

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.



Statewide Choice Lanes Transportation Engineer

Traffic Design Division – Production Support

\$118,500 annually

Job Overview

The Statewide Choice Lanes Transportation Engineer is a statewide transportation engineer position that will manage all aspects of TDOT's choice lanes program within Production Support. This position will provide support to Project Teams directly responsible for delivering projects for all phases of the Project Delivery Network (PDN) in accordance with 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 choice lanes program as developed by the unit and consultants to seek better ways to manage the flow of traffic on existing facilities, relieve congestion, improve safety, and provide users with travel options.

This position will serve as the Statewide Choice Lanes Transportation Engineer for TDOT, establishes the design, operation, maintenance and standard application of transportation system management and operations (TSM&O) strategies related to choice lanes or a set of lanes where operational strategies are proactively implemented and managed in response to changing conditions. This work includes developing standards training, reference guides and manuals, as well as preparing correspondence, reports, programs, contracts, and work authorizations at the Regions and Headquarters. This position must effectively articulate technical concepts through training, mentoring, and collaborating as part of a matrix organization. The Statewide Choice Lanes Transportation Engineer assists with monitoring and managing the scope, schedule, and budgets of all transportation choice lanes projects and working 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 Project Teams as part of a matrix organization by providing technical expertise related to transportation choice lanes elements for both stand-alone projects and in support of larger roadway design project visions for those projects having the highest complexity; adhere to traffic services-related critical goals and intended outcomes for the scope, schedule, budget, and quality in coordination with the Project Manager, applying context-sensitive design strategies; implementing innovative concepts; 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, and communicating effectively.

Remain current on national best practices related to choice lanes and on the Manual on Uniform Traffic Control Devices (MUTCD) within TDOT's Traffic Design

Division as it relates to choice lanes transportation projects, facilities, emerging technologies and operations activities; serve in the role of the Statewide Choice Lanes Transportation Engineer to 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 mobility for TDOT employees, contractors, and the traveling public; and integrate choice lanes considerations and statutory and regulatory requirements into TDOT's guidance documents, processes, and procedures.

Routinely identify, document, and effectively collaborate with the Production Support Section acquiring 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 choice lane applications and/or operational type work. Review and give final approval of operational strategies and choice lane implementation strategies. Review, advise, and make recommendations to ensure that projects are completed on time. Provide technical recommendations to higher level management for the acquisition of public-private partnerships (PPP) and implementation of choice lanes.

Serve as the Choice Lanes Program Specialist for the department to review and give approval of the choice lanes program, including but not limited to; pricing HOT/HOV lanes, ramp metering, hard shoulder running, reversible lane management, value pricing, integrated corridor management, and access control, developed by consultants and in-house for contract letting and in support of Design's projects. Review and give final approval to design and attend meetings for plans prepared by consultants or in-house. Review, develop and approve threshold values, vehicle eligibility, choice lane strategies, monitoring/evaluation plans, maintenance costs/considerations, and life-cycle considerations for choice lanes. Coordinate with Traffic Operations on Intelligent Transportation System (ITS) operations, choice lanes and maintenance.

Provide technical expertise that ensures the contractual agreements, scope, schedule, budget, and quality of all choice lanes projects support the delivery of the Department's Work Program while also ensuring compliance with Federal and State traffic design and regulations.

Assist in the development of training that addresses acquired knowledge, choice lanes objectives, and technical design elements related to transportation for the purpose of improving team performance, creating a stronger understanding of the transportation industry, inspiring new ideas, and developing skills.

Maintain and update the department's choice lanes inventory system, coordinate, and work collectively with the Asset Management Division. Work collectively with the Statewide ITS Transportation Engineer and the Statewide Pavement Marking & Signing Engineer to ensure proper design, implementation, operations and maintenance of the choice lanes and asset inventory.

Qualifications

- Bachelor's degree in engineering
- 12 years of demonstrated competency in traffic engineering

Necessary Special Qualifications

- Licensed Professional Engineer (PE)

Ideal Candidate

The Statewide Choice Lanes Transportation Engineer is a highly skilled and dedicated professional who places great importance on mobility and efficiency. They are confident in their strategic thinking abilities and are always seeking ways to optimize traffic flow. By utilizing traffic data and trends, they make informed decisions that lead to improvements while keeping projects on schedule and within budget. The Statewide Choice Lanes 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.

General Work Conditions

Yes / No

- Is this position generally performed in an office environment?
- Will work for this position be frequently performed in a field environment and may sometimes require working in inclement weather, working in a construction site, being exposed to heavy construction equipment, and doing extensive walking?
- Is this position a combination of office and field environment?
- Is an alternative work schedule including work from home eligible for this position? If yes, how many days will it be work from home and how many days in office?
 -Days from home: up to 2 days
 -Days from office: up to 3 days
- Is this position required to work under exposure to inclement weather and environmental conditions?
- Will this position require travel including overnight?

Physical Requirements	<i>Select the frequency of each physical activity. The activity must be related to the position and consistent with business necessity.</i>			
Physical Activity Required	None	Occasional (less than 1/3)	Frequent (1/3 to 2/3)	Regular (more than 2/3)
Standing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Walking	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bending	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reaching/stretching overhead	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Crouching or stooping	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Balancing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pushing or pulling	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Repetitive use of hands/arms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Repetitive use of legs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Grasping	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lifting – check the frequency for each weight range below. If the job doesn't require any lifting activities, check "None" on each line below.				
Up to 20 pounds	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21 - 50 pounds	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
51 – 75 pounds	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Carrying - check the frequency for each weight range below. If the job doesn't require any carrying activities, check "None" on each line below.				
Up to 20 pounds	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21 - 50 pounds	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
51 - 75 pounds	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Eye/hand coordination	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Speaking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Hearing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Seeing (with correction)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Close vision	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Distance vision - ability to see objects clearly from a distance, usually from 20 feet or more.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Color vision/perception - ability to distinguish colors.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Peripheral vision - what is seen on the side by the eye when looking straight ahead.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Depth perception - ability to judge the distance of objects and the spatial relationship of objects at different distances.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Position Description Team Members	<i>Provide a list of SMEs who helped develop the position description. Include name and work area.</i>
Lori Lange	TDOT, Assistant Chief Engineering
Joe Deering	TDOT, Assistant Chief Program Delivery
Andy Barlow	TDOT Director, Traffic Design
Jen Foley	RIC
Mark Geib	RIC
Tom Byron	RIC
Lauren LeJeune	RIC