

Job Title: CIVIL ENGINEER VII - STRUCTURAL SERVICES SECTION CHIEF - IPR#46277

Agency : Department of Transportation

Closing Date/Time: 01/27/2023

Salary: \$7,795 - \$11,600 Monthly

Job Type: Salaried Full Time

County: Sangamon

Number of Vacancies: 1

Plan/BU: NR916 - Protech Teamsters

***This position is covered by the Revolving Door Prohibition Policy.**

This position is a union position; therefore, provisions of the relevant collective bargaining agreement/labor contract apply to the filling of this position.

All applicants who want to be considered for this position MUST apply electronically through the illinois.jobs2web.com website. State of Illinois employees should click the link near the top left to apply through the **SuccessFactors employee career portal.**

Applications submitted via email or any paper manner (mail, fax, hand delivery) will not be considered.

Agency Mission Statement

The Illinois Department of Transportation is seeking to hire a Structural Services Section Chief.

The IDOT team works diligently to provide safe, cost-effective transportation for Illinois in ways that enhance quality of life, promote economic prosperity and protect our environment. We are problem solvers and leaders, constantly searching for innovations and improvements in support of our commitment to providing the best multimodal transportation system for Illinois.

Our team fosters a culture of inclusivity. We value diversity and hold ourselves to the highest ethical standards as we work together for a common purpose. Team members frequently collaborate with colleagues and others outside the department to best meet customer needs.

The department offers extensive training and career advancement opportunities. Employees also receive a robust benefit package including:

- Monday-Friday work schedule
- Flexible work schedules are available in many program areas.
- Health, Life, Vision, and Dental Insurance
- Pension Plan
- (10) Weeks paid Maternity/Paternity Leave
- Deferred Compensation Program and other pre-tax benefit programs (Medical/Daycare)
- Employees earn (12) paid Sick Days annually.
- New Employees earn (10) paid Vacation Days their first year of service and can earn up to (25) paid Vacation Days annually.
- Employees earn (3) paid Personal Days annually.
- (13-14) paid holidays annually (based on start date)
- Tuition Reimbursement

We invite qualified applicants to apply to become part of our team. We are confident that you will take pride in serving Illinois and its residents and visitors.

Job Responsibilities

This position is accountable for managing and directing diverse and highly technical structural engineering activities and for developing departmental policies and procedures relating to the structural investigations of existing bridges, development or review of repair plans, determination of bridge load-carrying capacity, establishment of posted bridge weight limits, evaluation of overweight permit vehicle movements, review of proposed legislation, maintenance of bridge plan archives and data, review and approval of local agency bridge projects and implementation, and operation of a Bridge Management System (BMS) as part of the department's overall Transportation Asset Management Program (TAMP). This position provides oversight of the bridge

inspection procedures utilized by the department and local agencies to ensure bridge safety and compliance with the National Bridge Inspection Standards (NBIS).

Annual bridges program: \$130 M

Annual projects managed: 150 - 200 repair plans produced or reviewed, 300 local agency bridge projects reviewed, 300 bridge safe load-carrying capacities determined, 900-1000 overweight vehicle permits evaluated

This position reports to the Engineer of Bridges and Structures. Reporting to this position are the Local Bridge Unit Chief, Bridge Investigations and Repair Plans Unit Chief, Bridge Ratings and Permit Unit Chief, and Bridge Management and Inspection Unit Chief.

This position operates in an environment of establishing policies and procedures to ensure safety inspections are routinely and properly conducted for bridges in accordance with federal regulations and department policies. This position ensures inspections are conducted to determine the safe bridge load-carrying capacity of all structures carrying public roadways, reviews local agency bridge projects to ensure proper development, and verifies repair and maintenance projects for state bridges are effective in addressing structural deficiencies. The incumbent directs, manages, and coordinates Structural Services Section activities including investigating and evaluating damaged or deteriorated bridge members; implementing structural repair plans; reviewing preliminary bridge design and hydraulic reports for local agency bridge projects; performing field inspections and analysis to determine safe bridge load-carrying capacities; determining bridge weight limits for deficient bridges; evaluating the effect of proposed legislation on statewide bridge infrastructure; and training and uniformity in statewide reporting of bridge safety inspections. The incumbent develops and administers policy to carry out the above responsibilities in part through maintenance of the Structural Services Manual and the Illinois Department of Transportation (IDOT) Bridge Preservation Guide. S/He oversees development, implementation, and administration of the BMS for the purposes of optimizing structure asset management and meeting asset management requirements. S/He ensures integrity of the department's bridge inventory data in the Illinois Structure Information System (ISIS) in accordance with the federal Specifications for the National Bridge Inventory (SNBI).

(Job Responsibilities continued)

Typical problems include the necessity to administer an extremely complex program, managed by a staff of highly trained engineers and technicians, that will ensure all construction, design, and maintenance concept applications are in accordance with the American Association of State Highway and Transportation Officials (AASHTO) specifications and established state and federal policies and structural codes. The greatest challenge for this position lies in directing the development of departmental policies and procedures for bridge maintenance and preservation, structural ratings, investigations, repair plans, inspections, and posting of weight limits for deficient bridges.

The incumbent is personally responsible for management of all Structural Services Section activity; final approval of structural plans, policies, and procedures for maintenance, repair, and inspection of state-maintained bridges; and direction and development of measures to ensure bridge safety inspections are properly conducted for state and local agency bridges. Other personal responsibilities include the evaluation of requests for overweight vehicle permits, movement of heavy construction equipment, and approval of preliminary and final design documents and plans for local agency projects. The incumbent assigns projects to subordinates commensurate with their engineering expertise, monitors their progress, authorizes training of subordinates in the performance of their duties, directs development and maintenance of the Structural Services Manual and the IDOT Bridge Preservation Guide, determines operational policies, defines work responsibility, and formulates the Structural Services Section's operating budget.

(Job Responsibilities continued)

The incumbent accomplishes accountabilities through the following staff:

Local Bridge Unit Chief who provides administrative and technical expertise to local agencies in solving problems related to the development of local agency bridge projects, repairs to address bridge deterioration, investigations to determine safe bridge load-carrying capacities, and establishing acceptable bridge weight limits for use in posting deficient local agency structures.

Bridge Investigations and Repair Plans Unit Chief who is responsible for investigations to determine remedies to address structural deficiencies affecting the safety of bridges under state jurisdiction, preparation and review of all

repair and rehabilitation plans prepared to address structural deficiencies, and maintenance of the bridge plan archive for structures maintained by the department.

Bridge Ratings and Permit Unit Chief who is responsible for ensuring that safe load-carrying capacities are determined for all structures under state jurisdiction, establishing acceptable bridge weight limits for use in posting deficient state structures, and evaluating applications for overweight vehicle permits to ensure damage affecting safe bridge load-carrying capacity will not occur due to the passage of those vehicles.

Bridge Management and Inspection Unit Chief who is responsible for development and implementation of a BMS for structure asset management purposes, includes oversight and implementation of bridge preservation policy. S/He is responsible for development and implementation of inspection policy to meet requirements of the NBIS through maintenance of appropriate sections of the Structural Services Manual, tracking of timeliness of all inspection types required by policy, and meeting NBIS and NBIS 23 metrics requirements including routine, fracture critical, underwater, complex, in-depth, and special inspections. This includes management of the functions and duties of a statewide bridge inspection crew and the equipment responsible for all necessary types of inspections of major bridge structures throughout the state for safety inspection, report preparation, compliance with the NBIS, and for gathering any information needed for other purposes including, but not limited to scoping and programming. S/He develops and oversees inspector training, quality control and quality assurance of the bridge inspection program in Illinois, and maintenance of bridge inventory data integrity in the Illinois Highway Information System (IHIS) in accordance with the SNBI.

(Job Responsibilities continued)

The incumbent has broad responsibility for resolving both technical and managerial problems involving his/her area of responsibility. S/He is considered a department authority in bridge inspection, repair, inventory, maintenance, and other structural services. The incumbent is constrained by state, federal, and AASHTO rules, regulations, specifications, policies, and procedures. Only critical problems are referred to the Engineer of Bridges and Structures for discussion or resolution.

Internal contacts include personnel in the regional offices, district offices, central bureaus of Local Roads and Streets, Construction, Design and Environment, Materials, Operations, Information Processing, and the Office of Planning and Programming, as well as other units and sections within the Bureau of Bridges and Structures.

External contacts include the Federal Highway Administration (FHWA), state universities, AASHTO officials, counties, municipalities, local agency associations, suppliers, and manufacturers of materials used in structures, outside consultants, national structural engineers, state officials, and legislators. Occasional statewide travel with overnight stays is required.

The effectiveness of this position is measured by the incumbent's ability to direct the timely maintenance of bridges and structures throughout the state; development and implementation of sound structural policies and procedures; and on his/her ability to provide guidance and direction in the resolution of extremely complex, state-of-the-art structural problems.

Principal Accountabilities

1. Provides direction and oversight for all activities related to the performance of inspections to ensure bridge safety and compliance with the NBIS.
2. Directs structural investigation, analysis, and preparation of repair plans for bridges and structures maintained by the department.
3. Develops departmental policies and procedures relating to bridge repair determinations, bridge load-carrying capacity ratings, overweight vehicle permit evaluations, repair plan preparation, bridge maintenance activities, bridge safety inspections, bridge management, bridge preservation, bridge plan archive maintenance, and local agency bridge project review. This, in part, is accomplished through maintenance of the Structural Services Manual and the IDOT Bridge Preservation Guide.
4. Directs the analysis and determination of safe load carrying capacities for both department maintained and local agency bridges.
5. Approves corrective actions, development of repair plans, and maintenance activities intended to address problems involving bridges and structures.
6. Administers activities to ensure local agency bridge projects are properly developed, and the effects of proposed changes to the Illinois Vehicle Code on bridge infrastructure are evaluated.
7. Assigns, motivates, evaluates, and develops subordinates to maintain a high level of employee morale and work performance.
8. Provides guidance and direction in the resolution of complex structural problems.

9. Develops, implements, and administers a BMS and maintains bridge inventory data integrity in the IHIS.
10. Manages consultants directed to perform any or all functions listed above.
11. Performs duties in compliance with departmental safety rules. Performs all duties in a manner conducive to the fair and equitable treatment of all employees.
12. Performs other duties as assigned.

Qualifications

Position Requirements

- Current registration as a Licensed Professional Engineer in the state of Illinois
- Ten years of experience in civil engineering including six years supervising staff and managing engineering functions
- Current Illinois Structural Engineer license
- Valid driver's license
- Occasional statewide travel with overnight stays

Position Desirables

- Ability to develop and maintain cooperative relationships with departmental staff and the FHWA
- Effective oral and written communication skills
- Coursework in structural engineering
- Ability to work in a stressful environment
- Ability to solve problems quickly and effectively due to unexpected emergencies
- Strong organizational skills
- Effective time management skills

Work Hours: 8:00 A.M. - 4:30 P.M. Monday-Friday

Work Location: 2300 S Dirksen Pkwy Springfield, IL 62764-0001

Office: Office of Highways Project Implementation/Bureau of Bridges & Structures

Agency Contact: DOT.CONTACTHR@ILLINOIS.GOV

Job Family: Transportation

APPLICATION INSTRUCTIONS

Use the "Apply" button at the top right or bottom right of this posting to begin the application process.

If you are not already signed in, you will be prompted to do so.

State employees should sign in to the career portal for State of Illinois employees – a link is available at the top left of the Illinois.jobs2web.com homepage in the blue ribbon.

Non-State employees should log in on the using the "View Profile" link in the top right of the Illinois.jobs2web.com homepage in the blue ribbon. If you have never before signed in, you will be prompted to create an account.

If you have questions about how to apply, please see the following resources:

State employees: Log in to the [career portal](#) for State employees and review the [Internal Candidate Application Job Aid](#)

Non-State employees: on Illinois.jobs2web.com – click "Application Procedures" in the footer of every page of the website.

The main form of communication will be through email. Please check your "junk mail", "spam", or "other" folder for communication(s) regarding any submitted application(s). You may receive emails from the following addresses:

- donotreply@SIL-P1.ns2cloud.com
- systems@SIL-P1.ns2cloud.com