

NORTHWEST STEM HUB

BY THE NUMBERS

- # Schools Districts: **13**
- # Students: **15,073**
- # Educators participated Professional Development (PD): **137**
- # Students participated in STEM Hub programs: **3,276**
- # Student hours in STEM Hub supported programs: **28,286**

INITIATIVES

BEYOND THE NUMBERS

- Career Connected Learning
- Computer Science
- Early Learning
- Rural STEAM Leadership Network
- Youth Voice

In recent years, the Northwest STEM Hub has explored a stronger internal partnership within the Northwest Regional ESD. Partnering with the Diverse Educator Pathway (DEP) program gave the STEM Hub an opportunity to develop and support culturally specific programming for BIPOC youth pursuing careers in education. DEP offers experiences that are relevant to youth, interweaving culturally responsive programming within their learning experiences through programs like Cultura Mexicana Camp and STEM Inventors of Mexico. In partnership with the DEP program and local business and industry, we connect the DEP participants with paid internship opportunities in the education sector. Together, the DEP and STEM Hub developed a safe spaces protocol to share with business host sites to ensure a safe and supportive environment for the DEP interns.

Backbone Organization: **Northwest ESD**

Counties in Region: **Clatsop, Columbia & Tillamook**

Sq. Miles in Region: **2,906**

Website: nwresd.org/departments/instructional-services/STEM-Hub



INDUSTRY >

INDUSTRY PARTNERSHIPS

Industry volunteers: **124**
Industry volunteer hrs: **3,957**

In our inaugural year, we conducted strategic planning sessions with a diverse array of cross-sector partners. The message was clear, industry wanted to engage with K-12 and K-12 wanted to engage with industry. One of the partners in this conversation was Hampton Lumber. In 2017, through our partnership with Hampton, the Clatsop Economic Development Resource Center, the five school districts in Clatsop County, and Clatsop Community College, we launched *Clatsop Works*, a paid internship program for youth in Clatsop County. In 2022, the program had 31 interns hosted by 27 business and industry partners. The program continues to grow and is now being replicated in the neighboring counties. Providing paid work experiences to youth not only builds resumes, but also supports community and economic development. Hampton Lumber continues to be a strong supporter of our STEM Hub by hosting interns and developing and supporting educator professional development.



A Robotics student testing her creation.

DETAIL >

MEET THE NORTHWEST STEM HUB

The Northwest STEM Hub serves a rural three-county region and is home to just over 17,200 K-14 students, approximately 24% of whom identify as students of color. All three counties have high rates of students experiencing poverty, ranging from 40.4% in Columbia County to 54.2% in Tillamook County. Due to the rural nature of the communities, many students lack access to career exploration opportunities. With the Oregon Manufacturing and Innovation Center (OMIC) in Columbia County the STEM Hub is able to help students explore high-wage, high-demand career areas in the advanced manufacturing sector. OMIC has two components -- a research and development center, housing world-class machines, and the PCC OMIC Training Center, which provides education and training opportunities. The Northwest STEM Hub partners with OMIC to provide paid internships for high school students, educator professional development, and to support the development of regional manufacturing CTE programs.