

ROBINSON SCIENCE & TECHNOLOGY BUILDING AT NORFOLK STATE UNIVERSITY

Scientific
Technology and
LEED Principles
Collide on Campus



Size: 76,653 S.F.
Budget: \$7,656,083
Bid: \$7,766,712
Completion: Fall 2006

The Leadership in Energy and Environmental Design (LEED®) certified Robinson Technology Building houses the Computer Science, Engineering, and Technology Departments, as well as specialized classrooms/lab space and a Dean's Suite. The renovation involved "gutting" the building and upgrading the facility's internal structure to better handle the needs of these departments.

This project was identified as a prime candidate for improved environmental and economic performance using established industry principles, practices, materials, and standards promoted by the U.S. Green Building Council. Using the LEED "Green Building Rating System" version 2.1 as a guide, the following high performance design strategies were incorporated into the renovated structure:

- reuse of over 97 percent of the existing building's structural and shell elements;
- an upgraded HVAC system, resulting in a 36 percent reduction in energy use;
- HVAC equipment free of ozone-depleting CFCs, HCFCs, and Halons;
- highly-reflective roof surfaces to reduce the Heat Island Effect;
- ultra low-flow lavatories, resulting in a water use reduction of 24 percent;
- Forest Stewardship Council (FSC) certified wood doors made from lumber harvested from sustainable sources;
- recycled content and regionally-manufactured materials;
- a permanent CO2 monitoring system for adequate ventilation;
- low-emitting adhesives, sealants, paint, carpet, and composite wood materials to protect indoor air quality; and
- signage highlighting the building's green features.

