



PERSONNEL QUALIFICATIONS

Jac Cornelius | Associate III



EXPERIENCE

Since joining WJE in 2019, Jac Cornelius has contributed to numerous projects with a focus on building enclosure evaluations, water leakage investigations, design development, and construction observation. His focused experience and areas of expertise are in various types of roofing and waterproofing systems used in contemporary and historic buildings, including built-up and single-ply membranes as well as fluid-applied systems for plaza applications. Mr. Cornelius also specializes in the design and performance of below-grade waterproofing systems, including HDPE, bentonite, and fluid-applied membranes in both blindside and backfilled applications.

Prior to joining WJE, Mr. Cornelius worked for a subcontractor specializing in the design and installation of roofing and waterproofing systems on high-profile projects in Chicago.

REPRESENTATIVE PROJECTS

Roofing and Waterproofing

- 110 North Wacker Drive - Chicago, IL: Construction period services for new plaza waterproofing installation
- 310 South Canal Street - Chicago, IL: Independent design review of new waterproofing systems
- 131 South Dearborn Street - Chicago, IL: Water leakage investigation and repair design for terrace roof and adjacent vestibule
- Metropolitan Tower - Chicago, IL: Water leakage investigation at roof
- Dearborn Tower - Chicago, IL: Roofing replacement design
- 1 Hanalei Bay - Kauai, HI: Roofing and waterproofing design for site redevelopment
- The Old Post Office - Chicago, IL: Construction observation for roofing replacement
- Old Cook County Hospital - Chicago, IL: Design development and construction observation during roofing replacement
- Olympia Fields Country Club - Olympia Fields, IL: Roofing replacement design

- Wolf Point East Tower - Chicago, IL: Development of shop drawings for blindside below-grade waterproofing system *
- Illinois Institute of Technology, Kaplan Innovation Center - Chicago, IL: Development of shop drawings for roofing systems *

Repair and Rehabilitation Design

- Clubhouse Apartments - Louisville, KY: Development of repair drawings for facade and roofing systems

Nondestructive Evaluation

- University of Iowa, Petersen Hall - Iowa City, IA: Impedance scan of roof areas
- Kenilworth Union Church - Kenilworth, IL: Impedance scan and construction observation for roofing repairs
- Millennium Station - Chicago, IL: Water leakage investigation and construction period services for repairs

Building Enclosure Consulting

- CoreSite Data Center - Chicago, IL: Independent design review and construction period services for a new data center; roofing condition survey and impedance scan
- Iowa State University, Student Innovation Center - Ames, IA: Impedance scan of roof as part of building enclosure commissioning services
- Iowa State University, Advanced Teaching and Research Building - Ames, IA: Impedance scan of roof as part of building enclosure commissioning services
- Rush University Medical Center, New Ambulatory Building - Chicago, IL: Independent design review and construction period services for a hospital building

* Indicates with other firms

EDUCATION

- University of Minnesota
 - Bachelor of Science, Architecture, 2007
- Illinois Institute of Technology
 - Master of Engineering, Architectural Engineering, 2021

PRACTICE AREAS

- Roofing and Waterproofing
- Repair and Rehabilitation Design
- Nondestructive Evaluation
- Building Enclosure Consulting
- Computer-Aided Drafting

PROFESSIONAL AFFILIATIONS

- American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)

CONTACT

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