

# Job Title: CIVIL ENGINEER TRAINEE - GEOTECHNICAL ENGINEER TRAINEE - IPR#44864

**Agency:** Department of Transportation

**Closing Date/Time:** 04/27/2021

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

**Job Type:** Salaried Full Time

**County:** Sangamon

**Number of Vacancies:** 2

**Plan/BU:** NR916

Technical Applications PM1080 (rev 10/16/20) 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. 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: February 26, 2021, March 26, 2021 and April 27, 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#44864 on the Technical Application PM1080.

## **Agency Mission Statement**

The Illinois Department of Transportation is seeking to hire Civil Engineer 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.

## **Qualifications**

Position Requirements

- Completion of a master's or bachelor's degree in engineering from an ABET accredited college OR a current Engineer Intern License in the state of Illinois (includes those expecting to graduate in the spring of 2021)
- Minimum 2.5 cumulative GPA in engineering related courses (If 2.0-2.5 GPA, candidate must have passed Fundamentals of Engineering exam)
- Occasional overnight travel is required
- Valid driver's license

Position Desirables

- Strong oral and written communication skills

## **Job Responsibilities**

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This position provides structural engineers with geotechnical recommendations on simple projects so that the most cost effective, safe, and durable structure is constructed. This is accomplished by performing simple analyses, to design foundations supporting bridges, retaining walls, culverts, and other traffic structures or to review foundations designed by consultants. The incumbent provides foundation and geotechnical design parameters, plan modifications, and specification input to the structural engineer so the contract documents do not create construction delays or contractor claims. In addition, this position assists the districts, contractors, consultants, and in-house structural engineers in responding to or resolving soils related design and construction problems.

Principal Accountabilities

1. Prepares and/or reviews consultant Structure Geotechnical Reports on simple projects.
2. Reviews foundations and geotechnical aspects of structural consultant and in-house TSL plans for simple structures.
3. Reviews foundations and geotechnical aspects of structural consultant and in-house final plans for simple structures.
4. Reviews simple construction submittals including cofferdams, seal coats, temporary soil retention systems, drilled shaft installation procedures, ground modification designs, tie-back anchor and micro-pile designs, value engineering, construction problems, Mechanically Stabilized Earth (MSE) and soil nailed wall internal stability, noise wall foundations, and other less common requests.
5. Reviews simple local agency structure foundations and geotechnical reports as well as repair plans for foundations, slopes, and retaining walls.
6. Designs simple shaft foundations for high mast light towers, overhead sign trusses, and traffic signal mast arms when standard design tables provided on the standard base sheets and manuals cannot be used.
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.

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

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

**Office:** Office of Highways Project Implementation/Bureau of Bridges & Structures

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

**Job Function:** Sciences and Natural Resources; 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 <https://idot.illinois.gov/about-idot/employment-opportunities/employment/index> to obtain the required bid forms and application forms.