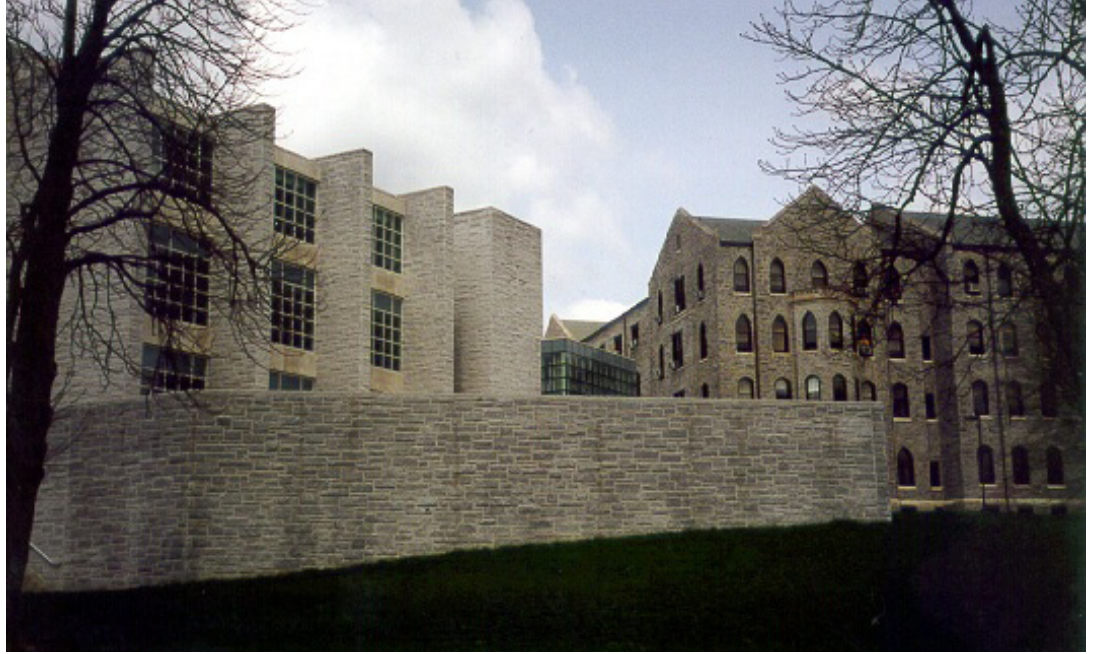


Center for Engineering Education and Research



ONE OF THE PROJECT'S MAJOR ARCHITECTURAL CHALLENGES INVOLVED ITS PREDOMINANT LOCATION ON A STEEP, SLOPING AND MAKING SURE THAT THE BUILDING'S HEIGHT AND MASSING DID NOT OBSCURE OR DETRACT FROM THE SURROUNDING HISTORICAL BUILDINGS.

LOCATION
VILLANOVA, PA

CLIENT
VILLANOVA UNIVERSITY

CONSTRUCTION COST
\$16 MILLION

SIZE
89,000 SF

History, technology, and user preferences contributed to STV's design of the Villanova University Center for Engineering Education and Research. The new building provides cutting-edge technological support for teaching and research for the University's College of Engineering.

STV provided complete architectural and engineering services for the 4-story, 89,000-sf academic building, which houses civil, environmental, electrical, computer, and mechanical engineering laboratories.

The firm provided a flexible, multi-use design to accommodate change in functional requirements, class size, and equipment types and sizes. The civil, electrical, and mechanical engineering labs are grouped interdepartmentally to enhance interaction between disciplines. Heavier, vibration- and noise-producing labs are

located on the ground floor, while electrical and computer labs requiring isolation from vibration and dust are located on higher floors.

STV worked closely with Villanova engineering faculty, students, staff, and administration to develop plans for the state-of-the-art facility, which includes 30 instructional and research laboratories, an interdisciplinary student projects laboratory, 12 student group study rooms, and a multimedia lecture hall seating 140.

The firm's design paid tribute to Villanova's history as well as the forward-looking mission of the technological college. In accordance with the existing campus aesthetic, primary building exterior finishes included Mt. Airy granite, cast stone, and curtainwall. The choice of a granite color and pattern was made to complement the adjacent Tolentine Hall.