PERSONNEL QUALIFICATIONS

Kimberly G. Lazar | Associate III

EDUCATION

- Northeastern University
  - Bachelor of Science, Civil Engineering, 2020
  - Master of Science, Sustainable Building Systems, 2020

PRACTICE AREAS

- Building Science
- Design and Construction Services
- Assessments and Investigations
- Historic Preservation
- Repair and Rehabilitation
- Facade Assessment
- Building Enclosure Consulting

REGISTRATIONS

- Living Future Accreditation
- NFRC Certified Simulator

PROFESSIONAL AFFILIATIONS

- Association of Preservation Technology - Northeast Chapter
- Boston Society of Architects - Committee on the Environment, board member
- International Living Future Institute

CONTACT

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EXPERIENCE

Kimberly Lazar is a building enclosure consultant specializing in the evaluation, repair, and energy retrofit of existing buildings. She has experience in design, investigation, building enclosure performance testing, building science analysis, construction administration, and commissioning for historic and contemporary buildings.

Ms. Lazar has presented on the design considerations for adding interior insulation to mass masonry walls from various perspectives, including but not limited to how the new stretch energy code drives the urgency for increasingly scrutinous insulation selection. She has experience using heat and moisture transfer finite element modeling programs, such as WUFI and THERM, to analyze proposed design assemblies for thermal bridging, condensation, mold growth potential, and increased risk of masonry freeze-thaw damage. Ms. Lazar also possesses expertise in conducting full-building energy models, envelope backstops, and other performance analytics-related calculations.

REPRESENTATIVE PROJECTS

Building Science

- Manufacturing Facility - Andover, MA: Energy code consulting, U-factor assembly calculations, and envelope backstop
- Federal Reserve Bank of Philadelphia - PA: Partial building air testing and shoebox energy modeling for order-of-magnitude energy savings of retrofits
- Tufts University, Hill Hall - Medford, MA: Masonry condition assessment and parametric full building energy models for life cycle cost analysis of system repair/replacement *
- Wellesley College, Severance Hall - Wellesley, MA: Hygrothermal modeling of existing exterior mass masonry walls *

Design and Construction Services

- Princeton Prospect House - Princeton, NJ: Below-grade waterproofing, masonry restoration, and architectural woodwork repair drawings and specifications *
- Wesleyan University - Middletown, CT: Masonry repairs and below-grade waterproofing drawings and specifications for existing 1850s building and peer review of new addition *
- Taunton Alternative High School - Taunton, MA: Window replacement and masonry repair design drawings and specifications. Construction period services for windows, masonry, and roofing *
- Arsenal on the Charles Buildings 1, 2, and West Garage - Watertown, MA: Design documents and energy code backstop calculations for new office/lab buildings *
- Boston Public Library, Faneuil Branch - Brighton, MA: Construction period services for pre- and post-applied below-grade waterproofing *

Assessments and Investigations

- 246–250 Brattle Street - Cambridge, MA: Condition assessment of 1900s masonry building and leakage investigation of existing EPDM roof assembly *
- Massachusetts Institute of Technology (MIT), Building W84 - Cambridge: Leakage investigation *
- MIT, Building 3 Ziggurat - Cambridge: Stone masonry condition assessment *
- MIT, Building 34 - Cambridge: Leakage investigation of wood curtain wall *
- MIT, Main Group Building 7 Dome - Cambridge: Leakage investigation *
- University of Massachusetts Amherst, DuBois Library: Condition assessment, exploratory openings, and preliminary masonry repair details *
- Brewster's Woods - Concord, MA: Condition assessment and feasibility study report for museum upgrades to an existing wood-framed home *

** Indicates work before WJE*