

**Civil Engineer Trainee  
Safety Design Evaluation Engineer (1 Position)**



<b>IPR Number:</b>	<b>44603</b>	<b>Union Position:</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Position Number:</b>	<b>PW110-23-75-801-10-01</b>	<b>Shift:</b>	<b>8:00 am – 4:30 pm Monday – Friday</b>
<b>Opening Date:</b>	<b>August 17, 2020</b>	<b>Salary:</b>	<b>\$4,365 – \$4,785 *</b>
<b>Closing Date:</b>	<b>November 16, 2020</b>		

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

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

**Position Purpose:**

This position assists in the evaluation of state-of-the-practice published research on state-of-the-art roadside appurtenances, assists with revisions to existing policies and in development of new policies, and assists with roadway safety issues. This position, under immediate supervision, also provides technical assistance and training on proper highway clear zones and roadside treatments, reviews crash data to identify patterns with specific roadway designs, and assists in developing mitigating measures.

**Qualifications:**

**Position Requirements:**

- Completion of a master's or bachelor's degree in engineering from an ABET accredited college OR a current Engineer Intern License in the state of Illinois (includes those expecting to graduate in fall of 2020 or spring of 2021)
- Minimum 2.5 cumulative GPA in engineering related courses (If 2.0-2.5 GPA, candidate must have passed the Fundamentals of Engineering exam)
- Valid driver's license
- In-state and out-of-state travel

**Position Desirables:**

- Working knowledge of the routine practices of civil engineering
- Working knowledge of mathematics as applied to engineering activities
- Basic skill in the use of engineering field and office instruments
- Ability to make relatively difficult technical computations and estimates
- Strong oral and written communication skills

**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](mailto: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

**Unofficial college transcripts must be included with application. Official college transcripts must be submitted upon date of employment. Applicants possessing an Engineer Intern License must also include a copy with application. Applicants not submitting these documents by the posting deadline will not be considered for employment.**

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.

In an attempt to fill the posted positions, IDOT will contact applicants during the posting period to schedule interviews. All postings will result in three interview pools, with application cut off dates of: September 16, 2020, October 16, 2020 and November 16, 2020. Those applicants that have been deemed qualified and have submitted a completed application with all required attachments will be invited to interview accordingly based on the date their application documents are received.

\*Individual salary offers are computed based on an applicant's qualifications and experience relative to the posted title as well as internal equity of staff in the organizational unit.

**ILLINOIS DEPARTMENT OF TRANSPORTATION  
POSITION DESCRIPTION**

<b>DATE:</b>	January 16, 2019	<b>WORKING TITLE:</b>	Safety Design Evaluation Engineer
<b>POSITION CLASSIFICATION:</b>	Civil Engineer Trainee	<b>OFFICE/BUREAU:</b>	Office of Highways Project Implementation / Bureau of Safety Programs and Engineering
<b>POSITION NUMBER:</b>	PW110-23-75-801-10-01	<b>REGION/DISTRICT:</b>	n/a

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***Position Purpose***

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***Dimensions***

Programs:	Roadside safety, guardrail, end sections, median barriers, clear zones, safety audits
Construction projects:	\$1 - 3 Billion annually
Training:	1 - 2 annually

***Nature and Scope***

This position reports to the Safety Design Unit Chief. There are no subordinates reporting to this position.

This position operates in an environment of developing and applying the skills to perform policy and procedure research concerning roadside safety items in order to assist in making recommendations to revise or develop new policies. The incumbent is also responsible for being current on innovative safety engineering design practices and assisting in crash data analysis.

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

The incumbent is personally responsible, under immediate supervision, for preparing technical correspondence and reports on safety engineering issues along with on-site reviews on an as-needed basis. The incumbent assists with recommendations to changes/revisions to the standards, procedures, and policies relative to highway safety needs. S/He may consult 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 performs under immediate supervision and is given little latitude to act independently when performing the responsibilities assigned to this position. S/He must refer all problems to the supervisor for

resolution. The incumbent is guided by state and federal policies, and by the rules and regulations of the department.

The incumbent's internal contacts involve the other central bureaus in the Office of Highways Project Implementation (OHPI). S/He is in moderate contact with district staff to interpret design policies relating to safety and design deviation requests. In addition, external contacts are frequently made with the FHWA and with other state highway agencies and research consultants. S/He is required to travel within the state for district technical training, on-site reviews, and occasionally outside the state for technical meetings.

The effectiveness of the position is measured by the ability of the incumbent to develop timely and effective standards, procedure, and policy recommendations which result in safe, cost-effective traffic operations. The effectiveness can also be measured by the incumbent's ability to innovate and recommend new concepts in the development of solutions for crash patterns in specific roadway designs.

**Principal Accountabilities**

1. Assists in the evaluation of state-of-the-practice published research on state-of-the-art roadside appurtenances.
2. Assists with revisions and development of new standards, procedures, and policy recommendations relative to highway safety needs.
3. Prepares technical correspondence and reports of safety issues, under immediate supervision.
4. Performs on-site reviews on an as-needed basis, under immediate supervision.
5. Assists with crash data analysis and roadway safety issues.
6. Consults with policy development units in the BDE, other central bureaus, other states, and FHWA to ensure that proposed policies are uniform.
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 assigned.

**Subordinates of this position** (if applicable, list subordinate information in the chart below)

Position Classification	Position Number	Working Title	Authorized Identical
n/a			

*Safety Design Evaluation Engineer*  
PW110-23-75-801-10-01

**Supervisor of this position**

Immediate Supervisor Position Classification: Civil Engineer VI

Working Title: Safety Design Unit Chief

Position Number: PW116-23-75-801-10-01

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**Position Desirables**

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**Agency Approvals**

  
Bureau Chief of Personnel Management

  
Secretary, Department of Transportation