

Robert Bee | Technician II



PRACTICE AREAS

- Construction Materials
- Laboratory Evaluations
- Corrosion

REGISTRATIONS

- ACI Certified Aggregate Testing Technician - Level I
- ACI Certified Concrete Laboratory Testing Technician - Level I
- ACI Certified Concrete Strength Testing Technician

CONTACT

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EXPERIENCE

Rob Bee has a construction background and is experienced in testing and evaluating construction materials including concrete, aggregates, mortar, grout, and reinforcing steel.

Working in WJE's concrete, petrography, and chemistry laboratories, Mr. Bee primarily assists projects with sample preparation and destructive and nondestructive testing. He performs test methods such as concrete compressive strength, plastic concrete testing, aggregate gradations, aggregate absorptions, and specific gravity. He performs sample preparation through cutting, grinding, lapping, and polishing methods. Additionally, he helps maintain equipment and calibrations to support laboratory accreditations.

REPRESENTATIVE PROJECTS

Construction Materials

- I-90 Skyway - Hammond, IN: Extraction of cores and sample preparation for chemical and petrographic analysis
- The Rolex Building - New York, NY: Creep testing of high-strength concrete mixes
- Illinois Tollway - Chicago: Bond testing of bridge deck overlay

Laboratory Evaluation

- Physical Testing of Concrete: ASTM - C39, C78, C512, C1581, C1583, and C1609
- Concrete Durability: ASTM - C666 and C1645
- Physical Testing of Aggregates: ASTM - C40, C117, C127, C128, C136, C566, and C702

Corrosion

- ACI 222: Round robin testing of new method for estimating chloride threshold of reinforcing steels