



# Whitmore Laboratory Renovation

## Project Overview

- Location: University Park, PA 16802
- Original Construction Date: 1953
- Total Floor Area: 94,000 SF
- Number of Stories: 4
- Construction: May 14 – August 16
- Renovation Cost: \$24.5 M
- Delivery Method: Design-Bid-Build

## Project Team

- Owner: Pennsylvania state University
- Construction Manager: Barton Malow
- Architecture/Engineering: Stantec
- General Contractor: J.C Orr
- Mechanical Contractor: North Central Mechanical
- Electrical Contractor: Westmoreland Electrical

## Mechanical System

- 8 AHU (15000CFM Each)
- Connected to Campus Central Chiller
- Heat Exchanger in the Basement
- Heat Recovery System in the Roof
- Fume Hoods in First and Second Floors

## Structural System

- Spread Footing Foundation
- Reinforced Concrete Columns in the Basement
- Reinforced Concrete Slab in the First Floor
- Steel Frame in first, Second and Third Floors

## Electrical System

- Source is Campus Grid.
- One Transformer (From 1247KV to 480 V)
- Two Electrical Rooms in the Basement
- All Conduits are EMT
- Fume Hoods in First and Second Floors



Courtesy to Stantec