

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.



Field Services Engineering Technician 4

Materials and Tests Division – Materials and Pavements Section, Field Services
\$57,912 annually

Job Overview

The Field Services Engineering Technician 4 plays a crucial role in providing expertise and independent oversight during construction to both Region Operations and construction, engineering, and inspection (CEI) personnel for sampling, testing, tracking, and reporting of materials. This position must be an expert in the full spectrum of materials that TDOT uses in the construction of transportation infrastructure. The Field Services Engineering Technician 4 assists with identifying potential materials-related challenges, minimizing variability in construction operations, and ensuring the sustainability of the Department's Work Program.

The Field Services Engineering Technician 4 assists Region Operations to ensure Department specifications, policies, technical guidance, and procedures are followed when conducting project site sampling, testing, tracking, and reporting oversight functions. This position must work effectively on a project site, in a Region laboratory, and in producer/supplier facilities and laboratories. The Field Services Engineering Technician 4 must be able to articulate technical concepts through training, mentoring, and collaborating as part of a matrix organization.

Essential Job Responsibilities

Assist with supporting Project Teams and the efficient delivery of TDOT's Work Program by serving as a materials specifications and construction oversight subject matter expert (SME). Assist with any project issues from TDOT Construction, contractor, supplier, or producer perspectives.

Integrate Quality Management into all deliverables to help ensure all independent oversight, sampling, testing, tracking, and reporting are timely, accurate, and sufficient to meet both federal and TDOT requirements.

Guide in-house and CEI field crews in conducting independent oversight requirements. Estimate time and equipment needed to accomplish required project site sampling and testing and make decisions in the field needed to accomplish oversight requirements and keep on schedule.

Assist with maintaining and monitoring training schedules and generating reports on training activity, personnel testing certifications, and progress. Deliver complete and accurate data required for materials certifications.

Assist with guiding and training in-house and CEI personnel to ensure adequate project level sampling, testing, and reporting is conducted to meet oversight requirements.

Remain current on the characteristics, uses, and specifications of the broad array of materials incorporated into TDOT transportation infrastructure projects. Act as a guide in sampling, testing, analyzing, and reporting on the various types of materials and products requiring independent oversight. Provide input on relevant specifications and sampling, testing, analyzing, and reporting technologies and techniques that contribute to delivering the Department's Work Program.

Assist in ensuring the Field Services deliverables are consistent, predictable, and repeatable to provide consistently high levels of achievement, mitigation of risk, and an established track record of success. Assist in analyzing and tracking all oversight data sets to ensure conformance to maximum error limits. Monitor, maintain and track physical assets and inventory, as required.

Provide exceptional customer service to internal and external project stakeholders by facilitating the sharing of acquired knowledge. Ensure project site testing data is easily accessible and organized. Assist Project Teams and stakeholders in understanding oversight requirements by exercising effective listening skills and communicating effectively.

Qualifications

- High school diploma or equivalent
- 4 years of demonstrated competency in Materials Engineering/Testing or a Highway Construction related field
- Completion of the Engineering Technician Proficiency Program levels I through III.

OR

- High school diploma or equivalent
- 4 years of demonstrated competency in Materials Engineering/Testing or a Highway Construction related field, including at least one (1) year of experience with guiding field crews or teams on project sites 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 Materials Engineering/Testing or a Highway Construction related field, including at least one (1) year of experience with guiding crews or teams on project sites and/or training employees, including effective communication through active listening, and providing verbal and written instructions.

Ideal Candidate

The Field Services Engineering Technician 4 is proficient in all matters related to required independent transportation infrastructure project oversight. They assist with creating an open environment that encourages communication and collaboration with their team and are a role model on field crews assisting with achieving accountability. The Field Services Engineering Technician 4 is collaborative and works closely with and assists with guiding field crews to ensure that all sampling and testing data collected and managed by the Department is of the highest quality, and they are passionate advocates for the importance of independent oversight within TDOT.