

Job Title: ENGINEERING TECH I - JUNIOR LABORATORY TECHNICIAN - IPR#44933

Agency: Department of Transportation

Closing Date/Time: 04/15/2021

Salary: \$2,695 - \$4,735 Monthly

Job Type: Salaried Full Time

County: Sangamon

Number of Vacancies: 1

Plan/BU: NR916

DO NOT APPLY ONLINE

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

HOW TO APPLY:

Technical Applications PM1080 (rev 3/8/21) 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 10/16/20 will be accepted until May 8, 2021. The previous application form revised 10/16/20 will be accepted until May 8, 2021. Please visit <https://idot.illinois.gov/about-idot/employment-opportunities/employment/index> to download the Technical Application PM1080.

Please indicate IPR#44933 on the Technical Application PM1080.

Applicants may submit college transcripts for completed coursework.

*This position is subject to a pre-employment physical examination and drug and alcohol testing.

Agency Mission Statement

The Illinois Department of Transportation is seeking to hire a Junior Laboratory Technician.

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 laboratory tests and recording the results on materials used for district, county, local and other state agency transportation projects.

This position reports to the Laboratory Supervisor. No subordinates report to this position.

This is an entry-level position subject to a rotation program. This position is of a technical nature and performs various tests on materials gathered, collected or purchased for use in district transportation projects which ultimately results in the acceptance or rejection of the material tested. Information and test results provided by this position assist management during the construction of projects.

The incumbent is required to successfully obtain Illinois Department of Transportation (IDOT) Quality Assurance/Quality Control (QNQC) certification in Aggregate and Hot Mix Asphalt (HMA) Level I within

twelve months of hire date. In the performance of duties, the incumbent must have the ability to do basic algebraic calculations.

Typical problems encountered include matching the samples tested with the appropriate specifications and reporting the results in a timely manner to prevent delays in the field. The greatest challenge is accurately testing materials and samples so that acceptance or rejection decisions are based on the actual physical qualities of the material tested.

Functions performed by the incumbent include conducting various types of laboratory tests and keeping records of tests and maintaining, repairing and calibrating laboratory and field test equipment. The incumbent is required to perform data entry into various computer programs including MISTIC and Excel spreadsheets. Some of the laboratory tests include: hot mix asphalt extractions, superpave gyratory tests, core density testing, Portland Cement Concrete (PCC) compressions and flexural strengths, soil tests for hydrometer analysis, Atterberg limits and sieve analysis, moisture-density relationships of soils and aggregates and gradation tests of aggregates. The incumbent must have the ability to lift 50 pounds and traverse stairs, ladders and rough terrain; work overtime during construction season; and have a valid drivers' license as s/he may need to work out in the field occasionally (in a variety of conditions including, but not limited to, active construction sites, drilling sites, and roads open to traffic) in order to obtain samples.

(Job Responsibilities continued)

This position operates within the guidelines established in the American Society for Testing and Materials

(ASTM) Manual, the American Association of State Highway and Transportation Officials (AASHTO) Manual and all applicable departmental guidelines. S/He works under the close supervision of the Laboratory Supervisor. The incumbent processes samples and submits reports to the Area Bituminous Mixtures Supervisor who makes the acceptance, rejection or any other decision which is indicated. Any questions which arise during the testing will also be directed to the Laboratory Supervisor.

The incumbent has internal contacts with other sections in the district Bureaus of Project Implementation and Operations during the accomplishment of assignments. Externally, s/he has contacts with suppliers, producers, county and local agencies for gathering information. This position may require overtime and overnight travel.

The effectiveness of this position can be measured by the ability of the incumbent to ensure that the materials are tested in accordance with the proper standards.

Principal Accountabilities

1. Performs materials tests to determine whether the product conforms to approved standards and/or determine properties of the product.
2. Maintains complete and accurate materials test records.
3. Assists in calibrating and maintaining laboratory testing equipment to ensure information is accurate.
4. Performs data entry.
5. Maintains, repairs and calibrates field testing equipment.
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 two years of college in civil engineering technology, pre-engineering or a job related technical/science curriculum OR
 - Two years of engineering experience
- IDOT QC/QA Certification in, or ability to successfully obtain IDOT QC/QA Certification in, Aggregate and HMA Level I within twelve months of hire date
- Ability to lift 50 pounds, traverse stairs, ladders, and rough terrain

- District-wide travel
- Valid driver's license
- Overtime
- Outdoor work in a variety of conditions including, but not limited to, active construction sites, drilling sites, and roads open to traffic

Position Desirables

- Working knowledge of math to include algebra
- Working knowledge of materials testing and laboratory testing equipment
- Ability to communicate effectively and follow oral and written instructions

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

Work Location: Springfield - 126 E Ash St

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

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.