

Virginia Tech, Institute for Critical Technologies and Applied Sciences

Blacksburg, Virginia

Owner

Virginia Polytechnic Institute & State University

Exterior Wall Design Architect

Pei Cobb Freed and Partners

Architect of Record

Burt, Hill

Contractor

Branch & Associates, Inc.

Completion Date

2008

Construction Cost

\$38 million

Total Area

100,000 sf



Thornton Tomasetti provided structural design for a four-level research building to house flexible laboratory space, classrooms, offices and common-use rooms to accommodate the requirements of multiple research functions. The building serves researchers in bioengineering, biomaterials, nanotechnology, communications technology, and sensor technology. The 100,000-square-foot building was designed to foster collaboration by providing contiguous workspace for researchers from different disciplines.

A critical component is a flat-slab structural system with vibration damping characteristics to meet the demands of highly sensitive equipment. Labs on upper floors are designed to permit operation of high power optical microscopy. Thornton Tomasetti also provided structural services for the lab fit-outs.



Photos courtesy Burt, Hill