Intelligent Transportation Systems Specialist

CLASS TITLE	CLASS CODE	SALARY GROUP	SALARY RANGE
INTELLIGENT TRANSPORTATION SYSTEMS (ITS) SPECIALIST I	2271	B21	$54,278 - $87,046
ITS SPECIALIST II	2272	B23	$61,184 - $99,658
ITS SPECIALIST III	2273	B25	$69,572 - $114,099

GENERAL DESCRIPTION

Performs intelligent transportation systems technical and design work analyzing, designing, and implementing automated traffic management systems, as well as installing, testing, troubleshooting, maintaining, and repairing intelligent transportation systems devices and equipment.

DISTINGUISHING CHARACTERISTICS

The Intelligent Transportation Systems (ITS) Specialist job classification series is intended for employees who install, maintain, troubleshoot, and repair traffic control signals, dynamic message signs, and related communication and ITS field devices. If the focus of the work performed is traffic monitoring, the Intelligent Transportation Systems Operations Technician may be a more appropriate classification, as that series is reserved for positions involved in monitoring and reporting incidents on area roadways. The primary responsibility of the ITS Operations Technician series is to use intelligent transportation system devices to search for and verify incidents and lane closures, and monitor traffic congestion.

EXAMPLES OF WORK PERFORMED

Coordinates the installation, implementation, and upgrade of local area networks, intelligent transportation systems, and related equipment.

Provides technical support, guidance, and training related to intelligent transportation systems and equipment.

Conducts testing on hardware, software, and intelligent transportation systems.

Analyzes, researches, and recommends hardware and software needs.

Performs minor repairs and adjustments on equipment.

Performs related work as assigned.

DESCRIPTION OF LEVELS

Examples of work and descriptions are meant to progress through the levels. For example, an employee at level III may also perform work listed within the previous levels.

***Note**: Employees at the journey level may independently perform the full range of work listed in the examples above or may assist others in that work. Any senior-level employee (levels II-III) can serve as a team lead. Senior-level employees may perform the full range of work listed in the examples above and/or the level preceding it and may provide guidance to others or serve as a lead worker providing direction to others. Factors that may distinguish between senior levels include the scope of responsibility and oversight, the complexity of the work performed, and the employee's related experience and education.*

ITS SPECIALIST I: Performs complex (journey-level) intelligent transportation systems technical and design work. Works under general supervision, with moderate latitude for the use of initiative and independent judgment. Employees at this level may routinely assist others in performing work of greater complexity.

ITS SPECIALIST II: Performs highly complex (senior-level) intelligent transportation systems technical and design work. Works under limited supervision, with considerable latitude for the use of initiative and independent judgment. Employees at this level may provide guidance to others and may:

- Design and develop intelligent transportation systems, which includes analyzing user requirements, writing design documentation and methods, evaluating systems hardware and software, and preparing work diagrams and data flow charts.
- Develop and maintain testing procedures, plans, and documentation.
- Maintain intelligent transportation systems' laboratory test equipment, such as simulators and traffic signal controllers.
- Coordinate traffic studies, analyze traffic data, determine needs, and prepare plan layouts for traffic projects related to intelligent transportation systems.
- Review and monitor contracts related to intelligent transportation systems and equipment; and write and/or revise specifications, amendments, and contract provisions related to intelligent transportation systems and equipment.

ITS SPECIALIST III: Performs advanced (senior-level) intelligent transportation systems technical and design work. Works under minimal supervision, with extensive latitude for the use of initiative and independent judgment. Employees at this level may oversee work listed in the examples above or serve as a lead worker providing direction to others.

GENERAL QUALIFICATION GUIDELINES

EXPERIENCE AND EDUCATION

Agencies have the discretion to identify the general or specialized experience, education, or certifications required for positions and may tailor qualification requirements to specifically meet the agency's business needs. Agencies may substitute experience, education, military service, apprenticeships, and relevant credentials for one another, if appropriate and allowed by statute.

KNOWLEDGE, SKILLS, AND ABILITIES

For all levels

- Knowledge of intelligent transportation systems, design and documentation methodologies, and contract development and management.
- Skill in analyzing and organizing business and technical data; problem solving and critical thinking; and using a computer and applicable programs, applications, and systems.
- Ability to follow instructions; to analyze equipment and to resolve problems; to read and interpret applicable plans, schematics, blueprints, and maps; to learn new intelligent transportation system technologies; and to communicate effectively.

Additional for ITS III level

- Ability to serve as a lead worker providing direction to others.