

intelligent imaging systems

formerly Thermal Eye Technologies Inc.

4518-101 Street Edmonton, Alberta T6E 5G9

ITS Installation/Service Technician

Intelligent Imaging Systems Inc. (IIS) is a supplier and integrator of some of the most advanced imaging-based electronic inspection systems today. We provide transportation and law enforcement agencies with the industry's most technologically advanced tools in an effort to make the goals of safety and security more efficient and effective.

We have developed a suite of camera-based technologies that include thermal/digital imaging sub-systems integrated with Intelligent Transportation System (ITS) devices and proprietary software to perform in-motion vehicle screening. Our technologies, our expertise and our cultivated partnerships with proven technology providers enable us to create the most advanced safety and security enforcement systems available in the marketplace today.

Our core markets are transportation safety and security, law enforcement and public security.

Intelligent Imaging Systems' head office is in Edmonton, Alberta, Canada with sales offices located in Edmonton, Alberta; Vancouver, British Columbia; Ottawa, Ontario; and Frankfort, Kentucky. **This position will be based out of Edmonton.**

This busy, challenging position offers a competitive salary, bonus structure, and medical and dental benefits.

Job Definition

Performs advanced level technical support work installing, repairing, maintaining, programming and modifying devices and equipment associated with intelligent transportation systems (ITS), traffic control systems, wireless communication technologies and networks.

Installs or maintains transportation related electronic devices and equipment.

Communication related work includes install/remove, troubleshoot, repair, program, and calibrate equipment and devices such as, but not limited to, data communications systems, digital/analog public safety two-way wireless equipment, digital microwaves, fiber optic equipment, routers/switches, specialized communications software, and camera systems for either Security or Intelligent Transportation Systems applications.

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Position requires install/remove, troubleshoot, repair, program, and calibrate equipment and devices such as, but not limited to, dynamic message signs and electronic signs, pavement embedded detection sensors, traffic control equipment/signals, autoscope detection, telemetry/fiber-optic signal systems and other electrical components.

Supervision Received

Imaging and ITS technicians report to Field Supervisor and higher level management staff.

Essential and Marginal Function Statements

Essential and other important responsibilities and duties may include, but are not limited to, the following:

Essential Functions:

1. Installing and maintaining a wide variety of Imaging and ITS devices such as CCTV and digital cameras, illuminators, video detection systems, vehicle induction loops, dynamic message signs, solid state equipment, fiber optic equipment, computerized communication cables, light emitting diode lamps, and related devices and equipment for freeway, arterial roadways and government facilities; troubleshoot malfunctions, isolate defects and repair devices and equipment; verify proper device and system operation; conduct inspections and periodic preventive maintenance.
2. Monitor Camera and ITS device operation through the use of a laptop computer in the field or a desktop computer in the service centre; use sophisticated ITS software, both proprietary and non-proprietary; recommend and safely complete appropriate changes for effective system operation.
3. Evaluate, plan, direct, and perform repair, removal, and replacement of poles, cabinets, controllers, and other equipment; repair conduit and pull wires and cable, as needed; perform emergency repairs as needed.
4. Modify or update existing cameras and ITS devices and equipment as required to optimize performance.
5. Participate in the design, layout, modification, and fabrication of the ITS components used in the field; recommend camera and ITS equipment specifications; assist in developing operating procedures for camera and ITS devices; read diagrams, blueprints, manuals, and specifications for new installations and continual maintenance of cameras and ITS devices; make corrections to schematics and blueprints; assist contractors and other agencies with installation of new devices and system expansion.

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6. Estimate materials and repair parts, equipment, and tools required to work at a remote or central location; make independent technical decisions in the course of day to day maintenance activities.
7. Direct and participate in a wide range of functional electrical tasks on cameras and ITS components; isolate prime power malfunctions and coordinate repairs with electrical contractors; replace power service points as needed.
8. Lead and participate in complex field and bench testing procedures on a variety of camera and ITS equipment, such as closed circuit television and digital camera systems, traffic system control units, dynamic message signs, radio communication facilities, conflict monitors, incident detection systems, inductive vehicle detection systems, power service assemblies, and others; test, troubleshoot, and repair camera and ITS equipment to component level of micro processing systems; maintain and service a variety of test and repair equipment.
9. Utilize proper work methods and techniques in the set up and use of equipment.
10. Document work performed on all camera and ITS devices in the shop or field.
11. Assist shop supervisor within the shop as needed with ongoing operations.

Marginal Functions:

1. Assist communications technicians with repairs and connection of intercommunication cable and related equipment.
2. Coordinate and work with other related technical staff as required.
3. Stay abreast of new imaging and electronic devices in the field of ITS.
4. Perform related duties and responsibilities as required.

Qualifications

Knowledge of:

Principles and practices of the use of diagnostic and utility software to locate problems and repair system equipment.

Principles and practices of state and local traffic control guidelines.

Cable and component color coding.

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Tools, equipment, practices, and methods used in installing, maintaining, and repairing electronic solid state camera and illuminator systems, roadside electronic and associated equipment.

Practices and techniques of field and bench testing of electronic devices and components.

The relationship of the various components of a CCTV-based surveillance system.

Interpretation of design schematics, site plans, maps, and engineering drawings.

Advanced mathematical principles.

Techniques and methods of record keeping.

Pertinent federal, state, and local laws, codes, and regulations.

Ability to:

Work independently without direct supervision.

Communicate clearly and concisely, both orally and in writing.

Establish and maintain effective working relationships with those contacted in the course of work.

Maintain effective audio-visual discrimination and perception needed for:

Making observations;

Communicating with others;

Reading and writing; and

Operating assigned equipment.

Maintain mental capacity which allows the capability of:

Making sound decisions;

Effective interaction and communication with others; and

Demonstrating intellectual capabilities.

Maintain physical condition appropriate to the performance of assigned duties and responsibilities which may include the following:

Handling equipment up to 50 lbs

Sitting for extended periods of time; and

Operating assigned equipment.

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Experience and Training Requirements:

Experience: Three years of experience in CCTV, machine vision, ITS or traffic control system installation, repair, and maintenance.

Training: Equivalent to graduation from high school, plus additional specialized training in electronics.

License or Certificate: Possession of a valid driver's license on the date of application.

Working Conditions

Environmental Conditions:

Office, shop, and field environments; travel from site to site; exposure to electrical energy, high voltage, computer screens, heat, cold, noise, dust, fumes, inclement weather conditions; work in high speed and high volume traffic; work at heights on ladders or other elevating device.

Frequent travel, occasionally short notice and/or prolonged, between Canada and USA is a component of this position. Security clearances must be obtainable for travel purposes and controlled facilities.

Physical Conditions:

Essential and marginal functions may require maintaining physical condition necessary for light to moderate lifting, bending, stooping, kneeling, climbing, and standing for prolonged periods of time; operating motorized equipment and vehicles; the ability to distinguish color.

Application

Please submit resume to careers@intelligentimaging.com , or fax to 780.461.3039 and include salary expectations and availability.