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# Demetria E. Boatwright

P.E., S.E.

Engineer I

## About Demetria

Demetria Boatwright is a member of RRJ's structural engineering staff specializing in the evaluation, investigation, and repair design of distressed buildings, and structures.

She has participated in numerous condition assessments and investigation projects involving cast-in-place, precast, and post-tensioned concrete, masonry, steel, and timber structures, including historic timber structures. Her investigative responsibilities consist of structural component surveys, structural strength evaluations, nondestructive testing, building code compliance, and material sampling. Project investigations have included destructive openings; concrete crack and delamination mapping; documentation of distressed connections, steel corrosion, and wood decay; and masonry wall evaluations.

Demetria has also performed structural analysis, finite element modeling, and nonlinear analysis for a range of building types and has provided litigation support services related to structural failures.

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## Education

Master of Engineering in Structural Engineering, 2018  
Illinois Institute of Technology

Bachelor of Science in Architecture Engineering, 2018  
Illinois Institute of Technology

## Licensure

Structural Engineer IL

Professional Engineer IL, WI

## Certifications

Enrolled Professional Engineer Intern, IDFPR Credential ID 061.040079, Issued 2018

Construction Documents Technologist (CDT)

## Professional Affiliations

National Council of Structural Engineers Associations (NCSEA)  
Secretary, Resilience Committee

## Professional Affiliations cont.

Structural Engineers Association of Illinois (SEAOI)  
Committee Member, Women in Structural Engineering (WiSE)

Professional Women in Construction  
Chicago Chapter Member

Habitat for Humanity Chicago,  
Committee Member, Women Build Planning Committee

## Honors & Awards

Construction Specifications Institute, Chicago  
Chapter Construction Documents Technologist (CDT) Scholarship, 2019



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## Publications | Presentations

"Diary of a BECxP, Delegated Design Dilemmas," International Institute of Building Enclosure Consultants 2021 International Convention and Trade Show, P.E. Reicher and D.E. Boatwright, September 19, 2021

"It's all Part of the Plan! Capital Asset Evaluations for Aging Facilities and Building Enclosures," Healthcare Engineers Society of Northern Illinois (HESNI) Annual Conference, P.E. Reicher and D.E. Boatwright, June 10, 2021

"Overview and Recommendations for Analytical and Experimental Methodologies for the Fatigue Fracture of Human Bones," *Journal of Orthopaedics*, D.E. Boatwright and M. Modares, April 13, 2021

"Design Considerations for Building Movements Caused by Volume Change," *The Construction Specifier*, G.R. Mulholland and D.E. Boatwright, November 1, 2020

"Delegated Design Done Right," *Building Enclosure*, K.R. Hoigard and D.E. Boatwright, April 5, 2019