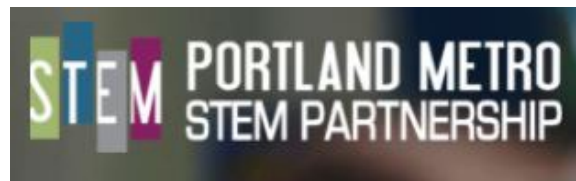




Portland Metro STEM Partnership



Organization

Backbone Organization: Portland State University
Counties in Region: Multnomah and Washington
Sq. Miles in Region: 1,192
STEM Hub Director: Kristen Harrison
Email: Kristen.harrison@pdxstem.org
Website: pdxstem.org

By the Numbers

School Districts: 5
Students: 111,804
Educators participated in Professional Development: 1,134
Educator Hours in Hub PD: 20,130
Students participated in STEM Hub Programs: 3,739
Student hours in STEM Hub Supported Programs: 7,478

Supporting Educators

Portland Metro STEM Partnership (PMSP) serves a densely populated region encompassing Multnomah and Washington counties. This region includes 108,002 students and 6,314 teachers; therefore PMSP focuses on supporting educators, so they are better equipped to provide high quality STEM experiences to their students. PMSP uses an equity lens to determine how to allocate resources so that we can focus on schools and communities who have historically had less access to STEM opportunities.

PMSP educator support is guided by these principles:

- Eliminating barriers to access professional development (PD) where possible, both by providing materials and stipends to participating educators
- Providing curriculum and materials with supporting PD
- Connecting educators with research-based best practices
- Connecting with industry leaders to build connection to the careers of today and the future with the curriculum taught today

Computer Science

PMSP increased access to computer science for students in grades PreK-12 with the state and federally funded Computer Science for All (CSFA) grant. PMSP's CSFA program served over 17,200 students with the broad objectives to increase student access to and belonging in Computer Science (CS) education.

PMSP supplied K-8 teachers with knowledge and materials to enhance in-school and out-of-school CS learning.

In collaboration with MIT and NYU, PMSP hosted a CS Professional Learning Community with 5th grades teachers, which integrated coding computational models with science curriculum.

PMSP supported community partners to incorporate robotics and problem-solving into events focused on preschool-aged children and their families.

PMSP supported community-based organizations to build culturally relevant and sustainable programs that will support equity-based, systemic change in CS education.



Career Connected Learning

PMSP's Career Connected Learning (CCL) program served over 30,300 students with these objectives: raise awareness of College and Career Pathways; provide hands-on Industry Learning opportunities; and increase industry mentor networks and relationships to education. PMSP provided summer educator externships to industry sites including the healthcare, technology, construction, and manufacturing sectors. Educators learned first-hand about local industries and made real world tie-ins for their content instruction. PMSP revised the Patterns Science curriculum with industry- and career-related videos to help students see career opportunities related to the lessons in their science and math classes. PMSP hosted a STEMposium event in collaboration with Intel. The keynote speakers and facilitators of the event came from numerous STEM careers and provided professional development, informational videos, and resources to Oregon educators statewide.