

# **Data Collection Technician**

## **TDOT Tech 2**

TDOT Tech 2 positions are open in each of the following office locations: Chattanooga, Knoxville, Memphis, and Nashville. These positions will require frequent statewide travel.

### **Roadway Data Collection Responsibilities (Nashville)**

Develop knowledge of the GIS database tables in TRIMS associated with roadway inventory data and the items in each table that are to be collected. Gain knowledge of Linear Reference Systems and the GIS spatial data model that Long Range Planning maintains for the E-TRIMS/TRIMS applications.

#### **Field Personnel**

- Develop an understanding of the data collection equipment, including GPS equipment, and the proper operation of each component.
- Develop skill in the operation of roadway data collection vehicles.
- Become familiar with reference data used to plan work activities (i.e. construction progress reports, etc.)
- Collect roadway inventory data and/or GPS centerlines using all established procedures while adhering to all safety measures established by the Department.
- QA/QC procedures are to be performed on all forms, reports, and data before being turned in to the office for further processing.
- Keep accurate records on all routes inventoried.

#### **Office Personnel**

- Assist supervisor with the development of workflows and processes to capture inventory data using non-traditional methods. This could include ortho-photography, photolog images, and contact with other Departments in State Government as well as county and city officials.
- Develop knowledge of computer software programs to be used to locate changes or additions to the Highway network across the State.
- Create roadway inventory data forms, reports, etc. to be used to add new data to the TRIMS database.
- Using GIS software, digitize and properly attribute geometry features for all new roadways and alignments found and updated.
- Keep accurate records on all routes inventoried.

### **Traffic Data Collection Responsibilities (Chattanooga, Knoxville, Nashville, & Memphis)**

- Ensure data collection vehicle is supplied properly with traffic counters, road tubes, chains, locks, clamps, nails, etc.
- Travel to the correct location where a traffic counter is to be placed.

- At the location, secure the road tube to the road surface using the clamps and nails. The road tube is plugged on one end and the other end will be connected to the traffic counter.
- Properly enter the correct station identification into the counter. Secure the counter to a sign pole, light pole, or guardrail using a chain and lock.
- Counters are left at each location for 24 hours. When returning to each site, download the traffic count data onto notebook computer using the proper software. Collect all equipment and ensure it is properly stored back in vehicle.
- Repeat this process at each location to be counted.
- Once per week, the downloaded traffic count data is sent in to the office for further processing.