

Trans Program Monitor 1

Aerial Survey, Roadway Design Division



This position reports to the Transportation Manager of the Office of Aerial Survey Unit in the Roadway Design Division. Under general supervision, responsibilities include:

- Knows how to use GIS and photogrammetry software to develop digital maps and orthophotography. This is not photography.
- Writes and/or updates manuals to provide training and technical support to users of GIS hardware and software, GPS equipment, and related technologies; trains users of GIS software and GPS equipment by utilizing training materials, multimedia presentations, plotters, and digitizers; provides on the job training to GIS Technicians regarding equipment maintenance, agency policies, and GIS software and hardware configuration and usage; provides technical support to users of GIS software regarding troubleshooting, software issues, and map design. Teaches others to use and configure hardware and software related to GIS and photogrammetry.
- Serves as a monitor of field survey staff to ensure that all regional staff is working together using the same training material, equipment, training, and manuals by holding Survey Users Group Meeting, write new field survey and training manual based on roll out of OpenRoads 3d, and Work with regions to address needs for new CORS site for the TDOT GNSS Network.
- Monitors GNSS Network by ensuring contracts are renewed, submitted by new customers, and that payments are received. Monitor stations daily. Support customers and stations are determined to be off-line and the issue can't be resolved within three days, send mass email to alert users regarding the outage and when stations are back online, immediately send mass email to inform users.
- Assists in research and purchase drones that will communicate with TDOT CORS network and satellite. Drone must also have compatible output for use with existing TDOT software. Serve as administrator of the data which would include performing quality control of the data received from all users to ensure proper collection to ensure that it can be processed into photogrammetry data. Use data to create point clouds, planimetrics, surface data, and imagery to be used by Project Development engineers, IT-GIS, bridge repair, Operations field personnel, help-trucks/incident response, etc. Set-up required testing for proposed pilots to obtain 107 licensing needed to fly drone. Have workshop with each type of user to teach how to fly the drones. Train staff on limitations of use.
- Knows how to do research for above given tasks and has leadership skills.

The office is located at TDOT Aerial Survey Office, 521 Olen Taylor Dr., Nashville, TN 37217