

# 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

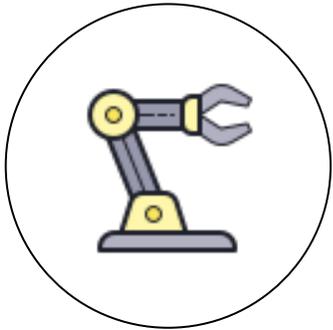


## Education partners

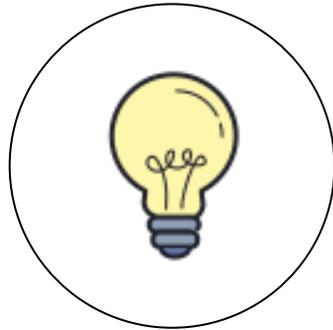


A growing coalition of community, industry, and education leaders collaborating on college and career readiness for students

# 10 Advanced Technology and Science Career Topics



**Advanced Manufacturing**



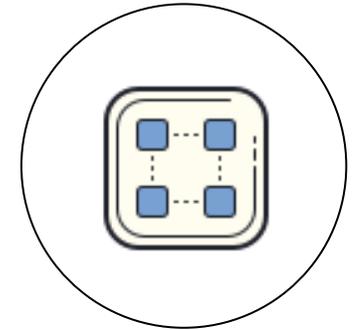
**Artificial Intelligence  
and Machine Learning**



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

# 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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