

Who we are:

TDOT is a multimodal agency with responsibilities in aviation, public transit, waterways, railroads, and cycling and walking. Our involvement ranges from airport improvements to funding transit buses to planning for river ports.

The Department of Transportation (TDOT) has close to 3,800 employees statewide with regional facilities in Knoxville, Chattanooga, Nashville, and Jackson. TDOT's headquarters is located in downtown Nashville.

What we do:

The Tennessee Department of Transportation (TDOT) provides citizens and travelers of Tennessee with one of the best transportation systems in the country.

For more information on this division, please click the link below:

Long Range Planning



Planning Specialist

Location: Nashville, TN

Annual Compensation: \$47,496 - \$71,400

Overview

The Tennessee Department of Transportation is currently seeking three (3) full-time **Planning Specialists** to fill each office below in the Long-Range Planning (LRP) Division's Data Management Section located at TDOT Headquarters in Davidson County, TN

Data Visualization Office

The Data Visualization Office (DVO) is the analytical GIS hub for spatial and non-spatial data across the Department. The DVO creatively interprets and decodes otherwise complicated planning information into useful and workable methodologies, maps, and tools. Our goal is to support the distribution of data through the production of analytical dashboards using PowerBI or ESRI as well as digital and printed maps. The DVO creates award-winning visual representations of transportation data using various graphical methods and provides in-depth GIS project support and guidance to other divisions, state agencies, and metropolitan/rural planning organizations. The Planning Specialist provides important analytical support to TDOT and our federal and local partners across the state. This position supports the planning supervisor and other team lead in the dissemination of work and general support of the team. This position focuses on GIS and analytic data analysis to advance the state's transportation system. The ideal candidate should be an independent but collaborative worker willing to learn and work as a team to identify problems and propose creative solutions.

Road Inventory Office

The Road Inventory Office (RIO) manages traffic information and records in the Tennessee Traffic Information Management and Evaluation System (TN-TIMES). This system acts as the hub for Tennessee's traffic data including volume and vehicle classification, speed and potentially vehicle weight data. The RIO is tasked with delivering reliable traffic data using TNTIMES and for analyzing and compiling E-TRIMS (Enhanced Tennessee Roadway Information Management System) reports and datasets as part of the annual Highway Performance Monitoring System (HPMS) reporting process. HPMS is a federally mandated program which includes data on the extent, condition, and operating characteristics of Tennessee's roads. It is guided under 23 CFR 420.105(b) requiring that all States provide data regarding the extent, condition, performance, use, and operating characteristics of the nation's roadways. High quality traffic data is an important component of HPMS as it is further translated into the apportionment of Federal-aid highway funds to the various States.

Forecasting Office

The Forecasting Office (FO) is responsible for the development, maintenance, and application of the Tennessee Statewide Travel Demand Model. This position will assist in development, enhancement, and maintenance of statewide travel demand model in Tennessee. This position also will be working closely with contractors and MPOs' modeling groups and perform professional transportation planning work including development, reviewing, monitoring and coordination of transportation planning projects, as well as support data analysis for TDOT's transportation planning projects. Strong modeling skills/direct experience with travel demand software packages (particularly TransCAD or Cube/TP+/Voyager) as well as analytical skills and GIS capabilities are preferred. Statistical analysis experience as it relates to travel demand modeling. Writing skills, including experience in writing technical reports. Systems currently used in the division include the Tennessee Roadway Information Management System (TRIMS/E-TRIMS), ArcGIS, GeoMedia, Oracle, LRS, Imagine, TransCAD, and full ADOBE Creative Cloud, etc.

Responsibilities by Office

Data Visualization Office

- Support the Planning Supervisor and work directly with other team leads and GIS technicians to assist with their primary work functions.
- Perform various mapping and spatial analysis duties for numerous divisions and departments.
- Coordinate GIS tasks to support various planning-related activities.
- Conduct research on existing and emerging data concepts to support and facilitate the project delivery process.
- Digitize data and collect geospatial attribute data.
- Prepare maps, charts, and tables of various complexities.
- Mentor and support staff on best practices of departmental, state, and federal laws, rules, regulations, guidelines, policies, and procedures.
- Attend various meeting and project planning activities as assigned by the planning supervisor.
- Provide technical assistance to numerous planning agencies to ensure proper implementation of state and federal planning policies and procedures.
- Develop new tools to improve the efficiency and productivity of planning operations by designing model concepts, writing computer programs, or consulting with programmer, and testing the model for accuracy by inputting observed data and comparing the output to the observed data.

Road Inventory Office

- Assist in TN-TIMES Year End Processing (YEP) including the cleaning and editing of Traffic data and using statistical methods to ensure data integrity prior to using traffic data.
- Assist in ensuring that traffic data meets prescribed metrics for approval and data entry into the TN-TIMES application.
- Perform statistical analyses on various datasets, prepare graphs to highlight results when needed as a data visualization tool and an improvement to data processing capabilities, and produce reports or presentations on findings.
- Make recommendations on improvements to the Traffic Monitoring Program.
- Make recommendations on other complimentary tools which will help make improvements in traffic data estimating and predicting.
- Conduct research and maintain an awareness of new issues, methodologies, equipment, trends for the advancement of the TDOT Traffic Monitoring Program and HPMS reporting.
- Work closely with the HPMS team in capturing, compiling, analyzing, and reporting TN HPMS data from various sources to the FHWA.
- Develop and maintain Standard Operating Procedures (SOP) for HPMS, and document deficiencies in the program while identifying methods to improve them.
- Attend and present at various meetings, conferences, and seminars as necessary.
- Maintain a comprehensive knowledge of applicable federal, state, and local policies, procedures, programs, codes, regulations, and standards.

Forecasting Office

- Work closely with the offices of Roadway Data, Road Inventory (Tennessee Roadway Information Management System – TRIMS), and Data Visualization within Data Management Section.
- Cooperate with other offices such as offices of community planning (OCTs), Research, and Policy Planning under Long Range Planning Division for all activities.
- Manage all aspects of modeling operation and other related applications support and operations including planning, designing, development, implementation, upgrade, support and maintenance functions.
- Develop modeling acquisition strategies and standards and coordinates modeling input data acquisitions and updates and ensure QA/QC of databases.
- Support short and long-range projects related to the transportation program.
- Respond to requests for technical assistance from other divisions of TDOT, other government agencies, OCT offices, as well as MPO's and RPO's.
- Work with local, state, and federal resources to maintain existing databases, identify missing data and provide input into the TDOT's modeling strategy.

- Prepare and support presentations and planning documentations with visualization.
- Develop activities including, analysis, design, integration, verification, configuration management, maintenance support and product documentation.
- Coordinate and work with federal, state, and local transportation agencies as needed to successfully execute projects and to provide updates and reports to key stakeholders.
- Carry out other duties as assigned by the Director and Assistant Directors of the Division.

Qualifications

- Proficient in the full suite of ESRI's online and Pro desktop products.
- Knowledge of various visualization and analytic platforms such as Microsoft Power BI.
- Excellent communication skills.
- Experience in data science and analytics
- Experience with Adobe Suite products
- Ability to work independently and in a multidisciplinary team environment.
- Proficiency with Microsoft Office 365 products

Preferred

- Programming experience
- Experience with the transportation planning processes and principles
- Roadway design experience
- Graphics design experience
- Experience in public speaking at community meetings and community outreach.
- Experience with relational databases, data collection, statistical analysis

Applications must be submitted online.

Interested applications should apply online at:

<https://www.tn.gov/tdot/human-resources-home/tdot-careers.html>

Questions? Email TDOT.Careers@tn.gov

Pursuant to the State of Tennessee's Workplace Discrimination and Harassment policy, the State is firmly committed to the principle of fair and equal employment opportunities for its citizens and strives to protect the rights and opportunities of all people to seek, obtain, and hold employment without being subjected to illegal discrimination and harassment in the workplace. It is the State's policy to provide an environment free of discrimination and harassment of an individual because of that person's race, color, national origin, age (40 and over), sex, pregnancy, religion, creed, disability, veteran's status or any other category protected by state and/or federal civil rights laws.