

Job Title: CIVIL ENGINEER III - GENERAL MATERIALS ENGINEER - IPR#44957

Agency: Department of Transportation

Closing Date/Time: 06/23/2022

Salary: \$5430 - \$9000 Monthly

Job Type: Salaried Full Time

County: Edgar

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

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

Agency Mission Statement

The Illinois Department of Transportation is seeking to hire a General Materials 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.

Employees enjoy excellent benefits, including health, vision and dental insurance; a retirement plan and deferred compensation options; state holidays and other time off; tuition reimbursement; flexible schedules; and pre-tax benefit programs. The department also offers extensive training and career advancement opportunities.

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 performing technical work in the areas of mixtures control, physical tests, and geotechnical engineering.

Value of Projects Requiring Quality Control: \$40 - \$80 million

This position reports to the Materials Engineer. This position is assigned to various sections as workload dictates during which temporary responsibility for this position will fall on the assigned supervisor. No subordinates report to this position.

This position provides basic engineering assistance to the various areas in the Materials section as needed. This position initiates investigations, analyzes basic technical problems, increases knowledge of continually changing specifications and testing procedures and tracks experimental features for all projects. A report of the findings is made along with recommendations that would improve the existing work conditions. This position is unique in that it requires the incumbent to acquire a general overall knowledge of the technical aspects of the work in the Materials section. This position will also assist with Quality Control for Performance (QCP) and Pay for Performance (PFP) test result tracking, reporting and calculation of final pay factors in significant Hot Mix Asphalt related projects.

Typical problems include the establishment of good relations and communication with material producers and suppliers, contractors, district personnel, local agencies and the Bureaus of Materials and Research. The greatest challenge for the position is to identify and develop ways to improve the methods and procedures presently being used to accomplish the work of the section.

(Job Responsibilities continued)

Functions personally performed by the incumbent include aggregate inspection, precast and miscellaneous product inspection, mixtures control, material certification and documentation, experimental feature documentation, tracking and reporting of material usage, geotechnical work and quality assurance sampling and testing. This position will research special projects and problems and prepare reports of the finding with recommendations for action.

The incumbent has the authority to act independently within his/her area of responsibility to keep his/her supervisor advised of the progress of work and to advise of situations that may become controversial. This position recommends the purchase of supplies, services, and equipment. This position operates within departmental rules, orders, policies, and specifications.

The incumbent has frequent contacts with material producers, suppliers, and construction personnel. S/He has occasional contacts with local agencies, engineering consultants and Federal Highway Administration. Significant district contacts include the Bureaus of Program Development, Local Roads and Project Implementation. Principle central office contact is with the central Bureau of Materials and central Bureau of Research. Occasional communication is required with adjacent districts to coordinate concrete placement from out of district plant locations. Extensive travel within the district and occasional travel outside the district are requirements of this position. Overtime may also be necessary to fulfil the duties of this position. The incumbent must obtain certification in Aggregate Technician (5 day), Portland Cement Concrete Level I and Hot Mix Asphalt Level I within one year of appointment. The incumbent must also successfully complete the Fundamentals of Engineering Exam within one year of appointment.

The effectiveness of this position can be measured by the solution of the more basic materials related problems through quality research and analysis. Also, performance can be evaluated with feedback from resident engineers, contractors, materials suppliers, and others with whom this position has contact.

Principal Accountabilities

1. Initiates, monitors and reports on special projects and experimental features or problems of a basic nature.
2. Reviews and recommends changes in policies and procedures involving materials inspection and testing.
3. Ensures that materials used in highway construction projects in the district substantially meet contract specifications.
4. Keeps abreast with technological advances in all phases of material testing.
5. Maintains a professional relationship with producers, suppliers, contractors, local agency officials and other contacts.
6. Assists as needed with QCP and PFP project coordination.
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.

Qualifications

Position Requirements

- Education/Experience
 - Completion of a bachelor's or master's degree in engineering from an ABET accredited college **OR** Engineer Intern license in the state of Illinois; **PLUS** 43 months of civil engineering experience
- Valid driver's license
- Extensive travel within the district and occasional statewide travel
- Outdoor work in a variety of conditions including, but not limited to, production facilities, active construction sites and roads open to traffic
- Ability to obtain certification in Aggregate Technician (5 day), Portland Cement Concrete Level I and Hot Mix Asphalt Level I within one year of appointment
- Successfully complete the Fundamentals of Engineering Exam within one year of appointment

Position Desirables

- Strong oral and written communication skills

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

Work Location: 13473 Il Highway 133 Paris, IL 61944-6731

Office: Office of Highways Project Implementation/Region 3/District 5/Bureau of Project Implementation

Agency Contact: DOT.CO.BPM.EmploymentApplications@illinois.gov

Job Function: 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 work.Illinois.gov homepage in the blue ribbon.

Non-State employees should log in on the using the "View Profile" link in the top right of the work.Illinois.gov 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** [\[KS\(1\)\]](#) and review the Internal Candidate Application Job Aid **HERE** [\[KS\(2\)\]](#)

Non-State employees: on work.Illinois.gov – click "Application Procedures" in the footer of every page of the website.