

CASE STATEMENT

Engineering Access for Everyone

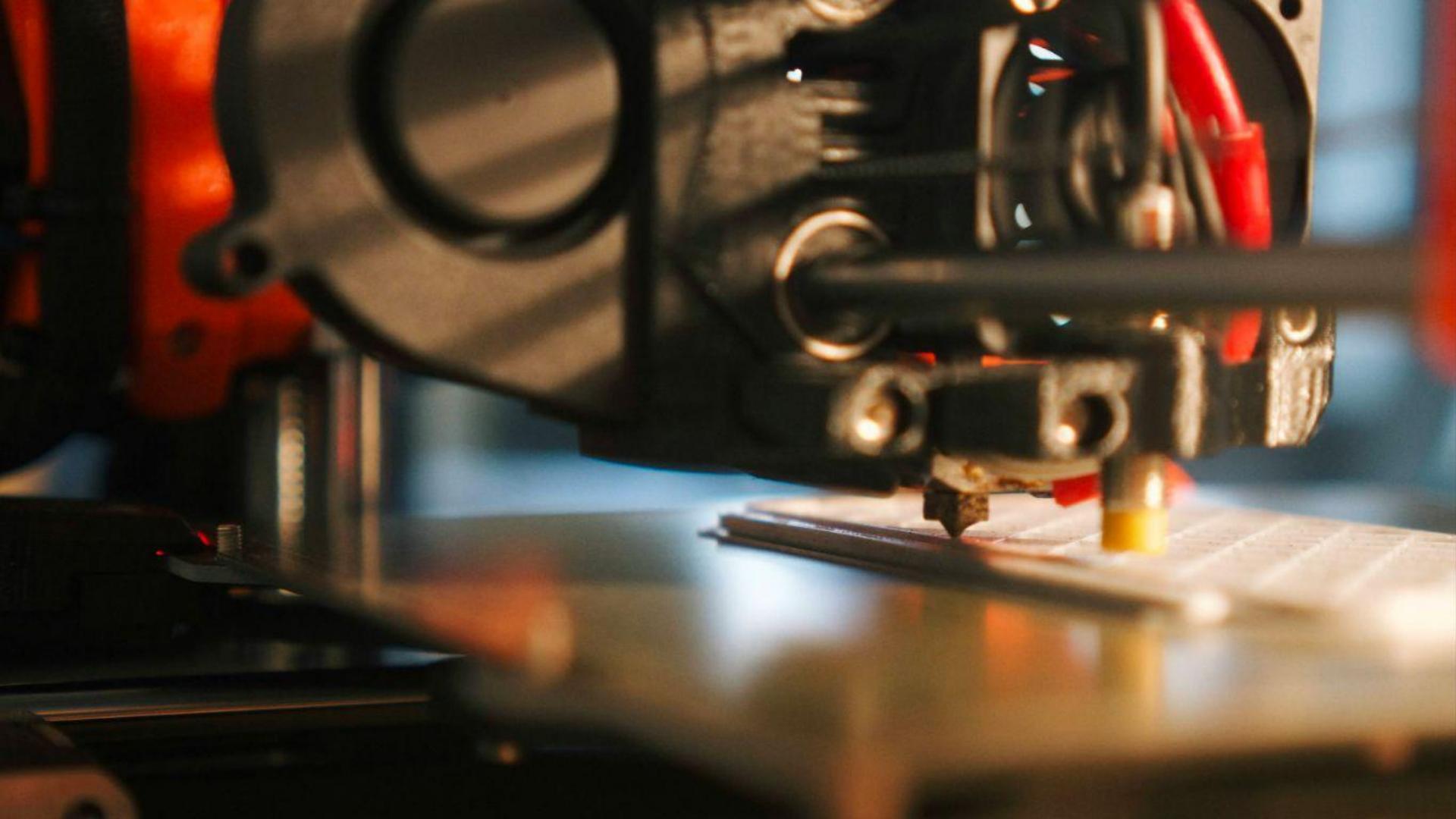


engineering
for us all

ENGINEERING ACCESS FOR EVERYONE



Engineering for US All (e4usa) is a national initiative working to meet a rising need for engineers by creating career learning opportunities for high school students in communities across the country.





It Doesn't Have to Be Rocket Science

For many high school students, engineering has been perceived as a complicated, expensive, and intimidating field to enter.

We aim to change that.

e4usa is the most teachable, most affordable, most researched and most accessible high school engineering program in the country. We've removed the need for traditional prerequisites and resources in order to introduce engineering to high school students, regardless of their technical experience. Just a bit of knowledge in Algebra 1 and some supplies from around the classroom is all that's needed to begin a program.



Work Together, Solve Problems, Engineer a Better World

e4usa curriculum is introductory and inclusive by design. We offer three turnkey courses carefully crafted to excite students about engineering, and ignite their imagination for solving real-world problems.

e4usa+Making

This course introduces students to engineering, and contextualizes math and science as tools for creative problem solving.

e4usa+Programming

An introductory course on software development and design principles.

e4usa+Design

Our capstone course, is a project-based experience that leads students through a collaborative and multi-disciplinary effort to engineer solutions that meet real needs in their community.

e4usa+Legacy

An accelerated course for advanced students focused on developing engineering solutions for community partners.



Solve Problems, Work Together, Engineer a Better World

Our curriculum delivers industry-relevant skills and education packaged specifically for high schoolers of any grade and teachers of any subject.

Each course package includes assessments and recommended activities, and are supplemented by professional development and ongoing support for teachers—all backed by years of research, and aligned with ITEEA and NGSS standards.

e4usa programming also provides eligibility for college credit thanks to our nation-wide network of university partners.

Solve Problems, Work Together, Engineer a Better World

A History teacher in Maryland helped students design wheelchair-accessible sports equipment

[READ STORY](#)



A teacher and liaison pair in Tennessee develop a five-year partnership with Nashville Zoo

[READ STORY](#)





Backed By The NSF, With Support From A World of Partners

What started as a research group working to standardize engineering learning grew into the country's leading initiative in pre-college engineering education. e4usa has linked arms with schools, universities, and community partners across the country to cultivate a robust engineering community and create broader pathways for the next generation of engineers.

7700+ Students

100+ High School Partners

25

**States
and
Territories**

39

**University
Partners**

Backed By The NSF, With Support From A World of Partners

Vanderbilt partners with NSF's e4usa to bring engineering to Tennessee high schools

[SEE CLIPPING](#)

Ghana Education Service partners with e4usa

[WATCH STORY](#)



Create Broader Pathways for the Next Generation of Engineers



As we continue to expand our reach, we aim to deliver on our promise for making engineering accessible, affordable, and inclusive to everyone. We believe that engineering is a field for anyone, and that the world benefits greatly when there is diversity of voices, backgrounds, and perspectives represented in the field.

We're not just empowering students to become future solvers of the world's greatest challenges. We're fostering a culture of innovation that reflects the diversity of our society.



Become an e4usa Sponsor and help us recruit more schools

We are working to expand our reach and increase access for more schools in the next year.

A number of existing grants provide financial support for teacher sponsorships and curriculum development, but we are looking for unrestricted funding to support our team as it grows.

Donate at
e4usa.org

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Choose amount

Please help support the e4usa mission

One-time Monthly

\$3,000 Sponsor a New Teacher

\$250 Sponsor a Teacher's Winter Professional Development

\$100 Sponsor a Teacher's Professional Development Kit

\$Custom Amount

Because of you, students can be empowered to engage in authentic engineering practices by solving an engineering problem at their school or in their community. Your gift will create a lasting impact for teachers through support of a yearlong community of practice that increases their own engineering teaching self-efficacy and classroom effectiveness.

Give now to support:

- Teacher professional learning
- Students developing engineering literacy and skills
- Collaborations between universities and high school classrooms
- Collaborations between industry and high school classrooms
- Operational costs

e4usa is a Section 501(c) (3) charitable organization. EIN 88-2339324. All



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