

## 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.



### **Utilities Deconfliction Engineering Specialist**

Regional Preconstruction – Utilities Section, Deconfliction

\$80,784 – \$88,860 annually

#### **Job Overview**

The Region Utilities Deconfliction Transportation Engineering Specialist 3 and 4 will assist in providing guidance and support services for projects in accordance with the project's scope, budget, and risk. This position employs Department policies, technical guidance, and procedures related to TDOT's Regional Utilities Deconfliction Team in producing deliverables and implementing the Quality Assurance Program as part of the Department's Work Program.

The Region Utilities Deconfliction Transportation Engineering Specialist 3 and 4 assist in proactively identifying TDOT projects that may involve utility infrastructure and pursue opportunities to identify, avoid, and/or minimize conflicts with utilities. This position is responsible for collaborating with internal and external stakeholders, including Project Teams, TDOT Divisions, Regions, and contractors, to ensure contractual requirements are met.

The Region Utility Deconfliction Transportation Engineering Specialist 3 and 4 will continuously evaluate performance indicators to implement acquired knowledge into policies and procedures that mitigate the Department's risk and increase performance as part of fulfilling TDOT's strategic vision. This position must effectively articulate data and technical concepts through training, mentoring, and collaborating as part of a matrix organization.

#### **Essential Job Responsibilities:**

##### **Essential Job Responsibilities of TDOT Transportation Engineering Specialist 3 and 4 include:**

Serve as a resource for Project Teams by defining the scope of work related to utility coordination and deconfliction tasks; assist in coordination for early notification to team members; ensure proactive and routine coordination with utility owners; and assist with coordination of plans distribution. Identify prioritization of utility relocations; perform plan reviews at all project milestones and provide alternatives to address utility conflicts.

Apply understanding of construction phasing, equipment, and methodologies to reduce change orders, schedule delays, and/or impacts to existing utilities. Assist in coordinating utilities to "put to work" for utility relocations not included in the State contract and proactively assist with managing project schedules by providing input related to activities, durations, and linkages.

Take ownership of change, clarify the vision of TDOT Region Preconstruction's utility coordination and deconfliction efforts, communicate effectively, remain transparent, and hold yourself accountable for developing, maintaining, and enhancing TDOT Preconstruction Division's utility coordination and deconfliction processes, capabilities, data, software, and systems.

Ensure efficiency by identifying conflicts in proposed designs, making recommendations, and coordinating proactive solutions with other disciplines to ensure the project's needs are met. Attend and participate in Risk Management Assessments and implement risk mitigation strategies.

Identify Subsurface Utility Engineering (SUE) Levels A and B requirements to aid in utility deconfliction. Assist in incorporating SUE data into the design plan development, and coordinate with utility companies to ensure accurate data integration. Attend Project Team Meetings to discuss utility coordination and challenges. Develop a project-specific Utility Impact/Conflict Matrix for coordination and reference.

Assist in the development of a Consultant Acquisition Plan (CAP) to address CEI requests and oversight of CEI consultants by serving on selection committees for professional engineering services as part of the Brooks Act. Assist with Request for Proposal (RFP) development, attend project-specific marketing meetings, and assist with determining scoring criteria. Assist with project information sessions, and when applicable, serve as a scorer as part of the consultant acquisition process, negotiate contracts, attend de-briefs for consultants where usable feedback must be provided, and monitor contract compliance.

Participate in the Region Utilities Deconfliction Team in providing exceptional customer service to both internal and external customers, exercising effective listening skills, providing prompt responses, maintaining complete and accurate documentation, and communicating effectively. Provide mentoring and technical guidance related to utility deconfliction to TDOT staff, consultants, and utility company personnel.

**Additional Job Responsibilities for the TDOT Transportation Engineering Specialist 4 include:**

Collaborate with the Utilities Manager to assist the TDOT Technical Training Director in the development and presentation of training that addresses the construction training program, oversight of local programs, acquired knowledge, risk management, TDOT performance metrics, governing rules and processes, reporting procedures, 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 Project Teams by providing data-driven, engineering judgment for complex issues, anticipating and acting on potential issues, and meeting associated deadlines and timelines.

**Qualifications**

*The Transportation Engineering Specialist 1 and 2 are part of the Graduate Transportation Engineer (GTE) Program.*

**Transportation Engineering Specialist 3:**

- Bachelor's Degree in Engineering
- 2 years of demonstrated competency in transportation project delivery (e.g., survey, roadway design, CEI, construction, project management), utility coordination, or utility construction and design

**OR**

- Master's Degree in Engineering

- 1 year of demonstrated competency in transportation project delivery (e.g., survey, roadway design, CEI, construction, project management), utility coordination, or utility construction and design

**Transportation Engineering Specialist 4:**

- Bachelor's Degree in Engineering
- 3 years of demonstrated competency in transportation project delivery (e.g., survey, roadway design, CEI, construction, project management), utility coordination, or utility construction and design

**OR**

- Master's Degree in Engineering
- 2 years of demonstrated competency in transportation project delivery (e.g., survey, roadway design, CEI, construction, project management), utility coordination, or utility construction and design

**Ideal Candidate**

The Region Utilities Deconfliction Transportation Engineering Specialist 3 and 4 possess exceptional problem-solving and communication skills. They take a proactive and meticulous approach to each project, ensuring that every aspect of the utility coordination and deconfliction processes meet the highest quality and state/federal regulations. They have an analytical mindset and great attention to detail, which helps them identify inefficiencies and opportunities for improvement. The Region Utilities Deconfliction Transportation Engineering Specialist 3 and 4 understands that the best results are achieved through collective effort and effective communication. They can plan and implement strategies that will avoid, overcome, or compensate for elements of risk.