



Tesla STEM High School Redmond, WA

Driven by a school district's need to relieve population pressure on their secondary schools while providing an innovative STEM curriculum, this project provides a range of varied, flexible spaces within the constraints associated with modular assembly. Students choose from multiple academic pathways, with an emphasis on hands-on learning, collaboration, teamwork and the development of presentation skills. Teachers work in teams, and are supported by professional mentors from the local community. These activities require learning spaces that are adaptable, flexible and differ significantly from the traditional classroom.

Studio work is augmented by related learning activities within the associated learning settings, fabrication space and group work areas. A central commons and student presentation hall connect all clusters at the heart of the school. Modular construction was selected to meet scheduling demands. The design team developed a solution that allows the modules to be assembled in combinations that produce a wide range of spatial definitions.

New Construction/Addition

Entire school/campus building

Integrus Architecture

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DESIGN TEAM

Absher Construction Company, Contractor
Blazer Industries, Inc., Modular Manufacturer
M Space, Modular Dealer
Interface Engineering, Inc., Mechanical and
Electrical Engineering
LPD Engineering PLLC, Civil Engineering
Heery International, Owner's Project Manager

OWNER/CLIENT

Lake Washington School District
Redmond, WA
Dr. Traci Pierce
425/936-1200

KEY STATS

Grades Served: 9-12
Capacity: 675 students
Size of Site: 22 acres
Building Area: 66,000 sq. ft.
Space per Student: 98 sq. ft.
Cost per Student: \$37,747
Square Foot Cost: \$383
Construction Cost: \$25,295,000
Project Cost: \$33,081,127
Completion Date: April 2013
Sustainability Rating System/Applied/Status/Level:
WSSP

PHOTOGRAPHY: LARA SWIMMER PHOTOGRAPHY



Key sustainability features include orientation and extensive use of skylights for daylight harvesting, rainwater capture system for toilet flushing, pervious paving and bioswales for storm water management, infrastructure for photovoltaic system, high-efficiency air-to-water heat pump and modular construction, which leads to less material waste and lower embodied energy.

