

Job Title: ENGINEERING TECH I - ASSISTANT BRIDGE INSPECTION TECHNICIAN - IPR#46471

Agency : Department of Transportation

Closing Date/Time: 04/17/2023

Salary: \$2,695 - \$4,735 Monthly

Job Type: Salaried Full Time

County: Sangamon

Number of Vacancies: 2

Plan/BU: NR916 - Protech Teamsters

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 Engineering Technicians (ET I).

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.

- As a Engineering Technician I, you have the possibility of promoting to an Engineering Technician II within 18-24 months.
- A possibility of promoting to an Engineering Technician III within 30-36 months.

Engineer Technician I's with the Illinois Department of Transportation are trained in a variety of specializations during their career. They work with engineers from diverse backgrounds, experiences, and careers. They are exposed to both external and internal engineering professionals. This program is a unique opportunity to expand your knowledge and career while networking within a vast engineering network. IDOT offers an ideal program to start and expand an engineering career.

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 serves as a member of the technical team which makes detailed inspections of bridges throughout the state to fulfill the requirements of the National Bridge Inspection Standards and documents deficiencies found to support load ratings and emergency repairs.

Continual in-depth inspections: 60 major bridge structures
Detailed bridge inspections and reports: 8 - 12 annually

This position reports to the Bridge Inspection Group Technician. There are no subordinates reporting to this position.

The incumbent operates in an environment responsible for the inspection of major bridge structures throughout the state and the care and maintenance of precision instruments and equipment. S/He must be able to operate all the equipment and assist in its care and maintenance. The incumbent must be able to recognize and help establish the necessary traffic control in accordance with departmental standards to protect both motorists and the team and to minimize interference with highway traffic. S/He must have appreciable knowledge of bridge nomenclature and the ability to recognize structural problems in a variety of bridge types and must report serious deficiencies immediately. This position works in an adverse environment of weather, debris, traffic conditions, and heights.

Both the greatest challenge and typical problems of the job lie in the search for and detection of problems that affect the structures and in trying to determine the reasons for those problems. These bridges represent a massive investment of public funds. Proper inspection is required to preserve this investment, to prevent structural failures, and to increase the level of public safety.

The incumbent personally participates in the detailed inspection of major bridge structures throughout the state. S/He may operate surveying instruments, surveying rods, and serve as inspector or note keeper. Responsibilities include sounding underwater areas around river piers and obtaining river bottom profiles and elevations with electronic depth sounding equipment; making observations of all bridge components and keeping notes, taking photographs, and making sketches as needed to record the required information; and being aware of problems associated with welded bridges and being capable of testing for flaws and cracks associated with welds.

(Job Responsibilities continued)

The incumbent operates under direct supervision and is guided and constrained by department policies and procedures and by the rules and procedures of the National Bridge Inspection Standards.

The incumbent has internal contact with the Bureau of Bridges and Structures staff. Externally, the incumbent has contacts with local public agencies, the Federal Highway Administration (FHWA), district Bureau of Operations, the Coast Guard, and the public. This position requires continual travel and a person who has the ability to perform strenuous physical activities in an outdoor environment and who is able to safely work at great heights and in confined spaces. Access to many of the components of large bridges is very difficult and at considerable height above ground or water. Statewide travel with overnight stays more than 60 percent of the year is required.

The effectiveness of this position can be measured by the accuracy of work performed, the quality, and quantity of the inspection reports. Effective performance in this position also requires full cooperation with other team members and a willingness to work in an adverse environment of weather, debris, traffic conditions, and heights.

Principal Accountabilities

1. Assists in performing technical duties including instrument operation, precise measurements, and recording of observations in conjunction with detailed inspections of major bridge structures statewide.
2. Performs visual inspections of bridges to seek out damaged or deteriorated components, records and photographs problems detected, and assists in making recommendations for repair or structural analysis.
3. Assists in preparing bridge inspection reports under the direction of the Bridge Inspection Group Technician.
4. Operates and maintains a variety of expensive and sophisticated equipment used by the team.
5. Reviews traffic protection established by district team sections in accordance with department standards.

6. Assists in performing calculations in conjunction with the inspections and reports and in performing field calculations to ensure accuracy before inspections are finished.
7. Performs duties in compliance with departmental safety rules. Performs all duties in a manner conducive to the fair and equitable treatment of all employees.
8. Performs other duties as assigned.

Qualifications

Position Requirements

- Education/Experience:
 - Completion of two years of college in civil engineering technology, pre-engineering, or a job-related technical/science curriculum; OR
 - Two years of engineering experience
- Ability to work in confined spaces and at extreme heights over land and water
- Valid driver's license
- Statewide travel with overnight stays more than 60 percent of the year

Position Desirables

- Experience in bridge inspection
- Working knowledge of mathematics to include trigonometry and the ability to perform necessary technical calculations in conjunction with inspections and reports
- Strong oral and written communication skills
- Proficiency in Microsoft Word, Excel, and Microstation

Work Hours: 6:30 AM - 5:00 PM Monday-Thursday

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; Sciences and Natural Resources

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