



The mission of the Umpqua Valley STEAM Hub is to support and provide inspiring, engaging, authentic STEAM learning experiences for youth in Douglas County, preparing them for careers and a meaningful future.

What is the purpose of STEM/STEAM Hubs?

- Increase access to and interest in STEAM*
- Achieve equity in STEAM education and careers for all students*
- Positively influence economic stability and competitiveness*
- Foster a STEM-literate, engaged citizenry*

What do STEM/STEAM Hubs do?

- Connect and convene partners*
- Identify resources and connect expertise*
- Develop and implement initiatives*
- Provide tools, research in best practices and consultation*
- Connect in-school and out-of-school educators to learning opportunities*
- Support educators*
- Provide placed-based and applied learning experiences*

A community investment

Our Douglas County partners include:

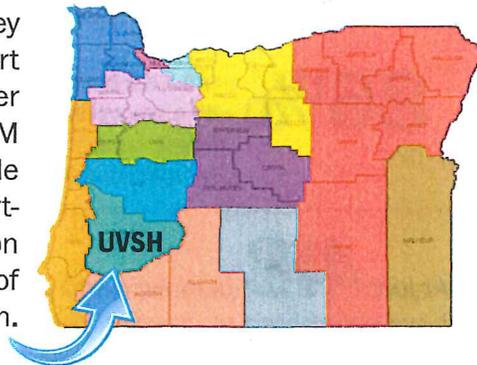
- School districts*
- Private industry*
- Nonprofits*
- Youth-serving organizations*
- Home-school co-op and private schools*
- Governmental agencies*
- Other education partners*

Bright Futures Umpqua

We are expanding STEAM Career Connected Learning experiences for students through:

- CTE summer camps*
- Professional Development Opportunities*
- Professional Learning Communities*
- Resource Lending Library*
- BrightWorks Clubs*
- Annual STEAM Extravaganza*
- Oregon Connections*
- Industry tours*
- AmeriCorps volunteers*

The Umpqua Valley STEAM Hub is part of a 13-member network of STEM Hubs statewide that are supported by the Oregon Department of Education.



Gwen Soderberg-Chase

Umpqua Valley STEAM Hub Director

Phone: 541-784-8622

Email: Gwen.Soderberg-Chase@umpqua.edu

Website: www.dcpss.org

Facebook: www.facebook.com/UVRSH



IMPACT by the numbers

CAREER CONNECTED LEARNING

Expanding Horizons Summer Camps

As part of the Bright Futures Umpqua Initiative, the UVSH has led the planning and delivery of Expanding Horizons Career and Technical Education Summer Camps for middle school students promoting STEAM careers and linked to local high school CTE programs.

163 middle school youth from across Douglas County participated in week-long Expanding Horizons camps in 2019 focused on manufacturing and technology, drafting and production, business entrepreneurship, the trades and natural resources.

45% of attendees represented underserved populations.

Oregon Connections

Oregon Connections provides career connected learning through virtual field trips, "chats" with industry professionals both local and national, and access to digitized presentations where professionals share their skills and expertise to bring authentic learning opportunities to students.

51 educators trained on Oregon Connections (K-12, Home-School Co-op, UCC and Youth Organizations).

504 Douglas County students reached to date.

23 local sessions completed.

2 local virtual field trips completed (Wildlife Safari and Con-Vey Keystone).

1 Douglas County WOW Week held.

158 educators are registered users of the Resource Lending Library, providing tools to support quality STEAM learning.

At least **5,250** students are estimated to have been impacted by lending library resources.

At least **1,253** students have participated in Hub-supported programs in 2018-19.

This has led to a total of **13,059** contact hours.

COMMUNITY ENGAGEMENT

STEAM Extravaganza

The annual STEAM Extravaganza presents a variety of STEAM activities, from building a pipe organ, designing and creating various structures, experimenting with drones, robotics and GIS technology and exploring various CTE and STEAM courses of study at Umpqua Community College.

598 participants of all ages in 2019.

45 community partners.

ONGOING PROFESSIONAL DEVELOPMENT

Supporting STEAM education

A variety of professional development experiences were offered in 2018-19 including NGSS, project-based/place-based learning, Oregon Connections, and the week-long STEAM summer institute.

189 unduplicated educators representing all districts participated.

86% of all K-12 buildings participated, along with private schools, home-school leaders, early childhood educators and nonprofit youth-serving organizations.

At least **48** business and industry partners have committed to providing direct career-connected learning experiences at the awareness, exploration and preparation levels for local K-12 students.