



# ENGINEERING PROJECTS IN COMMUNITY SERVICE



**Designing and delivering  
solutions that make  
a difference**



**EPICS is a design-based service learning and social entrepreneurship program that incorporates the engineering and human-centered design processes—providing solutions to real world problems.**

**To identify and address these problems, EPICS High teams typically work closely with their schools or not-for-profit agencies.**

EPICS High@ASU promotes an interdisciplinary approach, utilizing the creativity and expertise of students that are already interested in STEM fields, as well as students outside of engineering, to develop and implement solutions with a real impact. In doing so, students not only provide a needed philanthropic service, they also hone their skills as engineers and entrepreneurs.

The EPICS High program also engages students to instill in them the importance of service and to increase the pipeline of students interested in STEM pathways. The program has proven to be an engagement tool for developing a life-long appreciation for STEM and service learning.

**Learn more about EPICS High@ASU**  
[epics.engineering.asu.edu/epics-high-school](http://epics.engineering.asu.edu/epics-high-school)

One of the strengths of the EPICS High program is the scale of the broader impacts. These projects benefit parties across multiple levels. The most obvious group impacted are the students taking the EPICS courses as they experience measurable personal and professional development. Going beyond just the education and growth of the students involved, the projects are designed and developed to improve the quality of life for people locally and globally.

The challenges addressed by EPICS High@ASU teams focus on the largest impact areas: Education, Accessibility, Community Development, and Sustainability. Collaborations with several local and international non-profits help enable those agencies to add further capacity or be able to help an increased number of vulnerable populations.



# Engage with EPICS

## Annual EPICS Olympiad

This is an excellent kickoff to the school year for both teachers and students. The EPICS High Olympiad is intended to be a fun active workshop at ASU's Tempe campus. This program's objective is to get students to start thinking about how the EPICS High design model can help them impact the community and world around them, and provide opportunities for professional collaboration and networking, while introducing skills that will help students and teachers tackle some of the challenges ahead.

## Student Pitch Funding Competition Fall Semester

This competition is an opportunity for students to submit their best five minute pitches on their EPICS High project as well as show off their budgeting, résumé and public speaking skills to the EPICS High Review Committee. Top teams are selected for funding grants to support their projects.

## Spring Teacher Training

This one-day training is focused on current EPICS High teachers. Teachers share best practices and receive programming on additions to the curriculum and program.

## Summer Teacher Training

This four-day training is focused on incoming EPICS High teachers. Teachers receive an in-depth training on the EPICS High Curriculum as well as a chance to meet current EPICS High teachers.

## EPICS Mentors

Schools participating in EPICS High have an opportunity to host an EPICS university student mentor in their classroom to provide guidance on projects and serve as a role model.

## EPICS High Roadshow

Twice a year EPICS High staff visits participating schools to learn more about the successes and challenges of the program and to see the students in action.

## Annual EPICS High Showcase

The EPICS High Showcase is an end-of-the-school-year event to exhibit team projects and celebrate their success and impact on the communities around them.

Industry and sponsor partners, faculty and staff evaluate students on their five-minute pitch and top teams receive awards for their efforts.



# be EPIC

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**epics**high@asu

**Real solutions to  
community challenges,  
brought to life by your students.**

## **Support EPICS or bring EPICS to your high school**

EPICS High programs use innovative approaches to tackle today's problems. We do not take an off-the-shelf solution; we are looking for big-picture, breakthrough thinking. EPICS High School teams design, build and deploy systems to solve engineering-based problems for charities, schools and other not-for-profit organizations. Our students aren't waiting to go to college to make a difference—they are engaged in solving real-world problems today.

Interest in civic engagement and community service is growing rapidly among teenage students. EPICS High is a service-learning and social entrepreneurship program that engages students in engineering and technology concepts and connects them with organizations that need technical capacity. EPICS High enables students to gain valuable hands-on experience and see first-hand the impact that they can have on their community through engineering and design.

**Contact us today! [engineeringoutreach@asu.edu](mailto:engineeringoutreach@asu.edu)**

**[epics.engineering.asu.edu/epics-high-school](https://epics.engineering.asu.edu/epics-high-school)**