

# University of Pittsburgh

## Chevron Annex

Pittsburgh, PA



### Architecture

- Vertical addition consisting of 2 chemical research floors and 1 mechanical penthouse floor
- Facade system is composed of terra cotta tiles, metal panels, louvers and glazing
- Aluminum cladded eyebrow accents the building's southwest corner
- In pursuit of LEED Gold certification

### Project Overview

Owner:	University of Pittsburgh
Architect:	Wilson Architects
General Contractor:	Burchick Construction
Structural Engineer:	Barber & Hoffman, Inc.
MEP/FP:	Affiliated Engineers, Inc.
Civil Engineer:	The Gateway Engineers, Inc.
Size:	35,000 sf addition
Cost:	\$25 Million
Duration:	Nov 2009 - Sept 2011
Project Delivery Method:	Design-Bid-Build

### MEP Systems

- Addition serviced by 3 air handling units designed as heating-cooling, single duct, variable volume reheat system
- 3 laboratory exhaust fans
- 1 emergency generator providing 1500 kW of power
- 300 kVA transformer
- 1600 A main switchboard, 480/277V 3 phase and 4 wires

### Construction Logistics

- 2 phase project consisting of a renovation and vertical addition
- Existing structure not capable of supporting the addition; resulting in the need for new columns, each with a foundation system composed of pile caps and micropiles
- Little space available around site, so minimal laydown area and site trailers were located 200 yards northwest of the site

### Structural System

- Structural system of addition consisted of steel beams and columns
- Pile caps supported the new columns of the addition
- Composite steel deck
- Braced frame resisted shear and lateral loads imposed on the building

