



Southern Oregon STEM Hub

Inspire, Educate, Employ



Organization

Backbone Organization: Southern Oregon ESD
Counties in Region: Klamath, Josephine, and Jackson

Sq. Miles in Region: 10,580

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By the Numbers

School Districts: 13

Students: 48,126

Educators participated in Professional Development: 608

Educator hours in Hub PD: 1,208

Students participated in STEM Hub Programs: 9,271

Student hours in STEM Hub Supported Programs: 74,168

YOUSCIENCE

The YOUSCIENCE <https://www.youscience.com/> platform is being used by 50+ middle and high schools across southern Oregon. In the 2022-23 school year, 5,028 students learned about their aptitudes and interests via the YOUSCIENCE brain games. Our CTE/STEM Project Facilitator, shared between our CTE and STEM Hubs, works every week to provide Career Connected Learning support to our schools. As students learn their aptitudes and interests, they have confidence making next steps for education and career plans. YOUSCIENCE data from the 2022-2023 school year helped three of our high schools receive CTE Revitalization Grants and two high schools received Bureau of Labor & Industries grants. Additionally, YOUSCIENCE data illuminated a need for computer science instruction at the elementary level.

STEM Integration

Our STEM Integration Specialist meets teachers where they are, providing modeling and coaching of a teacher through STEM integrated lessons, Computer Science, lending library usage, Professional Development and more. Teachers ease into teaching project-based learning and STEM integration, all of which, prior to adolescence, supports a student in developing their aptitudes. Aptitudes, a student's natural gifts and talents, are very different from their interests or personality, and they are solidified by adolescence. Providing STEM integration early on helps build interest, perception and aptitudes, which encourages attendance, continued education, and job satisfaction! During the 2022-2023 school year we provided 315 hours of 1:1 in-class support to 88 teachers across southern Oregon, in addition to statewide professional development.

Career Connected Learning

We sponsored four Southern Oregon Regional Economic Development, Inc (SOREDI) <https://soredi.org/> industry tours during 2022-2023 and it was after two advanced manufacturing tours in the Rogue Valley of Jackson and Josephine counties, we decided we had to act upon the repeatedly heard industry comment of "we used to have shop class". To respond to this comment and show industry members we really do still have shop class, CTE and STEM organized a "flipped tour" where instead of bringing students and teachers to industry, we invited industry to tour Advanced Manufacturing classes at Ashland, North Medford and Eagle Point High Schools. This

highlight of what is happening in schools today was a huge success as our Industry partners were overjoyed to learn about, and see first-hand, robust CTE programs. Students led the tours and highlighted various projects and competitions. Rogue Valley tours inspired industry and we implemented flipped tours in the Klamath Basin as well, partnering with KCEDA, Henley High and Mazama High.

