University of California, San Diego

Structural and Materials Engineering Building

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Structural and Materials Engineering Building
Credit: Photo by Nic Lehoux

The 183,000-sf Structural and Materials Engineering Building at UCSD houses several engineering departments, including Structural Engineering and NanoEngineering, as well as the Department of Visual Arts. Inspired by Bauhaus principles, the building's design fosters interaction between arts and engineering disciplines through gathering spaces, communal circulation, and shared computer and research laboratories. Offices are grouped around a variety of open meeting spaces to enhance collaboration while maintaining privacy.

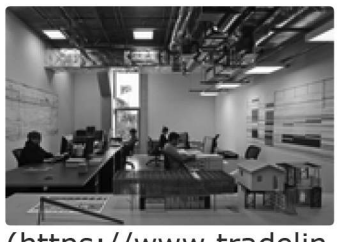
UCSD's Structural Engineering and NanoEngineering departments gain research laboratories for nanotube technologies and new composite structure materials for the aerospace, construction, and computer and electrical equipment industries. The facility also includes space for high-bay testing equipment, an autoclave area, long-term testing suites for material processing, digital imaging computer rooms, large workshop spaces for student projects, a library, classrooms, and offices for faculty and staff. The Visual Arts Department is accommodated with shared computer labs, video editing suites, presentation and gallery spaces, an auditorium, a fabrication workshop, and studios for faculty and graduate students.

Outdoor amphitheater-style seating encourages casual interaction and can be transformed into an indoor/outdoor performance space by opening the walls up to the adjacent auditorium. A pedestrian bridge that connects the building to the main campus thoroughfares helps make this building a locus of campus activity.

For more information on the above report, please contact the Tradeline Editor (/contact/editorial)

(https://www.tradelineinc.com/sites/default/files/styles/popup/public/article/82652/struct_550.jpg?itok=lzXUyxgT)
Structural Engineering - Composite Material

(https://www.tradelineinc.com/sites/default/files/styles/popup/public/article/82652/structeng_550.jpg?itok=NuFy7CWi)
Structural Engineering - Non-Destructive Evaluation



(https://www.tradelineinc.com/sites/default/files/styles/popup/public/article/82652/visual20arts20studio.jpg?itok=OCQmSqQi)
Visual Arts Studio

Project Data

Project Type: New Construction
Completion Date: August, 2012
Location: La Jolla, CA, United States
Delivery Method: General Contractor (GC)
Project GSF: 183,333
Building Descriptors:

- Education: Classroom
- Education: Multimedia
- Education: Theater
- Engineering
- Laboratory
- Laboratory: Research
- Laboratory: Teaching
- Materials Science
- Theater
- Theater: Multimedia

Organizations

- The Miller Hull Partnership, LLC - Architect
- Safdie Rabines Architects - Architect
- M. A. Mortenson Construction - Builder
- RBF Consulting - Consultant - Civil Engineer
- Churchill Engineering - Consultant - Code
- Syska Hennessy Group - Consultant - Communications
- Campbell-Anderson & Assoc. - Consultant - Cost Estimating
- Syska Hennessy Group - Consultant - Electrical Engineer
- Lerch Bates & Associates Inc. - Consultant - Elevator
- Protection Design & Consulting - Consultant - Fire Protection
- Research Facilities Design (RFD) (/org/research-facilities-design-rfd) - Consultant - Laboratory Planner
- Office of James Burnett - Consultant - Landscape Architect
- IBE Consulting Engineers - Consultant - Mechanical Engineer
- IBE Consulting Engineers - Consultant - Plumbing Engineer
- Englekirk Institutional - Consultant - Structural Engineer
- Haakon Industries - Supplier - Air Handlers
- Johnson Controls Inc. - Supplier - Building Automation Controls
- La Mesa Carpet - Supplier - Carpet
- Campbell Rhea - Supplier - Casework
- Mott Manufacturing - Supplier - Fume Hoods

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