

# Career and Technical Education (CTE) Revitalization Grant Summary 2015-2017



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## Clatsop County CTE Center Astoria School District

Award Amount: \$305,469.00

Number of Schools: 5

Number of Partners: 17

The Clatsop County CTE program gives students across the region an opportunity to discover career pathway options in the fields of Industrial Electronic Repair, Industrial Machinery Mechanics, Millwrights, and Machinery Maintenance, Electrical Vehicle manufacturing, Electricians, Hydraulic Maintenance and many more. The program was created in partnership with Hampton Affiliates, the largest privately held forest Products Company in Clatsop County along with many other business, labor, community and educational partners to provide opportunities for students in the region to gain skills that will allow them to enter the workforce in high wage, high demand occupations or post-secondary education. The program provides a hands on mobile lab experience, classroom time, and in the field opportunities for students to take what they learn and connect it to real work experience. The program provides opportunity through modern technology to build a solid foundation, using logic, troubleshooting skills, critical thinking and hands on applications. Clatsop Community College is a partner to the program and students receive college credit for CTE courses.

## Baker Technical Institute Welding Proposal Baker Technical Institute, Baker School District 5J

Award Amount: \$330,930.00

Number of Schools: 1

Number of Partners: 11

Historically, welding programs have typically been a part of agriculture curriculum throughout the state. Baker High Schools was no different other than it had been doing it longer as it is one of the oldest accredited Schools in Oregon.

However, given the economic demands of the region and the development of Baker Technical Institute, welding and metal technology is a new program of study, separate from agriculture (approved 9/8/2015), that will provide the job skills necessary to acquire a high wage, high-demand position and support our business partners and others throughout the state. This approved program is the only manufacturing technology pathway in Regions 13 and 14 covering all of northeast Oregon.

As with most separations, this one does not come without issues. The demands on an antiquated shop with an intensive welding/metals focus expose the electrical and ventilation systems as inadequate to meet the higher demand for a welding technology program. Additionally, there is a need to upgrade equipment to emulate that used by industry in order to better prepare our students for a smooth, realistic transition to the world of work.

**Sunset High School Engineering Pathway**  
**Sunset High School**

Award Amount: \$325,642.00

Number of Schools: 1

Number of Partners: 10

With this grant we will create a Career Pathway for Engineering. The new pathway will include the alteration of one semester course that already exists at Sunset High School, as well as the creation of three new semester courses. By creating the classes within the school day, we can ensure that all students, regardless of gender, race, or economic means, have equal access to them. These courses will need the support of a new classroom space which includes modern machinery, electronics, and computers. We will create a sustainable Career Pathway that can be replicated in other high schools both in the district and across the state.

**Project LAB (Learning Aligned with Business)**  
**David Douglas School District**

Award Amount: \$390,745.00

Number of Schools: 5

Number of Partners: 17

David Douglas School District seeks to cultivate a rich CTE-STEAM ecosystem through Project LAB (Learning Aligned with Business) by creating a strong link from middle schools and high schools to workforce and post-secondary education. Project LAB will revitalize high wage, high demand CTE programs and pathways aligning with state academic content standards, industry-recognized technical standards and employability skills. Following is our blueprint for success: a) Ignite the Hospitality and Tourism Management program by incorporating restaurant management and advanced culinary classes and reopening The Kilt, a student-operated restaurant; b) Bolster all CTE programs and build access to career pathways by developing and implementing a Teacher Externship Program to deepen business partnerships, and constructing a MakerSpace to promote applied learning for STEAM content and increased student participation in CTE; and c) Strengthen partnerships with post-secondary education, businesses and labor by articulating more CTE pathways and identifying and addressing industry and students' needs, including those of historically underserved students. David Douglas is prepared to "think big" to support our students in their role in Oregon's economic prosperity.

## **Fabricating Quality Careers in Agriculture**

### **Elgin School District**

Award Amount: \$378,426.00

Number of Schools: 1

Number of Partners: 6

The Fabricating Quality Careers in Agriculture project is designed to provide students with rigorous and relevant learning opportunities within the high-wage and high-demand areas of agricultural mechanics and fabrication. As part of this project, students will be put in charge of managing a mechanics and fabrication business, starting with marketing and sales, through design, fabrication, and finishing. Students will work with industry professionals through internship opportunities and classroom visits to gain first-hand knowledge of the exciting and lucrative careers found in agricultural mechanics and fabrication.

## **Dream, Plan, Build Gaston**

### **Gaston Junior/Senior High School**

Award Amount: \$360,478.00

Number of Schools: 1

Number of Partners: 9

Gaston is a rural community near the Portland Metro and the smallest district in Washington County with one Junior/Senior High School grades 7-12. Over the last decade, the student population has grown exponentially. Gaston Junior/Senior High School (GJSHS) has taken advantage of the growth to strengthen the Career and Technical Education (CTE) offerings by adding staff equipped to deliver multiple robust CTE programs of study. Based on the reputation of existing programs, there is significant student demand for additional courses. Gaston aims to develop entrepreneurial manufacturers and businesspeople that dream, plan, and build Gaston's future. This proposal will enable students to pursue multiple pathways to high wage, high demand careers – business, manufacturing, or a hybrid of both – earning dual credit and connections with industry partners. However, GJSHS is bursting at its seams and has inadequate facilities for the programs. "Dream, Plan, Build Gaston" will revitalize CTE through the development of a new facility that houses and blends the business and manufacturing pathways to prepare Gaston students to be successful and contributing citizens in our community and state.

**Harney Frontier Schools CTE Revitalization**  
**Harney School District #3**

Award Amount: \$368,382.00

Number of Schools: 3  
Number of Partners: 8

Collaborating with all schools in Harney County, school districts #3, #4 and #UH1J will enhance educational opportunities for students by increasing student opportunity in Career and Technical Education (CTE) classes thus creating a greater number of students leaving school with an increased set of college ready and employable skills. Our focus on improving opportunities for students will involve all Harney County students in grades K-8 as Harney County builds towards its goal of 40-40-20. Safety is a high priority for our students and by providing modern equipment and modern work areas our safety efforts will be realized. Another area of focus for our students is increased participation. Partnerships with local government, regional agencies, and private agencies will create links between students and the community that will help to increase the already strong relationships between community and schools in our frontier school districts. As we increase opportunities for our students a focus is provided on equity and culturally responsive teaching so that all are welcome and invited into CTE classrooms in Harney County.

**Hillsboro Manufacturing Training and Learning Center**  
**Hillsboro School District**

Award Amount: \$385,188.00

Number of Schools: 8  
Number of Partners: 16

Hillsboro School District (HSD) aims to create a premier training and learning center housed at Century High School in the fields of manufacturing and design for students and educators across the district and region. HSD is uniquely positioned to create a first rate hub by building upon the existing infrastructure, program, equipment, and committed partnerships. As the 4th largest district in Oregon with 51% students of color, the region is projected to grow 30,000 high wage, high demand manufacturing positions over the next 10 years.<sup>1</sup> The Manufacturing Center will expand the reach of existing CTE programming from 209 students to 630 middle and high school students by creating access to horizontal and vertical pathways for 7,098 middle and high school students in Hillsboro and Banks School Districts, and via Worksystems, Inc.'s Sector Pathway Training Program. The Center will: 1) create rigorous, career-aligned dual credit program of study opportunities supported via expanded partnerships; and 2) build a pipeline of students from Century's feeder middle and elementary schools who gain hands-on lab experience.

## Revitalizing CTE in Klamath County Klamath County SD

Award Amount: \$390,605.00

Number of Schools: 2

Number of Partners: 8

The CTE Revitalization Grant will significantly increase opportunities for students in Klamath County by renovating the CTE wing of Henley High School. Students will be better prepared for post-secondary education and careers in the fields of agriculture, welding, fabrication, business and marketing. By expanding the technology and equipment to the industry-standard and beyond, students will be exposed to a variety of learning opportunities to increase local job opportunities and career training. The local Agricultural Science & Technology Department advisory board and partners have identified restructuring the current laboratory and uniting the two current CTE programs of study in the school as a key focus for this grant project. In turn, the renovation will allow instructional expansion to middle school students and bring additional College Now courses to Henley High School thanks to local partnerships with Klamath Community College.

## Real Science Creating Real Industry Skills in CTE La Grande School District, La Grande High School

Award Amount: \$379,852.00

Number of Schools: 1

Number of Partners: 12

La Grande High School will use CTE revitalization dollars to provide legitimate, cutting edge, and essential regionally-specific scientific exploration to develop skills within CTE programs for high wage/high demand fields. In our Agriculture/Natural Resources Pathway, Oregon Department of Forestry, USDA, and local business Plantworks will collaborate to repurpose and expand greenhouses for research and development to improve reforestation success after wildland fires across Oregon, utilizing Biochar technology and other strategies. In our Medical Pathway, we will continue to implement internationally recognized Project Lead The Way curriculum and network with NEOAHEC, EOU, and local medical providers to build a fully articulated, science-oriented medical pathway well beyond standard CNA programs. Lastly, working with local higher education institutions and businesses, we will continue to secure and integrate curriculum and tools, like our new virtual welder, to engage more diverse students and provide equitable access in a fully articulated Mechatronics Pathway. In summary, we will seamlessly connect our curriculum to industry needs through the integration of legitimate scientific exploration that incorporate essential skills for students entering 21st Century industry.

**Full STEAM Ahead**  
**Lincoln County School District**

Award Amount: \$384,735.00

Number of Schools: 2

Number of Partners: 16

Waldport High School expands its CTE Program with a new Materials Technology Career Pathway in Manufacturing and Fabrication, and enhances it through the development of new Community Response and Tourism and Marketing Career Pathways. The Revitalized CTE Program will dramatically increase engagement, rigor, and essential skills for students. Creation of a new STEAM (Science, Technology, Engineering, Art, and Math) model integrates STEAM into CTE, and CTE across all academic areas. The Full STEAM Ahead project highlights a vision to improve education through authentic, experiential learning. Students will design and manufacture products for local scientific research, and by the port and city for tourism. They will also achieve certification in emergency response, firefighting, and boating. Newly established partnerships will provide internships, mentoring, and job-shadowing. Through a revitalized CTE program, students will receive experiential training and mentoring that will prepare them for college and high demand, high wage occupations. Full STEAM Ahead will improve future prospects for our many, historically underserved students and will contribute to improving the economy of our coastal communities.

**Treasure Valley Tech**  
**Malheur Education Service District**

Award Amount: \$488,432.00

Number of Schools: 3

Number of Partners: 9

The Malheur County Poverty to Prosperity CTE Program directly addresses two of the most important issues facing Malheur County, poverty and workforce development. By improving outcomes for disconnected youth, business and communities have the potential to increase savings for society, improve the quality of talent available to employers, and interrupt a multigenerational cycle of poverty for youth and their families. Students will be graduating from all programs with a high school diploma, Industry Recognized Certificate, college credits and transferrable job skills to employment. Our focus is on key measurements of educational or work outcomes; however we also recognize the importance of ensuring that youth are growing in confidence, optimism and self-efficacy. This project creates several identified tracks of technical education, giving a student the opportunity to end their cycle of poverty. The overarching goal is to create future jobs by eliminating destructive social and economic trends facing Malheur County youth, particularly those students who through Oregon's equity Lens, are considered at-risk, underperforming or under-represented.

**Protective Service Career Pathway Project**  
**McMinnville School District**

Award Amount: \$146,796.00

Number of Schools: 3

Number of Partners: 5

The Protective Services Career Pathway Project, submitted by McMinnville School District, will create a new career pathway within Human Resources: Fire and Emergency Services, and will expand and enrich an existing pathway: Criminal Justice. Both pathways will feature community-based internships, experiential learning, and expanded day/year learning opportunities. Firefighting and law enforcement are high wage and high demand careers in the mid-valley region (Yamhill, Polk, and Marion counties). The new and expanded coursework that will be implemented at McMinnville High School will enroll approximately 370 students per year in 10th-12th grade. The project will also feature a new, high interest middle school course, Crime Scene Investigation, which will enroll approximately 120 students in the initial roll-out year, growing to 240 per year thereafter. The middle school course will serve as a recruitment strategy to target traditionally underserved students, thereby building a 'pipeline' of students excited about pursuing further studies in Protective Services.

**Morrow County Welding and Manufacturing Project**  
**Heppner High School**

Award Amount: \$390,745.00

Number of Schools: 3

Number of Partners: 10

In collaboration with employers led by the Port of Morrow, Morrow County School District will expand and strengthen existing Manufacturing: Industrial and Engineering Systems and Agricultural Science and Technology CTE programs of study at three high school facilities: Boardman, Irrigon, and Heppner. Through updates in infrastructure and the purchase of industry-standard welding and manufacturing equipment, we will expand our capacity to provide both high school and college CTE programs and provide a training resource for industry partners and the community. This project is a small part of the regional workforce development plan that includes construction of the Blue Mountain Community College Workforce Training Center in Boardman. The new BMCC facility will not include facilities for welding and manufacturing instruction.

This project will:

- Upgrade infrastructure and equipment to bring welding and manufacturing instructional facilities to industry standards at three Morrow County high schools
- Create a strong pipeline to AA degree programs in Industrial Technology
- Create local options for high school students and community members to train for high-wage/high-demand jobs available in our local community

## [Pendleton Technology and Trades Center](#) [Pendleton School District](#)

Award Amount: \$390,745.00

Number of Schools: 3

Number of Partners: 10

Pendleton School District will change its approach to CTE by developing a Technology and Trades Center where students will learn in a “real work” lab setting. Together with our business partners, we have identified the knowledge and skills within two priority areas: Industrial & Engineering Systems and Hospitality/Tourism Management, that lead to high-wage high-demand jobs. Our approved building bond (\$1,000,000.00) will repurpose a former elementary school adjacent to Pendleton High School into the Pendleton Technology and Trades Center (PTTC) that will serve the three participating high schools. CTE funds will supplement bond dollars to equip a culinary lab commercial kitchen and an Engineering/Manufacturing lab platform with the flexibility to respond to the latest technology.

This project will:

- Prepare Pendleton students with skills that transfer to emerging economies
- Build and maintain strong relationships with partners to increase student interactions with the business community
- Provide a district center to bring together students across the district, including diverse and underserved populations, to learn in a “real work” environment.
- Create interest and excitement among students for Career Technical Education.

## [Building the Hub of Entrepreneurship: Innovation and Ideation at Redmond High School](#) [Redmond High School](#)

Award Amount: \$231,700.00

Number of Schools: 2

Number of Partners: 15

Redmond High School is creating an Entrepreneurship and Design program to train our community’s next generation of innovators and doers. Modeled after the Hasso Plattner Institute of Design at Stanford University (the “d.school”), this project will create a program dedicated to the creation and ideation aspects of business development. We will physically redesign the classroom environment to promote innovation and collaboration: reconfigurable, technologically advanced, with prototype capabilities. Innovative curriculum will be adopted, using Design Thinking concepts developed and taught within the walls of the d.school, and feedback from our business and entrepreneur partners. We will break up the traditional silos that education programs exist in by physically creating doorways to adjacent classrooms, and building in coordination time between entrepreneurship students and students from other programs. Partners in this project include Elton Gregory Middle School, Central Oregon Community College, Oregon Tech, Oregon State University-Cascades, Small Business Development Center @ COCC, Redmond Economic Development, Inc., Better Together, RDD Enterprises, Esro Industries, Straw Propeller Gourmet Foods, Eric Spieth, Current Conceptions, McConnell Labs, and Medline Renewal.



**Roseburg High CTE Revitalization – Skills for the 21st Century**  
**Roseburg High School**

Award Amount: \$358,909.00

Number of Schools: 1

Number of Partners: 12

Roseburg High School is developing an interdisciplinary CTE course of study that will align and integrate instruction with 21st Century industry needs that current technological and industry equipment advances require in the workforce. Students will be engaged in design, engineering and manufacturing across the disciplines of Drafting, Construction/Woodworking, Welding/Manufacturing, and Agricultural Science/Technology to increase proficiency in manufacturing and production of a finished product that will meet industry standard. Meaningful partnerships with local business, industry, non-profit organizations and higher education will ensure opportunities for collaboration, communication, training, mentoring, job-shadowing, internships and dual credit to enhance participation and success of all students, including historically underserved students. These endeavors will allow greater flexibility for students to explore various career pathways that may lead to post-secondary education and training or high-wage/high-demand employment.

**Equitable Opportunities in Emerging Technology**  
**Sabin-Schellenberg Professional Technical Center**

Award Amount: \$323,884.00

Number of Schools: 2

Number of Partners: 5

For many of our disenfranchised students, the thought or hope of graduating from high school and pursuing a college degree and successful career is nothing but a dream. The staff of Oregon's most established and successful career and technical center has the ability to connect those students to the skills needed to jumpstart their passion and future in the world of game programming, robotics, design, communications, and developing new apps for mobile devices including cellphones and tablets within the new Emerging Technologies Program of Study series of classes as well as summer camps involving students from middle school to college.

Sabin-Schellenberg Center, and our numerous business and community partners, have developed a plan focusing on engaging students in hands-on curriculum and resources that are rigorous, relevant and provide new relationships aimed at success for those students who deserve new opportunities leading to high-wage and high-demand careers. We are especially committed to engaging females and students of color with the opportunity to learn technology-centric skills as they learn from professionals from business and industry, highly trained and qualified staff, and from each other in emerging technologies.

**Scio CTE Expansion**  
**Scio High School**

Award Amount: \$383,052.00

Number of Schools: 1

Number of Partners: 10

The Scio School District's Agriculture and Forestry programs seek grant funded enhancements to engage students in contextual learning across a broad range of industry recognized agricultural based sciences to equip students with personal, trades, and professional skills needed for success in agricultural and forestry careers. Students have the opportunity to earn college credit through Linn/Benton Community College that can be applied to further postsecondary training and ultimately, a degree or trades certificate. This project enhances a successful yet aging and space constricted program, to increase student participation from middle school throughout high school. Students will receive relevant training in trades' related studies, including but not limited to greenhouse and crop sciences, small engines, welding, forestry, leadership and animal sciences. The project will enhance the learning environment through partner collaboration and hands-on practical and meaningful agricultural projects. Strong Business partnerships will mentor students through practical experience managing business projects, from early conceptual design to marketing and sells, Use of the National Career Readiness Certificate Assessment, will measure the programs and individual student's success.

**South Coast Healthcare Pathway Program**  
**South Coast Education Service District**

Award Amount: \$418,488.00

Number of Schools: 15

Number of Partners: 20

Our nation has committed itself to healthcare reform. It is an important and necessary goal and also one fraught with barriers. From medical office staff to nurses and medical technicians to doctors of all kinds the worker shortage has risen to staggering proportions. The World Health Organization estimates this shortage of about four million health workers to deliver essential health services, and has called for immediate action. The South Coast health care issues are no different that the nation or the world and we believe it is our responsibility to respond to this call to action. In Coos and Curry County, there is a dire need for skilled health workers, with the overall 10- year job growth rate projected to be 11 %. The good news is that we have an untapped resource right in our own community of intelligent, willing students at our local high schools, dedicated teachers with a strong desire to see student's become college and career ready and committed healthcare leaders that want to see our students stay in this community and see our workforce grow.

**Manufacturing by Design**  
**Southern Oregon Education Service District**

Award Amount: \$488,432.00

Number of Schools: 73  
Number of Partners: 20

There are multiple Career & Technical Education programs in Southern Oregon schools providing rich, hands-on, real world learning experiences for students. However, not all students in the region have access to a broad array of these programs, and some programs are hampered by a lack of industry-standard equipment that would allow students to understand and experience today's cutting-edge technology. ***Southern Oregon STEM Manufacturing by Design*** is an innovative project designed to provide mobile CTE labs to the region that can travel between schools, as well as industry-standard equipment that will dramatically expand student access to quality CTE programming aligned with our region's economic development plan. Through this, many more students will access these high interest courses that build solid knowledge foundations through hands-on, real world learning. Ultimately, these expanded opportunities will lead to increased student engagement, real world skill development and, ultimately, higher graduation and postsecondary success rates. Another key element of this project will be expanded opportunities for students to explore career options through increased interaction with business and industry partners.

**Renovations and Remodeling**  
**St. Helens School District #502**

Award Amount: \$380,197.00

Number of Schools: 2  
Number of Partners: 5

The R&R program enables high school construction students to restore and remodel foreclosed or dilapidated houses, thereby gaining invaluable training in an abundance of career fields. The students would be involved in the market analysis, the rationale of a house selection (largest ROI), the purchasing, the work itself, and ongoing maintenance until the time of sale. Students would be transported to and from the jobsite during double period classes and work alongside local contractors while performing all other work that does not require a license. In addition to the remodeling piece, several concurrent programs will be running in the background to facilitate the operation of this program. These include a middle school recruitment program for SHHS's CTE programs in general and an industry and college transition piece for students successfully exiting the program.

**Tigard-Tualatin Manufacturing CTE Program of Study**  
**Tigard-Tualatin School District**

Award Amount: \$385,215.00

Number of Schools: 5

Number of Partners: 10

In this project, Tigard-Tualatin School District (TTSD) will establish a new Manufacturing Program of Study (POS) at Tigard and Tualatin High Schools. The POS will be developed with local industry partners, Portland Community College, the South Metro-Salem STEM Hub and municipal and non-profit partners. Pathway courses and experiences will align with industry requirements, carry dual credit, articulate to PCC manufacturing certifications and AA degree programs, lead to an industry credential (Certified Production Technician) and provide a foundation for four-year university professional programs. Middle school STEM classes will build interest for the high school pathway. A new Technical Math course, carrying dual credit, will provide a high-interest, hands on curriculum integrated with the pathway. High school students and industry representatives will recruit students to the new pathway through in-classroom, hands-on activities at the middle schools. Students in the manufacturing pathway will participate in work readiness activities, job shadows, and internships coordinated by local workforce development partner Worksystems. Lastly, students will have additional extracurricular opportunities through Skills USA, a career and technical student organization.

**College and Career-Ready: CTE Revitalization Grant**  
**Willamina School District**

Award Amount: \$390,745.00

Number of Schools: 2

Number of Partners: 9

The Revitalization Grant for our Career and Technical Education (CTE) Program at Willamina will provide hands-on learning and opportunities for curiosity. The \$400,000 funding from ODE would provide the machines and FTE to help a program that has been waning for the past ten years. It will replace equipment that is sorely out-of-date and help create a space that is ready to help foster 21st century-skilled learners and workers.

We are a rural, tight-knit community that is focused on partnering with Community Members from a 40-mile radius to make this happen. We envision: internships and externships with industry leaders; a revitalized summer program that will keep kids away from the video games and in the learning mode of welding, construction, drafting and FFA; building "tiny homes" that can be constructed in our new building on equipment purchased by our grant and sold, generating a sustainable commodity that will help support and foster our program; and including a lens of equity that will increase diversity in our program.

**Yamhill Carlton Career Academy**  
**Yamhill Carlton High School**

Award Amount: \$222,208.00

Number of Schools: 2

Number of Partners: 13

Yamhill Carlton High School will develop the Yamhill-Carlton Career Academy (YCCA). The YCCA will provide high school students with the knowledge and skills necessary for today's high-wage, high demand careers. Career Academies are researched-based models of Career & Technical Education that are proven to be highly effective. It begins with a robust education plan facilitated by the high school counselors and incorporates four core applied academic classes. The academy is focused on several distinct career paths that are connected to the needs of local business partners. Students will be assigned to work in project teams. Project teams will be led by advanced students who have demonstrated technical proficiencies. Industry partners will provide technical expertise and will meet as an advisory team to help set program goals and assess quality of student work. Industry and business partners will contribute to the sustainability of the YCCA by helping to locate and/or fund equipment, providing student internships, and employment opportunities. Higher Education partners will be engaged to facilitate further education in a technical field.