

## New Campus Laboratory Building at UC Santa Cruz

The new Physical Sciences Building, a complex laboratory building on the UC Santa Cruz campus, is performing at optimal levels largely due to the University retaining Enpowered Solutions as its third-party Commissioning Authority. This was the University's first new construction project using a third-party Commissioning Authority.

This highly successful project led to the smoothest transition from construction to operation of any complex building on campus. Enpowered worked closely with University staff and the general, mechanical and controls contractors to implement the commissioning process.

The effort resulted in the resolution of over 200 identified issues. Based largely on this experience, the University intends to retain a Commissioning Authority for all future major campus buildings.



### BUILDING/PROJECT SUMMARY

- 138,830 square feet
- Five stories
- 97 fume hoods with zone presence sensors
- 51 room pressurization controllers
- Specialized gas distribution systems
- Environmental rooms
- Innovative natural ventilation design
- Advanced energy management and control system

### Commissioning Accomplishments:

- Identified incorrectly placed differential pressure sensors
- Determined water balancing had not been performed properly
- Diagnosed incorrectly designed fume hood exhaust ducting
- Corrected improperly sequenced economizers
- Corrected economizer damper operation
- Calibrated air flow monitoring stations
- Corrected chilled water coil piping

### About Enpowered

Enpowered Solutions is a leading consultative energy solutions company founded and comprised of expert energy engineers, commissioning agents, controls system designers, and project managers. We help our customers capture their performance advantage through a unique blend of controls innovation, commissioning, and energy engineering expertise.