



UT BIOMEDICAL ENGINEERING
BUILDING
AUSTIN, TX

72% certified wood used

33% water use reduction in restrooms

Energy performance optimized by 25%

LEED® Facts

UT Biomedical Engineering Bldg.
Austin, TX

LEED for NC 2.1
Certification awarded September, 29, 2009

Silver 33*

Sustainable Sites 6/14

Water Efficiency 4/5

Energy & Atmosphere 3/17

Materials & Resources 7/13

Indoor Environmental
Quality 10/15

Innovation & Design 3/5

*Out of a possible 69 points

The information provided is based on that stated in the LEED® project certification submittals. USGBC and Chapters do not warrant or represent the accuracy of this information. Each building's actual performance is based on its unique design, construction, operation, and maintenance. Energy efficiency and sustainable results will vary.

UT BIOMEDICAL ENGINEERING BUILDING

First Facility on UT Austin campus with LEED certification

Project achieves LEED Silver

PROJECT BACKGROUND

Parsons was selected to provide architectural design and programming services for a new \$45 million Biomedical Engineering Building (BME). Located on the 350-acre UT Austin campus, the new building helps define the northern gateway to the campus. It is the first facility on the UT Austin campus with LEED certification and achieved the Silver certification level.

In designing the Biomedical Engineering Building, Parsons created tiered standards that blend the campus' desire of architectural permanence of a 100-year life expectancy with a flexible building interior.

STRATEGIES AND RESULTS

In compliance with the university's desire to increase awareness of sustainability in the built environment, Parsons' design incorporates features to achieve a LEED Silver certification. Sustainable features of the Biomedical Engineering Building include:

- Rainwater and HVAC condensate collection system
- No potable water used for irrigation.
- Water use reduction of 33% in restrooms.
- Energy performance calculated to be optimized by 25%.
- Construction waste management of 95% achieved.
- Use of products with recycled content.
- Occupancy sensors.
- Carbon dioxide monitoring.
- Low VOC (volatile organic compound) products.
- Greenguard-certified furniture.
- Based on cost, 72% certified wood used

Because interior spaces are research-driven, they had to be agile – the design incorporates modular, easily reconfigured components. The concept considers initial costs, durability, maintainability, life-cycle costs, suitability, and permanence of use for the intended application.

ABOUT UT BIOMEDICAL ENGINEERING BUILDING

Opened in August 2008, this 142,000-ft², six-story building provides spaces for the College of Pharmacy (Medicinal Chemistry) and the wet biology teaching labs for the College of Natural Sciences. This multiuse building is home to class rooms, research laboratories, and administrative offices for the Biomedical Engineering department. It also contains nine optics labs built two stories underground to minimize the effects of vibration. The new facilities within the building allow students and staff to engage in advanced studies and research in biological science. "This multi-institutional effort combines the strength of one of the nation's largest research universities with one of the top cancer research centers and a premier medical school," says Kenneth Diller, the Biomedical Engineering Chairman.

"The Biomedical Engineering Building is a magnificent new home for our faculty who are investigating scientific, engineering and medical challenges. It is the place where students will become the next generation to transform our world through innovation and discovery."

William Powers Jr., President at UT



Owner: University of Texas System
 Architect: Parsons
 Civil Engineer: Jaster - Quintanilla & Associates, Inc
 Commissioning Agent: Energy Testing and Balance, Inc
 Contractor: Vaughn Construction
 Landscape Architect: TBG Partners, Inc
 LEED Consultant: Parsons
 MEP Engineer: HMG & Associates, Inc
 Structural Engineer: GBM Engineers, Inc
 Project Size: 142,000 sq.ft.
 Total Project Cost: \$57,100,000

Photographs Courtesy of: Parsons/Rich La Salle

ABOUT LEED

The LEED® Green Building Rating System™ is the national benchmark for the design, construction, and operations of high-performance green buildings. Visit the U.S. Green Building Council's website to learn more.



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 512-470-9923