

# Job Title: CIVIL ENGINEER III - HIGHWAY-RAILWAY CROSSINGS SAFETY ENGINEER - IPR#45409

**Agency :** Department of Transportation

**Closing Date/Time:** 08/16/2022

**Salary:** \$5430 - \$9000 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 a Highway-Railway Crossings Safety 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**

This position is responsible for assisting in the administration of the state's federal Railway-Highway Crossings (Section 130) Program and development of railway-highway crossing projects under the Section 130 Federal-aid Highway Program (FAHP) and Grade Crossing Protection Fund (GCPF). The incumbent represents the department at Illinois Commerce Commission (ICC) hearings and on-site meetings.

Section 130, FAHP, and GCPF projects assisted:	150 +
Total annual expenditures:	\$24 million
Active railroad companies assisted:	30

This position reports to the Highway Railway Safety Engineer. There are no subordinates reporting to this position.

This position operates within an environment where s/he assists the Highway Railway Safety Engineer in the development and administration of programs for the improvement of safety at railway-highway crossings encompassing the Section 130, FAHP, GCPF, and locally funded projects. The incumbent administers simple railway-highway crossing projects in accordance with state and federal regulations and guidelines, represents the department at ICC hearings, coordinates projects with railroad companies, and provides engineering expertise necessary for the development of agreements, plans, and the inspection process for railway-highway projects. This position assists the Highway Railway Safety Engineer in prioritizing local project applications for the annual Federal Rail-Highway Crossing Safety Program. The incumbent has a working knowledge of both highway and railway design, specifically highway and railway geometrics, traffic and rail signal design, and drainage principles. S/He is responsible for maintaining the department's current publications regarding the availability and use of the GCPF. This position also provides technical guidance to other units within the Bureau of Safety Programs and Engineering relating to railway-highway crossing matters.

The greatest challenge to this position lies in maximizing the safety of railroad crossings within the state on the local road network and within funding limitations. A typical problem for this position is to ensure that highway and related railroad work are scheduled to accommodate each other.

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

The incumbent personally assists the Highway Railway Safety Engineer in the development and administration of programs aimed at railway-highway crossing safety which includes Section 130, FAHP, GCPF, Motor Fuel Tax (MFT), and locally funded projects. Additionally, s/he assists in providing the engineering expertise necessary for the development of agreements and plans and providing district office staff and local agencies with the direction necessary to upgrade local agency railway-highway crossings. S/He represents the department at ICC hearings and conducts on-site review of railway-highway crossings to prioritize projects for the Federal Rail-Highway Crossing Safety Program. S/He responds to traffic signal/railroad signal interconnect inquiries on the local road system and to attorneys' and general public inquiries. The incumbent reviews general layout plans and cost estimates for crossing projects. S/He provides assistance to project development engineers to ensure coordination between the railroad and contractor for proposed railroad force account work, the direct performance of highway construction work by a state transportation department, in federal-aid roadway and bike-trail projects. This position is responsible for additional rail-related duties as assigned by the Highway Railway Safety Engineer.

The incumbent accomplishes objectives under direct supervision of the Highway Railway Safety Engineer and in accordance with established policies and procedures. S/He operates within federal and state laws and regulations and ICC orders.

Internal contacts include staff in the Office of Chief Counsel, Office of Highways Project Implementation, and Office of Planning and Programming. External contacts include representatives of local agencies, railroad companies, the ICC, the Federal Highway Administration, departments of transportation from other states, and the general public. This position requires occasional in-state and out-of-state travel which may include overnight stays in order to attend seminars, ICC hearings, and visit railroad crossings throughout the state to assist with on-site reviews.

The effectiveness of this position can be measured by the efficiency and relative success of the incumbent's ability to administer rail crossing programs for which the Highway Safety Programs Unit is responsible.

### **Principal Accountabilities**

1. Assists the Highway Railway Safety Engineer in the development and administration of programs aimed at rail-highway crossing safety which include Section 130, FAHP, GCPF, MFT, and locally funded projects

2. Provides engineering guidance to ensure railroad crossing protection is commensurate with the scope of proposed highway improvements.
3. Provides district offices and local agencies with the technical assistance and direction necessary to upgrade local agency railway-highway crossings.
4. Conducts on-site review of local railway-highway crossing project applications to develop the annual Federal Rail-Highway Crossing Safety Program.
5. Represents the department at ICC hearings and on-site meetings.
6. Responds to traffic signal/railroad signal interconnect inquiries.
7. Provides response to attorney and general public inquiries on railroad crossing issues.
8. Reviews general layout plans and cost estimates for railway-highway crossing projects.
9. Acts for the Highway Railway Safety Engineer in his/her absence.
10. Performs duties in compliance with departmental safety rules. Performs all duties in a manner conducive to the fair and equitable treatment of all employees.
11. 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 in-state and out-of-state travel which may include overnight stays in order to attend seminars, ICC hearings, and visit railroad crossings throughout the state to assist with on-site reviews
- Valid driver's license

### ***Position Desirables***

- Working knowledge of the routine practices of civil engineering as they relate to railway-highway design and safety
- Working knowledge of highway and railway geometrics, traffic and rail signal design, and drainage principles
- Ability to perform complex engineering computations to design difficult engineering projects and prepare complete engineering plans
- Ability to conduct engineering research and write technical reports
- Strong oral and written communication skills

**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.CO.BPM.EmploymentApplications@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)

