

PORTLAND METRO STEM PARTNERSHIP

BY THE NUMBERS

- # Schools Districts: 5
- # Students: **111,804**
- # Educators participated Professional Development (PD): **761**
- # Students participated in STEM Hub Programs: **1,500**
- # Student hours in STEM Hub supported programs: **3,000**

INITIATIVES

BEYOND THE NUMBERS

- Career Connected Learning
- Computer Science
- Elementary STEAM Leaders
- High School Science for All
- K-8 Math Leadership
- Mathways
- STEM Beyond Schools
- STEM School Transformation

Prior to High School Science for All, most Oregon students earned their high school science credit in courses not aligned to Oregon Standards and not connected to STEM fields. This kept many students from engaging in postsecondary learning necessary to enter high-wage and high-demand sectors. Year-long, vertically-articulated, open-source curriculum for three high school science courses - 9th grade Physics, 10th grade Chemistry, and 11th grade Biology has been developed and refined. Each course builds on the previous one and includes embedded engineering projects, applied math elements, technology for data collection/analysis and emerging Career Connected Learning components.

Backbone Organization: **Portland State University**
 Counties in Region: **Multnomah & Washington**
 Sq. Miles in Region: **1,192**
 STEM Hub Directors: **Kristen Harrison and Jerian Abel**
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INDUSTRY >

INTEL PARTNERSHIP

Industry volunteers: **195**
 Industry volunteer hrs: **515**

Five years ago, PMSP began a partnership with Intel to increase student access to National Engineers Week. This week-long experience provided engineering challenges to students who might not normally have access to high-wage, high-demand career opportunities. PMSP facilitated training for teachers and volunteers, coordinated volunteer assignments and developed activity guides. Intel drove volunteer recruitment, provided challenge supplies, managed media outreach, and in conjunction with PMSP, coordinated volunteer placement. Dual immersion and Title I schools were prioritized, and students are able to connect with bilingual and multicultural Intel volunteers. The project, a partnership between PMSP, Intel, and Hillsboro School District, is now annual and aims to reach every 4th grade classroom.

DETAIL >



Some of the many educators that take advantage of all the STEM professional development we offer.

MEET PORTLAND METRO STEM PARTNERSHIP

Portland Metro STEM Partnership serves a diverse and densely populated region. Our region's boundaries are those of our school district partners, which includes approximately 20% of the students in Oregon. Nearly 50% of youth in the region qualify for free or reduced-price lunch and 51.47% are non-white. Engaged partners include five school districts, five higher education institutions, 65 community-based organizations, and 42 industry partners. Our scale and commitment to equity drive our work. Portland Metro STEM is proud to support a local BIPOC STEAM Ecosystem. The group includes eight culturally specific and/or culturally focused organizations/programs: This community-led collaboration increases access to STEAM learning opportunities for historically marginalized youth by expanding existing programs and co-creating new opportunities. The Ecosystem develops long-lasting partnerships among the organizations that build awareness and understanding of the importance of STEM Education in communities.