

Mr. David P. Kierpiec specializes in forensic inspections and retrofit designs of structures damaged by fire, wind, and tree/car impacts. He has performed evaluations of deteriorated structures, including both wood- and steel-framed balconies, wood-framed staircases, wood-framed residential buildings, and steel- and concrete-framed commercial buildings.

Mr. Kierpiec has bridge design and assessment experience, along with thorough knowledge of the latest AASHTO code. He also has teaching experience from being a Teaching Assistant of reinforced concrete at the University of Illinois Urbana-Champaign.

Education

MS, Civil Engineering (Structural). University of Illinois Urbana-Champaign. 2022

BS, Civil Engineering (Structural). University of Illinois Urbana-Champaign. 2021

Licenses & Certifications

- State of Kentucky P.E. License 41269
- State of Wisconsin P.E. License 102366-6
- Aerial Boomlift 3b & Scissor Lift 3a Operator Certification
- OSHA 10-Hour Construction Safety Training Certification
- OSHA 30-Hour Construction Safety Training Certification
- OSHA Confined Space Training
- Scaffold (Supported/Suspended) User & Erector Hazards Training Certification
- Transportation Worker Identification Credential (TWIC) Card
- International Code Council Certified Residential Building Inspector

Positions Held

Engineering Systems Inc., Aurora, Illinois

- Senior Staff Consultant, 2025 – Present

Contact Information

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(708) 315-3838

ESi Aurora

4215 Campus Drive
Aurora, IL 60504

Areas of Specialization

- Bridge Condition Assessment
- Bridge Analysis & Design
- Residential & Commercial Damage Assessment
- Repair Design
- Scaffolding System Design
- Shoring Design
- Structural Analysis & Design

- Staff Consultant, 2023–2024

Bollinger, Lach & Associates, Inc., Itasca, Illinois

- Structural Engineer, 2022–2023

University of Illinois, Champaign, Illinois

- Teaching Assistant, CEE 461: Reinforced Concrete, 2021–2022

Bollinger, Lach & Associates, Inc., Itasca, Illinois

- Structural Engineering Intern, Summer 2021

Engineering Systems Inc., Aurora, Illinois

- Structural Engineering Intern, Summer 2020

University of Illinois, Champaign, Illinois

- Course Assistant, TAM 210/211: Statics, 2019–2020

Professional Affiliations/Honors

American Society of Civil Engineers

- Member, 2023 – Present

American Institute of Steel Construction

- Member, 2023 – Present

Structural Engineering Institute of ASCE

- Member, 2023 – Present

Structural Engineers Association of Illinois

- Member, 2025 – Present

Wentcher Foundation

- CPS Wentcher Scholar, Class of 2021

Chicago Engineers' Foundation

- Chicago Engineers' Foundation Scholar, Class of 2021

Concrete Education and Research Foundation

- Scholarship Recipient, 2020

Deep Foundation Institute

- Scholarship Recipient, 2019

Chicago Association of Spring Manufacturers

- Scholarship Recipient, 2018 & 2019

University of Illinois Urbana-Champaign

- Engineering Dean's List, 2017–2021
- CEE Student Ambassador, 2020–2021
- CEE Student Committee Member, 2018–2020

Presentations

“Scaffolding, Shoring, Fires, Collapses, and Everything in Between,” J. Riddle, **D. Kierpiec**, and M. Monaghan, ASCE General Meeting, University of Illinois at Urbana-Champaign Student Chapter. November 2025.

“A Structural Engineer’s Role in Tornado, Fire, and Scaffolding Disasters,” J. Riddle and **D. Kierpiec**, ASCE General Meeting, University of Illinois Urbana-Champaign Student Chapter, November 2024.

“An Introduction into the World of Forensic Engineering,” J. Riddle and **D. Kierpiec**, ASCE General Meeting, University of Illinois Urbana-Champaign Student Chapter, February 2024.