

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. TDOT Aeronautics is located near the John C. Tune Airport in Nashville, TN.



Standards Statewide Transportation Engineer
Traffic Design Division – Production Support Section
Nashville, TN
\$115,008 annually

Job Overview

The Standards Statewide Transportation Engineer will manage all aspects of TDOT's standards program within the Traffic Design Production Support Section. This position will provide support to Project Teams directly responsible for delivering projects for all phases of the Project Delivery Network (PDN) according to the project's scope, budget, and risk. These projects will range in complexity and risk from simple to exceedingly complex. This position will coordinate and oversee the development of the standards program as developed by the unit and consultants to seek better ways to manage the quality, consistency, coordination, specification language, drawings, organization, and automation access and processing of standards documentation needs.

This position will serve as the Standards Statewide Transportation Engineer for TDOT Traffic Design, establishing oversight, maintenance, and standard application of strategies related to the creation and regular updating of traffic, pavement marking, signs, signals, safety, work zone, ITS, and managed lanes transportation facility standards to ensure they meet federal, state, and local requirements. This position will develop standard construction and material specifications to guide statewide projects. This position will also draft, review, and publish engineering manuals, policies, and design criteria. This work includes developing standards training and reference guides as well as preparing specifications, correspondence, reports, programs, contracts, and work authorizations at Headquarters and the Regions. This position must effectively articulate technical concepts through training, mentoring, and collaborating as part of a matrix organization. The Statewide Standards Transportation Engineer assists other subject matter experts with monitoring and managing the scope, schedule, and budgets of all transportation projects and works with the Project Management Division to make the required adjustments as necessary to ensure that the work completed is in alignment with the Department's Asset Management and Strategic goals.

Essential Job Responsibilities

Serve on teams as part of a matrix organization by providing technical expertise related to transportation standards elements for both stand-alone projects and in support of traffic, pavement marking, signs, signals, safety, work zone, ITS, and managed lanes facilities design project visions; adhere to traffic services-related critical goals and intended outcomes for the scope, schedule, budget, and quality in coordination with the Project Manager, applying multi-modal context-sensitive

standards design strategies; implementing innovative concepts and proactively assessing risk factors.

Ensure exceptional customer service to both internal and external customers by exercising effective listening skills, providing prompt responses, maintaining complete and accurate documentation, excellent writing skills, and communicating effectively.

Remain current on national best practices related to standards and on the Manual on Uniform Traffic Control Devices (MUTCD) within TDOT's Traffic Design Division as it relates to transportation projects, emerging technologies, and operations activities. Ensure compliance with the standards, specifications, and design of traffic control and operational measures, assist with the development of plans, legislation, and regulations that seek to increase traffic technologies, inspire innovation, and improve safety and mobility for TDOT employees, contractors, and the traveling public. Integrate standards considerations and statutory and regulatory requirements into TDOT's guidance documents, processes, and procedures.

Routinely collaborate with the Production Support Section to identify and document knowledge that includes maximizing project successes, acknowledging national best practices, and avoiding past errors. Assist with modifications to all applicable policies, procedures, design standards, manuals, specifications, and special provisions. Work collectively with stakeholders to ensure proper operations and coordination with adjacent facilities.

Serve on selection committees for professional engineering services as part of the Brooks Act, including assistance with RFP development, attendance at project-specific marketing meetings, assistance with determining scoring criteria, assistance with project information sessions, when applicable, serving as a scorer as part of the consultant acquisition process, and attendance at de-briefs for consultants where usable feedback must be provided. Review and give final approval to consultant submittals to determine if a consultant is qualified to perform standards applications and/or operational type work. Review, advise, and make recommendations to ensure that project standards are completed on time. Provide technical recommendations to higher-level management for the acquisition of public-private partnerships (PPP) and implementation of standards.

Serve as the Standards Program Subject Matter Expert (SMEs) for the Department to review and give approval of the standards program, including but not limited to; regulatory compliance and alignment, plan review, drafting standards for projects, quality assurance, and ensuring consistency and uniformity in applying standards developed by consultants and in-house for contract letting and in support of Design's projects. Assist in resolving engineering issues that arise during project planning, design, and construction. Participate in evaluations to improve cost-effectiveness and efficiency of designs. Establish and monitor metrics for the effectiveness of design and construction standards. Prepare reports and updates for executive leadership and state officials regarding the status and impact of standards.

Research and implement new technologies and techniques to improve TDOT standards, processes, and quality. Ensure standards comply with FHWA (Federal Highway Administration) regulations and align with national best practices such as AASHTO (American Association of State Highway and Transportation Officials) and other applicable TDOT policies, procedures, and guidelines. Assess program sustainability and ensure consistency and uniformity in applying standards. Monitor projects for compliance with established standards and conduct periodic audits.

Assist in the development of training according to the TDOT Technical Training Director requirements that address standards objectives, benefits, risk management, technical asset management elements, and emerging technologies related to standards in transportation to improve team performance, create a stronger understanding of the transportation industry, inspire new ideas, and develop skills. Conduct training sessions on new standards software, data collection techniques, and regulatory changes. Ensure that internal stakeholders are well-informed and stay current with and contribute to leading practices, training, and education. Ensure deliverables are consistent,

predictable, and repeatable to provide consistently high levels of achievement, mitigation of risk, and an established track record of success.

Maintain and update the Department's standards inventory system, coordinate with and work collectively with the Asset Management Division, and work collectively with the statewide project and program development engineers and the Production Support Section Manager to ensure proper design, implementation, and maintenance of the standards program and database system.

Qualifications

- Bachelor's degree in engineering
- Licensed Professional Engineer (PE)
- 12 years of demonstrated competency in the traffic engineering field

Ideal Candidate

The Standards Statewide Transportation Engineer is a highly skilled and dedicated professional who places great importance on the efficiency, quality, and accessibility of standards. They are confident in their strategic thinking abilities and are always seeking ways to optimize system effectiveness and process improvement. They make informed decisions that lead to improvements while keeping projects on schedule and within budget. The Standards Statewide Transportation Engineer is passionate about collaborating with various stakeholders, including government agencies, contractors, and community members to address transportation issues. They possess exceptional project management and leadership skills, which are complemented by strong analytical and problem-solving abilities. By staying up-to-date with emerging technologies and best practices, they continually strive to improve system efficiency and effectiveness.