

CITY OF GLENDALE

TITLE: Intelligent Transportation Systems Technician CLASS CODE: 780

REPORTS TO: Intelligent Transportation Systems Manager GRADE: 26

DEPARTMENT: Transportation FLSA: N

JOB SPECIFICATION DATE: January 31, 2008 kad

JOB SUMMARY

Maintains, monitors and assists in developing the current and future intelligent transportation systems (ITS). Assists traffic signal staff with the installation of traffic signals and other intelligent transportation system (ITS) equipment.

ESSENTIAL FUNCTIONS

1. Maintains, monitors and assists in developing current and future ITS infra-structures including the central computerized traffic signal control systems, adaptive and responsive control methodologies, traffic monitoring cameras, vehicle detection technologies, telephonic, fiber optic, wireless communications systems devices, networking devices, video switching devices, and dynamic message signs (DMS).
2. Troubleshoots, tests, replaces and repairs malfunctioning fiber optic, wireless communication system devices, networking devices, video devices, traffic signal controllers and other electronic equipment.
3. Maintains the city's intelligent transportation system communications network. Configures network equipment such as routers, switches and other Ethernet equipment.
4. Assists Traffic Signal Technicians in installing traffic signal and other ITS equipment.
5. Assumes responsibility for the City's conduit system and fiber optic communication connections.
6. Researches and responds to citizen inquiries and complaints on ITS equipment.
7. Proposes changes and improvements to the existing traffic signal systems.
8. Assists in traffic control during events at the city sports facilities including setting barricades and programming dynamic message signs.
9. May assist in refining and monitoring traffic signal timing plans based on real time traffic monitoring. May assist emergency services with traffic control by altering traffic signal operations as conditions dictate.

SECONDARY FUNCTIONS

10. Performs other duties as assigned.

KNOWLEDGE, SKILLS, ABILITIES

Knowledge of:

Theory, principles, practices, materials and equipment of traffic signal operation, telecommunications, fiber optics, closed circuit television cameras, and all other aspects ITS

Research and statistical methods and procedures applied to ITS

The Manual of Uniform Traffic Control Devices and the Phoenix Barricade Manual

Ability to:

Plan and carry out necessary repairs to the City's ITS system

Analyze findings and prepare recommendations, present written and oral reports

Read and interpret blueprints and schematic drawings

Conduct field observations, tests, installations, and repairs

Ability to communicate effectively both verbally and in written form

Ability to establish and maintain effective working relationships with City employees, contractors, other government agencies, and the general public

Ability to communicate with the general public on ITS and traffic signal issues and be viewed by the public as an expert in these areas

Exercise considerable initiative and independent judgment

Provide quality customer service

Interpret regulations, policies, and guidelines of the City of Glendale and other government agencies

WORKING CONDITIONS

Office setting with a significant amount of field inspections

MINIMUM QUALIFICATIONS

Associates Degree in Electronics or Telecommunications Engineering, Computer Networking, Computer Science, Engineering, or a related field and two years of relevant work experience in traffic signal systems such as Intelligent Transportation Systems performing maintenance and operations duties.

Any equivalent combination of training and experience that provides the required knowledge, skills, and abilities, is qualifying.

SPECIAL REQUIREMENTS

Valid Arizona driver's license