



Central Oregon STEM Hub

Service Area

- Crook, Deschutes, and Jefferson counties

Key Goals

- Coordinate, encourage, and support the implementation of STEM education in Central Oregon towards a long term goal of developing a home grown skilled workforce, ready to fill high-wage STEM jobs in the region
- Work toward a collective approach aimed at leveraging and improving existing STEM opportunities in the region
- Develop a more equitable distribution of opportunities for all students across the tri-county area

Activities

- Student apprenticeship opportunities in the Science and Engineering (ASE) Program. This program matches interested 9th-11th grade students with professional scientists, technologists, and engineers for a hands-on 8-week summer internship
- Teacher training in project-based, hands-on science instruction
- Family STEM Nights
- Scholarships for students to attend local STEM opportunities on summer/spring breaks

Partners

- **School Districts and ESDs:** High Desert ESD, School districts of central Oregon
- **Higher education:** Oregon State University – Cascades
- **Business and Industry Partners:** G5/Digital Experience Management, Microsoft, Intel, Local engineering and architecture firms
- **Community Partners:** The High Desert Museum, The Bend Science Station, Deschutes Children’s Forest

GO STEM

Service Area

- Oregon’s 8 eastern counties: Baker, Grant, Harney, Malheur, Morrow, Umatilla, Union, and Wallowa

Key Goals

- Increase STEM content and courses in local school
- Engage students in real-world problems that will teach them the 21st Century Skills, even if they don’t pursue STEM careers.
- Develop a home grown skilled workforce, ready to fill high-wage STEM jobs in the region



Activities

- Family STEM Nights
- Aligning with EOU Teacher STEM PD – GO STEM teachers attend the PD offerings/seminars
- Providing start up help for local STEM activities, Example: Robotics Club
- Community outreach around STEM programming

Partners

- **School Districts and ESDs:** Grant Educational Services District, Intermountain Education Service District, Malheur Education Service District, Pendleton Educational Service District, Wallowa Education Service District, Intermountain ESD
- **Higher education:** Blue Mountain Community College, Eastern Oregon University, Oregon Health Sciences University, Oregon State Agriculture Research Station, Oregon State University Extension, Oregon State University SMILE Program
- **Business and Industry Partners:** Baker Chamber of Commerce, Key Technologies, Oregon Cattlemen’s Association, SS Equipment (New Holland), Ventures, Wallowa Resources, Vernier Software
- **Community Partners:** Blue Mountain Early Learning Hub, Building Healthy Families, Eastern Promise, Grande Ronde Model Watershed, Natural Resources Conservation District, North East Oregon Area Health Education Center, Oregon Department of Fish and Wildlife (Ladd Marsh), United States Forest Service Wallowa Whitman National Forest, La Grande Parks and Recreation, Grand Ronde Model Watershed

South Metro-Salem STEM Partnership

Service Area

- Multnomah, Clackamas, Marion, Washington, and Polk Counties

Key Goals

- Increase student access and success in STEM programs of study and in STEM careers
- Form a learning community to share effective STEM teaching and project-based learning practices and engage in shared professional development, as well as to develop leadership capacity in teachers to implement districtwide STEM priorities
- Organize and facilitate a STEM Network of mentors, programs and events that inspire students and sponsors to utilize the state's rich industry and community resources
- Increase early access for students to college courses and credits, especially in STEM fields

Activities

- Providing STEM professional development for teachers
- Developing Oregon Connection Tool, connecting organizations and schools through an online network
- Building advanced credit programs into the region, bringing college level courses to local high schools



Partners

- **School Districts and ESDs:** Amity, Canby, Central, Dallas, Gladstone, Lake Oswego, Molalla River, Newberg, North Clackamas, Oregon City, Salem-Keizer, Silver Falls, Tigard-Tualatin, West Linn-Wilsonville, Woodburn, Clackamas CTE Consortium
- **Higher education:** Chemeketa CC, Clackamas CC, George Fox University, Portland CC, Oregon Tech, Pacific University, Western Oregon University
- **Business and Industry Partners:** 3D Systems, Autodesk, Eaton, First Tech Federal Credit Union, FLIR, Inc, Garmin AT, Intel, Legacy Meridian Park Medical Center, Mentor Graphics, PGE Foundation, Xerox Corporation
- **Community Partners:** Business Education Compact, Evergreen Aviation and Space Museum, Girls Inc. of the Pacific Northwest, Mad Science, OregonASK, Oregon Computer Science Teachers Assn., Oregon FIRST, Oregon MESA, Oregon Space Grant Consortium, Project Lead the Way, Salem-Keizer Education Foundation

Oregon Coast Regional STEM Hub

Service Area

- Broad geographic region along the North, Central, and South Oregon Coast

Key Goals

- Ensure that coastal Oregonians have the scientific literacy and technological knowledge to be informed global citizens.
- Prepare students to enter postsecondary education and careers in STEM-related fields
- Provide students more STEM career exposure and better contextualized learning experiences.
- Raise academic achievement, graduation rates and college enrollment, while decreasing the dropout rate for all students, especially for underrepresented populations.
- Provide ways to meet educator needs, including developing a common understanding of STEM and STEM education, providing STEM professional development opportunities, accessing NGSS aligned curriculum, establishing administrator and community buy in around STEM education, and increasing access to local STEM professionals.

Activities

- Professional development opportunities for local educators around integrating science instruction into the classroom
- Facilitating the connection of students with activities in STEM on the Oregon coast. Examples: Girls in Engineering and Marine Science, Oregon Coast Renewable Energy Challenge, Oregon Regional MATE ROV Competition
- Project DEMILO



Partners

- **School Districts and ESDs:** Astoria, Warrenton-Hammond, Seaside, Neah-Kah-Nie, Tillamook, Nestucca, Lincoln County, Siuslaw, Reedsport, North Bend, Coos Bay, Bandon School District, Brookings, Port Orford school districts
- **Higher education:** Clatsop CC, Tillamook Bay CC, Oregon Coast CC, Southwestern Oregon CC, Oregon State University, Western Oregon University, Oregon Health and Science University
- **Business and Industry Partners:** Near Space Corporation, Georgia-Pacific, Marine Technology Society, Oregon Chapter, Advanced Research Corporation, The Sexton Corporation, Association of Unmanned Vehicle Systems Int'l, Cascade Chapter, Central Lincoln PUD, Marine Discovery Tours, Point 97, Tillamook County Creamery Assn
- **Community Partners:** Oregon Coast Aquarium, Oregon Sea Grant, Oregon Department of Fish & Wildlife, Bureau of Land Management, US Fish & Wildlife Service, Oregon Parks and Recreation Dept., National Organization of Women, Coastal Oregon Chapter, Oregon Museum of Science & Industry, Tillamook Estuaries Partnership, Northwest Aquatic and Marine Educators Association, Oregon Forestry Resources Institute, Friends of Netarts Bay Watershed, Estuary, Beach and Sea (WEBS), Northwest National Marine Renewable Energy Center (NNMREC), Columbia River Maritime Museum Education;;

Portland Metro STEM Partnership

Service Area

- Largely metropolitan Multnomah County

Goals

- Improve student achievement in math and science
- Disseminate STEM programming to a wider region of high-needs student populations in their region.
- Provide educator professional development and link school-based STEM programming with expanded learning opportunities
- Develop a home grown skilled workforce, ready to fill high-wage STEM jobs in the region

Activities

- STEM Teacher Academy
- Teacher Education Alliance
- Recent \$1 million dollar grant awarded to Portland State University in order to provide professional development program in science for local teachers, the “Expansion of K-6 NGSS Instructional Specialists Program” awarded through Oregon’s federally funded Title IIB Math Science Partnership Program. This project will be managed through the Portland Metro STEM Partnership (PMSP) in which 70 elementary school teachers will be trained as instructional specialists during the implementation of Oregon’s Next Generation Science Standards (NGSS), while providing science content instruction to more than 300 elementary teachers throughout the state of Oregon.



Partners

- **School Districts and ESDs:** STEM Program Schools, Parkrose School District, Forest Grove School District, Portland Public Schools
- **Higher education:** Portland State University, Portland Community College, OHSU, Oregon Tech
- **Business and Industry Partners:** N Intel PGE Foundation, Boeing, Vernier, JP Morgan Chase, McKinstry, Mad Science, Houghton Mifflin Harcourt
- **Community Partners:** Beaverton Education Foundation, Hillsboro School Foundation, 4H, Institute for Youth Success, Metropolitan Family Service, NWSES, OMSI, StarBase, SolarWorld, Tech Start Education Foundation, Saturday Academy

Umpqua Valley Regional STEAM Hub

Service Area

- Douglas County

Key Goals

- Create avenues to support an initiative that established a cradle-to-career path for the local youth
- Develop a home grown skilled workforce, ready to fill high-wage STEM jobs in the region
- Encourage and grow student career readiness that retains the student in Douglas County

Activities

- Professional development opportunities for adults working with area youth to assist local educators in developing a common understanding of the role of STEAM while acquiring a shared commitment in providing these opportunities for all Douglas County youth, both in and out of school

Partners

- **School Districts and ESDs:** Winston-Dillard School District Partnerships for STEM Education
- **Community Partners:** Boys & Girls Clubs of the Umpqua Valley Summer Camp Program, Area Health Education Center of Southwest Oregon (AHEC), Douglas County School Forestry Tour, RockEd Educational Center, Learn, Earn and Serve Collaborative, Build Our Kids

OREGON REGIONAL COLLABORATIVES

Key Contacts

COLLABORATIVE ----- REGION	EARLY LEARNING HUBS	REGIONAL ACHIEVEMENT COLLABORATIVES	STEM HUBS
North Coast (Clatsop, Columbia and Tillamook Counties)	<p><i>NW Early Learning Hub</i> NW Regional ESD (Backbone) James Sager, Supt NWESD</p> <p>Theresa Gartner, Exec Asst to James Sager & NWESD Board of Directors tgartner@nwesd.k12.or.us 503-614-1401</p>	<p>Tillamook County: <i>Career & College Ready RAC</i> Tillamook CC (Backbone) Connie Green, Tillamook Bay Community College, President green@tillamookbay.cc</p> <p>Randy Schild, Tillamook School District, Supt schildr@tillamook.k12.or.us</p>	<p>Clatsop, Tillamook, Lincoln Counties: <i>Oregon Coast Regional STEM Hub</i> Hatfield Marine Science Center, OSU (Backbone) Tracy Crews Tracy.crews@oregonstate.edu</p>
Mid Valley (Marion, Polk and Yamhill Counties)	<p>Yamhill County: <i>Yamhill Early Learning Hub</i> Yamhill County Care Org CCO (Backbone) Jim Carlough, Yamhill County Care Org, jcarlough@yamhillcco.org</p> <p>Michelle Bergeron, ELH Coordinator mbergeron@yamhillcco.org</p> <p>Marion/Polk Counties: Early Learning Hub Inc. Backbone is 501(c)(3) of same name (??) Lisa Harnisch, Exec Dir lharnisch@earlylearninghub.org</p> <p>Brent Demoe, Mgr Polk Co</p>	<p>Marion, Polk, Yamhill: <i>Willamette Promise RAC</i> Willamette ESD (Backbone) Dave Novotney, Willamette ESD, dave.novotney@wesd.org</p> <p>Gretchen Brunner, RAC Coordinator, gretchen.brunner@wesd.org</p>	<p>Marion, Polk, Yamhill, Clackamas: <i>South Metro STEM Partnership</i> Oregon Institute of Technology (Backbone) Melissa Dubois Melissa.dubois@oit.edu</p>

COLLABORATIVE ----- REGION	EARLY LEARNING HUBS	REGIONAL ACHIEVEMENT COLLABORATIVES	STEM HUBS
	<p>Family & Community Outreach demoe.brent@co.polk.or.us</p>		
<p>South Valley (Benton, Lane, Lincoln and Linn Counties)</p>	<p>Lane County: <i>Lane Early Learning Hub</i> United Way of Lane County (Backbone) Holly Mar-Conte, hmar@unitedwaylane.org 541-741-6000 x 109</p> <p>Linn, Benton, Lincoln: <i>Linn, Benton, Lincoln Hub</i> Linn Benton Lincoln ESD (Backbone) Susan Waddell, susan.waddell@lblesd.k12.or.us</p>	<p>Lane County: <i>ConnectED Lane County</i> In process of forming a 501(c)(3) of same name (Backbone) Colt Gill, Supt, Bethel School District, Colt.gill@bethel.k12.or.us</p> <p>Larry Sullivan, Supt, Lane ESD, lsullivan@lesd.k12.or.us</p> <p>Linn, Benton, Lincoln: <i>Valley-Coast Partnership for Student Success</i> Linn-Benton Community College (Backbone) Ed Ray, President, OSU, Ed.ray@oregonstate.edu</p> <p>Larry Flick, Dean of OSU College of Education, Larry.flick@oregonstate.edu</p> <p>Christy Stevens, Coordinator, stevenc@linnbenton.edu</p>	<p>Lincoln County: <i>Oregon Coast Regional STEM Hub</i> Hatfield Marine Science Center, OSU (Backbone)</p> <p>Tracy Crews Tracy.crews@oregonstate.edu</p> <p>Lane County: <i>Lane County Hub</i> (unfunded) U of Oregon (Backbone) Bryan Rebar brebar@uoregon.edu</p> <p>Kim Finch Finch_k@4j.lane.edu</p>

COLLABORATIVE ----- REGION	EARLY LEARNING HUBS	REGIONAL ACHIEVEMENT COLLABORATIVES	STEM HUBS
South Coast (Coos, Curry Counties)	<i>South Coast Regional Early Learning Hub</i> Coos County (Backbone) Barbara Bassett, Barbara.eld@mh.co.coos.or.us	<i>South Coast Connect for Success</i> South Coast Community College / OSU Open Campus (Joint backbone) Meggan McLarrin, Coordinator, Meggan.McLarrin@oregonstate.edu	Coos County: <i>Oregon Coast Regional STEM Hub</i> Hatfield Marine Science Center, OSU (Backbone) Tracy Crews Tracy.crews@oregonstate.edu
Southern (Jackson and Josephine Counties)	<i>Southern Oregon Early Learning Services</i> Jackson County Public Health (Backbone) Scott Perry, Supt, Southern Oregon ESD, scott.perry@soesd.k12.or.us Susan Fischer, Interim Early Childhood System Facilitator FischeSE@jacksoncounty.org	<i>Southern Oregon Success</i> Southern Oregon ESD & Job Council WIB (joint backbones) Scott Perry, Supt, Southern Oregon ESD, scott.perry@soesd.k12.or.us Jim Fong, Director, Job Council, jimf@jobcouncil.org Sue Parrish, Coordinator, sue@parrishassociates.org	Josephine, Klamath, and Jackson Counties: <i>Southern Oregon STEM</i> (unfunded) Southern Oregon University (Backbone) Steve Thorpe sthorpe@sou.edu
Metro (Clackamas, Multnomah and Washington Counties)	Clackamas: <i>Clackamas Early Learning Collaborative</i> Clackamas County (Backbone) Rod Cook, Director of Children, Youth & Families, rodcoo@co.clackamas.or.us 503-650-5677 Multnomah: Early Learning Multnomah United Way of the Columbia-Willamette (Backbone) Zeke Smith, Chief Impact	Multnomah: <i>The All Hands Raised Partnership</i> All Hands Raised (Backbone) Dan Ryan, Director, All Hands Raised, dan@allhandsraised.org Nate Waas-Shull, Coordinator, nate@allhandsraised.org	Clackamas County: <i>South Metro STEM Partnership</i> Oregon Institute of Technology (Backbone) Melissa Dubois Melissa.dubois@oit.edu Multnomah, Washington Counties: <i>Portland Metro STEM Partnership</i> Portland State University (Backbone) Bill Becker

COLLABORATIVE ----- REGION	EARLY LEARNING HUBS	REGIONAL ACHIEVEMENT COLLABORATIVES	STEM HUBS
	<p>Officer zekes@unitedway-pdx.org 503-226-9358</p> <p>Washington: <i>Washington County Early Learning Hub</i> United Way of the Columbia-Willamette (Backbone) Zeke Smith (see above) & Bill Thomas, Director of Washington County's Dept of Health & Human Services & Children & Family Services 503-380-1665 william_thomas@co.washington.or.us</p>		<p>beckerw@pdx.edu</p> <p><i>East Metro STEAM Partnership</i> (unfunded)</p> <p>Jeanette Shaw jeanettes@mckinstry.com</p>
<p>North Central (Hood River, Sherman, Gillam, Wheeler and Wasco Counties)</p>	<p><i>Four Rivers Early Learning Hub</i> Hood River County (Backbone) Joella Dethman, Hub Manager joella.dethman@co.hood-river.or.us Amber DeGrange, Sherman Co Juvenile Director adegrange@co.sherman.or.us 541-565-3461</p>	<p><i>Columbia Gorge Regional Center of Innovation RAC</i> Columbia Gorge CC (Backbone) Dan Spatz, Columbia Gorge Community College, DSpatz@cgcc.edu</p> <p>Dan Goldman, Supt, Hood River School District, dan.goldman@hoodriver.k12.or.us</p>	<p>Hood River, Sherman, Wasco Counties: <i>Gorge Tech Alliance</i> (unfunded) Columbia Gorge CC / Mid-Columbia Economic Development (Joint Backbones) Jessica Metta Jessica@crgta.org</p>
<p>Central (Crook, Deschutes, and Jefferson Counties)</p>	<p><i>WEBCo Early Learning Hub</i> WEBCo (Wellness & Education Board of Central Oregon) (Backbone) Hillary Saraceno, Early Learning Manager Hillary.Saraceno@deschutes.org</p>	<p><i>Central Oregon Better Together</i> High Desert ESD (Backbone) Paul Andrews, High Desert ESD, john.rexford@hdesd.org</p> <p>Anna Higgins, Coordinator, anna.higgins@hdesd.org</p>	<p>Crook, Deschutes, Jefferson Counties: <i>Central Oregon STEM Hub</i> (COre STEM) High Desert Museum (Backbone) Kendall Bartholomew Kendallb@centraloregonstem.org</p>

COLLABORATIVE ----- REGION	EARLY LEARNING HUBS	REGIONAL ACHIEVEMENT COLLABORATIVES	STEM HUBS
	Brenda Comini, Director, Crook Co Human Services Brenda.Comini@co.crook.or.us		rg
South Central (Klamath, Douglas and Lake Counties)	Douglas, Lake & Klamath: <i>South-Central Oregon Early Learning Hub</i> Douglas ESD (backbone) Gillian Wesenberg, ELH Director gillian.wesenberg@douglasesd.k12.or.us 541-440-4774	Klamath: <i>Klamath Promise</i> Klamath City Schools SD (Backbone) Dr. Roberto Gutierrez, Klamath Community College, gutierrezr@klamathcc.edu Paul Hillyer, Klamath Falls City Schools, hillyerp@kfalls.k12.or.us Deanna Wilson, Coordinator, wilsond@kfalls.k12.or.us Douglas County: <i>Douglas County Partners for Student Success</i> United Way of Douglas County (Backbone) Chris Guastaferrero, AHEC, cguastaferrero@healthyoregon.com Kellye Wyse, Roseburg Forest Products, kellyew@rfpco.com Gwen Soderberg-Chase, RAC Coordinator,	Douglas County: <i>Umpqua Valley Regional STEAM Hub</i> United Way of Douglas County (Backbone) Lisa Lanza umpquavalleysteamhub@gmail.com

COLLABORATIVE ----- REGION	EARLY LEARNING HUBS	REGIONAL ACHIEVEMENT COLLABORATIVES	STEM HUBS
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<p align="center">Eastern (Grant, Harney, Malheur, Morrow, Umatilla Counties)</p>	<p>Grant, Harney: <i>Frontier Hub</i> Harney County Court (Backbone) George Murdock, Umatilla Co Commissioner george.murdock@umatillacounty.net</p> <p>Baker, Malheur, Wallowa: Eastern Oregon Hub Kelly Poe, Dir of Community Based Services, Malheur ESD Kelly.Poe@malesd.k12.or.us</p> <p>Steve Phillips, Supt, Malheur ESD, Steve.Phillips@malesd.k12.or.us</p> <p>Morrow, Umatilla & Union <i>Blue Mountain Early Learning Hub</i> Intermountain ESD (Backbone) Cathy Wamsley, Exec Dir, Umatilla-Morrow Head Start cwamsley@umchs.org</p> <p>Mark Mulvihill, Supt, InterMountain ESD</p>	<p>Malheur, Harney, Grant County: <i>Poverty to Prosperity RAC</i> Treasure Valley CC / Malheur ESD (joint backbones) Dana Young, Treasure Valley Community College, dyoung@tvcc.cc</p> <p>Steve Phillips, Malheur ESD, Steve.Phillips@malesd.k12.or.us</p> <p>Morrow, Umatilla & Union <i>Eastern Oregon RAC</i> InterMountain ESD (Backbone) Mark Mulvihill, superintendent mark.mulvihill@imesd.k12.or.us</p> <p>Cam Preus, Blue Mountain Community College, cpreus@bluecc.edu</p>	<p>Umatilla, Morrow, Grant, Union, Harney, Wallowa, Baker, Malheur Counties: <i>Go STEM Collaborative</i> Eastern Oregon University (Backbone)</p> <p>Katie Butterfield kbutterfield@eou.edu</p>

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