

# ENGINEERING & COMPUTATIONAL SCIENCES BUILDING AT OLD DOMINION UNIVERSITY

**First LEED®  
Certified Higher  
Education Facility  
in Virginia**



*Size: 82,715 S.F.  
Budget: \$11,820,000  
Bid: \$11,453,191  
Completed: August 2004*

The Engineering and Computational Sciences Building is a four-story building that accommodates the primary academic programs and support services associated with Old Dominion University's initiatives in computational sciences and engineering. This facility brings together previously geographically dispersed departments and services, creating important new laboratory and support spaces. The facility also allows the university to perform project demonstrations that showcase the students' and faculty's work.

Early in the design process, this project was identified as a prime candidate for improved environmental and economic performance using established or advanced industry principles, practices, materials, and standards promoted by the U.S. Green Building Council. Strategies for securing the facility's Leadership in Energy and Environmental Design (LEED®) certification included the following:

- Used former parking lot as project site, resulting in reducing impervious surfaces on campus.
- Reduced required irrigation water by more than 50 percent using drip irrigation, soil moisture sensors, and drought-tolerant plants.
- Modeled energy performance to exceed ASHRAE 90.1-1999 by a 21 percent margin.
- Expanded HVAC controls for "measurement and verification" capabilities.
- Utilized light shelves to maximize daylighting while minimizing heat and glare.
- Sent more than 75 percent of construction and demolition waste to local recycling facilities.

