TN TDOT
Department of Transportation

Data Visualization Team Lead
Planning Division – Forecasting and Data Visualization Section
Nashville, TN
$103,848 annually

Job Overview

The Data Visualization Team Lead will lead, mentor, and train the Data Visualization Team through empowerment, communication, and delegated authority. This position will develop work plans that align with TDOT's strategic vision and will effectively delegate authority and responsibility while ensuring the availability of resources for the Data Visualization Team to be successful.

The Data Visualization Team Lead will lead the development and implementation of departmental policies, discipline-specific technical guidance, procedures, and manuals related to data visualization for incorporation into TDOT's programs and projects. This position will ensure the implementation of the quality assurance program to achieve program efficiency and effectiveness. The Team Lead will supervise technical staff and implement performance plans, schedules, and budgets, ensuring each team member's expected outcomes, performance, and accountability. The Data Visualization Team Lead will research national best practices to drive innovation and efficiency within the Data Visualization Team.

Essential Job Responsibilities

Manage resources and staff utilization and assist the Data Visualization Team to perform their roles effectively and efficiently, optimizing the Team's ability to successfully perform data analytics and mapping processes and prepare accurate, high-quality, easily understood and/or operated products.

Lead the Data Visualization Team in the innovative application and utilization of information technology hardware and software, including Geographic Information System (GIS) software and Business Intelligence (BI) software. Perform GIS analytics for TDOT, utilizing spatial and non-spatial data. Develop internal TDOT and publicly available methodologies, interactive tools, and mapping for the purpose of ensuring robust and comprehensive data accessibility and utilization. Identify available data and data needs and develop tools to assist TDOT in expanding and improving data-driven decision-making. Provide GIS support and guidance to other TDOT Divisions, state agencies, Metropolitan Planning Organizations, and Rural Planning Organizations.

Lead the Data Visualization Team in preparing digital and printed GIS maps and planning documents for internal and external customers, including County Base Maps, County Traffic Maps, Functional Classification Maps, the Official State Transportation

Map, the Official Tourism Map, Rural Regional Transportation Plans, and ad hoc maps at the request of TDOT, other public agencies, and the public.

Manage external partners, including developing and advising on contract scopes of work, negotiating contracts, reviewing invoices, managing contract tasks, and completing consultant grading.

Lead the Data Visualization Team in providing exceptional customer service to internal and external customers, exercising effective listening skills, providing prompt responses, maintaining complete and accurate documentation, and communicating effectively.

Establish and ensure there is a direct relationship between quality and work outcomes by developing and implementing quality control and quality assurance processes for the Data Visualization Team with respect to data visualization activities.

Assist with managing the policy direction for the Data Visualization Team as part of a matrix structure, creating policies, procedures, guidelines, and performance metrics that support adherence to state requirements, include best practices, and improve data analytics and mapping processes. Assist with the financial performance of the Data Visualization Team in alignment with TDOT financial processes to ensure transparency and accountability.

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

Ensure the Data Visualization Team remains current on national best practices as it relates to data visualization processes and procedures; incorporate research, evaluations and implementation of emerging processes and technologies into the data visualization responsibilities that will improve efficiency, resiliency, effectiveness, reliability, sustainability, and the safety of Tennessee's transportation network; integrate state requirements into TDOT's guidance documents, processes, and procedures. Participate in peer exchanges with State and local governments and applicable industry partners for key insights and collaboration.

Provide oversight in the development of the Data Visualization Team deliverables, and ensure they are consistent, predictable, and repeatable to provide consistently high levels of achievement, mitigation of risk, production of annual reports as required, and an established track record of success.

Qualifications

- Bachelor's degree
- 5 years of demonstrated competency in State and Regional Transportation Planning, Geographic Information Systems, Statistics or Mathematics, Data or Computer Science, or a related field.

Ideal Candidate

The Data Visualization Team Lead is a highly skilled professional with expertise in developing, managing, and implementing innovative data analytics and mapping tools. They possess knowledge and capabilities in various coding languages and programming environments and have strong communication, leadership, and team management skills, engaging effectively with stakeholders at all levels. As the Data Visualization Team Lead, they provide strategic guidance on best practices and promote a culture of innovation within the team. Their role is essential in identifying opportunities to interpret complex data and transform it into accessible, actionable insights that support future planning.