

Job Title: CIVIL ENGINEER TRAINEE- STUDIES & PLANS SQUAD MEMBER TRAINEE - IPR#45303

Agency: Department of Transportation

Closing Date/Time: 11/29/2021

Salary: \$4,365 - \$4,785 Monthly

Job Type: Salaried Full Time

County: Sangamon

Number of Vacancies: 5

Plan/BU: NR916

DO NOT APPLY ONLINE

****DO NOT CLICK THE APPLY BUTTON****

HOW TO APPLY:

Technical Applications PM1080 (rev 8/21/21) 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 by the closing date listed above. The previous application form revised 3/8/21 will be accepted until October 2, 2021. Please visit <https://idot.illinois.gov/about-idot/employment-opportunities/employment/index> to download the Technical Application PM1080.

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.

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 27, 2021, October 27, 2021 and November 29, 2021. 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.

Please indicate IPR#45303 on the Technical Application PM1080.

Agency Mission Statement

The Illinois Department of Transportation is seeking to hire Studies & Plans Squad Member Trainees. 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 detailed tasks associated with the preparation of design studies, contract plans, and specifications for highway improvement projects.

This position reports to the Plan Project Squad Engineer. No subordinates report to this position.

The position will be enrolled in a rotation program and will be assigned to various sections or bureaus in the district. These responsibilities may involve performing various assigned duties within the sections of Programming, Studies and Plans, Project Support, Land Acquisition, Construction, Materials, Local Roads & Streets, Maintenance, Bridges, and Traffic. Upon completion of the rotation program, the district will work with the incumbent to determine a permanent bureau assignment, taking into consideration bureau needs and staffing levels.

The incumbent is a member of an interdisciplinary study team which is responsible for highway projects from initial planning work through preparation of contract plans and specifications. This function primarily involves tasks assigned by the Squad Leader which may involve review of alternate corridors and alignments for both new highway systems and the reconstruction of existing facilities, and the preparation of contract plans. Contract plans, and the special provisions, must be accurate, complete, in accordance with design policy and predetermined schedules, and be done in such a manner that the plans and special provisions are clear in construction phasing and sequence to help contractors in preparing bids. The proposed design plans must be coordinated with other agencies so that completed plans may be ready for letting according to schedule.

Typical problems encountered by the incumbent include developing the parameters for the project studies that need to be made, determining what data is available, developing feasible alternates, resolving technical and procedural problems, developing hydraulic design of culverts and ditches, staging construction work to provide adequate working room for the contractor and to ensure convenience and safety for the traveling public, and coordinating the proposed design with the needs of other agencies. The incumbent's greatest challenge is to provide the most cost-effective design for the proposed transportation facility within the allotted time frames while weighing engineering design factors along with various social, economic, safety, and environmental factors.

(Job Responsibilities continued)

Functions personally performed by the incumbent include gathering data for project studies and reports; determining design alternatives; evaluating adequacy, right-of-way requirements, costs, and environmental factors; preparing design reports which document the project study; determining grade lines; conducting drainage analysis for storm sewer design; developing special design details; preparing and checking earth work computations; and calculating quantities for all pay items.

The incumbent must perform duties in accordance with the guidelines of the American Association of State Highway and Transportation Officials (AASHTO) Design Manual, the Illinois Department of Transportation's Policy and Procedures Manual, and design policies and procedures. This position evaluates alternatives, including solving problems not covered under policies, and makes recommendations to the Squad Leader.

The incumbent has frequent contact with the district Bureaus of Operations and Implementation, as well as virtually every section within the district Bureau of Program Development. Coordination outside the department is with outside agencies and property owners. Travel is required.

The effectiveness of this position is measured by the quality and timeliness of corridor, design, and combined reports, and the completion of contract plans and specifications by prescribed letting dates.

Principal Accountabilities

1. Prepares the engineering sections for corridor, design and combined location studies in an accurate and timely manner.
2. Prepares and recommends alternative designs for location studies.
3. Assists with information meetings, public hearings, and presentations to describe projects.

4. Ensures plans prepared are accurate, complete, and in compliance with design standards and specifications, and depict the most cost-efficient design.
5. Coordinates the activities of other sections within the bureau to ensure plans are completed in time to meet prescribed letting dates.
6. Performs duties in compliance with departmental safety rules. Performs all duties in a manner conducive to the fair and equitable treatment of all employees.
7. Performs other duties as assigned.

Qualifications

Position Requirements

- Education/Experience:
 - Completion of a bachelor's degree in engineering from an ABET accredited college OR a master's degree in engineering OR a current Engineer Intern License in the state of Illinois
 - includes those expecting to graduate in fall 2021 or spring 2022
 - Minimum 2.5 cumulative GPA in engineering related courses (If GPA is between a 2.0-2.5, candidate must have passed Fundamentals of Engineering Exam.)
- Valid driver's license
- Travel

Position Desirables

- Strong oral and written communication skills

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

Work Location: Springfield - 126 E Ash St

Office: Office of Highways Project Implementation/Region 4/District 6/Program Development

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

Job Function: Transportation

Collective Bargaining Agreement language applies to this requisition

We are currently transitioning our application process away from paper process to an electronic application process. This position has not been transitioned please follow the directions below when applying to this position.

Please visit the IDOT website at <http://www.idot.illinois.gov/about-idot/employment-opportunities/employment/index> to obtain the required bid forms and application forms.