



Illinois Department of Transportation

Memorandum

To: DEPUTY SECRETARIES, DIRECTORS AND BUREAU CHIEFS
From: Becky Koehler
Bureau Chief of Personnel Management
Subject: Technical Vacancy
Date: June 8, 2018

Attached are the Position Summary Sheet and Position Description for the vacant technical position listed below. Please post this vacancy announcement June 12, 2018 in the designated areas.

The deadline for applicants to submit their applications for consideration is **4:30 p.m. on Monday, June 25, 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 V

Area Bridge Inspection Engineer
Region 1/District 1/Maintenance
Office of Highways Project Implementation
Elk Grove

Attachments
42908

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 **Monday, June 25, 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.



An Equal Opportunity Employer

Position Summary Sheet

Classification:	Civil Engineer V	Salary:	\$6,315 - \$8,263*
Position Title:	Area Bridge Inspection Engineer	Union Position:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Position Number:	PW115-23-51-610-70-01	IPR#:	42908

Office/Central Bureau/District/Work Address:

Office of Highways Project Implementation/Region One/District One/Bureau of Maintenance/1101 Biesterfield Rd., Elk Grove, IL

Description Of Duties:

This position is accountable for all bridge inspections including: National Bridge Inspection Standards (NBIS), Bridge Element, Underwater Bridge, Special, Fracture Critical and Bridge Scour Evaluation; and providing information necessary to complete bridge condition reports and other bridge related inspections for all the structures in the assigned geographic area.

Special Qualifications:

Required:

- Current Illinois Professional Engineer license
- Valid driver's license
- Ability to climb and inspect various types of bridges
- District-wide travel; occasional night and weekend work hours; and overtime
- Successful completion of the Federal Highway Administration (FHWA) Safety Inspection of In-Services Bridges course, or the ability to complete within 12 months of hire date
- Must be a NBIS Program Manager and have a Bridge Element Level Inspection Certification, or the ability to obtain certification within 12 months of hire date

Desired:

- Nine years of experience in civil engineering of which five years should be in bridge design, construction and/or maintenance experience, three years of which should have been supervising engineering functions
- Ability to direct and coordinate work of other engineers and technicians, and interpret and implement departmental policies
- Strong oral and written communication skills

Shift/Remarks:

6:30 am – 3:00 pm / Monday – Friday (30-minute lunch)

*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:	February 8, 2018	POSITION:	Area Bridge Inspection Engineer
APPROVED BY:	James Stumpner	OFFICE/DIVISION:	OHPI/District One/Bureau of Maintenance
CODE:	PW115-23-51-610-70-01	REPORTS TO:	Bridge Maintenance Engineer

Position Purpose

This position is accountable for all bridge inspections including: National Bridge Inspection Standards (NBIS), Bridge Element, Underwater Bridge, Special, Fracture Critical and Bridge Scour Evaluation; and providing information necessary to complete bridge condition reports and other bridge related inspections for all the structures in the assigned geographic area.

Dimensions

Subordinate Personnel:	7 Direct
Number of Bridges:	750 Bridges & 500 Small Culverts
Annual Inspections Conducted:	1000
Dollar Value of Investment:	\$5B - \$7B

Nature and Scope

This position reports to the Bridge Maintenance Engineer. Reporting to this position are the Senior Bridge Inspection Engineer, two Area Bridge Inspection Engineers, two Senior Bridge Inspection Technicians and two Bridge Inspectors.

This position functions in an area where the accessibility to the structures requiring inspection is often difficult and dangerous and requires the use of specialty equipment and the latest technology to ensure that the information obtained leads to decisions about bridge conditions that ensure the continued safe and economical movement of traffic. The fact that these highways carry three to four billion vehicle miles of traffic annually complicates the problem of developing and implementing an effective program of bridge inspection. This position provides the engineering and administrative direction for the activities which are necessary to complete all required bridge inspections for the bridges in the assigned geographic area in conformance with prescribed deadlines and frequency. These inspections are complicated by several factors including: the extreme diversity of these bridges – from rural bridges to the world’s busiest, from simple span to complex mechanical bridges; high traffic volumes; and severe resource and equipment constraints that require that bridge inspections be carefully scheduled, expedited, and undertaken with extreme technical ingenuity, all while maintaining a continuous emphasis on safety, accuracy and timeliness.

Typical problems encountered by the incumbent include scheduling the inspection of all bridges in the geographic area to ensure that prescribed time frames are met for NBIS, Bridge Element, Fracture Critical, Underwater Bridge, Special, Bridge Scour evaluation and other mandated inspections. The greatest challenge of this position is providing quality inspection information that contributes to preserving the structural integrity and operating effectiveness of all the bridges in the assigned geographic area and quickly making that critical information detected during inspections available to the appropriate decision makers.

The incumbent personally: reviews or ensures the review of all bridge inspection reports for bridges in the assigned geographic area, ensuring accuracy and timeliness; establishes inspection schedules and time frames; ensures that appropriate inspection equipment and qualified inspectors are available where and when needed;

Area Bridge Inspection Engineer

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trains and instructs personnel on proper inspection techniques and safe methods of bridge inspection; and reviews or performs all underwater and fracture critical inspections in the area.

The incumbent accomplishes accountabilities through the following staff:

- Senior Bridge Inspection Engineer (1): is responsible for personally conducting the majority of the Fracture Critical Inspections and Bridge Scour Evaluations for the bridges in the area, as well as conducting NBIS, Element, Underwater and Special Inspections or reviewing the inspections performed by other less senior personnel. Fills in for the Area Bridge Inspection Engineer when necessary.
- Bridge Inspection Engineer (2): is responsible for performing NBIS, Bridge Element, Fracture Critical, Underwater Bridge and Special Inspections to include final inspections on construction projects, Motorist Caused Highway Damage (MCHD) reviews, as well as inspections of a structural nature on various bridge items. They also assist in Fracture Critical Inspections and Scour Evaluations when needed.
- Bridge Inspection Technician (4): is responsible for performing or assisting in the performance of NBIS, Bridge Element, Fracture Critical, Underwater Bridge and Special inspections to include final inspections on construction projects, MCHD reviews, as well as inspections on non-bridge items.

The incumbent works within the established engineering guidelines for bridge inspection, however, considerable independent judgment is required when reviewing or performing bridge inspections and inspection reports. The incumbent performs duties within the constraints imposed by budget, departmental policies, union agreements, NBIS standards and seasonal weather conditions.

Frequent contact is maintained with consultants, the public, federal, other state, and local agencies. Internally the incumbent maintains frequent contact with the district Bureaus of Programming, Design, Administrative Services, Construction and Traffic and the central Bureaus of Bridges and Structures and Operations. Frequent districtwide travel, occasional night/weekend work hours and overtime are necessary in order to fulfill the duties of this position.

The effectiveness of this position can be measured by the incumbent's ability to develop and implement a plan to meet all bridge inspection deadlines.

Principal Accountabilities

1. Develops and directs annual bridge inspection programs including NBIS, Bridge Element, Underwater Bridge, Fracture Critical, Special, and Bridge Scour evaluation for the assigned geographic area.
2. Schedules personnel and equipment to ensure inspection schedules are met.
3. Ensures effective expenditure of budgetary funds.
4. Ensures inspection staff have technical expertise necessary to perform bridge inspections.
5. Performs duties in compliance with departmental safety rules. Performs all duties in a manner conducive to the fair and equitable treatment of all employees.
6. Performs other duties as assigned.