

KCC North Extension Center (NEC)

Project Highlights and Results

- Elara served as Design Engineer and Commissioning Authority to achieve Enhanced Commissioning Credit for this LEED Gold Project
- All design and project construction documentation completed through Building Information Modeling (BIM) Revit software.
- Assisted in obtaining \$90,000 in local grant funding for the project due to the geothermal system.

Project Background

Owner:	Kankakee Community College (KCC)
Location:	Kankakee, IL
Team/Team Lead:	Steve Maze, Claudine Harig, Dustin Langille
Elara Role:	MEPPFIT Design & LEED Commissioning
Type:	New Construction
Construction Cost:	\$5,200,000

Project Overview

Building Type:	Higher Education
Building Attributes:	2 Stories; 18,000 SF
Initial Construction:	2014
MEPPFIT Systems:	Geothermal Heating and Cooling, DOAS, Radiant Flooring, Solar PV, DDC

Innovation

- Academic outreach facility with classrooms and teaching spaces (also programmed with lounge areas, office and conferences areas) designed with green strategies to achieve LEED Gold status. The overall design-intent was to optimize energy efficiency of the building and maintain comfortable temperatures and indoor air quality.
- Design of lobby entrance, with full height glass, includes motorized shades to mitigate glare and an in-slab radiant heating and cooling system in the lounge to provide steady thermal comfort to the two-story transient space.
- Each classroom is equipped with dedicated ventilation air and a geothermal heat pump that is served by thirteen, 500-foot vertical geothermal wells. Natural gas was not utilized in this building design.
- Skylight features provide efficient day lighting and roof-mounted photovoltaic solar panels provide self-sustainable electricity.

