



Illinois Department of Transportation

Memorandum

To: DEPUTY SECRETARIES, DIRECTORS AND BUREAU CHIEFS
From: Becky Koehler
Bureau Chief of Personnel Management
Subject: Technical Vacancy
Date: October 30, 2018

Attached are the Position Summary Sheet and Position Description for the vacant technical position listed below. Please post this vacancy announcement October 31, 2018 in the designated areas.

The deadline for applicants to submit their applications for consideration is **4:30 p.m. on Thursday, November 15, 2018**. Applications will not be accepted after that time and date.

NOTE: A copy of each applicant's ACTIVE Illinois Professional Engineer License must accompany application for this position. Please be advised that if a high volume of applications are 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.

If you have any questions, please contact the Bureau of Personnel Management at 217/782-5594.

CE IV

Senior Local Bridge Liaison Engineer
Bureau of Bridges & Structures
Office of Highways Project Implementation
Springfield

Attachments
43192

Technical Applications [PM1080 rev 6/1/17](#)****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 **Thursday, November 15, 2018**, 4:30 p.m. Please include address, daytime phone and position for which applying if not already listed on application. Applicants will be notified in writing to schedule interviews.

NOTE: A copy of each applicant's ACTIVE Illinois Professional Engineer License must accompany application for this position. Please be advised that if a high volume of applications are 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.



Illinois Department of Transportation

An Equal Opportunity Employer

Position Summary Sheet

Classification:	Civil Engineer IV	Salary:	\$5,800 - \$7,515*
Position Title:	Senior Local Bridge Liaison Engineer	Union Position:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Position Number:	PW114-23-75-906-10-01	IPR#:	43192

Office/Central Bureau/District/Work Address:

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

Description of Duties:

The purpose of this position is to provide the technical expertise and practical working knowledge of structural inspection, load rating, and posting of bridges in administering the National Bridge Inspection Standards (NBIS) and state statutes.

Special Qualifications:

Required:

- Current Illinois Professional Engineer license
- Occasional travel with overnight stays
- Valid driver's license

Desired:

- Six years of experience in civil engineering of which three years should be in structural design analysis and inspection load ratings
- Approved by the department under National Bridge Inspection Standards as a Team Leader or Program Manager
- Successfully completed 3-day NHI Fractural Critical class
- Strong oral and written communication skills
- Current Structural Engineer license

Shift/Remarks:

8:00 am – 4:30 pm / Monday – Friday

*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.

**Technical Application PM1080 (revised 6/1/17) is required. No previous version of the PM1080 will be accepted.

**ILLINOIS DEPARTMENT OF TRANSPORTATION
POSITION DESCRIPTION**

DATE:	7-3-2018	POSITION:	Senior Local Bridge Liaison Engineer
APPROVED BY:	Carl Puzey	OFFICE/DIVISION:	OHPI/Bureau of Bridges and Structures
CODE:	PW114-23-75-906-10-01	REPORTS TO:	Local Bridge Unit Chief

Position Purpose

The purpose of this position is to provide the technical expertise and practical working knowledge of structural inspection, load rating, and posting of bridges in administering the National Bridge Inspection Standards (NBIS) and state statutes.

Dimensions

Supervision:	None
Operating Expense:	\$90,000
Bridge Inspections:	300
Bridge Ratings:	300-500
Local Roads Training Courses:	2

Nature and Scope

This position reports to the Local Bridge Unit Chief. No staff reports to this position.

The environment of this position is characterized by the individual's direct contact and working arrangement with the representatives of local agencies and coordination with the districts. This contact is made while investigating structures to be inspected or requiring a load rating. The services performed include involvement in oversight of inspection scheduling and production of condition drawings and sketches, performing load rating inspections, and structure load ratings for existing structures as prerequisite to proper load rating and posting. The incumbent must also be capable of determining when structure conditions (deterioration, impact, collision, foundations) have reached a critical state, resulting in danger to the traveling public, and insist corrective action be taken by the appropriate authority.

The greatest challenge of this position is to protect the motoring public from structurally deficient bridges. Typical problems include assisting the Bridge Management Unit to ensure local agency bridge inspections are done in compliance with the NBIS and safeguarding bridges by determining the maximum loads which can safely traverse them. Thorough familiarity with numerous bridge design and construction features is essential in order to assess the observed conditions with regard to their load-carrying capacity.

The incumbent oversees scheduling and performs or supervises load rating inspections of local agency bridges. The incumbent is responsible for oversight of accurate field measurements, drawings, and photographs and determines factors contributing to changes in the load-carrying capacity and safety of these bridges. The incumbent performs computations based on this field data to determine the safe load capacity and allowable weight restrictions for these bridges. The position may provide training to district and local agency personnel in bridge load rating and repair by participating in classes throughout the state. The incumbent works with two Senior Local Bridge Liaison Technicians within the unit. These technicians are responsible for the physical inspection of local agency bridges. They prepare the field measurements, drawings, and photographs, determine and record the structural deterioration, and submit this data to the incumbent for structural capacity determination.

The incumbent undertakes and organizes the work and accomplishes the general objective of the assignment and the finished product according to established policy and procedures with minimal guidance from his/her immediate administrative supervisor. Problems referred to the Local Bridge Unit Chief with a recommendation for approval of the incumbent's solution include, but are not limited to, determining appropriate material stress levels and alternative analysis techniques on structures where significant deterioration has occurred, and recommending load posting requirements.

The incumbent's contacts within the department include a close working relationship with the district Local Roads and Streets, and may also work with the central Bureau of Local Roads & Streets and Office of Planning and Programming. These contacts are for transferring information and possibly coordinating inspections. The individual in this position travels as necessary to perform the above functions, and is in direct contact with various local officials and their staff. The impression s/he imparts is a direct reflection of the department. The incumbent coordinates with the Bridge Liaison Technicians to closely work with local officials, districts, and the central bureau to coordinate load rating inspections and to obtain plans and structural records of bridges to be investigated.

The incumbent's effectiveness is measured by his/her expertise in making technical decisions in safeguarding the motoring public and reducing overall cost in taxpayers' monies for repair and maintenance of structures in Illinois. The effectiveness of this position is also measured by the number of structures inspected, the number and quality of condition drawings, accuracy of load ratings, and the timeliness of the review of consultants' recommendations for posting.

Principal Accountabilities

1. Ensures accurate detailed plans, photographs, and sketches are produced for evaluation and structural determination of local agency structures.
2. Performs structural capacity determination of local agency structures to ensure safety of traveling public.
3. Provides advice and counsel concerning bridge-related matters to district personnel and local agencies consistent with departmental policies and procedures.
4. Assists the Bridge Management Unit to ensure the Local Agency Bridge Inspection Program operates such that the department is in compliance with federal NBIS and state statutes.
5. Monitors scheduling of inspections on a priority of need and most efficient use of manpower.
6. Provides expertise and instruction to district and local agency personnel concerning bridge inspection techniques and documentation.
7. Trains and motivates Bridge Liaison Technicians to ensure well-developed and competent staff.
8. Travels as required to perform duties of this position.
9. Performs duties in compliance with departmental safety rules. Performs all duties in a manner conducive to the fair and equitable treatment of all employees.
10. Performs other duties as required or assigned.