

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 Geodetics Technology Team Lead Engineering Division – Geodetics Section \$103,848 annually

Job Overview

The Geodetics Technology Team Lead will lead, mentor, and train the Geodetic Technologies Team through empowerment, communication, and delegated authority in addressing Geodetics Technology. The position will assist the State Geodetics Manager and Region Geodetics Teams in developing statewide work plans that align with the Geodetics Section's strategic vision and will effectively delegate authority and responsibility, when applicable, while ensuring the availability of resources for the Geodetics Technology Team to be successful.

The position will assist the State Geodetics Manager and Region Geodetics Managers in evaluating new geodetic data collection technology, developing, and implementing department policies, discipline-specific technical guidance, training, procedures, and manuals to lead and support the Geodetics Section in producing deliverables and implementing the Quality Assurance Program as part of the Department's Work Program. This position will assist the State Geodetics Manager in developing and implementing Division performance metrics; will supervise technical staff engaged in geodetics technology; and will implement performance plans, schedules, and budgets, ensuring expected outcomes, performance, and accountability of each team member. The Geodetics Technology Team Lead will research national best practices to drive innovation and efficiency within the Geodetics Section.

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 negotiating contracts, reviewing consultant invoicing, developing contract scopes, managing contract tasks, and completing consultant grading.

Establish and ensure that there is a direct relationship between quality and work outcomes by assisting the State Geodetics Manager in developing and implementing standards for the Geodetics Technology Team; coordinate with the State Geodetic Quality Engineer and Quality Team Lead in assisting with quality control tasks as per the TDOT Quality Assurance Process with respect to the Project Delivery Network (PDN) and non-PDN activities related to obtaining and utilizing geodetic data, with the purpose of reducing plan errors and re-work, right-of-way delays, construction delays, and contractor claims.

Assist in the development of a Consultant Acquisition Plan (CAP) and oversight of external partners by serving on selection committees for professional services.

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 for 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 by assisting 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, Region Geodetics, and other Statewide Geodetics personnel related to recommended geodetic data collection technology and techniques suitable for the project's needs; coordinate and collaborate with other TDOT disciplines on evaluation, selection, utilization and implementation of new geodetics technology; coordinate with other disciplines to ensure data collection and storage methodologies are integrated with TDOT Asset Management strategies; support Project Management staff by reviewing the geodetic data collection Scope of Work when new geodetic technologies/methods are being utilized; effectively coordinate with 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, for Project Teams associated with Alternative Delivery Contracts, forecast the cause and effect of implementing Alternative Technical Concepts related to the Request for Proposal (RFPs), project cost, and construction timing.

Lead the Geodetics Technology 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.

Remain current on national geodetics practices related to transportation (remote sensing and surveying and mapping technology advancements including hardware, software, and collection techniques), Federal regulations and Tennessee statutes, and guidelines; closely collaborate with industry partners, other TDOT disciplines, the TDOT Unmanned Aircraft Systems (UAS) Group, and via peer exchanges to remain current on the national geodetics practices related with the use of UAS; assist with the development of legislation and regulations that seek to increase safety, inspire innovation, and improve mobility for TDOT employees, contractors, and the traveling public; and integrate geodetic considerations and statutory and regulatory requirements into TDOT guidance documents, processes, and procedures for transportation projects.

Guide the development and implementation of a tracking mechanism that ensures the contractual agreements, scope, schedule, budget, and quality of all Geodetic Technology projects support the delivery of the Department's Work Program while also ensuring compliance with Federal and State traffic design and regulations.

Provide oversight in the development and implementation of current and new geodetics technology deliverables are consistent, predictable, and repeatable to provide consistently high levels of achievement, mitigation of risk, and an established track record of success; maintain the Continuously Operating Reference Stations (CORS) network and other applicable systems, including GIS and databases; oversee the archival of project data control points; inventory and maintain survey equipment, including aerial survey equipment.

Qualifications

- Bachelor's degree in engineering, cartography, surveying, geography, or related field
- 5 years of demonstrated competency in land or aerial surveying, geodetic data processing and analysis, preferably in a transportation engineering field
- Registered Professional Land Surveyor (RLS) preferred

Ideal Candidate

The Geodetics Technology Team Lead is a reliable subject matter expert on geodetic technology for data collection needs related to transportation design and construction projects. They excel in the role by applying not only their technical skills but also their leadership, communication, team-mindedness, and quality diligence skill set. They interact positively with their team, providing an open environment for expressing ideas and concerns. The Geodetics Technology Team Lead provides customer and employee satisfaction across all project team members while delivering performance excellence. They are an exceptional collaborator with all levels of personnel throughout TDOT, survey crews, and stakeholders to ensure high-quality results. They advocate for geodetics and the professionals who collect and manage the Department's geospatial data.