



PACIFIC WESTERN TECHNOLOGIES, LTD.

JOB ANNOUNCEMENT

Pacific Western Technologies, Ltd. is seeking a qualified individual for GIS Quality Assurance Specialist. The prospective employee will need to pass government background check prior to being allowed on site for work.

This position provides quality assurance on all data collected and processed by the road inventory collection teams in the field. This includes road pavement condition data and GPS. The objective is met through the use and development of customized computer applications and processes. This position may require 5-10% travel.

POSITION:	GIS Quality Assurance Specialist	LOCATION:	Lakewood, Co
DATE:	September 21, 2020	CLOSING DATE:	October 2, 2020

Essential Functions:

- Quality check RIP databases (Microsoft Access and Oracle-SQL Developer) using previously created automated scripts written in Visual Basic programming language, for completeness, consistency, and accuracy.
- Using Visual Basic, Python, and PLSQL programming languages, create new scripts as directed by Quality Assurance Program manager.
- Using ArcGIS Model Builder to update and improve efficiency on QC projects.
- Provide QA/QC checks on pavement condition and GPS data collected with a semi-automated Data Collection Vehicle (DCV) which includes:
 - Reviewing tabular data in Access and Oracle
 - Using proprietary Pavement Crack Detection software, review digital pavement images to determine contract compliance with accuracy specifications.
 - Using proprietary Width Measurement software, review digital route images to determine contract compliance with accuracy specifications.
 - Reviewing video/image data from multiple collection vehicle systems
- Using ARC GIS 10.x software and ArcPro 2.x, quality check and correct/edit features and other spatial data for compliance with accuracy specifications.
- Review RIP reports in PDF format for technical accuracy.
- Communicate with RIP team members, personnel within FHWA divisions, technical support specialists, and others.
- Organize, process, and send data to other FHWA offices, FWHA Partners, and contractors.
- Maintain a Quality Assurance Program schedule. Update progress charts
- Creates and maintains custom GIS scripts in JavaScript and Python

Education, Experience and Skills Required:

- A bachelor's degree in GIS, geography or closely related field
- Proficient use of computer
- ArcGIS Data Formats – Feature Classes, Feature Datasets, File Geodatabase, Enterprise Geodatabase
- ArcGIS Front-End Data Formats – Feature Services, Map Services, Image Services
- Enterprise Geodatabases (ArcSDE)
- RDBMS – Oracle, SQL Developer
- Knowledge of Visual Basic, Python, and PLSQL programming language(s)
- Knowledge of GPS, including Trimble collection equipment and ESRI programs and applications
- Knowledge of GIS, including ArcMap 10.x and ArcGIS Pro 2.5
- Ability to learn new software, both proprietary and off-the-shelf
- Ability to learn new hardware or other skills
- Ability to work effectively with minimal supervision
- Quality oriented with excellent organizational skills and very keen eye for details
- Ability to work well in small groups is essential

Please email your resume to PWT by the closing date:

careers@pwt.com