

Facilitating a Robot Drone League program aligns with (funding opportunity) definition of innovation by fostering creative problem-solving and integrating cutting-edge technology. Participants engage in designing, building, and programming drones, tackling challenges that simulate real-world scenarios like search and rescue missions. This hands-on approach promotes iterative development, where designs and strategies are continuously refined for better outcomes. Collaboration among participants from diverse backgrounds enhances the exchange of ideas, sparking innovation through interdisciplinary approaches. The program's inclusivity welcomes participants of all ages and skill levels, ensuring a diverse range of perspectives. By applying their skills to practical challenges, participants gain valuable experience in deploying technology for real-world impact. Overall, the Robot Drone League encourages innovative thinking, technical skill development, and collaborative problem-solving, making it a fitting example of FPE's vision of innovation in action.

The \$(insert funding request) will be used to purchase robotic and drone equipment, essential for students to learn computational problem-solving skillsets. These resources will provide hands-on experience, enabling students to engage directly with technology and develop their skills in programming, design, and problem-solving. The equipment will facilitate practical learning, allowing students to explore real-world applications of robotics and drone technology, fostering innovation and creativity in the classroom.

Two goals related to the project that will demonstrate a measurable impact on students' lives are:

1. **Improved Computational Skills:** By engaging with robotic and drone equipment, students will enhance their computational problem-solving abilities. Measurable outcomes could include increased proficiency in coding languages, improved understanding of algorithms, and enhanced logical reasoning skills.
2. **Enhanced Career Readiness:** Through hands-on experience with cutting-edge technology, students will develop skills highly sought after in STEM fields. Measurable impacts may include increased confidence in technology-related tasks, better preparation for future careers in robotics, engineering, or computer science, and a greater awareness of opportunities in STEM industries.

Innovation through robots and drones in a classroom empowers students to explore, create, and problem-solve in dynamic ways. These technologies serve as catalysts for hands-on learning, fostering critical thinking, creativity, and collaboration. Students engage in real-world applications, developing technical skills while gaining insights into modern technology. Innovation in robotics and drones transforms the classroom into a vibrant hub of exploration, where students can experiment, iterate, and innovate, preparing them for the challenges of a rapidly evolving world.