

# FRONTIER STEM HUB

## BY THE NUMBERS

- # Schools Districts: **11**
- # Students: **5,095**
- # Educators participated Professional Development (PD): **565**
- # Students participated in STEM Hub programs: **3,595**
- # Student hours in STEM Hub supported programs: **10,595**

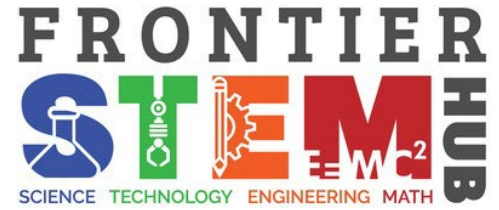
### INITIATIVES

## BEYOND THE NUMBERS

- Career Connected Learning
- Computer Science
- Early Learning
- Rural STEAM Leadership Network
- Youth Voice
- Mobile Maker Spaces
- Student Internships

In October of 2022, the Frontier STEM Hub and OSU Extension - Malheur County received the National Award for Excellence in Teamwork from the National Association of Extension 4-H for their mobile makerspaces. These mobile spaces were designed to remove barriers to youth participation. Frontier STEM's team uses a large utility trailer to transport equipment and supplies, setting up maker spaces in classrooms, labs, libraries, and community spaces across the county. The maker spaces use computer-aided design and digital fabrication. One educator stated: *"This program has enabled me to get a fabrication lab and so many other activities going here at our school. Over 200 students are now engaging regularly with Computer Science and a lot of that has to do with the support and help received from the Frontier STEM Hub. Thank you so much!"*

Backbone Organization: **Malheur ESD**  
 Counties in Region: **Malheur**  
 Sq. Miles in Region **9,930**  
 Hub Director: **Nickie Shira**  
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### INDUSTRY >

## INTERNSHIP OPPORTUNITIES

Industry volunteers: **49**  
 industry volunteer hrs: **391**

Frontier STEM Hub partnered with Eastern Oregon Career Technical Education, Oregon State University Extension - Malheur County, and the Eastern Oregon Workforce Board to develop and implement the *Malheur Works - Internship Program*. *Malheur Works* is connecting the learning needs of youth with the talent needs of industry through a nine-week, full-time, paid, summer internship program. Through the summer of 2022, 13 industry and community partner organizations hosted 20 youth. Over the course of the summer, each intern gained over 360 hours of workplace experience in addition to weekly mentorship and more than 20 hours of professional development workshops.



### DETAIL >

Just a few of our Region's students and teachers engaging in some of our computer science programming.

## MEET THE FRONTIER STEM HUB

The Frontier STEM Hub provides support for public schools ranging in size from 2,263 (Ontario) to 4 students (Juntura). As the second largest county by land area in Oregon, Malheur covers nearly 10,000 square miles in the southeastern corner of the state. In this sparsely populated area, many students live in remote rural regions with few service providers. The students and families of Malheur County face many challenges including long distances to services and opportunities and, according to *Oregon by the Numbers*, the highest child poverty rate in the state, at 30% (state average: 15%). Key industries of the region are agriculture, food manufacturing, and educational services. Malheur County is also very diverse as Hispanic individuals make up over 34% of the population, the second highest Hispanic population in the state (Oregon average: 13%). This high desert region of Eastern Oregon enjoys the rugged beauty of the Owyhees and the majestic grace of the Snake River where it establishes the border between Oregon and Idaho.