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.

Senior Technical Specialist
Asset Management Division – Transportation Data Systems Section
$75,204.00 annually

Job Overview

The Senior Technical Specialist for the Transportation Data Systems Section ensures the integration, governance, and performance of asset management data systems, collaborating with departmental teams to maintain system security and compliance with standards. This role evaluates software functionality, oversees data collection, implements validation protocols to ensure data quality, and prepares actionable insights to enhance asset management practices. The Specialist also conducts audits, identifies process improvements, and fosters collaboration across divisions to align operations with departmental objectives.

The Senior Technical Specialist addresses challenges and drives decisions that improve the accuracy and effectiveness of TDOT's data assets, supporting efficient transportation programs and system operations. This role works closely with TDOT divisions, project teams, and regional leadership to deliver sustainable, cost-effective asset management solutions.

Essential Job Responsibilities

Support the Transportation Data Systems Manager and Statewide Data Governance Technical Specialist by ensuring seamless integration and governance of asset management data systems. The role collaborates with IT to optimize system performance, security, and integration while providing data-driven insights to improve statewide asset management practices.

Evaluate the performance and functionality of asset management software to confirm it meets TDOT's operational needs. Conduct regular audits to identify and resolve software-related issues, ensuring consistent application across departments. Provide training and support to maximize its effective use for data input, analysis, and reporting.

Monitor and evaluate data collection processes to ensure compliance with TDOT policies, data collection standards, and data governance policies. Assess the collected data's quality, accuracy, and relevance to measure its cost-effectiveness and align it with operational needs. Collaborate with TDOT stakeholders to prioritize and optimize data collection efforts based on resource availability and strategic goals. Ensure all asset management systems meet federal, state, and departmental standards, adhering to established guidelines. Identify compliance gaps, implement corrective

actions, and maintain detailed documentation to support audits and reviews, reinforcing regulatory and standards compliance.

Assess the usability and reliability of data collection software, recommending updates, upgrades, or alternatives as needed. Work with IT and vendors to test and validate software functionality, ensuring seamless integration with TDOT systems. Provide input on procurement decisions to align tools with the department's asset management goals and governance requirements.

Support research and decision-making by analyzing historical and current data trends. Collaborate with Asset Management Division Sections to develop methodologies for evaluating data and generating insights. Prepare reports and provide recommendations to advance statewide asset management practices that align with departmental objectives.

Audit data entry processes to identify and correct errors, ensuring accuracy and consistency with governance requirements. Implement data validation protocols and provide personnel with training to address recurring issues, enhance data reliability, and improve input quality.

Collaborate with the Asset Management Division's Quality Management Section to conduct audits and assessments of asset management practices, ensuring compliance with established policies and standards, identifying inefficiencies, recommending actionable workflow improvements, and serving as a liaison to foster alignment and maintain process excellence.

Collaborate with Headquarters and Regional Offices to assess and identify training needs for enhancing data collection processes, ensuring data accuracy, and supporting the implementation of standardized practices in alignment with the department's Asset Management objectives.

Deliver exceptional customer service to project stakeholders by sharing relevant data, ensuring accessible and organized data information, practicing effective communication, and maintaining positive public and departmental relations. Respond promptly and accurately to inquiries from the public and department personnel.

Qualifications

- Bachelor's degree in Information Systems / Management Information Systems (MIS), Computer Science, Data Science and Geographic Information Systems, or related field
- 3 years of demonstrated competency in data security, IT, asset management, or related technical discipline.

OR

- Master's degree Data Systems, IT Systems, or relative field
- 2 years of demonstrated competency in data security, IT, asset management, or related technical discipline.

Preferred Qualifications:

- GIS Certification
- Certified Information Systems Auditor
- Certified Analytics Professional (CAP)
- ITIL Foundation Certification
- CompTIA Data+ or CompTIA Security+

Ideal Candidate

The Senior Technical Specialist is a detail-oriented professional with strong analytical and problem-solving skills, bringing extensive experience in data governance, software evaluation, and asset management systems. This individual collaborates effectively with cross-functional teams and stakeholders to ensure system security, compliance with standards, and seamless data integration. Proficient in evaluating software functionality, supervising data collection, and implementing validation protocols; they maintain high data quality and reliability. With expertise in conducting audits, identifying process improvements, and delivering actionable insights, they enhance TDOT's asset management practices. Strong communication, organizational, and critical thinking skills enable them to address challenges, align operations with departmental goals, and deliver sustainable, cost-effective solutions that improve TDOT's transportation system efficiency.