

# CHEMEKETA COMMUNITY COLLEGE

SALEM, OR, USA

EDUCATION

## OVERVIEW

The Chemeketa Community College's **Applied Technology Machining/Drafting/Engineering Building 20** is a Leed® Gold certified, 4,924 m<sup>2</sup> (53,000 ft<sup>2</sup>) space, which houses the college's machining, drafting, and engineering departments, in addition to offices for Applied Technology Department staff. The North side of the building contains a large open shop, and the South side consists of a two-storey classroom wing with adjacent offices. This building replaces a smaller one and provides more opportunities for the students.

## PROJECT DETAILS

Reliable Controls Authorized Dealer, Sunbelt Controls, Inc., successfully completed this new construction project for Chemeka Community College.

The mechanical system consists of a Heat Recovery Unit (HRU), Variable Air Volume (VAV) boxes with reheating, and slab heating and cooling.

BACnet® integration of this project includes window operated fenestration, lighting, and slab heating and cooling for temperature control of classrooms and administration. Challenges included the BACnet integration of third-party products.

This new facility allowed the college to upgrade its educational courses in 3D modeling and 3D printing and scanning for rapid prototyping. Building 20 houses state-of-the-art technology and equipment, allowing the programs offered by the college to be more industry relative. In the new building, for example, students can design a product on the computers in one room, physically make it in the lab across the hall, and debrief and discuss in the common spaces upstairs.

The facility was awarded LEED® Gold certification.

To learn more about projects using Reliable Controls® visit [www.reliablecontrols.com/projects/overview](http://www.reliablecontrols.com/projects/overview)



**PROJECT TYPE:**  
New Construction



**INSTALLATION TYPE:**  
Boiler, Chiller, CO2 Monitoring, HVAC, Lighting, VAV, Window fenestration and slab heating/cooling

**TOTAL AREA:**  
4,924 m<sup>2</sup> (53,000 ft<sup>2</sup>)

**EQUIPMENT INSTALLED:**  
1 MACH-ProWebCom™  
4 MACH-Pro1™  
8 MACH-ProZone™  
45 MACH-ProAir™

**NETWORK:**  
EIA-485, Ethernet

**TOTAL SYSTEM POINTS:**  
720 points

**RELIABLE CONTROLS® DEALER:**  
Sunbelt Controls, Inc.

