



# SCIENCE AND ENGINEERING BUILDING II



## PROJECT NAME

Science and Engineering Building II

## CLIENT

University of California, Merced

## LOCATION

Merced, California

## MARKET SECTOR

Education  
Laboratory

## BUILDING SIZE

102,000 sf

## CONSTRUCTION TYPE

New Construction

## SUSTAINABILITY

LEED® Platinum Certified

## COLLABORATORS

- MEP: Gayner Engineers

Learn more about this project at  
[acutherm.com](http://acutherm.com)



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## PROJECT DESCRIPTION

The 3-story 102,000 square foot building includes open class laboratories, research laboratories, laboratory support, study facilities, and academic and administrative office support spaces. The building's HVAC system was designed to eliminate reheat through the use of variable air volume (VAV) terminal heating and cooling laboratory areas, economizer-based air handling units with intelligent VAV Therma-Fuser™ diffusers, and full switchover for heating and cooling. Heat recovery runaround loops temper 100% outside supply air. In addition, the building utilizes the campus thermal storage chilled water system, which saves energy by producing chilled water at night when the chillers can be more efficiently operated. Energy modeling accounted for the performance of all building systems, including laboratory process loads, resulting in 44.5% better than required by Title 24. The building is LEED v2009 Platinum certified.