

LUC Quinlan School of Business

FIRST PLACE

ASHRAE Excellence in Engineering Award
Chapter Level

Project Highlights and Results

- LEED Gold designation because of innovative design and sustainable characteristics.
- Utilizes approximately 60% less energy than an ASHRAE 90.1 baseline building with nearly 50% energy cost savings achieved.
- BIM software employed for design and construction.

Project Background

Owner:	Loyola University-Chicago (LUC)
Location:	Chicago, IL (Downtown Campus)
Team/Team Lead:	Don McLauchlan, Steve Maze, Brian Malone, Dustin Langille, Nathan Kinsey
Elara Role:	MEPPFIT Engineering Design
Type:	New Construction
Construction Cost:	\$52,400,000

Project Overview

Building Type:	Higher Education
Building Attributes:	10-Story, 120,000 SF; classrooms, offices, meeting rooms
Initial Construction:	2014
MEPPFIT Systems:	Condensing boiler plant, high-efficiency magnetic bearing chillers, low mass radiant heating and cooling ceiling panels, chilled beams, DCV, heat recovery, semi-automated natural ventilation, daylight harvesting, DDC

Innovation

- Project employed innovative sustainable design methods to create a building whose purpose is to cultivate connectivity with large, open, comfortable spaces while maintaining various methods of energy efficient design strategies.
- High-efficiency equipment coupled with sustainable design and smart control contributes to a highly efficient building design.
- The incorporation of natural ventilation for “free cooling” during optimal periods, the use of radiant panels and chilled beam units to meet sensible loads and a DCV system with energy recovery established additional energy savings.

