

NAVAL POSTGRADUATE SCHOOL RAPID INNOVATION DESIGN CHALLENGE



FUTURE LEADERS

Developing the next generation of scientists, engineers & innovators requires us to introduce today's youth to the many ways science and technology can help address the world's greatest challenges, and the role they can play in solving them.

LOCAL CHALLENGES, GLOBAL SOLUTIONS

NPS' Rapid Innovation Design Challenge offers high school students a unique opportunity to envision, design and develop solutions to real-world problems.

Each iteration presents a challenge with many possible solutions, encourages creative thinking and teamwork, and teaches through hands-on activities.

From climate change to logistics and more, the Design Challenge program includes scaffolded curricula that match critical skills for higher education and a modern workforce to school standards. Each challenge integrates critical thinking, analytic reasoning, problem solving and written communication skills as teams explore applications of science, technology, engineering and math to create meaningful solutions with global impact.



STEM EQUITY

- 🔦 **Advances** STEM excellence, facilitates co-creation and fosters a sense of community by nurturing and valuing a diverse community of problem solvers.
- 🔦 **Mitigates** barriers to relevant experiential learning opportunities for all students.
- 🔦 **Provides** free access to and training for cutting-edge technologies and software platforms.

TECH EMPOWERMENT

- 🔦 **Builds** students' confidence as digital citizens supported by a group of academics, military service members and industry experts.
- 🔦 **Supplements** the skills, abilities and knowledge developed in the classroom and school setting.
- 🔦 **Introduces** students to emerging technologies, digital processes and diverse perspectives to explore solutions.

COMMUNITY BUILDING

- 🔦 **Increases** awareness of the Naval Postgraduate School as well as Naval STEM career and education opportunities.
- 🔦 **Strengthens** community capacity to offer impactful STEM educational experiences.
- 🔦 **Fosters** relationships with NPS students, academia and industry mentors to support the next generation of innovators.

2023 COLLABORATORS



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INSPIRING THE NEXT GENERATION OF LEADERS & INNOVATORS