

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.



Region Transportation Engineer

Region Preconstruction

\$109,524 annually

Job Overview

The Region Transportation Engineer provides design-related technical expertise to Region Preconstruction Teams. This position collaborates with Project Teams by identifying design challenges, offering risk-based solutions, and implementing innovative concepts that integrate with all disciplines. This position must effectively articulate technical engineering concepts through training, mentoring, and collaborating as part of a matrix organization.

The Region Transportation Engineer ensures Department policies, technical guidance, and procedures are incorporated into preconstruction deliverables and assists in implementing the Quality Assurance Program as part of the Region's preconstruction activities.

Essential Job Responsibilities

Strengthen Region Preconstruction Teams by providing technical expertise related to transportation design elements to allow preconstruction staff to perform their roles effectively and efficiently, optimizing the Team's ability to successfully address unanticipated challenges.

Integrate Quality Management into all deliverables in compliance with the PDN with the purpose of reducing plan errors, right-of-way delays, construction delays, and contractor claims; assist Project Teams by providing reviews as part of TDOT's Quality Assurance Program; assist the Quality Team by serving as the Quality Assurance for PS&E Packages; and address errors and omissions for consultant-prepared construction plans by tracking, assessing, implementing solutions, and negotiating settlements.

Routinely identify, document, and effectively collaborate with HQ on acquired knowledge that includes maximizing project successes and avoiding past errors as part of modifying all applicable standards, policies, and metrics.

Serve on Project Teams for complex projects as part of a matrix organization in developing the project vision; defining critical goals and intended outcomes for the scope, schedule, budget, and quality in coordination with the Project Manager; supporting the Project Team as an expert witness when applicable; applying context-sensitive design strategies; proactively assessing risk factors; and, for Project Teams associated with Alternative Delivery Contracts, forecasting the cause and effect of implementing Alternative Technical Concepts related to the Request for Proposal (RFPs), project cost, and construction timing.

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

Remain current on revisions to design codes, standards, and guidelines related to transportation design components; perform the design and analysis of design components for complex projects; and assist with Risk Assessments.

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

Assist in the development of a consultant acquisition plan and assist in the oversight of external partners by serving on selection committees for professional engineering services as part of the Brooks Act, including assisting with RFP development, attending project-specific marketing meetings, assisting with determining scoring criteria, assisting with project information sessions, when applicable, serving as a scorer as part of the consultant acquisition process, and attending at de-briefs for consultants where usable feedback must be provided.

Contribute to statewide technical committees related to preconstruction elements to provide innovative solutions for the resolution of complex issues.

Assist in ensuring preconstruction deliverables are consistent, predictable, and repeatable to provide for consistently high levels of achievement, mitigation of risk, and an established track record of success.

Qualifications

- Bachelor's degree in Engineering
- Licensed Professional Engineer (PE)
- 8 years of demonstrated competency in developing and/or constructing transportation projects

Ideal Candidate

The Region Transportation Engineer is the go-to technical expert on all thing's transportation design. The Region Transportation Engineer is called upon to solve those challenges that require innovative engineering solutions for matters that are so complex and dependent upon so many factors that it's difficult to know where to start. They oversee the methods, processes, and standards that ensure technical soundness for preconstruction activities and deliverables. Though the Region Transportation Engineer has a strong technical component that requires them to grasp emerging technologies and design best practices, they are also a coach and mentor to their team. They can articulate an enterprise vision and translate complex concepts to various audiences. They have great communication and collaboration skills and work well in a matrix environment to ensure all project teams have the technical input and direction to implement their projects successfully.