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## PROJECT AT A GLANCE

### Equipment installed

- LED lighting
- Infrared radiant heaters
- Gas convection oven
- Single-tank dishwasher

### Financial analysis

- \$5,000 estimated annual energy cost savings
- \$18,000 Energy Trust cash incentives

### Estimated annual energy savings

- 48,000 kWh
- 2,000 therms

# CRATERWORKS DREAMS BIG

## IDEAS AND SUSTAINABILITY SHINE IN NEW MAKERSPACE

When planning began for the CraterWorks makerspace in Central Point, Oregon, the only rule was there were no rules. This was a chance to color outside the lines to build a unique creative hub for students and the community.

CraterWorks offers a variety of membership options for curious minds seeking new skills, from woodworking and metal shop to digital fabrication, 3D printing and even a commercial kitchen. It's a collaborative space, and also an energy-efficient one.

Central Point School District 6 owns the building—formerly the Crater Iron warehouse—and worked with the development team, Arkitek, and Energy Trust of Oregon to emphasize efficiency and sustainability in its design.



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## FUTURE MEETS PAST

Preserving the building's unique history was important. "There are these beautiful large gantry cranes all throughout the space, and what we did was carefully preserve some of those aspects to help tell that story," said Christopher Brown, principal architect, Arkitek.

Adaptive reuse also contributes to the building's sustainable design—pairing existing materials and equipment with relevant upgrades and technology. The addition of large, low-velocity fans to support the evaporative coolers that were already in place is a perfect example.

## COLLABORATION IS KEY



"What I'm most proud of is that it's a collaborative effort," said Samantha Steele, superintendent, Central Point School District 6. "The space really represents the voices and input of our educators, industry people, community and students."

CraterWorks is all about bringing people together. You can see it in how the space

is used and how it was designed. At an early design charrette hosted by Energy Trust, key stakeholders gathered to share ideas about the project's design, sustainability and energy goals.

"It was a wonderful experience to sit at the table with the stakeholders, our mechanical engineer, electrical engineer, and really look at where we could incorporate some incentive-based design decisions," said Brown.



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## EFFICIENCY BY DESIGN

Energy-saving features in the space include LED lighting, plenty of natural daylight, and efficient heating and cooling with infrared radiant heaters and ductless mini-split heat pumps. The commercial kitchen uses high-efficiency equipment, and the building also has a strong thermal envelope, adding to its comfortable, inviting feel.

"That connection with Energy Trust early on allowed us to design something that was cost-efficient to build and cost-efficient to maintain," said Steele.

## BRINGING IDEAS TO LIFE

At its core, CraterWorks is a place to dream. And students and community members are already using the space to learn and explore in new exciting ways. It's something Steele calls "authentic learning"—the idea that rather than just looking at a textbook, you can problem solve and build skills in a more hands-on environment.

So what do you make in a makerspace? There really are no limits. From elementary school students building banjos to learn about sound waves, to small business owners transforming commercial shipping containers into startup storefronts, CraterWorks has something for everyone.

"It's creative spaces like this that keep our community connected to each other and wanting to stay in Central Point," said Tanea Browning, managing partner, CraterWorks. "They see that really cool things can happen here."



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