SECTORS: HOMEPAGE

UHN IMAGE GUIDED DISCOVERY LAB

Toronto General Hospital, 200 Elizabeth St. Toronto, ON

DESCRIPTION:

The project consisted of renovations to existing hospital office space to create a new laboratory for researching new methods and procedures in diagnostic imaging. The suite is designed for a variety of medical imaging equipment, including an MRI scanner, multiple CT scanners, and X-rays.

CONSULTING SERVICES:

Callidus Engineering provided the mechanical and electrical systems design for the renovation. The mechanical systems included new water-to-water heat pumps connected to the deep lake cooling system, air handling units with zone reheat and VAV control, room pressurization controls and monitoring, and a HEPA/charcoal filtered exhaust system. The electrical systems included designing the power distribution to the lab including multiple voltages for the various new imaging equipment, lighting and emergency lighting design, coordination with new mechanical systems and coordination with the hospital IT department. Some design challenges included incorporating flexibility in the mechanical/electrical systems to account for swapping in/out different imaging equipment, accounting for the use of both human and animal imaging subjects, and the constraints of fitting a large amount of equipment/services into a relatively small space.

DESIGN TEAM INCLUDED:

Project Manager:
Jennifer Stanley, P.Eng.,
Design Team:
Eric Flodrowski, P.Eng.,
Matthew Van Gilst, P.Eng.,
Zam Abdulla, P.Eng.,
Andrew Hall, P.Eng.

STATUS:

Design Completed 2017
Construction Beginning Spring 2018