



## PERSONNEL QUALIFICATIONS

### Sarah L. Rogers | Senior Associate



#### EDUCATION

- University of Illinois at Urbana-Champaign
  - Bachelor of Science, Civil Engineering, 2003
  - Master of Science, Structural Engineering, 2005

#### PRACTICE AREAS

- Repair and Rehabilitation Design
- Facade Assessment
- Masonry Structures
- Historic Preservation
- Structural Evaluation
- Structural Analysis/Computer Modeling
- Roofing and Waterproofing
- Construction Documents and Specifications
- Construction Observation Services

#### REGISTRATIONS

- Structural Engineer in IL
- Professional Engineer in IL

#### PROFESSIONAL AFFILIATIONS

- The Masonry Society - Technical Activities Committee, Existing Masonry Committee, and Sustainability Committee

#### CONTACT

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#### EXPERIENCE

Sarah Lowe Rogers is experienced in building envelope and structural systems, with an emphasis on masonry and stabilization projects. Her work includes large-scale historic masonry restoration projects, where she has performed field investigation, structural analysis, repair design, creation of construction documents, and construction phase services. She works with many materials, including brick and concrete masonry, steel, and wood, and is well-versed in computer modeling techniques for structural analysis.

While attending the University of Illinois, Ms. Rogers performed research in the seismic rehabilitation of masonry buildings using fiber-reinforced polymers and the comparison of seismic design codes for the Construction Engineering Research Laboratory with the Army Corps of Engineers. Ms. Rogers also performed research in nondestructive detection of rebar corrosion using magnetic fields. Her areas of study included steel, concrete, and wood design, architectural history, and historic preservation.

#### REPRESENTATIVE PROJECTS

##### Repair and Rehabilitation Design

- Chicago Public Schools, Disney II Magnet School - IL: Schematic lintel shoring design for construction
- Holy Name Cathedral - Chicago, IL: Supplemental structural repairs to wood trusses and masonry walls
- Mather Pavilion - Evanston, IL: In situ repairs to hollowcore concrete planks and waterproofing of plaza
- St. Joseph School - Homewood, IL: Foundation stabilization and masonry wall reinforcement
- University of St. Mary of the Lake - Mundelein, IL: Brick, stone, and concrete repairs for historic boathouse

##### Facade Assessment

- 5/3 Bank Building - Nashville, TN: Retrofit anchorage of thin-stone granite cladding on office tower
- Robert A. Young Federal Building - St. Louis, MO: Masonry envelope repairs and window replacement
- St. Boniface Church - Chicago, IL: Architectural and structural condition assessment of historic church

##### Masonry Structures

- Archdiocese of Chicago - IL: Condition assessment and repair recommendations for various masonry structures
- Lake Zurich Middle School - IL: Nondestructive testing and remedial reinforcement of concrete masonry
- Olympia Building - Miami, FL: Stabilization plan for brick masonry and terra cotta facade

##### Historic Preservation

- Miami-Dade County Courthouse - FL: Assessment of historic terra cotta facade, windows, and plaza
- SC Johnson Wax Headquarters - Racine, WI: Masonry/window restoration of Frank Lloyd Wright-designed Administration Building and Research Tower
- Wingspread Residence - Wind Point, WI: Repair of stucco wall finishes and terrace waterproofing at Frank Lloyd Wright-designed residence

##### Structural Analysis/Computer Modeling

- Art Institute of Chicago - IL: Design of steel lateral frame and floor framing for archives addition
- Big Dig - Boston, MA: Inspection/modeling of existing concrete and steel-framed tunnel structures
- Discover Financial Headquarters - Northbrook, IL: Design of cable-support structure for rotunda exhibit
- Federal Reserve Bank of Chicago - IL: Analysis of existing concrete slabs and structural steel floor framing