



Illinois Department of Transportation

Memorandum

To: DEPUTY SECRETARIES, DIRECTORS AND BUREAU CHIEFS
From: Becky Koehler
Bureau Chief of Personnel Management
Subject: Technical Vacancy
Date: August 7, 2018

Attached are the Position Summary Sheet and Position Description for the vacant technical position listed below. Please post this vacancy announcement August 8, 2018 in the designated areas.

The deadline for applicants to submit their applications for consideration is **4:30 p.m. on Tuesday, August 21, 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

Safety Design Engineer
Bureau of Safety Programs & Engineering
Office of Highways Project Implementation
Springfield

Attachments
43031

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 **Tuesday, August 21, 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 V	Salary:	\$6,315 - \$8,263*
Position Title:	Safety Design Engineer	Union Position:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Position Number:	PW115-23-75-801-10-01	IPR#:	43031

Office/Central Bureau/District/Work Address:

Office of Highways Project Implementation / Bureau of Safety Programs and Engineering / 2300 South Dirksen Parkway, Springfield, IL

Description Of Duties:

This position is accountable for developing and implementing policies and initiatives related to implementation of the Highway Safety Manual (HSM), performing Road Safety Assessments (RSA), managing state-of-the-practice published research on state-of-the-art guardrail and median barrier end sections, roadside and median barriers, and other roadside appurtenances and reviewing recommendations to revise existing policies or to develop new policies. This position provides statewide technical guidance and general direction on proper highway clear zones and roadside treatments. This position administers statewide safety crash analyses to identify patterns with specific roadway designs and recommends mitigating measures.

Special Qualifications:

Required:

- Valid driver's license
- Current Illinois Professional Engineer license
- Statewide and occasional out-of-state travel which may require overnight stays

Desired:

- Nine years of experience in civil engineering of which at least five years should be in the specific area of highway engineering, three years of which should have been supervising engineering functions
- Extensive knowledge of the principles and practices of civil engineering
- Extensive knowledge of the modern methods and techniques as applied to the design, construction and maintenance of public works
- Ability to direct the work of other engineers and technical staff
- Ability to supervise the preparation of design standards and specifications
- Ability to develop and maintain cooperative relationships with departmental staff and the public
- Strong oral and written communication skills

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:	June 27, 2018	POSITION:	Safety Design Engineer
APPROVED BY:	<u>Jon McCormick</u>	DIVISION:	Office of Highways Project Implementation /Bureau of Safety Programs & Engineering
CODE:	PW115-23-75-801-10-01	REPORTS TO:	Safety Design Unit Chief

Position Purpose

This position is accountable for developing and implementing policies and initiatives related to implementation of the Highway Safety Manual (HSM), performing Road Safety Assessments (RSA), managing state-of-the practice published research on state-of-the art guardrail and median barrier end sections, roadside and median barriers, and other roadside appurtenances and reviewing recommendations to revise existing policies or to develop new policies. This position provides statewide technical guidance and general direction on proper highway clear zones and roadside treatments. This position administers statewide safety crash analyses to identify patterns with specific roadway designs and recommends mitigating measures.

Dimensions

Programs Monitored:	Roadside safety assessments, guardrail end section, medium barriers, clear zones, safety audits, Highway Safety Improvement Program
Safety Projects:	\$40 Million Annually
Construction Projects:	\$1.3 Billion Annually
Training:	3-4 Annually

Nature and Scope

This position reports to the Safety Design Unit Chief. No subordinates report to this position.

The incumbent is responsible for being current on innovative safety design practices. S/He manages and recommends policies and procedures concerning RSA's; the Highway Safety Improvement Program (HSIP); and guardrail, guardrail end sections, median barriers, and other roadside safety items. The environment of safety policies and procedures includes the administration of the review and analysis of technical research reports and then coordination and communication with internal and external personnel regarding applicable report recommendations.

Typical problems in this position involve the continual oversight of research papers, federal notices, new roadside equipment, and product literature. In addition, in-house and industry recommendations for new and/or revised policies must be administered with the objective of determining applicability to departmental interest and goals. The greatest challenge of this position is to produce meaningful, cost-effective, and timely policies for a wide range of highway safety features.

The incumbent is responsible for maintaining lists of approved roadside hardware, for keeping the Illinois Department of Transportation (IDOT) up to date in the latest developments in highway/roadside safety equipment and devices, and replying to inquiries from districts regarding roadside safety feature installations. S/He administers technical correspondence and reports on safety issues along with performing and preparing reports regarding on-site reviews on an as-needed basis. The incumbent oversees the development and dissemination of standards, procedures and policies relative to highway safety needs. S/He coordinates with policy development units in the Bureau of Design and Environment (BDE), other central bureaus, other states, and the Federal Highway Administration (FHWA) to ensure that proposed policies are uniform. The incumbent will develop and implement policies and initiatives to advance implementation of the American Association of State Highway and Transportation Officials (AASHTO) HSM

statewide. These efforts will also incorporate other national safety resources, as appropriate, to advance a multi-discipline data-driven approach to safety. In addition, the incumbent is responsible for participating in road safety reviews and assessments when need is identified.

The incumbent operates with wide latitude in making standard policy decisions. Unusual decisions must be referred to the Safety Design Unit Chief for determination. The incumbent is constrained by state and federal policies and by the rules and regulations of the department.

The incumbent's regular contacts within the department involve the other central bureaus in the Office of Highways Project Implementation, the district offices and the Office of Planning and Programming. External contacts include the FHWA, other state highway agencies, and research universities/consultants. S/He is in contact with district staff to assist in interpreting design policies relating to safety and design deviation requests. S/He is required to travel within the state for safety related issues and occasionally outside the state for technical meetings.

The effectiveness of the position is measured by the ability of the incumbent to manage the appropriate safety programs, the resolution of differences of opinions on safety design problems, and the dissemination of timely and effective standards, procedures and policies that result in safe, cost-effective traffic operations.

Principal Accountabilities

1. Prepares technical correspondence and reports of safety issues.
2. Performs on-site reviews on an as-needed basis.
3. Develops, writes, and disseminates, many times through others, standards, procedures, and policies relative to highway safety needs.
4. Advances implementation of the HSM.
5. Consults with policy development units in the BDE, other central bureaus, other states, and the FHWA to ensure that proposed policies are uniform.
6. Performs duties in compliance with departmental safety rules and in a manner conducive to the fair and equitable treatment of all employees.
7. Performs other duties as required and/or assigned.