

## **CITY OF BURBANK**

### **INTELLIGENT TRANSPORTATION SYSTEMS SPECIALIST**

#### **DEFINITION**

Under supervision, to monitor and operate parking and traveler information systems; coordinate, implement, and maintain Intelligent Transportation Systems (ITS), such as fiber optic communication and closed circuit television networks; perform database management; and perform related duties as required.

#### **ESSENTIAL FUNCTIONS**

Analyzes, configures, installs, operates, monitors, documents, and maintains the City's parking and traveler information systems and Intelligent Transportation Systems (ITS); monitors and configures changeable message signs and parking information signs; programs traffic controllers; monitors, operates, and configures battery backup systems, pan-tilt-zoom and video detection cameras; identifies and resolves operational problems; programs and provides support for various electrical and electronic devices, software, and peripheral equipment; configures, implements, and documents twisted pair and fiber optic cabling and wireless communications systems; conducts traffic studies and analysis of data including but not limited to traffic movement and safety; recommends changes to processes and procedures; prepares and maintains records and reports, both manually and electronically; utilizes tools and metering instruments; operates vehicles and other power driven equipment; keeps vehicles, supplies, and tools in proper order; follows proper safety precautions; installs and maintains a variety of electronics, computerized traffic signal control devices, and associated equipment; operates a computer with related software; uses independent judgement and decision-making skills based on standard policy or working procedures; inspects and monitors contract work; assists the public with questions and complaints on traffic related issues; may train, supervise, and evaluate employees.

#### **MINIMUM QUALIFICATIONS**

##### **Employment Standards:**

- Knowledge of – principles of electricity, mathematics, and elementary characteristics of network telecommunication systems; instrumentation, scales, measurement; spelling, grammar, and punctuation.
- Skill in – operating modern computers and related software, including geographic information systems (GIS) and computer aided drafting and design (CAD); reading and interpreting wiring diagrams; preparing and understanding basic traffic engineering drawings, plans, and specifications; comprehending electronic logic diagrams, electrical drawings, and specifications; operating calculators and engineering software related to the design and operation of traffic signals; operating standard electrician hand and power tools and electrical/electronic equipment to test and maintain ITS devices; using independent judgement and decision-making skills based on standard policy or working procedures; operating cable/fiber testing and splicing equipment, and communications and network equipment.

- Ability to – make effective and rapid adjustments while operating equipment that controls and monitors multiple conditions; maintain records; perform tests and monitor correct functions of equipment; prepare and understand traffic signal operation drawings, plans, and specifications; prepare and comprehend electric logic diagrams and drawings; learn and operate Time Domain and Optical Time Domain Reflectometers; learn and apply knowledge of traffic signal systems; acquire a working knowledge and implement best practices for construction and operation of traffic signals and intelligent transportation systems; communicate effectively both orally and in writing; establish and maintain effective working relationships with supervisors, fellow employees, contractors, and the public.

**Education/Training:** Any combination of education and/or experience that has provided the knowledge, skills, and abilities necessary for acceptable job performance as determined by the City. Example combination includes, but is not limited to graduation from an accredited college or university with a Bachelor of Science Degree in Engineering, Computer Science, or related field and one year of experience working with electrical circuits, information, camera or communications system design or repair experience; or International Municipal Signal Association (IMSA) Traffic Signal Technician Level II or State of California Department of Industrial Relations Electrician certification, and one year of experience working with electrical circuits, information, camera or communications system design or repair experience; or graduation from high school or equivalent and five years of experience working with electrical circuits, information, camera or communications system design or repair experience.

**Special Conditions & Requirements:** Ability to move objects weighing up to 30 pounds, exert moderate physical effort, bend in all directions, climb stairs and ladders, walk on uneven surfaces, make field observations, and remain in a stationary position for extended periods of time. COLOR VISION: Keen Color Vision.

**License & Certificates:** A valid California Class "C" driver's license or equivalent at time of appointment. IMSA Traffic Signal Technician Level I certification within one year of appointment.

## **SUPPLEMENTAL INFORMATION**

**Desirable Qualifications:** IMSA Traffic Signal Technician Level I certification.