

# Job Title: CIVIL ENGINEER V - WINTER OPERATIONS ENGINEER - IPR#46114

**Agency :** Department of Transportation

**Closing Date/Time:** 12/16/2022

**Salary:** \$6,445 - \$10,210 Monthly

**Job Type:** Salaried Full Time

**County:** Sangamon

**Number of Vacancies:** 1

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

**\*This position is covered by the Revolving Door Prohibition Policy.**

**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 Winter Operations 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 accountable for the development of policies and procedures required to guide winter snow and ice removal operations activities for the state highway system and is responsible for administering the snow and ice removal program for the department. Further, this position is the principal person responsible for snow and ice research, development of snow and ice removal policies, development and research of snow and ice removal equipment modifications, management of the salt and de-icing material program, and all winter operations training for operators and supervisors.

Snow routes maintained: 1,200 +/-

Lane miles plowed: 45,000 +/-  
Snow removal staff (permanent and temporary) coordinated: 3,600 +/-  
Snow removal equipment/trucks maintained: 1,750 +/-  
Average annual salt usage managed: 445,000 tons +/-  
Average annual snow removal costs: \$67 million +/-  
Contracts overseen: 5 +/-  
Maintenance yards supported: 155

This position reports to the Maintenance Support Engineer. There are no subordinates reporting to this position.

This position operates in an environment where s/he works with the district offices to establish the department's resource needs for successfully conducting snow and ice removal operations and with other offices to secure the needed resources. These resources include, but are not limited to, material, facilities, equipment, and manpower. This position evaluates and develops policies for the operation and maintenance of the department's snow and ice control program. This involves presenting recommendations for improvement of the existing system, locating resources to implement these improvements, evaluating and selecting proposals from researchers and vendors, designing new systems, negotiating contract terms, and providing oversight to special projects. S/He maintains coordination with other state transportation agencies and city, county, and Federal Highway Administration (FHWA) officials both regionally and nationally. The incumbent evaluates current policies, procedures, techniques, and equipment related to snow and ice operations and implements changes where needed to improve efficiency, safety, and effective use of resources. This position evaluates and recommends sharing and training opportunities with other agencies to provide more efficiency in statewide winter snow and ice removal.

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

Typical problems include ensuring all appropriate contracts for equipment and materials are available prior to winter operations and prioritizing maintenance and repair contract needs based on limited funding. The greatest challenge to this position is to have all equipment and personnel ready in the event of a weather emergency.

This position is responsible for directing the investigation and evaluation of new and existing materials, equipment, and procedures related to snow and ice operations. The incumbent oversees testing protocols, data collection criteria, evaluation of results, and written reports. S/He manages contracts for de-icing chemicals, snow and ice equipment, and winter weather related services. The incumbent reviews and revises snow and ice maintenance instructional memorandums, policies, procedures, and standards. S/He oversees the materials management program for snow and ice operations to include developing de-icing chemical specifications, testing criteria for new materials, procuring equipment for statewide operations, and providing guidelines for use at field locations. The incumbent performs continual evaluation and prepares reports of the departmental snow and ice removal operations including costs, manpower, equipment, and materials used, and effectiveness. The incumbent is responsible for public and departmental outreach and training on winter weather activities. During statewide winter emergencies this position assists in directing the movement of resources between districts and moves staff and equipment to areas that need assistance. The incumbent works with Bureau of Operations staff to administer snow and ice removal training through presentations and written materials. This position oversees the development of statewide plans for the reduction of blowing and drifting snow. The incumbent oversees the department's Road Weather Information System (RWIS) consisting of weather websites that collect detailed roadway weather information used by operations supervisors throughout the year. S/He participates as a member of various state and national groups involving winter operations such as the Aurora and Clear Roads groups and is chairman of the department's statewide snow and ice committee.

The incumbent has a great deal of freedom and latitude in accomplishing his/her responsibilities. S/He is encouraged to seek and evaluate innovative techniques and new materials to improve highway maintenance. Only matters of a highly sensitive or critical nature are referred to the Maintenance Support Engineer for resolution. The incumbent is constrained by departmental policies and state and federal statutes.

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

The incumbent has internal contacts with all districts and offices within the department in fulfilling the responsibilities of this position. Some of the numerous external contacts of this position include the FHWA, Illinois State Police, Illinois Environmental Protection Agency, Strategic Highway Research Program, Transportation Research Board, and American Association of State Highway Transportation Officials. S/He participates as a member of various state and national groups involving winter operations such as the Aurora and Clear Roads

groups and is chairman of the department's statewide snow and ice committee. This position requires in-state and out-of-state travel which may include occasional overnight stays.

The effectiveness of this position is measured by the ability to have adequately equipped and trained personnel on the highway in the event of a weather emergency in order to ensure the traveling public is safe.

### **Principal Accountabilities**

1. Evaluates and develops policies and oversees the materials management program for the department's snow and ice control operations.
2. Directs the investigation and evaluation of new and existing materials, equipment, and procedures related to snow and ice operations.
3. Oversees and continually evaluates the materials management program for snow and ice operations including developing de-icing chemical specifications, testing criteria for new materials, procuring items for statewide operations, and providing guidelines for use at field locations.
4. Reviews and revises snow and ice maintenance instructional memorandums, policies, procedures, and standards to ensure proper staffing and budgeting.
5. Informs the public of program activities through presentations on various snow and ice removal topics and presents to groups such as law enforcement, schools, civic groups, local government agencies, professional snow and ice removal organizations, and other transportation departments.
6. Oversees the development of statewide plans for the reduction of blowing and drifting snow.
7. Assists with overseeing the department's RWIS consisting of weather sites that collect detailed roadway weather information used by operations supervisors throughout the year.
8. Works with vendors on service contracts needed for winter operations for all systems and provides periodic review for new contracting services.
9. Establishes the department's resource needs for successfully conducting snow and ice removal operations and works with the other offices to secure the needed resources.
10. Participates as a member of various state and national groups involving winter operations such as the Aurora and Clear Roads groups and is chairman of the department's statewide snow and ice committee.
11. Performs duties in compliance with departmental safety rules. Performs all duties in a manner conducive to the fair and equitable treatment of all employees.
12. Performs other duties as assigned.

### **Qualifications**

#### **Position Requirements**

- Current registration as a Licensed Professional Engineer in the state of Illinois
- Five years of experience in civil engineering
- In-state and out-of-state travel with occasional overnight stays
- Valid driver's license

#### **Position Desirables**

- Supervisory experience
- Experience in highway engineering and/or public works engineering
- Experience with highway engineering projects
- Ability to develop and maintain cooperative relationships with departmental staff
- Strong oral and written communication skills

**Work Hours:** 8:00 A.M. - 4:30 P.M. Monday-Friday

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

**Office:** Office of Highways Project Implementation/Bureau of Operations

**Agency Contact:** [DOT.CONTACTTHR@ILLINOIS.GOV](mailto:DOT.CONTACTTHR@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)