

StepUP for Students

A program for students, teachers, and schools

October 2021





StepUP for Students

A coalition of industry, education, and community-based organizations are making career opportunities in 10 advanced technology and science areas more accessible for students from all backgrounds.

StepUP for Students focuses on...

- **Industry** – Our coalition of industry partners delivers greater college and career readiness
- **Integration** – We define clear career pathways and steps for students
- **Inclusiveness** – We bring career opportunities to students in every classroom

The StepUP for Students Coalition

Community partners



Industry / MilVet partners

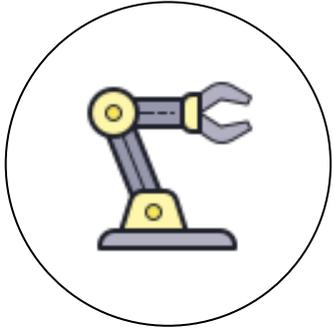


Education partners

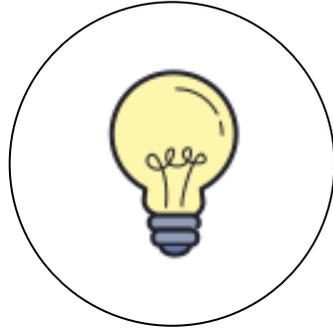


A growing coalition of community, industry, and education leaders collaborating on college and career readiness for students

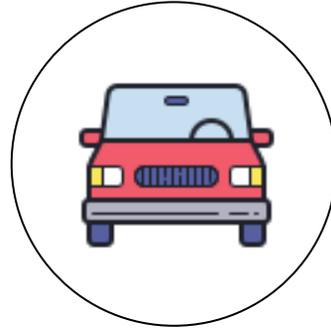
10 Advanced Technology and Science Career Topics



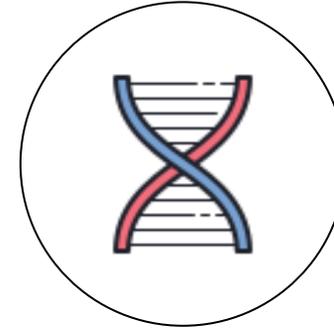
Advanced Manufacturing



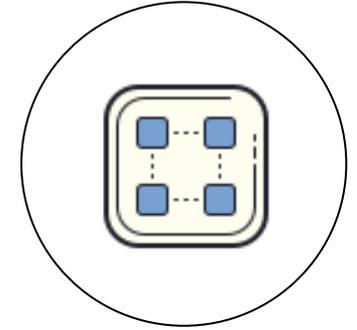
**Artificial Intelligence
and Machine Learning**



Autonomous Vehicles



Biotechnology



**Blockchain and
Cryptocurrency**



**Clean Tech and
Sustainability**



Cybersecurity



**Data Science and
Analytics**



Integrated Healthcare



Space Tech

Main program elements



CONTENT

Student- and teacher-ready materials for the 10 advanced technology and science career paths



TRAINING

Teacher training for each career area with workshops, coaching, and in-class supports



EXPERIENCES

Career-enhancing projects for students and teachers, with apprenticeships and internships



CONNECTIONS

Career role models and digital badges for students. Learning communities for teachers

Middle School

High School

College / Military

Workforce

Program assets created and delivered for teachers and students

Content	Training	Experiences	Connections
Teachers			
<ul style="list-style-type: none"> • Standards-aligned middle and high school lessons • Student activity guides • Company and career awareness profiles 	<ul style="list-style-type: none"> • 1 / 3 / 5-day professional development workshops from Krause Center for Innovation • KCI Maker Space • Hours towards certifications and credentials 	<ul style="list-style-type: none"> • Ignited Company Experience Week • Ignited Collaborative Summer Projects • Hours towards certifications and credentials 	<ul style="list-style-type: none"> • Alignment to community college programs, degrees • Learning communities • Employee volunteers for CTE programs / classes • Tallo – data reporting
Students			
<ul style="list-style-type: none"> • Student-centric, activity-based middle and high school lessons • Video lessons and examples • Dual credit courses / electives with community colleges 	<ul style="list-style-type: none"> • Science from Scientists role models, coaching, and in-class supports (for students and teachers) 	<ul style="list-style-type: none"> • Collaboration on real-world challenges / projects • High school internships • Industry and company apprenticeships 	<ul style="list-style-type: none"> • Company employees as student role models • Diversity and Employee Resource Groups as volunteers • Digital badging to connect students with scholarships, colleges, and employers

Example of teacher experience: Collaborative Summer Projects at companies

Goal: Teachers are equipped to evangelize about industries, companies, and careers

Over the summer, teachers will

- Work with companies on real projects either virtually or in-person
- Learn about each company
- Uncover a variety of new ideas they bring back to their students

The program

- Paid, 8-week experience for teachers
- Runs from mid-June to mid-August
- Hours towards CTE credential and CEUs

After the summer, company employees can visit classrooms, serve as role models, and encourage students to pursue new career opportunities.



Some school-based activities employees have participated in:

- 30-min career Q&A sessions (virtual or in-person)
- Discussions on cool classroom topics and issues
- Hands-on activities and experiments in classrooms
- Science and technology fairs as judges and coaches
- Real-world projects and problem solving with students



How StepUP for Students is different

Many programs focus on just one element of the college and career readiness challenge. StepUP for Students delivers four integrated elements: Content, Training, Experiences, and Connections.

- Advanced career topics central to today's best-paid jobs
- Students and teachers both get unique hands-on experiences
- Industry engagement is consistent and embedded in each element of the program
- Teachers develop new career-enhancing skills, motivations, and relationships
- Student achievements and data are tracked and reported through a closed-environment badging and social platform



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