

Who we are:

Transportation is so basic that many of us overlook its overwhelming importance in our daily lives. Practically everything used in our homes, offices, or schools across Tennessee – from furniture to food items to clothing – requires a large and complex transportation network. The Tennessee Department of Transportation provides citizens of Tennessee and travelers with one of the best transportation systems in the country. TDOT is a multimodal agency with responsibilities in building and maintaining roads, aviation, public transit, waterways, railroads, cycling and walking. Our involvement ranges from airport improvements to funding transit buses to planning for river ports. The Department of Transportation has approximately 3,500 employees with four statewide region facilities in Knoxville, Chattanooga, Nashville, and Jackson.



Laboratory Operations Engineering Technician 4

Materials and Tests Division – Laboratory Operations Section, Laboratory Services
Nashville, TN
\$57,912 annually

Job Overview

The Laboratory Operations Engineering Technician 4 plays a crucial role in project-specific and program-wide testing of materials used in or produced for the construction of TDOT's transportation infrastructure. This position is knowledgeable in laboratory operations, equipment calibrations, materials testing operations, and the Laboratory Quality Management System Manual (QMSM) ensuring the sustainability of the Department's Work Program.

The Laboratory Operations Engineering Technician 4 assists, based on test results, in determining if Department specifications, policies, and technical guidance have been met by the materials used or products produced for use in the construction of TDOT's transportation infrastructure. This position must effectively articulate materials laboratory testing-related concepts through mentoring and collaborating as part of a matrix organization and participate with the implementation of the ProPath program.

Essential Job Responsibilities

Assist with supporting Project Teams and the efficient delivery of TDOT's Work Program by testing and reporting on the quality of materials used and products produced for use in the construction of TDOT's transportation infrastructure.

Ensure all material testing and reporting is done in accordance with QMSM, American Association of State Highway Transportation Officials (AASHTO), American Society for Testing and Materials (ASTM), and other applicable specifications, testing protocols, laboratory accreditation requirements, and/or Standard Operating Procedures (SOPs).

Effectively communicate technical ideas to Laboratory Services Team members and other internal and external stakeholders. Assist in training Laboratory Services Team in AASHTO Test Methods, TDOT specifications, SOP's, and ProPath program.

Assist with SiteManager and AASHTOWare Project (AWP) for materials-related laboratory testing, data entry, and reporting.

Support Materials and Pavements and Materials and Tests research projects by assisting in testing.

Assist with the maintenance and inventory management of appropriate laboratory equipment in accordance with AASHTO standards and the QMSM.

Participate in the testing and analysis needed to meet the requirements of the AASHTO Accreditation Program proficiency sample program.

Remain current on laboratory testing competencies.

Provide exceptional customer service to internal and external project stakeholders. Exercise effective listening skills and communicate effectively.

Qualifications

- High school diploma or equivalent
- 4 years of demonstrated competency in laboratory operations
- Completion of the Engineering Technician Proficiency Program levels I through III.

OR

- High school diploma or equivalent
- 4 years of demonstrated competency in laboratory operations or related technical experience, including at least one (1) year of experience with delegating tasks on assignments and/or training employees, including effective communication through active listening, and providing verbal and written instructions.

OR

- Associate degree
- 2 years of demonstrated competency in laboratory operations or related technical experience, including at least one (1) year of experience with delegating tasks on assignments and/or training employees, including effective communication through active listening, and providing verbal and written instructions.

Ideal Candidate

The Laboratory Operations Engineering Technician 4 is proficient in all matters related to laboratory testing of materials and their associated equipment. They assist with creating an open environment that encourages communication and collaboration and are a role model in the laboratory for achieving accountability. The Laboratory Operations Engineering Technician 4 is collaborative and works closely with other laboratory staff to ensure laboratory output managed by the Department is of the highest quality, and they are passionate advocates for the importance of sound laboratory operations within TDOT.