

The Gaige

Matthew Neal, Mechanical Option

Technology and Business
Innovation Building



Penn State Berks Campus, Reading, PA

Penn State Berks, Owner 64,036 SF (Gross) Three Stories \$25.7 Million

Project Team

Architect:	RMJM / Hillier	MEP:	H.F. Lenz Company
Structural:	Greenman-Pedersen Inc.	Civil:	Gannett Fleming Engineers
Acoustics:	Shen, Milsom, & Wilke	Lighting:	Illumination Arts, LLC
Construction:	Becker and Frondorf	CM:	Allen H. Butz Inc.

Building Systems

Architecture	Function:	Classroom, office, and laboratory building
	Facade:	Metal framed curtain wall, terracotta panels
	Layout:	Two main wings, with central hallway circulation
	Efficiency:	Rainwater harvesting, heat recovery, high performance windows, and advance controls

Mechanical	Ventilation:	Three roof-top units, VAV, occupancy/CO2 sensors
	Cooling:	Five air-cooled chillers for data/computer rooms
	Heating:	Radiant heat & fin-tube heat exchangers, two 1300 MBH boilers

Lighting/ Electrical	Supply:	Building supply at 480/277 V with 208/120 transformer
	Lighting:	Flourescent, some LED, HID, incandescent, and halogen
	Controls:	Occupancy sensors and CO2 sensors in larger spaces

Structural	Foundation:	5" slab on grade, grade beams spanning micropiles
	Superstructure:	Structural steelm contineous slab-composite decking
	Lateral System:	Both X and eccentric braced frames using HSS

Construction	Construction:	From April 2010 through November 2011
	Delivery:	Design - Bid - Build



Night, exterior cafe area



East looking shot of main entrance



Night, exterior canopy lighting