



Bunny Koehler

**Engineering Technician III (1 position)
Bridge Inspection Technician**

IPR Number:	44631	Union Position:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Position Number:	PW013-23-75-906-53-01	Shift:	6:30 am – 5:00 pm
Opening Date:			*See Remarks
Closing Date:		Salary:	\$3,920 – \$6,775*

Office/Central Bureau/District/Work Address:

Office of Highways Project Implementation / Bureau of Bridges and Structures / 2300 S. Dirksen Parkway, Springfield, IL

Position Purpose:

This position serves as a member of the technical team that makes detailed inspections of bridges throughout the state to fulfill the requirements of the National Bridge Inspection Standards (NBIS) and documents deficiencies found to support load ratings and repairs.

Qualifications:

Position Requirements:

- Education/Experience
 - Completion of two years of college in civil engineering technology, pre-engineering or a job related technical/science curriculum plus thirty months of engineering experience; OR
 - Six years of engineering experience
- Ability to work in confined spaces and at extreme heights over land and water
- Valid driver's license
- Continual statewide travel with overnight stays more than 50% of the year

Position Desirables:

- Illinois Certified NBIS Team Leader
- Successful completion of IDOT's Bridge Element Level Inspection Class or the FHWA 2-Day Introduction to Element Level Inspection Class
- Successful completion of NHI 130078 Fracture Critical Inspection Techniques for Steel Bridge
- Strong oral and written communication skills
- Proficiency in Microsoft Word and Excel and MicroStation

How to Apply/Remarks:

Technical Applications PM1080 (rev 8/23/19) must be received by the Bureau of Personnel Management, Room 113, 2300 South Dirksen Parkway, Springfield, IL 62764 (Fax# 217/557-3134) or emailed to DOT.CO.BPM.EmploymentApplications@Illinois.gov by 4:30 pm on the closing date listed above. Applications will not be accepted after this date and time.

Agency Contact: Bureau of Personnel Management, 217/782-5594

*Work Schedule: Monday-Thursday, 6:30 am- 5:00 pm; 4-day work week; 10 hours/day with 30 min lunch break

To be considered for a permanent position within IDOT, you must either be a US citizen or a non-citizen with permanent work authorization.

Only education/coursework and experience listed within the application will be considered for determining eligibility for this position.

Please be advised that if a high volume of applications is received, the applications may be screened to establish a smaller pool of applicants for interview. The screening will be based on the information contained in the application.

Applicants will be notified in writing to schedule interviews.

*Individual salary offers are computed based on an applicant's current position and experience level in comparison to the posted title as well as internal equity of staff in the organizational unit.

**ILLINOIS DEPARTMENT OF TRANSPORTATION
POSITION DESCRIPTION**

DATE:	August 1, 2020	WORKING TITLE:	Bridge Inspection Technician
POSITION CLASSIFICATION:	Engineering Technician III	OFFICE/BUREAU:	Office of Highways Project Implementation / Bureau of Bridges and Structures
POSITION NUMBER:	PW013-23-75-906-53-01	REGION/DISTRICT:	n/a

Position Purpose

This position serves as a member of the technical team that makes detailed inspections of bridges throughout the state to fulfill the requirements of the National Bridge Inspection Standards (NBIS) and documents deficiencies found to support load ratings and repairs.

Dimensions

Detailed major bridge inspections and reports:	25 - 35 annually
Fracture critical bridge member inspections performed:	15 - 25 annually
Underwater bridge inspections performed:	25 - 35 annually

Nature and Scope

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

This position operates in an environment that inspects major bridge structures throughout the state in adverse weather, debris, traffic conditions, and heights. The incumbent needs to be able to perform strenuous physical activities in an outdoor environment and can 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 and/or water. The incumbent operates and maintains precision instruments and equipment. The incumbent needs to have appreciable knowledge of bridge nomenclature and the ability to recognize structural problems in a variety of bridge types in order to report critical deficiencies immediately. 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.

Both the greatest challenge and a typical problem of this position is searching for and detecting problems that affect the structures and determining the reasons for the problems.

The incumbent employs various non-destructive testing methods to determine deficiencies on bridge components. The incumbent performs duties under bridges and in confined spaces with testing inspection equipment. S/He must remain knowledgeable with the Structure Information and Procedures (SIP) Manual and inspection procedures per the NBIS and the Illinois Department of Transportation (IDOT) Bridge Inspection Policy/guidelines. The incumbent handles inspection equipment over rough terrain and reviews design plans, shop drawings, and other bridge correspondence. S/He performs underwater inspections around river piers to detect scour, obtains channel cross-sections with sonar equipment, and evaluates bridge components below water. The incumbent is aware of problems associated with bridge elements and detects and documents deficiencies and general conditions through photographs and field drawings as necessary. S/He is aware of the necessary traffic control in accordance with departmental standards to protect both motorists and inspection crews and to minimize interference with highway traffic. The incumbent prepares

detailed bridge inspection reports. S/He performs calculations during inspections and while producing detailed inspection reports.

The incumbent is guided and constrained by IDOT Bridge Inspection Policy/guidelines and the NBIS.

The incumbent has internal contacts with staff in the Bureau of Bridges and Structures and the districts' bureau of operations. The incumbent has external contacts with local public agencies, the Federal Highway Administration (FHWA), the United States Coast Guard, and the public. This position requires continual statewide travel with overnight stays more than 60% of the year.

The effectiveness of this position can be measured by the accuracy of the work performed and the quality and quantity of the inspection reports. Effective performance in this position 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. Performs technical duties including instrument operation, precise measurements, and recording of observations in conjunction with detailed inspections of major bridge structures statewide.
2. Assists in performing non-destructive testing on various bridge components.
3. Performs visual inspections of bridges to detect damaged or deteriorated components, records and photographs deficiencies, and makes recommendations for repair or structural analysis.
4. Prepares detailed bridge inspection reports.
5. Operates a variety of bridge inspection equipment.
6. Performs calculations during inspections and while producing detailed inspection reports.
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.

Subordinates of this position

Position Classification	Position Number	Working Title	Authorized Identical
n/a			

Supervisor of this position

Immediate Supervisor Position Classification: Engineering Technician V

Working Title: Bridge Inspection Group Technician

Position Number: PW015-23-75-906-53-01

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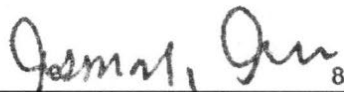
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Agency Approvals



Bureau Chief of Personnel Management



Secretary, Department of Transportation