

University at Buffalo Jacobs School of Medicine and Biomedical Sciences Given ENR Award of Merit

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The \$375-million, 628,000 sf eight-story Jacobs School of Medicine and Biomedical Sciences was designed and built from the ground up to meet LEED Gold requirements.

The 450-ft by 200-ft site spans two city blocks in a tight urban area bounded by an existing building and narrow streets through which emergency traffic carries patients to nearby hospitals.

The structure features a 40-ft deep bathtub foundation. Excavation took place next to an existing Metro station, requiring vibration monitoring. A temporary roof at the fifth-floor slab allowed winter interior progress during steel erection above.

Interior construction also called for creative solutions, like an oversized scaffold that connected the floors between buildings to bridge the atrium during construction.

Additionally, the team restored the area's historic gaslight lanterns by using a 3D printer and Computer Aided Design technology to replicate pieces of the metalwork that were missing or decayed. The lights were then updated with LEDs.

Award Received: Higher Education/Research Award of Merit

Owners: State University Construction Fund and SUNY University at Buffalo

Lead Design Firm: HOK

Construction Manager: The LiRo Group / Gilbane Building Co.

General Contractor: LP Ciminelli

Civil Engineer and Associate Architect: Foit-Albert Associates

Structural Engineer: Ysrael A. Seinuk P.C.

MEP/FP Engineer: Vanderweil Engineers

Geotechnical Engineer: Mueser Rutledge Consulting Engineers

Lighting Designer: Cline Bettridge Bernstein Lighting Design

Commissioning Agent: Facility Dynamics Engineering

Lab Planning: Jacobs Consultancy

Mechanical Subcontractor: John W. Danforth Co.

