

Applied Technology Building



San Bernardino
Valley College

Project: Technical Education Project

Square Feet: 114,897 sq. ft.

Current Project Budget: \$101.1M

State Funding: \$33.7M

Delivery Method: Design-Bid-Build

Architect: HMC Architects

Contractor: Icon West, Inc.

Construction Manager: Safework

Project Manager: AECOM

Project Status: Complete

Start of Construction: Jun 2022

Project Completion: Jan 2025

Local Hire: 52%

Project Goal: Consolidate and increase the laboratory capacity for Career Technical Education (CTE) programs at San Bernardino Valley College by replacing the existing Technical Building with a new larger building.

Sustainability Features

- All electric mechanical design, eliminating use of gas
- Direct/Indirect evaporative cooler and heat recovery chiller
- Six solar thermal chimneys throughout automotive labs enhancing natural ventilation
- Rooftop solar generating 70% of anticipated operational use
- Photovoltaic demonstration entry canopy
- Solar battery storage
- Direct current power and battery storage demonstration
- Daylight solatubes bring natural light into labs and classrooms
- High velocity, low speed fans in automotive labs
- Modular wetland linear biofiltration system
- Underground water storage and treatment
- **Title 24:** Exceed Title 24 by 31%
- **EUI:** 29 kBtu/sf/year



On Track for LEED Platinum Certification



Education Programs Offered

Automotive (Traditional, Hybrid, & EV)

Modern Machining

Solar Technology

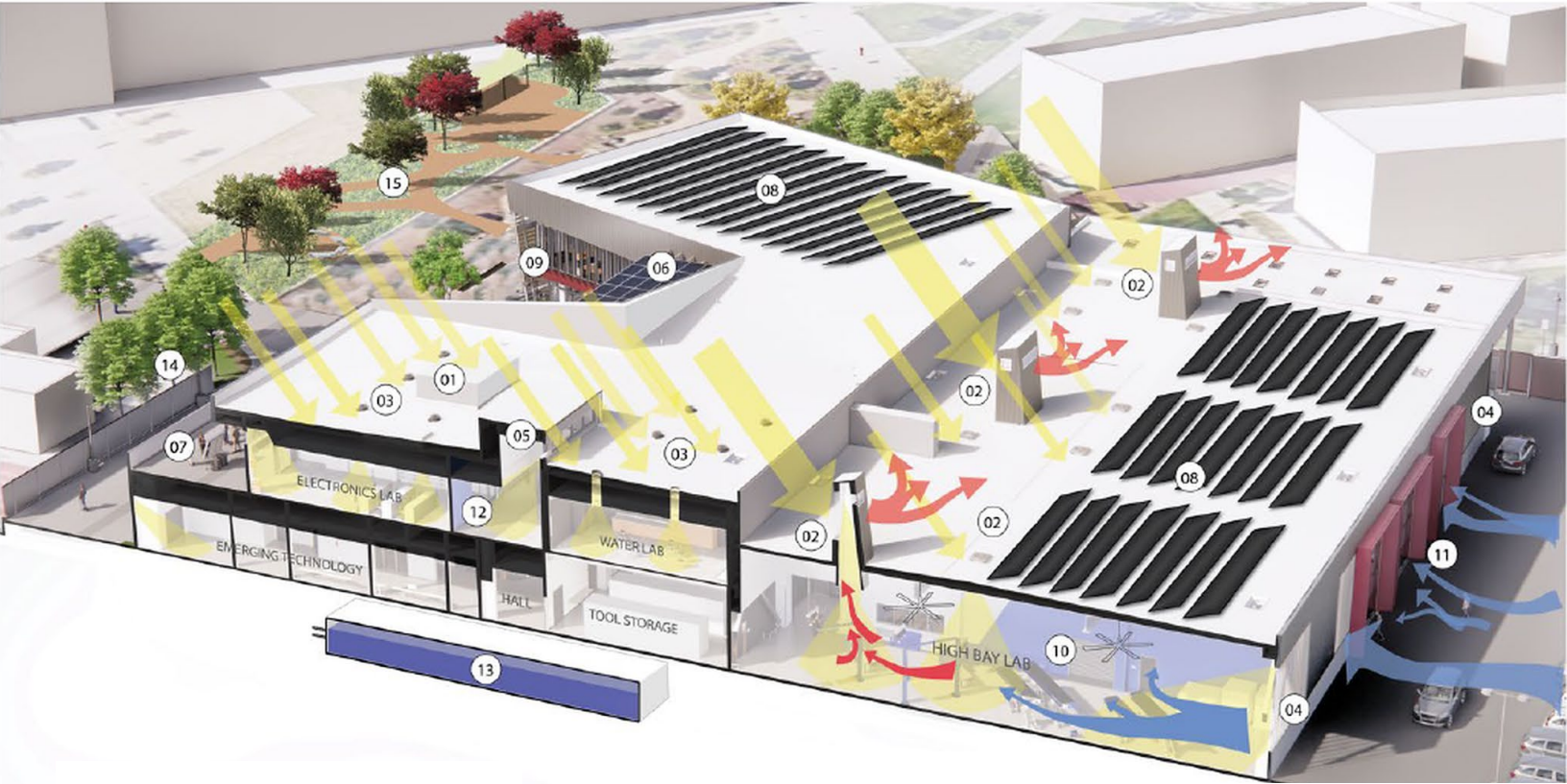
Water Technology

Heavy/Medium Truck Technology

Electricity & Electronics

HVAC

Industrial Automation



Sustainability Features

- | | |
|-----------------------------------|----------------------------------|
| 1 All electric mechanical systems | 9 Sunshade devices |
| 2 Thermal chimney | 10 High-velocity, low-speed fans |
| 3 Tubular skylights | 11 Operable doors and windows |
| 4 Light wall | 12 Student sticky spaces |
| 5 Light monitor | 13 Water storage |
| 6 Photovoltaic canopy | 14 Modular wetlands |
| 7 Photovoltaic deck | 15 Bio & Wellness Garden |
| 8 Photovoltaic roof | |

Awards

USGBC California Green Building Award

- 2024 Merit for Energy and Operational Carbon

USGBC-LA Sustainable Innovation Awards

- 2023 Merit for Health and Well Being
- 2022 Honor in Sustainable Development Strategy
- 2021 Honor in Sustainable Development Strategy

California Higher Education Energy & Sustainability

- 2020 Best Practice Overall Sustainable Design

American Institute of Architects – Inland California

- 2020 Honor Award

San Diego Green Building Council Sustainability Award

- 2020 Merit in Certification Systems – New Construction