

The University of Michigan – Michigan Memorial Phoenix Energy Institute

Client Challenge:

The laboratories of the University Research Corridor of Michigan are bustling with trailblazing research that saves lives, creates new products and prepares students for the emerging industries of the future. The University of Michigan – Michigan Memorial Phoenix Energy Institute is a proud member of the University Research Corridor. The Michigan Memorial Phoenix Energy Institute’s (MMPEI) mission is to develop, coordinate and promote energy research and education at the University of Michigan, charting the path to a clean, affordable and sustainable energy future. Previously, the institute was spread across campus in a variety of disciplines and locations. The newly renovated labs needed to bring these disciplines together, in one of the safest, most energy efficient facilities on campus.

Ingenuity IEQ Solution:

With research in hydrogen and nuclear energy, this laboratory’s need for safety is paramount. By using the world’s most advanced airflow control systems and Ingenuity IEQ’s extensive experience, the University is saving energy and ensuring occupant safety. Ingenuity IEQ installed a fully integrated Phoenix Controls airflow control system providing optimized airflow to laboratories throughout the building. The system provides control of all critical airflow and space pressurization control in the facility. Fume hood control is optimized using the Phoenix Controls Zone Presence Sensor® that assures the fume hoods will continue to save energy, even when researchers do not close the fume hoods. Ingenuity IEQ also worked closely with MMPEI to implement a high performance Strobic Air high dilution exhaust system that efficiently and reliably removes fumes from the building envelope.

Result:

The University of Michigan – Michigan Memorial Phoenix Energy Institute is in the position to become the nations leading hydrogen research facility, strengthening the development of alternative energy sources. By working closely with the architectural and engineering design team, Ingenuity IEQ helped optimize airflow with real-time air quality demands within the lab, resulting in a safer, more energy efficient laboratory for the University.

Together, Wayne State, Michigan State University and the University of Michigan account for 95% of all the academic research done in the state of Michigan – more than a billion dollars a year in all.



Client:

The University of Michigan

Facility type:

Research

Technologies:

Phoenix Controls; Strobic Air

Location:

Ann Arbor, MI

Square Feet:

1st phase of 3 - 75,000 after completion

Number of floors:

3

Number of Hoods:

8

Date occupied:

1st phase 2009

Architect:

Lord Aeck & Sargent, Inc.

Engineer:

Stantech

Construction company:

Barton-Malow