## Medical Science Unit I B and D Wings Renovation

### Project Description

The Medical Science Unit I building was originally constructed in 1958 and contains approximately 299,000 gross square feet of administrative and wet lab research space. This project will renovate and repurpose approximately 60,000 gross square feet in the B and D wings on levels 3, 4, and 5 for the Medical School's Computational Medicine and Bioinformatics department and several other Medical School units. The renovation will convert obsolete wet lab research space into an efficient and collaborative dry and computational research environment.

This project will also support the university's carbon neutrality goal through interior and exterior design and construction features, including new energy-efficient HVAC equipment, lighting, and control systems. It will also include thermally insulated and tripleglazed windows, maximum insulation of roof and exterior walls, and include new electric power and telecommunication systems. The renovation will address deferred maintenance in both wings, including, heating, ventilation, air conditioning, electrical, life safety system upgrades, exterior envelope, code-related items, and provide accessibility and new finishes throughout.

### Energy Efficiency Measures

- The project is designed with a stretch goal for energy cost savings of 20% compared with an energy code compliant building as defined in ASHRAE 90.1-2013
- Energy recovery wheel and water source heat pumps to reduce energy consumption
- Increased performance of the building envelope through additional insulation on the roof and walls and triple pane, low-e glazing for replacement windows
- Manually operated roll-up shades for all exterior east and west windows
- New LED light fixtures throughout the updated space
- Occupancy and vacancy sensors in private offices, open offices, conference/seminar rooms, storage rooms, toilet rooms, corridors, and janitor closets

### Other Sustainability Measures

- Project site located near public and U-M bus routes & bike networks to encourage use of public transit
- Designed to reduce water consumption by a minimum of 20% beyond Michigan Plumbing Code; savings obtained through use of low-flow plumbing fixtures
- Local and regional materials sought wherever possible
- Low-VOC paints, coatings, adhesives and sealants