



PERSONNEL QUALIFICATIONS

Kelly E. Cronin | Senior Associate



EDUCATION

- Carnegie Mellon University
 - Bachelor of Science, Civil Engineering, 2006
- University of California, Berkeley
 - Master of Engineering, Structural Engineering, 2008
 - Minor, Geotechnical Engineering, 2008

PRACTICE AREAS

- Repair and Rehabilitation
- Roofing and Waterproofing
- Design-Assist
- Construction Troubleshooting
- Facade Failure and Leakage
- Windows and Curtain Walls
- Structural Analysis
- Corrosion Assessment

REGISTRATION

- Professional (Civil) Engineer in DC
- Professional Engineer in MD and VA

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers - National Capital Section, president

CONTACT

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EXPERIENCE

Kelly Cronin joined WJE as a summer intern in the San Francisco office in 2007 and joined the Washington, D.C. office as a full-time associate in 2008. Ms. Cronin has extensive experience on a broad range of projects related to construction observation, field quality assurance, condition surveys, structural investigations, and evaluations of new and existing structures.

Ms. Cronin's work has included the investigation and repair design for various building types to address bulk rainwater penetration, condensation, and moisture-related deterioration of above- and below-grade building enclosure materials, components, and systems. These systems have included steel, concrete, timber, brick masonry, cast stone, exterior insulation finishing system (EIFS), and aluminum/glass curtain walls.

REPRESENTATIVE PROJECTS

Roofing and Waterproofing

- Four Seasons Royal Suite Terrace - Washington, D.C.: Water penetration investigation, development of repair documents, and on-site quality assurance of terrace waterproofing assembly
- Arlington County Courthouse - VA: On-site observation and quality assurance of horizontal waterproofing assembly installation in pedestrian plaza
- Georgetown University Pre-Clinical Science Building Plaza - Washington, D.C.: Water penetration investigation and development of repair documents for waterproofing above below-grade office space

Repair and Rehabilitation

- American Academy of Orthopedic Surgeons - Washington, D.C.: Evaluation and design of supplemental steel framing and horizontal waterproofing
- 1909 K Street Parking Garage - Washington, D.C.: Development of repair documents and construction period services for below-grade concrete garage repairs
- Crystal Square 5 - Arlington, VA: Assessment and installation oversight of high-performance coating application

Structural Analysis

- Blair East and House Apartments - Silver Spring, MD: Design of entrance canopies, retrofit upgrades, and stabilization of concrete balconies
- Chesapeake Bay Foundation - Annapolis, MD: Design of temporary bracing and structural members prior to and during timber replacement project

Facade Failure and Leakage

- Howard Hughes Medical Institute Janelia Farms Campus - Ashburn, VA: Facade and low-roof water penetration investigation
- West End 25 - Washington, D.C.: Water penetration investigation of curtain wall and metal panel interfaces at balconies
- Chase Point - Washington D.C.: Oversee repairs to address construction defects

Construction Troubleshooting

- The Pearl - Silver Spring, MD: On-site observation and quality assurance of building envelope for new apartment building
- Ingleside at King Farm - Rockville, MD: Building enclosure consulting services during design and construction of additions to existing senior living facility

Windows and Curtain Walls

- 1660 International Drive - McLean, VA: Water penetration investigation of multistory curtain wall
- The Hepburn - Washington, D.C.: On-site observation and quality assurance of unitized curtain wall installation

Corrosion Assessment

- Mass Transit Aerial Rail Structures - Washington, D.C.: Weld and anchor bolt assessment of steel box girders
- Oklahoma Department of Transportation: Ground-penetrating radar (GPR) and structural evaluation of post-tensioned concrete box girders
- Chalk Point Cooling Tower Units 3 and 4 - Aquasco, MD: Delamination and crack survey of four hundred-foot-tall reinforced concrete hyperbolic cooling towers