

MAJOR FUNCTION

This is skilled technical work in the installation and maintenance of all types of communications and electronic equipment related to computerized traffic control systems, electrical and electronic work in traffic signal construction and maintenance activities for the Tallahassee Advanced Transportation Management System (TATMS) and Intelligent Transportation Systems (ITS). Incumbents receive work objectives and deadlines for assignments from the supervisor and independently perform the work, referring any unusual situation to the supervisor for assistance. Duties may include answering direct email and telephone inquiries from the public, other agencies, media, legal and public officials concerning traffic operations. Duties may also include responsibility for performing lead worker duties to subordinates engaged in similar activities. This employee may be required to work emergency management operations beyond the normal workday. Work is under the general direction of a senior technician. Work is reviewed through observation and results obtained.

ESSENTIAL AND OTHER IMPORTANT JOB DUTIES**Essential Duties**

Construction: Installs all components of a variety of electrical traffic control devices, including flasher/sign assemblies, poles, controller cabinets and bases, signal controllers, communication units, preemption devices, video detection and all other electrical field equipment, conduit, inductive loop detectors, messenger cable, fiber optic or other control or interconnect cable, optical signal units and related hardware. Repairs damaged or faulty electrical or structural components in the field. Assists with house moves. Operates heavy construction equipment for installation of underground and overhead systems such as trencher, backhoes, dump trucks, bucket trucks, flatbed tractor trailer and digger derrick trucks. Responds to trouble calls and repairs damaged or faulty electronic equipment in the field or in the shop, as required. Performs related work as required.

Traffic Signal/ITS Maintenance: Responds to trouble calls and repairs damaged or faulty electronic equipment in the field or in the shop, as required. Tests electronic equipment prior to installation or as a part of the repair procedure. Investigates complaints pertaining to faulty traffic signals/ITS. Performs preventative maintenance. Maintains traffic signal/ITS equipment on a scheduled and on call basis. Plans, installs, and maintains traffic signal/ITS wiring and cabling systems to support a traffic signal/ITS communications network. Performs installation and maintenance of computerized traffic control systems equipment including personal computer (PC) signal controller, videos, modems, and other miscellaneous end user devices. Maintains accurate records of wiring and cable assignments and end user device inventories. Performs miscellaneous traffic signal/ITS maintenance and construction assignments. Performs related work as required.

Other Important Duties

Serves on cross functional teams as assigned. Attends training and developmental events to keep abreast of events in subject area. Performs related duties as required.

DESIRABLE QUALIFICATIONS**Knowledge, Abilities and Skills**

Knowledge of telecommunications industry practices and standards, National Electrical Code (NEC) communications terms and technologies. Knowledge of telecommunications systems and associated end user devices. Knowledge of the standard practices, tools, and terminology of the electrical and/or electronics trades. Knowledge of the City's electrical code. Knowledge of basic electric and/or electronic theory. Knowledge of recommended safety practices of the trade. Knowledge of the operation of modern traffic signal control and communication equipment. Knowledge of the City's street system. Knowledge of the operation of a variety of electrical construction and specialized vehicles. Ability to perform strenuous manual labor in adverse weather conditions below ground, at ground level

or above ground. Ability to define problems, repair or replace defective parts/equipment, and properly install new parts/equipment. Ability to read and interpret complex electrical or electronic diagrams, schematics, blueprints and engineering drawings and plans. Skill in the use and care of tools and test equipment utilized in electrical/electronic repair and calibration. Ability to plan and install wiring, cabling, and fiber optic systems, as well as associated equipment required by the transportation management system communications network. Ability to demonstrate a positive, professional, team-work style of work performance and attitude.

Minimum Training and Experience

Construction: Possession of a high school diploma or an equivalent recognized certificate and four years of experience that includes traffic signal construction or electrical construction.

Traffic Signal/ITS Maintenance: Possession of a high school diploma or an equivalent recognized certificate, two years of electronics courses beyond the high school level (60 semester hours, 90 quarter hours or 1800 classroom hours), and two years of technical electronics experience (Experience in the installation and splicing of communications cable and the installation of end user devices may be considered equivalent.); or Possession of a high school diploma or an equivalent recognized certification and four years of experience in the installation and/or maintenance of electronic traffic control devices.

Necessary Special Requirements

Must possess an International Municipal Signal Association (IMSA) level II traffic signal technician certification at time of appointment.

Must possess a valid Class B State Commercial Driver's License (CDL) at time of appointment and maintain license as a condition of continued employment.

Individuals in this classification must be available to serve on-call and are subject to having to work outside of their assigned shift/schedule to meet operational needs.

Must possess the Florida Department of Transportation Intermediate Maintenance of Traffic Certification and maintain this certification as a condition of continued employment.

Established: 08-14-21