

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 m² (53,000 ft²) 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.



PROJECT TYPE:
New Construction



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

TOTAL AREA:
4,924 m² (53,000 ft²)

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.

To learn more about projects using Reliable Controls® visit
www.reliablecontrols.com/projects/overview

