

UIC Residence Hall and Academic Building

Project Highlights and Results

- MEPFP design of newly constructed 10-story residence hall and adjacent 2-story double height academic building.
- Anticipated LEED Gold rating under LEED v4.0 New Construction.
- Designed separate mechanical systems for the residence hall and academic building.
- Electrical, plumbing, and fire protection systems shared, but separately metered, between residence hall and academic building.

Project Background

Owner:	University of Illinois at Chicago
Location:	Chicago, IL
Team/Team Lead:	Brian Malone, Don McLaughlan, Bhupendra Tailor, Michael Yesensky
Elara Role:	MEPFP Engineer
Type:	New Construction
Construction Cost:	\$75,000,000

Project Overview

Building Type:	Higher Education
Building Attributes:	10-Story Residence Hall (147,000 SF); 2-Story Academic Building (52,700 SF)
Initial Construction:	2018
MEPFPIT Systems:	Air-cooled VRF, packaged DOAS, air-cooled VAV system, hot water reheat, condensing boilers, radiant heat, DCV, automated lighting and shade control, DDC

Innovation

- Provided services included conceptual planning, schematic design, design development, permit documents, construction documents, bidding assistance, and construction administration.
- New student residence hall has 554 beds (309 residence units), social and study lounges on each floor, and community bathrooms with a common laundry room within the residential tower. The building's ground floor has campus housing offices, multipurpose rooms, an exercise room, support spaces, and a shared lobby connected to the adjoining new academic building.
- The new academic building includes classroom, support, and restrooms on each floor.
- System design includes a VAV packaged DX system for the academic building and a VRF and corridor makeup air system for the residence hall.
- Electrical, plumbing and fire protection systems designed to be shared between the residence hall and academic building. The electrical and plumbing systems are separately metered for the academic and residential areas.

