Biological Science Building

Project Description
A new Biological Science Building of approximately 300,000 gross square feet with a connection to the Life Sciences Institute (LSI) Building to increase the utilization of its dock and vivarium functions. A small renovation to LSI will also be necessary for vivarium and related support activities. The new building will house research laboratories, associated support functions, offices, classrooms, vivarium services, and four museums - Anthropology, Natural History, Paleontology and Zoology museums. The laboratories will be constructed in an open plan to allow for much greater collaboration than what can be achieved in the existing buildings, increased flexibility, space utilization and better management. The proposed site of the BSB is adjacent to LSI where both North Hall and the Museums Annex currently exist.

Energy Efficiency Measures
- The building’s design and systems will include a number of energy efficient features that will allow for an estimated 30% energy savings compared with an energy code compliant building as defined in ASHRAE 90.1 - Appendix G
- Exterior envelope rain screen wall system to minimize air leakage even under the negative pressurization required for laboratories
- Frit and high performance coatings on the glazing reduce solar heat gain
- Chilled beams for conditioning spaces
- Preheated outside air with process cooling water to provide precondition makeup air
- Return air from offices and classrooms utilized as makeup air to laboratories
- Conditioned open lab air used to help cool lab equipment spaces
- Energy recovery at fume hoods
- Chillers and heaters to utilize heat recovery to efficiently provide simultaneous heating and cooling
- Use and expansion of existing regional chiller plant capacity
- Occupancy sensors to turn off lights when spaces are un-occupied

Other Sustainability Features
- This project is registered under the LEED® green building certification program with the certification goal of LEED Silver. This project will use the LEED for New Construction v2009 rating system.
- Project site located near public and UM bus routes to encourage use of public transit
- Close proximity to basic services such as banks, theaters and restaurants to encourage building occupants to walk instead of drive
- Irrigation water usage minimized through use of landscape design and use of native and adaptive plants
- Centrally controlled irrigation management system to ensure proper watering through monitoring of flow rates and weather
- Construction waste to be diverted from landfills when possible
- Use of low-VOC paints, flooring, adhesives, and sealants
- Use of regional materials when possible
- Use of recycled materials when possible
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Project Data

• Budget: $261 M
• Schedule: Completion Scheduled for Summer 2018
• Square Feet: 300,000 gross sq. ft.

Status as of March 2016

• Project Status: Construction
• Design Complete: 100%
• Construction Complete: 12%