealjaxphotography.

Dates

LATE JAN	MAR	END APR	JUN
Project Deadline	Regional Winner Announced	National Winner Announced	ExploraVision Awards Weekend

TOSHIBA | nsta

Through Toshiba's shared mission partnership with NSTA, the Toshiba/NSTA ExploraVision competition makes a vital contribution to the educational community.

PARTICIPANTS

Coaches

- Are required and must register
- Must be at least 21
- Must know at least one student on the team
- May enter an unlimited number of teams
- Should be a “guide on the side” but not perform work on the project

Mentors

- Optional
- Serve as a resource person but not perform work on the project

Students

- Full time K-12 students under the age of 21
- Enrolled in a public, private, parochial, home school, or virtual school in the United States (includes territories and DoWEA) or Canada
- Only submit one project per year

PRIZES

For the Students

All students who submit a complete project

- Entry gift and certificate

Regional Winners:

- Gift and certificate
- Recognition Ceremony at their school with publicity

National Winners:

- Expense-paid trip to Washington, DC in June for each student
- 1st place - $10,000 savings bond (at maturity) or $5,000 cash, or $5,000 529 plan contribution for each student
- 2nd place - $5,000 savings bond (at maturity) or $2,500 cash, or $2,500 529 plan contribution for each student
- Plaque and medal

For Coaches and Mentors

All coaches and mentors receive a certificate of participation and entry gift if team(s) submit a complete project.

Regional Winners (coaches and mentors)

- Gift (coaches only) and certificates

National Winners (coaches)

- Expense-paid trip to Washington, DC in June
- Plaque
- 1 year NSTA membership

For Schools

- Recognition and publicity
- Banner (regional) and commemorative award (national)

“This project stimulates learning of a number of skills that students can use in experimental research, and it provides intrinsic motivation.”
- Teacher, Grades 10-12

PROJECT CATEGORIES

- Primary Level (Grades K-3)
- Upper Elementary Level (Grades 4-6)
- Middle School Level (Grades 7-9)
- High School Level (Grades 10-12)

HOW TO SUBMIT

1. Coach Registers at www.exploravision.org
2. Coach Registers Teams
3. Teams Complete Projects Online
4. Coach Uploads and Submits Projects

PROJECT COMPONENTS

Students in grades 7-12 must submit a standard project format which includes the following components:

Abstract: A summary of the proposed technology and other relevant information submitted separately from the project description. 150 words max.

Project Description: Submitted as one document with each section clearly labeled. 11 pages max.

- Present Technology: Give an overview of the present form of the technology, including scientific principles involved in how it functions.
- History: Research and describe the history of the technology from its inception.
- Future Technology: Describe the team’s vision for what this technology will be like in 10 or more years.
- Breakthroughs: Research and describe breakthroughs that are necessary to make the future technology design a reality.
- Design Process: Describe three alternative ideas or features the team considered for their project. Describe why the team rejected each feature and idea in favor of the ones in the submitted project.
- Consequences: Description of recognition that all technologies have positive and negative consequences including the potential positive and negative consequences of the new technology on society.

Bibliography: List all sources used in your research.

Technology Launch Flyer: Students submit a one-page flyer that would be used in 10 years to explain their future technology concisely and creatively submitted separately from the project description.