



Catalyzing STEM success for the next generation of Oregonians

Melissa Dubois, Director, South Metro Salem STEM
Craig Hudson, Garmin, SMSP Advisory Co-Chair

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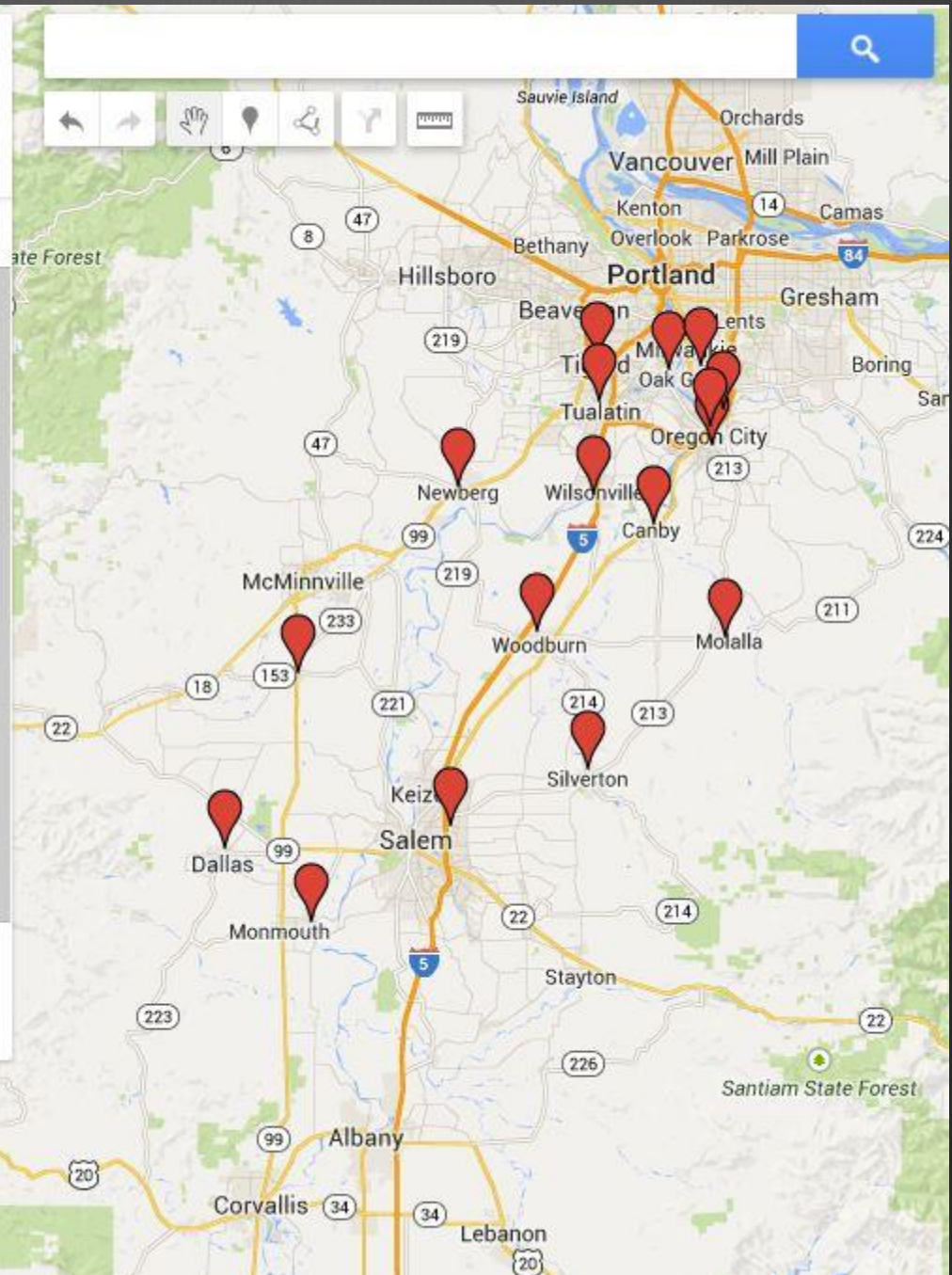
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- Salem-Keizer School District
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- Tigard (Tigard-Tualatin SD)
- Tualatin (Tigard-Tualatin SD)
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- Wilsonville (West Linn-Wilsonville
- Woodburn



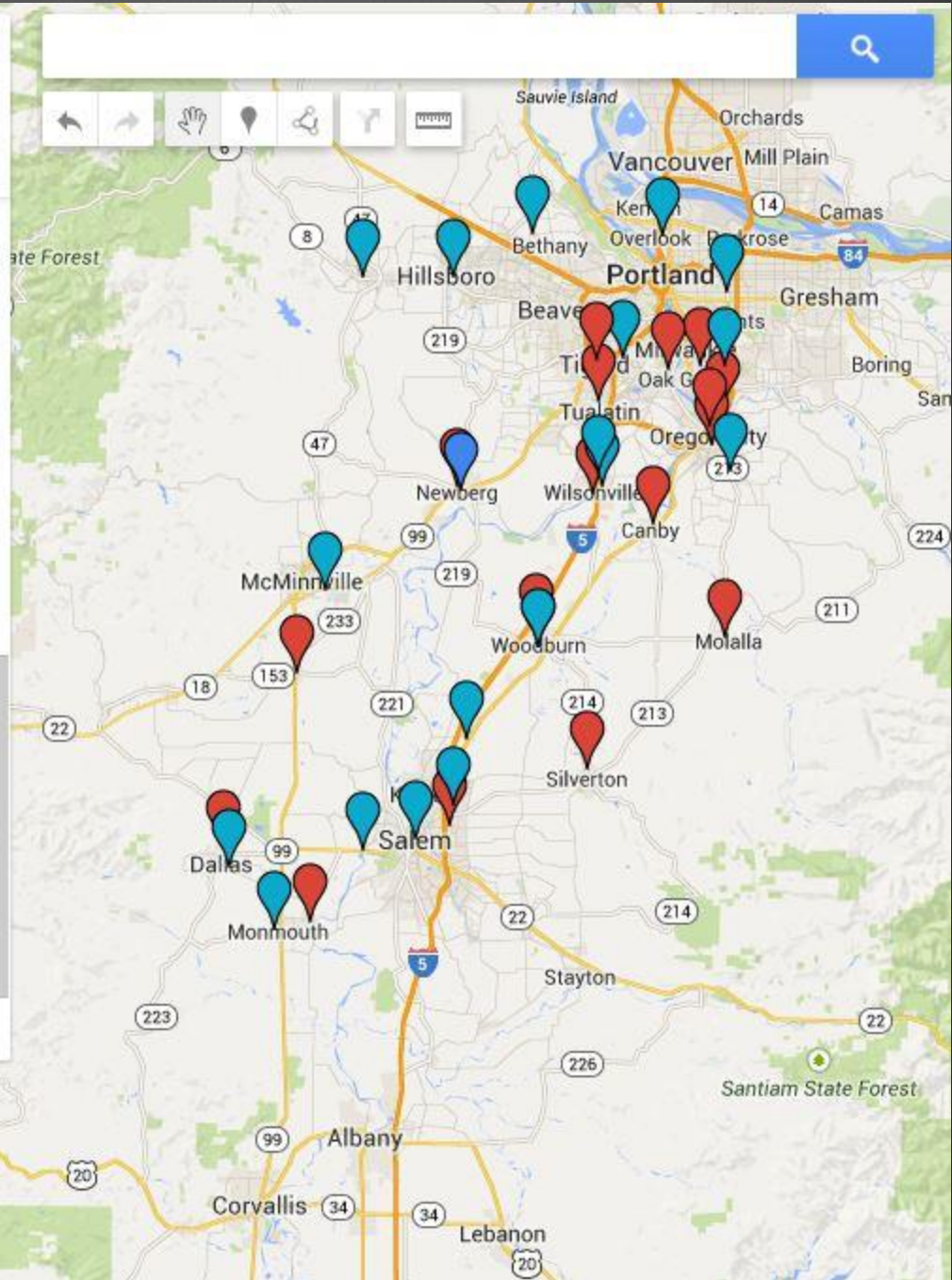
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- George Fox University
- Portland Community College - Syl
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- Western Oregon University



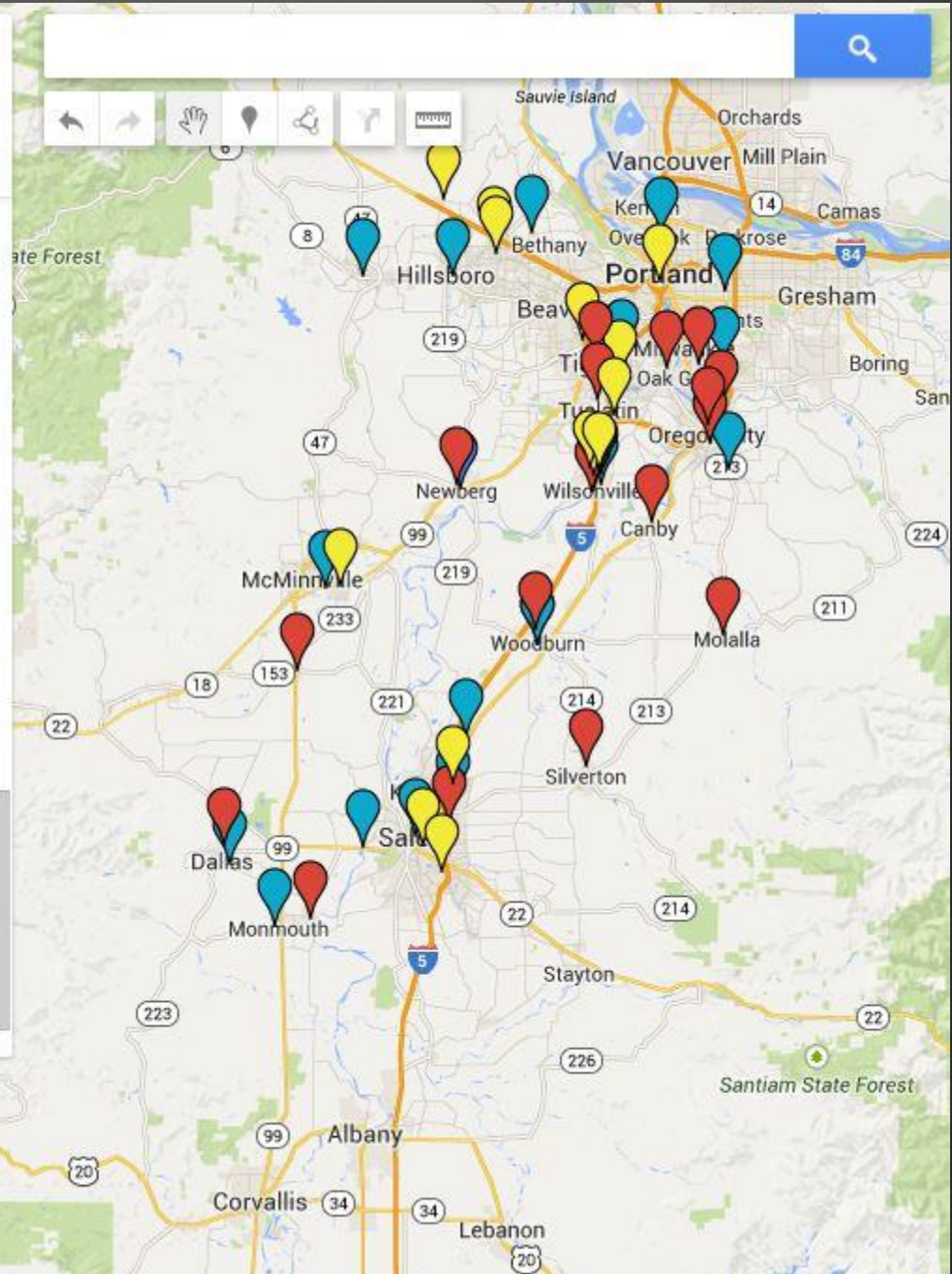
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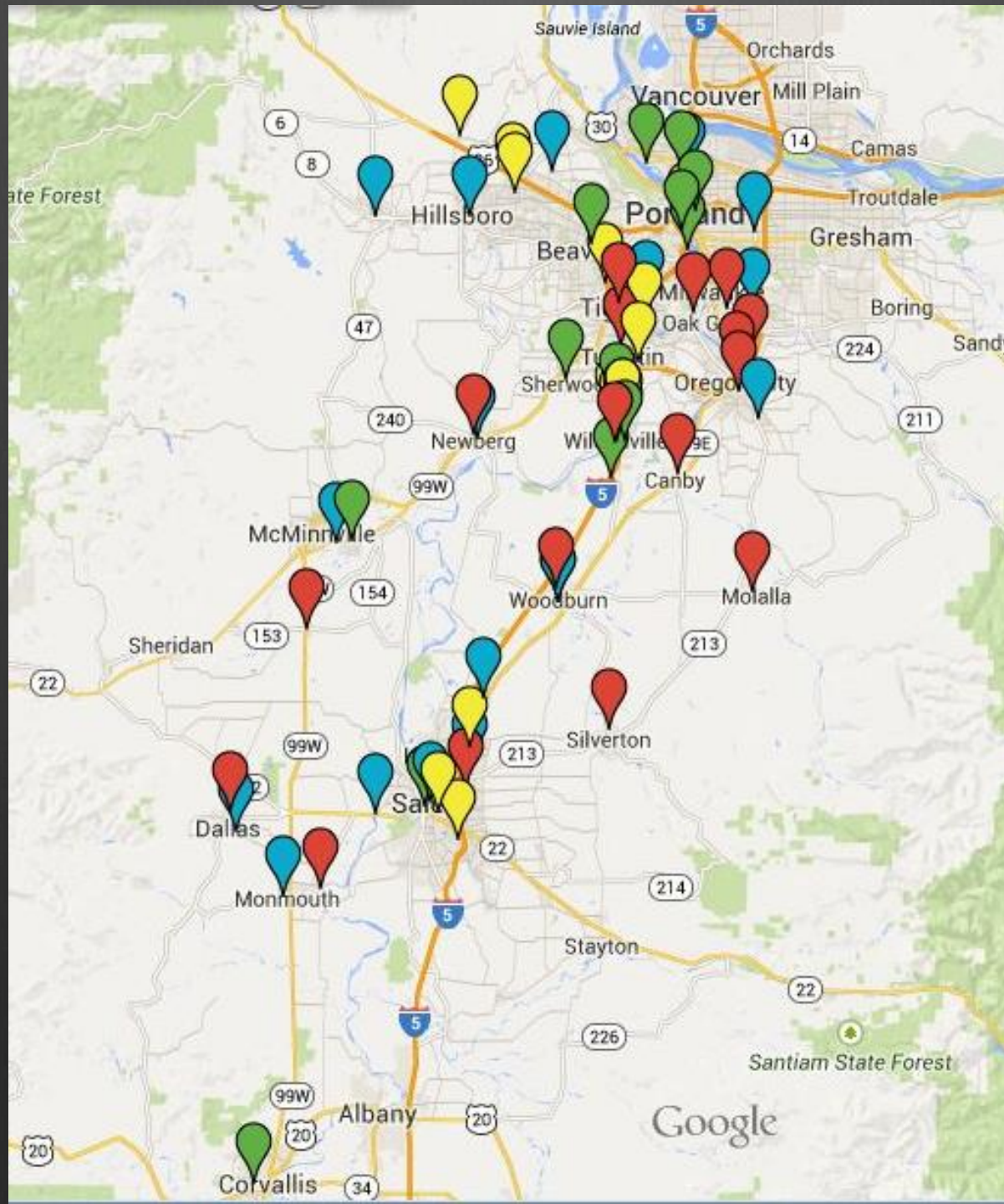


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- Eaton Corporation
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- Xerox Dr
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Core Strategy 1
Authentic STEM
Learning:

Connect educators and students with community resources and industry expertise

Core Strategy 2
Sharing best practices:

Develop a STEM Leadership Team of teachers and community partners

Core Strategy 3
Accelerate Learning:

Expand STEM Accelerated Credit Opportunities

2014-25

Increase Participation, Persistence, and Achievement in STEM across all ethnic/cultural and/or socioeconomic background, limited English language proficiency, gender, or disability

By 2025

- Increase the percentage of students that are Math and Science Proficient
- Increase STEM college graduation/certification rates

Beyond 2025

- Improve Oregon business access to Oregon-educated STEM talent
- Support our communities with highly-skilled Oregon graduates who have access to family-wage jobs, are scientifically literate, and engaged in their communities.

SOUTH METRO-SALEM



Partnership

Making connections for student success



the next-generation, web-based tool connecting
K-20 educators with STEM professionals



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Oregon

Solar Energy & Math Week

STEM Camps/Workshops

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Draft

Requested

Professional Assigned

Confirmed

Completed

Description

Eureka! camp in Woodburn is in its first year. We are serving 24 girls from the Woodburn district as they transition from 7th grade to 8th grade. The program is 50% STEM focused, 25% physical activity, and 25% personal development. The personal development component is provided by Girls Inc in research backed curricula. Both facilitators of the camp have science backgrounds and are able to explain concepts to youth, although the hope is to connect to professionals in the field to allow youth to explore more via discussion.

Key Questions

What activities would you recommend to introduce youth to complex math problems?

⌵

What are some activities that are hands/on and fun relating to solar energy?

Expected Outcomes

Open discussion with youth about topics as well as fun games.

Address

Chemeketa Woodburn 120 E Lincoln Street

Visit Date

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Yenni Cazares
Girls Inc of the Pacific
Northwest

Providers



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Statewide Expansion

- State-wide expansion Summer 2016, funded by Employment Department of Community Colleges and Workforce Development (CCWD) and the Oregon Department of Education (ODE) in partnership with Workforce Boards



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HOME EDUCATORS VOLUNTEERS PARENTS STEM HUBS

News Ticker April 14, 2015 in Job Opportunities // Saturday Academy's Apprenticeships in Science & Engineering (ASE) program is hiring

Summer Classes & Camps enrolling now!

Saturday Academy opportunities on STEM Oregon

Saturday Academy is seeking instructors with expertise in science, technology, engineering, math or the arts to teach students in grades 2 through 12. We offer classes throughout the Portland Metro [...]



In the spotlight

STEM Week Oregon, May 2 – May 10

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Partnership

Making connections for student success

Sharing Best STEM Instructional Practices

Stage 1

Improving Classroom Practice: Developing shared STEM units

Internalizing the Attributes Framework

Building leadership

Contributing to design of district STEM Implementation Plan

Stage 2

Ambassadors: Sharing STEM Framework within district

Contributing to district professional development and STEM plans

Assuming leadership within district and partnership

Stage 3

Ambassadors: Sharing STEM Framework

Contributing and leading district professional development/STEM plans

Assuming increased leadership within partnership

SMSP STEM Attributes Framework

Integrates Science, Technology, Engineering, and Math.

Develops communication and literacy skills.

Provides authentic, real-world experiences through contextual learning (may include active citizenship).

Forms partnerships with business, industry, agencies, and nonprofits (may occur outside the school).

Provides career awareness through postsecondary and career relevant connections.

Fosters problem-solving, critical thinking, and argumentation skills through inquiry and design.

Includes effective instructional strategies that develop collaboration and teamwork.

Uses equitable instructional practices that are inclusive to all students regardless of gender, disability, ethnicity, race, language, socioeconomic status, gender identity and sexual orientation.

Uses standards-based performance/proficiency assessments.



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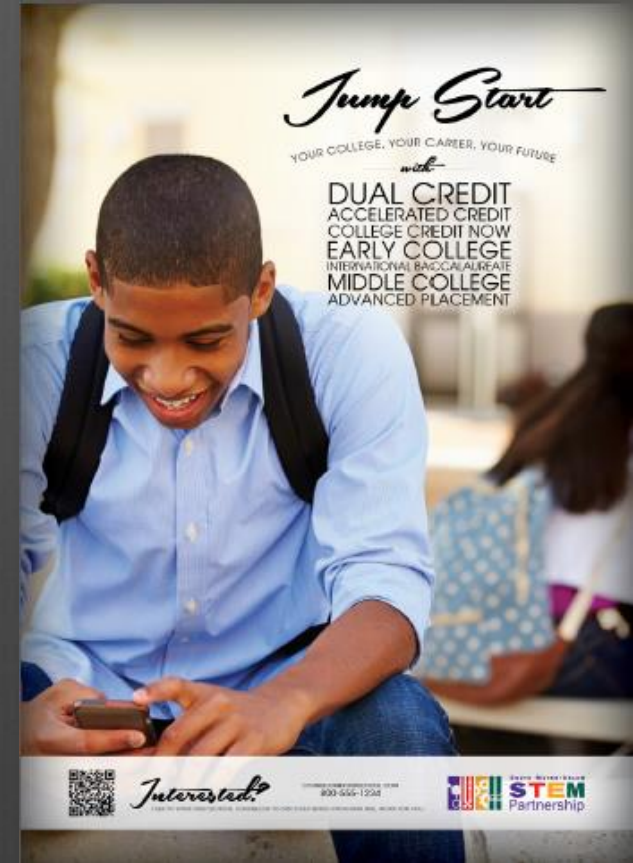


Partnership

Making connections for student success

Accelerated Credit

- Increasing STEM dual credit opportunities, and increasing underrepresented students in existing offerings
- Supporting high school-college transitions
- Collaborative marketing materials to increase enrollment across all demographics.
- Supporting coordinated outreach to students and families, reaching down to middle school



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Accelerated Credit



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Big Wins

- Changing cultures, cultures of accountability
 - Clackamas CC, Accelerated Credit, District Implementation Plans
 - Leading the statewide STEM Hub Network (STEMOregon)
- Programming:
 - Oregon Connections: Connected with other hubs, Workforce Investment Boards. Scaling statewide.
 - Teacher Leadership: Broad enthusiasm
- Creating STEM leaders and ambassadors



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Industry Partners

Autodesk
Eaton
First Tech Credit Union
FLIR Systems
Garmin AT
Intel
Legacy Meridian Park
Hospital
Mentor Graphics
PGE Foundation
Xerox

Community Colleges

Chemeketa Comm College
Clackamas Comm College
Portland Comm College

Universities

Oregon Tech
Pacific University
George Fox University

Community Partners

Business Education
Compact
Evergreen Aviation and
Space Museum
Mad Science of Portland
and Vancouver
MESA (Math Engineering
Science Achievement)
NASA Space Grant
Consortium
Oregon ASK (After School
for Kids)
Oregon FIRST
Project Lead The Way
Salem-Keizer Education
Foundation
Saturday Academy
Tualatin Chamber of
Commerce
World of Speed

School Districts and ESDs

Amity SD
Canby SD
Central SD
Dallas SD
Dayton SD
Gladstone SD
Lake Oswego SD
McMinnville SD
Molalla River SD
Newberg SD
North Clackamas SD
Oregon City SD
Salem-Keizer SD
Silver Falls SD
Tigard-Tualatin SD
West Linn-Wilsonville SD
Woodburn SD
Clackamas CTE Consortium