

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.



ITS Deployment Team Lead

Traffic Operations Division – TSMO Section, ITS Deployment
Nashville, TN
\$109,200 annually

Job Overview

The Intelligent Transportation Systems (ITS) Deployment Team Lead will lead, mentor, and train the ITS Deployment Team through empowerment, communication, and delegated authority. This position will develop Work Plans that align with the ITS Deployment Section's strategic vision and the TSMO Program Plan to effectively delegate authority and responsibility, while ensuring the availability of resources for the ITS Deployment Team to be successful. The ITS Deployment Team Lead will coordinate efforts with the Regions and ITS stakeholders to identify, plan, deploy and maintain the appropriate ITS equipment and programs. This position will develop and maintain a strategic statewide ITS Deployment interoperability plan that is stakeholder-driven, multi-jurisdictional, and multi-disciplinary to enhance interoperability across statewide ITS systems.

This position will implement Department policies, discipline-specific technical guidance, procedures, and manuals to lead and assist the ITS Deployment Team in producing deliverables and implementing the Quality Assurance Program as part of the Department's Work Program. The ITS Deployment Team Lead will recommend changes to operational plans, ITS equipment and programs, and lead efforts related to ITS devices, communications, maintenance, and operational service levels. This position will participate in the development and implementation of an ITS Strategic Plan and ensure alignment with the organizational TDOT Strategic Plan, Statewide TIM Strategic Plan, and the TSMO Program Plan, including the application of emerging technologies. This position will supervise technical staff and implement performance plans, schedules, and budgets, ensuring expected outcomes, performance, and accountability of each team member. The ITS Deployment Team Lead will research national best practices to drive innovation and efficiency within each technical unit of the ITS Deployment Team.

Essential Job Responsibilities

Manage resources and staff utilization and assist Project Managers in the management of external partners together with the Professional Services Division, including determining training needs, negotiating contracts, reviewing consultant invoicing, developing contract scopes, managing contract tasks, and completing

consultant grading. Collaborate with stakeholders such as transportation agencies, local governments, law enforcement, transit agencies, and private sector partners to coordinate ITS deployments, address concerns, and promote collaboration. Support and assist with the review and compliance of the TDOT ITS and Fiber Deployment Plans and ITS Architecture Plan.

Establish and ensure there is a direct relationship between quality and work outcomes by developing and implementing standards for the ITS Deployment Team and coordinate with the Quality Team Lead in assisting with quality control tasks as per the TDOT Quality Assurance Process with respect to TDOT's guidance documents, standards, processes, and procedures.

Assist in the development of Consultant Acquisition Plans (CAP) and oversight of external partners by serving on selection committees for professional engineering services as part of the Brooks Act. Provide support in the development of the Request for Proposal (RFP) by 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.

Manage change, clarify the vision, take ownership of the change, communicate effectively, remain transparent, and hold yourself and others accountable throughout the process.

Participate on Project Teams as part of a matrix organization in developing the project vision for those projects having the highest complexity; define critical goals and intended outcomes for the scope, schedule, budget, and quality in coordination with the Project Manager. Support Project Management staff by writing the ITS Deployment project design Scope of Work in collaboration with TDOT Environment, TDOT Maintenance, and TDOT Construction; apply context-sensitive design strategies. Assist other units within TDOT to mitigate constructability and maintenance concerns as part of the Functional Design Plans development per the Project Delivery Network (PDN), proactively assess risk factors, and assist Project Teams associated with Alternative Delivery Contracts. Forecast the cause and effect of implementing Alternative Technical Concepts related to the RFPs, project cost, and construction timing.

Lead the ITS Deployment Team in providing 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.

Guide the development and implementation of revisions of specifications, standards, policies, procedures, and guidelines related to ITS deployment needs. Perform investigations and research of ITS deployment components for complex projects having the highest degree of risk. Conduct and/or review complex technical studies/analyses to identify ITS deployment needs, opportunities, priorities, and appropriate remedies. Drive innovation to generate safer transportation facilities through ITS interoperable, cybersecurity, device modernization/pilot test programs, asset management, system design, construction and maintenance needs, and advanced technology implementation compatibility. Support and assist with the evaluation of ITS products and materials for inclusion in the Qualified Products List (QPL).

Remain current on national best practices related to TDOT ITS guidelines and regulations, American Association of State Highway and Transportation Officials (AASHTO), Federal Highway Administration (FHWA), local and state officials, ITS America, Transportation Research Board (TRB) National Cooperative Highway Research Program (NCHRP), National Operations Center of Excellence (NOCoe), and other applicable Department standards and

procedures. Research, evaluate, and implement innovative trends including advancements with connected and automated vehicles, mobility-as-a-service (MaaS), mobility-on-demand (MOD), artificial intelligence, and drone technology as potential applications for ITS Deployments.

Provide oversight in the development of ITS Deployment deliverables to ensure they are predictable and repeatable, providing consistently high levels of achievement, mitigation of risk, and an established track record of success.

Qualifications

- Bachelor's degree in traffic, civil, transportation engineering, or related field.
- Licensed Professional Engineer (PE)
- 5 years of demonstrated competency in transportation engineering, ITS Deployment, or related field.

Ideal Candidate

The ITS Deployment Team Lead plays a crucial role in enhancing the efficiency of the transportation system. They excel in collaboration, working closely with regional teams and diverse stakeholders to explore innovative ideas and solutions. It is essential for the ITS Deployment Team Lead to ensure that ITS systems and services are operating seamlessly. They stay abreast of emerging technologies, evolving customer needs, and operational plans, while also being well-versed in ITS deployment programs. A natural team player, they inspire and motivate others, fostering a culture of collaboration and continuous improvement. With their detail-oriented approach and strong communication skills, they quickly address various challenges and develop effective solutions to maintain safe and reliable traffic flow.