



## PERSONNEL QUALIFICATIONS

### Kelly E. Cronin | Senior Associate



#### EXPERIENCE

Kelly Cronin joined WJE as a summer intern with 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. She has performed structural analyses of most construction materials, including concrete, steel, timber, and masonry.

Ms. Cronin's work has also included clay brick masonry facade rehabilitation; 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. Ms. Cronin has also performed construction observation services for several high-rise multifamily residential buildings, including preconstruction mock-up performance testing, design refinement, and field quality assurance services.

#### REPRESENTATIVE PROJECTS

##### 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
- Four Seasons Royal Suite Terrace - Washington, D.C.: Water penetration investigation, development of repair documents, and onsite quality assurance of terrace waterproofing assembly

##### Collapses

- From The Heart Church - Suitland, MD: Collapse investigation and documentation of failed member deconstruction

##### Construction Troubleshooting

- Arlington County Courthouse - VA: Onsite observation and quality assurance of horizontal waterproofing assembly installation
- DuPont DC Residential Tower - Washington, D.C.: Onsite observation and quality assurance of unitized curtain wall installation
- One Loudoun - Ashburn, VA: Onsite observation and quality assurance of building envelopes for several buildings in new town center development

##### Facade Failure and Leakage

- Howard Hughes Medical Institute Janelia Farms Campus - Ashburn, VA: Facade and low-roof water penetration investigation
- 1660 International Drive - McLean, VA: Water penetration investigation of multistory curtain wall

##### Historic Preservation

- Virginia State Supreme Court - Richmond: Evaluation and water testing of historic steel windows and limestone facade
- Marine Corps Home of the Commandants - Washington, D.C.: Evaluation of historic timber and masonry framing

##### Structural Analysis

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

##### Corrosion

- Mass Transit Aerial Rail Structures - Washington, D.C.: Weld and anchor bolt assessment of steel-box girders
- Oklahoma Department of Transportation: 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 400-foot-tall reinforced concrete hyperbolic cooling towers

#### 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
- Collapses
- Design-Assist
- Construction Troubleshooting
- Facade Failure and Leakage
- Historic Preservation
- Structural Analysis
- Corrosion

#### REGISTRATION

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

#### PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers, president of National Capital Section Younger Members Forum
- Washington Building Congress

#### CONTACT

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