Job Description

Job title: Senior Structural Engineer	Status: Exempt
Reports to: President	Department: Engineering / Architecture
Position based in: Houston, Texas	Job number: 10-11.15

EDI Building Consultants, Inc. (EDIBC) provides specialized engineering experience and expertise for existing and historic buildings. Our strength is in providing quality, integrated diagnostic services; construction monitoring; failure investigations; remedial design and structural evaluations. The extensive experience we have gained from the investigation of hundreds of structures in a wide variety of industry applications allows us to offer superior professional services in the evaluation of designs for new structures and the renovation of existing structures.

Our mission is to provide effective solutions for asset protection and we are passionate about client commitment, technical excellence, innovation, teamwork and effective communication.

Position summary

This senior level position is responsible for the oversight of complex construction and renovation projects in a variety of industry sectors including commercial, civil, municipal, industrial, educational and government. Projects will vary in locality from local and regional work to interstate opportunities.

Primary responsibilities

- Conduct field investigations and analyze failures of varying construction related problems in order to determine the cause, origin and extent of failures and defects of building envelopes, roofs, walls and glazing
- Perform structural engineering design and project management for a multitude of projects (including, but not limited to, those listed in "Project types" below)
- Prepare and review design calculations of structural systems
- Prepare technical reports
- Prepare contract documents for remedial design, including technical specifications and drawings
- Prepare bid documents, addenda and change orders
- Utilize advanced structural engineering software tools
- Deliver professional presentations, develop client relationships and promote EDIBC to client groups
- Support conclusions by appropriate expert testimony in legal proceedings
- Maintain technical and professional knowledge through continuing education, remaining current with relevant professional publications, establishing professional networks, and participating in professional societies
- Assist in training and development of technicians and other staff members
- Successfully manage client relationships
- Actively seek and acquire new business opportunities
- Generate proposals for business development
- Participate in professional organizations and share insights gained from participation with team and Principals
- Generate specifications
- Perform relevant administrative project requirements including client communications

Project types

- Exterior Walls and Windows: study aesthetic, structural, and weatherproofing issues of the building envelope.
- Roofing: perform evaluations of existing roof system performance, and identify construction deficiencies or defects that might affect future roof system performance.
- Parking Garages: evaluate structural and weatherproofing issues of parking garages and surface parking lots.
- Water Infiltration Studies: perform studies and diagnosis of water infiltration through the exterior building envelope, including below-grading waterproofing, exterior walls and windows, and roof systems.
- Structures: evaluate code compliance, strength, and stability issues of the primary building frame.
- Suspended Scaffolding: evaluate the structural condition and federal OSHA regulation compliance of permanent building components used by contractors for exterior building maintenance and window washing.
- Historic preservation and renovation

Key competencies (knowledge, skills, abilities and behaviors required)

- Exceptional written and verbal communication skills
- Strong technical skills
- Timely and accurate attention to detail
- Professional, positive demeanor
- Dependability in meeting deadlines
- Ability to effectively manage staff
- Ability to work independently
- Ability to work in an outdoor environment

Interacts with

- Internally: this position routinely interacts with all employees of EDIBC
- Externally: this position routinely interacts with EDIBC clients, vendors and trade organizations.

Experience and education requirements

- Bachelors or Masters Degree in Structural Engineering
- 7+ years experience
- Demonstrated experience in advanced structural analysis
- Broad knowledge of building codes
- Experience with complex structural rehabilitation and structural investigations associated with building failures
- Demonstrated success in developing and managing a wide variety of clients
- Forensic litigation, expert witness or deposition experience is a plus
- Proficient user of common business technologies (Microsoft Outlook, shared drives, etc.)

Licensing or Certifications required

- Current Professional Engineer (PE) license
- 10-hour OSHA certification is required (can be provided by EDIBC)

Relevant workplace considerations

- Must have reliable personal transportation and maintain a current state driver's license
- Must have the physical ability to lift or move items weighing up to 50 pounds
- Must have the physical ability to climb ladders, inspect roofs, and maneuver in and around buildings in confined spaces
- Must be capable of working at high elevations
- Work hours: Monday through Friday from 8:00am to 5:00pm or as designated by client and business needs
- Travel: travel to client sites as needed, which may include interstate travel; periodic travel to EDIBC's Houston headquarters as required

Compensation

- Commensurate with experience

Benefits

- Competitive Benefits Package

This job description does not imply an employment contract, nor is it intended to include every duty, task or instruction for which the employee is responsible. Other tasks may be assigned, based on business needs and the employee's supervisor's request.

EDI Building Consultants, Inc. is an Equal Opportunity Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, protected veteran status or disability status.