

# Job Title: CIVIL ENGINEER III - SAFETY DESIGN EVALUATION SERVICES ENGINEER - IPR#46163

**Agency :** Department of Transportation

**Closing Date/Time:** 02/08/2023

**Salary:** \$5,430 - \$9,000 Monthly

**Job Type:** Salaried Full Time

**County:** Sangamon

**Number of Vacancies:** 1

**Plan/BU:** NR916 - Protech Teamsters

**This position is a union position; therefore, provisions of the relevant collective bargaining agreement/labor contract apply to the filling of this position.**

**All applicants who want to be considered for this position MUST apply electronically through the [illinois.jobs2web.com](http://illinois.jobs2web.com) website. State of Illinois employees should click the link near the top left to apply through the **SuccessFactors** employee career portal.**

**Applications submitted via email or any paper manner (mail, fax, hand delivery) will not be considered.**

## **Agency Mission Statement**

The Illinois Department of Transportation is seeking to hire Safety Design Evaluation Services Engineer.

The IDOT team works diligently to provide safe, cost-effective transportation for Illinois in ways that enhance quality of life, promote economic prosperity and protect our environment. We are problem solvers and leaders, constantly searching for innovations and improvements in support of our commitment to providing the best multimodal transportation system for Illinois.

Our team fosters a culture of inclusivity. We value diversity and hold ourselves to the highest ethical standards as we work together for a common purpose. Team members frequently collaborate with colleagues and others outside the department to best meet customer needs.

The department offers extensive training and career advancement opportunities. Employees also receive a robust benefit package including:

- Monday-Friday work schedule
- Flexible work schedules are available in many program areas.
- Health, Life, Vision, and Dental Insurance
- Pension Plan
- (10) Weeks paid Maternity/Paternity Leave
- Deferred Compensation Program and other pre-tax benefit programs (Medical/Daycare)
- Employees earn (12) paid Sick Days annually.
- New Employees earn (10) paid Vacation Days their first year of service and can earn up to (25) paid Vacation Days annually.
- Employees earn (3) paid Personal Days annually.
- (13-14) paid holidays annually (based on start date)
- Tuition Reimbursement

We invite qualified applicants to apply to become part of our team. We are confident that you will take pride in serving Illinois and its residents and visitors.

## **Job Responsibilities**

Under general supervision, reviews crash data to identify patterns with specific roadway designs and assists in developing mitigation measures. This position performs crash trend analysis to assist district staff in identifying engineering opportunities for reducing fatal and severe injury crashes in relation to state highway projects. S/He is

responsible for assisting in the investigative research and development needed for the preparation of highway safety policy revisions and development.

Programs analyzed:	6+
Value of construction projects evaluated:	\$1.3 billion annually
Training conducted:	1 - 2 annually

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

This position operates in an environment where the incumbent performs crash trend analysis and conducts policy and procedure research concerning roadside safety items in order to assist in making recommendations to revise or develop policies. 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 incumbent analyzes and provides training to other staff on a variety of programs including, but not limited to, the state Highway Safety Improvement Program (HSIP), local HSIP, Road Safety Audit (RSA) program, Strategic Highway Safety Plan (SHSP), Local Road Safety Plan (LRSP), and School Safety Busing Program. S/He stays current on innovative safety analysis techniques and software and engineering design practices.

A typical problem in this position involves the continual analysis of crash data to identify potential safety issues and statewide trends. The greatest challenge of this position is to identify areas for safety improvements to reduce fatalities and serious injuries on Illinois roadways.

Under general supervision, the incumbent is personally responsible for preparing technical correspondence and reports for safety engineering issues along with on-site reviews on an as-needed basis. The incumbent assists with recommendations to revise the standards, procedures, and policies relative to highway safety needs. S/He consults with district personnel to assist them in identifying engineering opportunities to reduce crashes in relation to state highway projects. Additionally, s/he consults with policy development staff in the Bureau of Design and Environment (BDE), other central bureaus in the department, other states, and the Federal Highway Administration (FHWA) to ensure that proposed policies are uniform.

### **(Job Responsibilities continued)**

The incumbent is given general latitude to act independently when performing the responsibilities assigned to this position. S/He refers complex problems to the Safety Design Unit Chief for resolution. S/He is guided by state and federal policies and by the rules and regulations of the department.

The incumbent's regular contacts within the department involve staff in the Office of Highways Project Implementation, Office of Planning and Programming and district offices. Externally, contacts are frequently made with the FHWA, local highway agencies, other state highway agencies, and research consultants. This position requires occasional statewide travel for district meetings, technical training, and on-site reviews and occasional out-of-state travel to attend technical meetings. This travel may sometimes include overnight stays.

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

### **Principal Accountabilities**

1. Analyzes and provides training to other staff on a variety of programs including, but not limited to, the state Highway Safety Improvement Program (HSIP), local HSIP, Road Safety Audit (RSA) program, Strategic Highway Safety Plan (SHSP), Local Road Safety Plan (LRSP), and School Safety Busing Program.
2. Prepares technical correspondence and reports of safety issues.
3. Assists with recommendations to revise the standards, procedures, and policies relative to highway safety needs.
4. Reviews crash data to identify patterns with specific roadway designs and assists in developing mitigation measures and identifying engineering opportunities for reducing fatal and severe injury crashes.
5. Assists in the investigative research needed in the preparation of highway safety policy revisions and development.
6. Performs on-site reviews on an as-needed basis.
7. Consults with district personnel to assist them in identifying potential projects for the multiyear plan and policy development staff in the Bureau of Design and Environment, other central bureaus, other states, and the FHWA to

ensure that proposed policies are uniform.

8. Performs duties in compliance with departmental safety rules. Performs all duties in a manner conducive to the fair and equitable treatment of all employees.

9. Performs other duties as assigned.

## **Qualifications**

### **Position Requirements**

- Education/Experience:
  - Completion of a bachelor's degree in engineering from an ABET accredited college OR master's degree in engineering, OR
  - Engineer Intern license in the state of Illinois
  - 43 months of civil engineering experience
- Occasional statewide and out-of-state travel which may include overnight stays
- Valid driver's license

### **Position Desirables**

- Experience in the practice of highway safety engineering
- Working knowledge of modern methods and techniques related to safety analysis and engineering design practices
- Strong oral and written communication skills
- Ability to conduct engineering research and provide recommendations for implementation of procedures and policies relative to highway safety needs

**Work Hours:** 8:00 AM - 4:30 PM Monday -Friday

**Work Location:** 2300 S Dirksen Pkwy Springfield, IL 62764-0001

**Office:** Office of Highways Project Implementation/Bureau of Safety Programs and Engineering

**Agency Contact:** DOT.CONTACTHR@illinois.gov

**Job Family:** Transportation

## **APPLICATION INSTRUCTIONS**

Use the "Apply" button at the top right or bottom right of this posting to begin the application process.

If you are not already signed in, you will be prompted to do so.

State employees should sign in to the career portal for State of Illinois employees – a link is available at the top left of the [Illinois.jobs2web.com](http://Illinois.jobs2web.com) homepage in the blue ribbon.

Non-State employees should log in on the using the "View Profile" link in the top right of the [Illinois.jobs2web.com](http://Illinois.jobs2web.com) homepage in the blue ribbon. If you have never before signed in, you will be prompted to create an account.

If you have questions about how to apply, please see the following resources:

State employees: Log in to the career portal for State employees and review the [Internal Candidate Application Job Aid](#)

Non-State employees: on [Illinois.jobs2web.com](http://Illinois.jobs2web.com) – click "Application Procedures" in the footer of every page of the website.

The main form of communication will be through email. Please check your "junk mail", "spam", or "other" folder for communication(s) regarding any submitted application(s). You may receive emails from the following addresses:

- [donotreply@SIL-P1.ns2cloud.com](mailto:donotreply@SIL-P1.ns2cloud.com)
- [systems@SIL-P1.ns2cloud.com](mailto:systems@SIL-P1.ns2cloud.com)