Dental Bldg And W K Kellogg Foundation Institute Expansion and Renovation

Project Description

The proposed project includes renovation of approximately 176,000 gross square feet and addition of approximately 48,000 gross square feet. The renovation will address deferred maintenance, including exterior envelope repairs and life safety, electrical, mechanical and plumbing system improvements. An emergency power generator for the building will be installed. The project will create a more welcoming, accessible facility with an improved patient entrance; modern teaching clinics with flexible furniture and equipment that can be reconfigured as needs change. Open, flexible research space will be created to support the school's world class research along with space designed to foster collaboration among faculty and students. A new special needs/inter-professional care clinic to treat patients with complex medical conditions and disabilities will be created.

Energy Efficiency Measures

- The building's design and systems will include a number of energy efficient features with a stretch goal of 15% in the renovated portion and 20% in the new courtyard addition. The energy savings reflects the building's energy performance when compared to an energy code compliant building as defined in ASHRAE 90.1-2013, Appendix G.
- Occupancy sensors for lighting in regularly occupied spaces
- Daylighting strategies and LED lights to reduce lighting load
- Energy recovery on all Air Handling Units
- Energy Recovery on fume hood exhaust
- Variable Volume fume hood exhaust

Other Sustainability Features

- The courtyard addition portion of this project is LEED® certified to the Silver level and achieved 51 points under the LEED for New Construction v2009 rating system.
- Public Transportation Access - the building's location allows users and occupants to utilize public transportation, which reduces single use vehicles on campus
- Close proximity to basic services such as restaurants, banks, and stores to encourage building occupants to walk instead of drive
- Project contains no permanent irrigation, landscaping contains native and drought tolerant plantings
- Low-flow water fixtures have been selected to reduce water consumption
- Low-impact refrigerants to minimize contributions to climate change
- Low-VOC adhesives and sealants, paints and coatings, flooring systems, and composite wood and agrifiber products
- Construction waste to be diverted from landfills when possible
- Materials and products used on the project to be extracted and manufactured within 500 miles of the project site when possible
- Materials used on the project to contain recycled content when possible
- Certified wood materials to be used when possible
- A green building education platform will inform building occupants and visitors