

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.



Materials Control Technical Coordinator 1

Materials and Test Division – Materials and Pavements Section, Materials Control
Nashville, TN
\$61,428 annually

Job Overview

The Materials Control Technical Coordinator 1 serves as the statewide Radiation Safety Officer for the Nuclear Gauge Program. This position is responsible for the administration of the dosimetry program for operators and calibration and safety testing of all nuclear gauges statewide. This position assists with developing training and policy for the safe and correct usage of the nuclear gauges for testing density of soils, aggregates, and asphalt.

Additionally, the Materials Control Technical Coordinator 1 position will serve as a statewide process reviewer of the other field-testing areas, ensuring Department specifications, standard operating procedures, and policies are being conducted properly statewide for assigned/focus areas. This position will be responsible for documenting, correcting, and confirming necessary corrective actions have been taken. This position will assist in the identification and education of areas of opportunity for improvement of field testing.

Essential Job Responsibilities

Support Project Teams and the efficient delivery of TDOT's Work Program by assisting in the efforts to ensure consistency, accuracy, and safety of all density testing statewide by establishing and verifying SOPs are being used when nuclear gauge operations are being carried out.

Oversee the dosimetry program, ensuring the dosimetry badges are assigned to qualified personnel using the nuclear gauge. Monitor exposure results and take necessary action should values exceed normal values.

Ensure TDOT is in compliance with the radiation license from the Tennessee Department of Environment and Conservation. Ensure gauges are operated, transported, and stored in compliance with the license and law.

Coordinate with Field Services to ensure that nuclear gauges are checked for leaks and are calibrated for accuracy each year.

Review training materials of the Radiation Safety and Nuclear Gauge Course and make necessary updates as needed. Conduct hands on nuclear gauge orientation training for staff with no prior experience. Assist in conducting training demos for the concrete field and aggregate technician classes.

Conduct routine spot checks of nuclear gauge operations statewide. Assess operators on safety, security, and precision of the test method.

Conduct process reviews for various field testing areas such as Concrete Fresh Properties, Aggregate Gradations, Asphalt Field Labs, and other areas related to the Division's focus.

Assist with pavement testing, including skid testing and core cutting.

Provide exceptional customer service to project stakeholders and approved product producers by exercising effective listening skills and communicating effectively.

Qualifications

- Associate's or bachelor's degree
- 3 years of demonstrated competency in Materials Engineering/Testing and Highway Construction related field

OR

- Education equivalent to graduation from high school
- 5 years of demonstrated competency in Materials Engineering/Testing and Highway Construction related field

Ideal Candidate

The Materials Control Technical Coordinator 1 has extensive experience in using nuclear density gauges to determine the compaction of soils, aggregates, and asphalt. They possess excellent organizational skills and are proactive, always seeking ways to make improvements. They are firm but fair and have the courage to hold people accountable. Safety and quality are their top priorities in all activities.