

Robert Peggarr | Associate III



EDUCATION

- University of Wisconsin-Platteville
 - Bachelor of Science, Civil Engineering, 2012
- Iowa State University
 - Master of Science, Civil Engineering, 2014
 - Doctor of Philosophy, Civil Engineering, 2017

PRACTICE AREAS

- Structural Analysis
- Repair and Rehabilitation
- Failure/Damage Investigations
- Structural Evaluation
- Facade Assessment
- Facade Access and Fall Protection

REGISTRATIONS

- Professional Engineer in WI

PROFESSIONAL AFFILIATIONS

- American Wind Energy Association

CONTACT

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EXPERIENCE

Since joining WJE in 2017, Robert Peggarr has participated in numerous projects involving structural condition assessments, field investigation of structures, and design and rehabilitation for a wide variety of structure systems and components as well as third-party peer review of structural designs. He has primarily worked with reinforced concrete, steel, aluminum, and wood elements for building systems, including facades, shear walls, structural framing, and foundations. He has evaluated and tested both new and existing facade access and fall protection systems per OSHA regulations.

Dr. Peggarr also specializes in the assessment of utility scale wind turbine foundations for both new installations and repowering projects. His doctoral research involved the design of precast concrete wind turbine tower components.

REPRESENTATIVE PROJECTS

Structural Analysis

- Missouri State Capitol - Jefferson City: Structural review of existing concrete and steel framing capacity to support scaffold loads
- High-Rise Office Building - Chicago, IL: Analysis of steel bar joints and one-way concrete slab for increased live loads
- Public Transportation Windbreaks - Chicago, IL: Analysis of windbreak glass and connection components to ensure adequate capacity

Repair and Rehabilitation

- The Salvation Army, Various Buildings - Midwest U.S.: Condition assessment and repair recommendations of a variety of structure types
- Mercy Medical Parking Garage Assessment - Des Moines, IA: Condition assessment and repair recommendations
- Historic Residence - Chicago, IL: Structural condition assessment of wood framing and repair recommendations

Failure/Damage Investigations

- Muncie Fieldhouse – Muncie, IN: Investigation of parapet collapse
- Carson's Retail Store - Matteson, IL: Investigation of roof collapse
- Residential House Collapse - Chicago, IL: Investigation of house wall and roof collapse
- Demolition of Damaged Wind Turbine Towers - IL, NE, TX: Development of safe demolition plans for damaged wind turbine towers

Structural Evaluation

- Mesteno Wind Project - TX and Frontier II Wind Project - OK: Independent review of new utility-scale wind turbine foundation designs
- Crystal Lake Wind Farm (IA) and Bobcat Bluff Wind Farm (TX): Independent review of existing utility-scale wind turbine foundations for repowering

Facade Assessment

- Field Building - Chicago, IL: Limestone facade assessment and repair design
- Various Buildings - Chicago, IL: Annual facade ordinance inspections

Facade Access and Fall Protection

- One Magnificent Mile - Chicago, IL: Design and load testing of davit bases and structural anchorages
- Worcester House - Chicago, IL: Load testing and design of new anchorage frames
- Low-Rise Office Building - Naperville, IL: Load testing of atrium track system for glass skylight access
- Mid-Rise Condominiums - Chicago, IL: Design and load testing of new anchorages mounted to historic structural framing
- Various High-Rise Office Buildings - Chicago, IL: Load testing of existing anchorages