

# TREASURE VALLEY TECH

## Automation & Control Systems / Renewable Energy Technologies Program

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The Associate of Applied Science (AAS) in Automation & Control Systems / Renewable Energy Technologies (ACS/RET) prepares students to work in a variety of automated electro-mechanical, product assembly, process control, product distribution, or solar thermal and Photovoltaic industries that use programmable controls, instrumentation, troubleshooting and other methodologies to accomplish system management or produce sustainable energy. By utilizing robotic, mechanical, hydraulic and pneumatic, electrical and electronic, optical and thermal devices and PV and solar thermal cells, the ACS/RET technician will gain through this program the skills to define, integrate, install, program, maintain and operate complex control and renewable solar energy systems.

### CAREERS

#### AUTOMATION CONTROL TECHNOLOGY

- Automated systems technician
- Controls technician
- System designer
- Electrical/mechanical service technician

#### RENEWABLE ENERGY TECHNOLOGY

- Solar PV designer/installer
- Solar thermal installer

### INDUSTRIES

- Food Processing
- Manufacturing
- Municipalities
- Power companies
- Commercial and residential power generation



### COURSES

- RET 100 Intro to Automation/Renewable Energy - 3 credits
- RET 101 Intro to Troubleshooting – 3 credits
- RET 103 Mechanical Systems – 3 credits
- RET 104, Electrical Troubleshooting I – 3 credits each
- RET 105 Unmanned Aerial System Design and Construction – 3 credits
- RET 113 Fluid Power – 2 credits

The successful conclusion of these six courses does not result in a degree. The outcome is 17 credits and a jumpstart to continuing coursework at TVCC for an Associate of Applied Science (AAS).



Fostering 21st century career skills and expanding access to jobs.



### ABOUT P2P CTE

The Career and Technical Education program (CTE), one of Malheur County Poverty to Prosperity's five-points, is designed to prepare youth to find local jobs while attracting new industry and jobs to Malheur County.

The P2P Career Technical Education project is a collaboration between Ontario, Vale and Nyssa school districts, Treasure Valley Community College, Malheur Education Service District, industry partners, county and state agencies, youth-serving organizations, parents and youth themselves and for the past three years has followed a coordinated approach to improve outcomes for local youth.

For more information, speak with a school counselor and/or visit P2P's website: [www.MalheurP2P.org](http://www.MalheurP2P.org)