



**Engineering Technician IV (2 positions)
Bridge Liaison Technician**

Bunny Koehler

IPR Number:	44674	Union Position:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Position Number:	PW014-23-75-906-10-01	Shift:	8:00 am – 4:30 pm
Opening Date:			Monday – Friday
Closing Date:		Salary:	\$4,790 – \$8,775 *

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 is accountable for providing the practical working knowledge in structural inspection, rating, posting, repair, and rehabilitation of bridges needed in administering the federal bridge standards and state statutes. Additionally, this position inputs, analyzes, and employs computerized structure data to provide support and guidance to state and local personnel in their bridge program activities.

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 five years of engineering experience OR
 - Seven years of engineering experience
- Current certification or ability to obtain certification within twelve (12) months of hire date as a National Bridge Inspection Standards Team Leader or Program Manager
- Valid driver's license
- Frequent statewide travel with overnight stays

Position Desirables:

- Ability to plan, organize, and coordinate bridge inspection trips statewide
- Strong computer skills including MicroStation, Microsoft Word, and Microsoft Excel
- Successful completion of FHWA-NHI-130055: Safety Inspection of In-Service Bridges
- Successful completion of FHWA-NHI-130078: Fracture Critical Inspection Techniques for Steel Bridges

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

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 15, 2020	WORKING TITLE:	Bridge Liaison Technician
POSITION CLASSIFICATION:	Engineering Technician IV	OFFICE/BUREAU:	Office of Highways Project Implementation / Bureau of Bridges and Structures
POSITION NUMBER:	PW014-23-75-906-10-01	REGION/DISTRICT:	n/a

Position Purpose

This position is accountable for providing the practical working knowledge in structural inspection, rating, posting, repair, and rehabilitation of bridges needed in administering the federal bridge standards and state statutes. Additionally, this position inputs, analyzes, and employs computerized structure data to provide support and guidance to state and local personnel in their bridge program activities.

Dimensions

Operating expenses:	\$80,000 annually
Bridge investigations:	250 annually
Number of bridges monitored:	18,000
Number of biennial inspections, postings, and ratings:	12,000
Participating agencies:	1,388 statewide

Nature and Scope

This position reports to the Local Bridge Unit Chief. There are no subordinates reporting to this position.

This position operates in an environment that has direct contact and working arrangements with representatives of local agencies while investigating structures to be rated or rehabilitated. It is characterized by significant liaison with various states and local and private agencies in providing direction and assistance in their inventory, inspection, rating, posting, and programming activities. This position provides information and guidance to district offices and local agencies to assist them in establishing and prioritizing candidate bridges for replacement or rehabilitation and in properly obtaining and coding accurate and timely structure inventory data in accordance with federal requirements and statutes.

The greatest challenge of this position is protecting the traveling public from dangerous structures by detecting structural defects that have reached a critical state and recommending local agencies to immediately post or close structures or make repairs when necessary. Typical problems include gathering information complete enough to allow an accurate determination of a structure's load carrying capacity. Other problems include dealing with various state and local agencies to prompt required local bridge inspections within prescribed time frames and to ensure that bridges are posted, closed, and reported as required.

The incumbent will schedule inspections with districts and local agencies and perform the inspections of local agency bridges. The incumbent prepares clear and accurate field measurements, drawings, and photographs; determines and records structural deterioration or damage; and submits this data to the Senior Local Bridge Liaison Engineer for structural capacity determination. The incumbent inputs, analyzes, and reviews computerized structure data and develops and applies improved procedures to ensure its accuracy. The incumbent develops, coordinates, and distributes reports to be used in reviewing and monitoring the status of bridge inspections, ratings, and postings. S/He prepares reports and tabulations in response to special requests from legislative committees and various governmental agencies. The incumbent provides input for revisions and

updates to the Structure Information and Procedures Manual and the inspection section of the Structural Services Manual.

The incumbent undertakes and organizes the accountabilities and accomplishes the objectives according to established policies and procedures. S/He has freedom to exercise a wide degree of personal judgment in activities to expedite their satisfactory completion with prescribed schedules. S/He consults with the Local Bridge Unit Chief on unusual or sensitive issues or if major problems are encountered.

The incumbent's frequent contacts within the department include the Bureau of Local Roads and Streets, Office of Planning and Programming, Bureau of Operations, and the districts. External contacts include county, municipal, and township officials; railroad companies; consulting engineers; the Illinois Toll Highway Authority; the Federal Highway Administration; and the Department of Natural Resources. Frequent statewide travel with overnight stays is required to perform bridge inspections, assess district and local agency inspections, and post programs as well as to attend training sessions.

The effectiveness of this position is measured by the number of structures inspected and the quality of field condition drawings and photographs submitted for rating. The effectiveness of the individual is also measured by the degree of assistance provided to district and local agency personnel, by the quality and consistency of structure reports and tabulations, and by feedback from personnel with whom this position has contact.

Principal Accountabilities

1. Prioritizes, schedules, and performs local agency bridge rating inspections as required.
2. Ensures that accurate field drawings, measurements, and photographs are produced for evaluation and structural determination of local agency structures.
3. Provides advice and guidance to district and local agency personnel concerning bridge closure and posting procedures, inspection techniques, and various bridge programming activities.
4. Establishes, develops, and utilizes techniques to identify, monitor, and correct shortcomings or deficiencies in Illinois bridge inventory data that are not consistent with federal and state requirements and statutes which could result in reduced bridge funding.
5. Ensures the official departmental structural rating and posting recommendations are clearly and accurately reported to the local agency having jurisdiction and that they are included in the structure database in accordance with state statutes.
6. Ensures complete, accurate, and timely articles, reports, and statistical tabulations are provided as scheduled or requested.
7. Provides input for revisions and updates to the Structure Information and Procedures Manual and the inspection section of the Structural Services Manual.
8. Performs duties in compliance with departmental safety rules. Performs all duties in a manner conducive to the fair and equitable treatment of all employees.
9. 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: Civil Engineer VI

Working Title: Local Bridge Unit Chief

Position Number: PW116-23-75-906-10-01

Position Requirements

- Education/Experience
 - Completion of two years of college in civil engineering technology, pre-engineering, or a job related technical/science curriculum **PLUS** five years of engineering experience **OR**
 - Seven years of engineering experience
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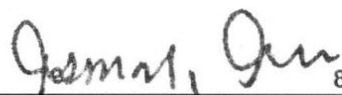
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Agency Approvals



Bureau Chief of Personnel Management



Secretary, Department of Transportation