



# Illinois Department of Transportation

## Memorandum

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To: DEPUTY SECRETARIES, DIRECTORS AND BUREAU CHIEFS  
From: Dianna L. Taylor  
Bureau Chief of Personnel Management  
Subject: Technical Vacancy  
Date: August 28, 2017

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Attached are the Position Summary Sheet and Position Description for the vacant technical position listed below. Please post this vacancy announcement August 30, 2017 in the designated areas.

The deadline for applicants to submit their applications for consideration is **4:30 p.m. on Wednesday, September 13, 2017**. Applications will not be accepted after that time and date.

**NOTE: A copy of each applicant's American Welding Society Certification as a Certified Welding Inspector must accompany applications 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.

ET V

Fabrication Inspection Group Technician  
Bureau of Bridges & Structures  
Office of Program Development  
Springfield

Attachments  
42177

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](mailto:DOT.CO.BPM.EmploymentApplications@Illinois.gov) by **Wednesday, September 13, 2017**, 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 American Welding Society Certification as a Certified Welding Inspector must accompany applications 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

<b>Classification:</b>	<b>Engineering Technician V</b>	<b>Salary:</b>	<b>\$5,015 - \$7,085*</b>
<b>Position Title:</b>	<b>Fabrication Inspection Group Technician</b>	<b>Union Position:</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Position Number:</b>	<b>PW015-23-65-904-71-01</b>	<b>IPR#:</b>	<b>42177</b>

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#### Office/Central Bureau/District/Work Address:

Office of Program Development / Bureau of Bridges and Structures/2300 S. Dirksen Parkway, Springfield, IL

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#### Description Of Duties:

This position is accountable, through a staff of technicians, for performing field and shop quality assurance inspections of fabrication, welding, painting, non-destructive testing of bridge and overhead sign structure components on departmental and local projects.

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#### Special Qualifications:

##### **Required:**

- Certified Welding Inspector
- Out-of-state travel with overnight stays
- Valid driver's license

##### **Desired:**

- Three years of college with the major courses of study being in pre-engineering, completion of a two-year program in civil engineering technology or a four-year degree in a scientific program other than engineering
- Twelve years of quality assurance inspection experience under the direction of a Professional Engineer or equivalent
- Previous supervisory/management experience in this field

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#### Shift/Remarks:

Typically 8:00 a.m. – 4:30 p.m. (Hours may vary due to hours of fabrication and travel as fabricators are located throughout the United States requiring extensive weekly travel).

\*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**

<b>DATE:</b>	February 24, 2017	<b>POSITION:</b>	Fabrication Inspection Group Technician
<b>APPROVED BY:</b>	Jayne Schiff	<b>OFFICE:</b>	Office of Program Development/ Bureau of Bridges & Structures
<b>CODE:</b>	PW015-23-65-904-71-01	<b>REPORTS TO:</b>	Shop Plans & Steel Fabrication Unit Chief

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***Position Purpose***

This position is accountable, through a staff of technicians, for performing field and shop quality assurance inspections of fabrication, welding, painting, non-destructive testing of bridge and overhead sign structure components on departmental and local projects.

***Dimensions***

Subordinate Personnel	2 Direct/14 Indirect
Annual Bridge Program	\$150 M Annually
Projects Inspected	120 Annually

***Nature and Scope***

This position reports to the Shop Plans and Steel Fabrication Unit Chief as does the Shop Plans and Traffic Structures Group Engineer. Reporting to this position are eight Senior Fabrication Inspection Technicians and/or Fabrication Inspection Technicians.

The incumbent utilizes managerial and technical expertise to direct a staff of technicians performing quality assurance (QA) inspections designed to preclude structural failure or premature maintenance requirements caused by the use of inferior materials, substandard welding, cutting, bolting or painting methods, or other improper fabrication practices. The group managed by the incumbent provides the technical expertise required to review and approve shop fabrication and on-site testing of structural materials and components.

The greatest challenge of this position is early identification of potential or actual fabrication problems, conflicts between the fabricator and the Department, and recommendations to prevent or resolve such situations. The incumbent recommends stopping fabrication when critical Departmental guidelines are violated. S/He manages, schedules, and trains a group of technicians who perform QA inspections at facilities located throughout the country. The most significant challenge of this position is providing current technical expertise and specification interpretations required to insure proper inspections, and evaluating and resolving unique problems relevant to fabrication.

The incumbent personally manages the Unit's inspection staff and monitors outside agencies in the QA inspection and testing of structural members. The incumbent must possess a thorough knowledge of structural material, fabrication equipment, processes, and testing techniques. Such techniques involve the utilization of x-ray, ultrasonic, magnetic particle and dye penetrant methods. The incumbent investigates, evaluates and makes recommendations concerning the fabrication methods and testing procedures mandated by specifications, including new procedures or products. S/He must keep abreast of current technology and make recommendations concerning potential modifications for the Department. The incumbent provides technical expertise to resolve field problems due to misfabricated material,

improper erection of members or damage. S/He makes recommendations with respect to the acceptance or rejection of outside agency inspectors. S/He also trains, evaluates and schedules the activities of the subordinates. The incumbent has a responsibility to recommend action in the areas of hiring, discipline, and budgeting.

The incumbent's duties are performed through the Fabrication Inspection Technicians who, based upon their experience and qualifications, inspect fabrication and painting of structures ranging from simple to extremely complex.

This position's most significant contacts are with the Districts and the central bureaus of Materials, Construction, and Local Roads and Streets. Outside the Department, contact is maintained with fabricators, inspection agencies, material suppliers, consultants and the FHWA. Out-of-state travel with occasional overnight stays is required.

The incumbent operates under broad guidelines and has substantial latitude to act. Recommendations for the most sensitive or controversial problems are referred to his/her superior for evaluation, and updates on fabrication status and problems resolved are routinely conveyed. This position is guided by departmental rules, regulations, policies and procedures.

The effectiveness of this position is measured by the accuracy and ability to manage and coordinate fabrication inspections to ensure that bridges and structures can be erected in accordance with departmental specifications and the contract documents. Effectiveness will also be measured by the technical expertise and decorum displayed in resolving highly technical problems encountered.

***Principal Accountabilities***

1. Directs staff in the QA inspection and testing of structural material for bridges and traffic structures.
2. Monitors outside inspection agencies in the testing and QA inspection of structural materials.
3. Investigates and recommends fabrication specifications and methods and NDT testing procedures.
4. Provides technical expertise required for resolution of shop and field fabrication problems.
5. Recommends approval or rejection for proposed methods to repair misfabricated components and evaluates requests for deviation from contract requirements.
6. Evaluates, trains and supervises subordinates to accomplish the unit's goals.
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 required or assigned.