

## 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.



**Bridge Rating Statewide Transportation Engineer**  
Engineering Division – Bridge Performance Section  
Nashville, TN  
\$115,008 annually

### **Job Overview**

The Statewide Bridge Rating Transportation Engineer is a statewide transportation engineer position that will oversee all aspects of TDOT Regions' bridge performance and ratings. The work will range in complexity and risk from simple to highly complex. The role of this position requires collaboration with multiple TDOT Divisions, Regions, project team members, contractors, consultants, and other external stakeholders. This position requires critical thinking and engineering judgment to problem-solve and make well-informed decisions that increase the safety, performance, sustainability, and efficient delivery of TDOT's transportation system.

The Statewide Bridge Rating Transportation Engineer ensures Department policies, technical guidance, procedures, software, and systems-related to Bridge Performance and Ratings are current and accurate. This position will assist in implementing the Quality Assurance Program as part of the Engineering Division's activities to reduce errors and delays. This position works with the Project Management Division 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 as the Statewide Bridge Rating Transportation Engineer Subject Matter Expert (SME) and liaison between the Bridge Rating Teams, Bridge Preservation Section, Bridge Design Section, Region Bridge Engineers, and national organizations that supports transportation design elements; provide quality assurance review inspection, load rating and evaluation procedures to ensure compliance with state and federal regulations. Ensure accuracy of bridge inspection data needed for ratings and collaborate with Region Bridge Engineers regarding Federal standards and regulations. Coordinate and ensure accurate and timely data for conducting bridge ratings, repair, and bridge load rating postings.

Manage and take ownership of change, articulate your vision for TDOT's bridge rating activities, communicate effectively, remain transparent, and hold yourself accountable to develop, maintain, and grow TDOT's bridge rating and inspection capabilities, data, software, and systems.

Routinely collaborate with HQ and Asset Management to identify and document knowledge on industry best practices to avoid past errors and ensure TDOT project successes. Collaborate and coordinate with the TDOT Statewide Structural Design

Engineer to partner with industry, FHWA, and internal staff to lead a structural and ancillary process improvement team. This team will be responsible for improving the delivery and critical issues of concern needed to ensure safety for the public, workers, and staff. The committee will develop program strategies and policy recommendations, resolve major field issues, and lead efforts that continually improve structural and ancillary structures, program procedures, guidance documents, specifications, standards, special provisions, project delivery mythologies, and techniques.

Assist in the development of Consultant Acquisition Plans (CAP) and oversight of external partners by serving on selection committees for professional engineering services. Provide support in the development of the Request for Proposal (RFP), attending project-specific marketing meetings, determining scoring criteria, participating in project information sessions, serving as a scorer as part of the consultant acquisition process, and attending de-briefs with consultants. Conduct independent reviews of the engineer's cost estimate at project milestones during pre-construction activities and provide the final cost estimate that encompasses relevant factors related to the scope of a project, the cost of resources, and national and global market trends.

Remain current and participate on national committees related to bridge rating best practices, safety improvements, and design recommendations; assist with the development of legislation and regulations that improve bridge ratings standards and procedures. Participate in regional/national working groups and training opportunities related to bridge rating.

Provide exceptional customer service to internal and external customers by exercising effective listening skills, providing prompt responses, maintaining complete and accurate documentation, coordinating with other disciplines as part of a matrix organization, and communicating effectively.

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

Participate on technical review committees for consultant evaluation and selection. Assist in ensuring the Bridge Rating Team deliverables are consistent, predictable, and repeatable to provide consistently high levels of achievement, mitigation of risk, and an established track record of success. Ensure alignment and compliance with Division and Section Metrics and Performance goals.

### **Qualifications**

- Bachelor's degree in civil engineering, with an emphasis in structural engineering preferred
- Licensed Professional Engineer (PE)
- 12 years of demonstrated competency in a bridge rating / bridge engineering related field
- National Bridge Inspection Standards (NBIS) and (Nonredundant Steel Tension Members) NSTM Team Leader certified preferred

### **Ideal Candidate**

The job of a Statewide Bridge Rating Transportation Engineer revolves around structures. They are well-rounded engineers with expertise in all aspects of structural engineering. These engineers are team players who are always willing to help with complex issues while coaching and mentoring others to ensure a smooth transition for years to come. They have excellent communication and collaboration skills, which are just as important as their structural analysis and design abilities. Their meticulous attention to detail, combined with their willingness to give advice, fosters a collaborative environment that promotes a safer transportation system in Tennessee.