

Toll System Maintenance Technician

The Rhode Island Turnpike and Bridge Authority is seeking applications for a casual Toll System Maintenance Technician. Prior knowledge and experience of Electronic Toll Collection Systems preferred. The candidate must be able to work a flexible schedule and perform on call duty including nights, weekends and holidays.

Interested persons should submit a letter of intent and resume electronically to Marianne Durgin, Executive Assistant to the Director, mdurgin@ritba.org . These documents must be submitted by November 17th, 2017 at 4 p.m.

The RITBA is an Affirmative Action/Equal Opportunity Employer.

Toll System Job Description:

Under limited supervision, the successful candidate will manage and maintain Toll Collection Systems throughout RITBA facilities. Responsible for monitoring daily lane activity and troubleshooting as needed. Establish and monitor use of preventative/predictive maintenance activities. The knowledge and experience with hands-on integrated environment, the ability to apply test technologies and procedures required to troubleshoot and maintain a complex Digital/Analog Electronic Toll Collections systems is critical. Familiarity with circuit tests and debugging protocols are necessary in the daily preventative maintenance and overall system operational maintenance requirements.

Responsibilities and Performance Standards:

Supports the repair of toll systems equipment and related systems.

- Installs, upgrades, modifies or replaces equipment as directed or required
- Monitors daily lane activity and investigates errors in addition to the automatic trouble reporting system to ensure a timely problem resolution
- Performs a continuous preventative maintenance inspection on sites
- Does reactive maintenance and repair as needed
- Performs problem resolution on new and existing equipment
- Monitors, performs diagnostics, and repair of problems involving vehicle loop detection equipment, automatic vehicle ID readers, antennas, RF sources, video cameras, switchers, multiplexers, optical treadles, monitors and frame grabbers. Tests toll collection systems through physical inspection and electronic test and measurement equipment procedures.
- Performs diagnosis and repair of equipment problems with: lane control servers, computers, printers, traffic signals, gates, IR beams, light curtains, message signs, scanners, and other toll related equipment
- Reviews technical specifications of proposed toll collection system equipment enhancements to develop a comprehensive list of equipment, services, and parts needed

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Familiar with and able to support:

- Induction loops
- Fiber optic treadle systems
- RS232/422 serial communication systems
- Laser scanner systems
- “Touch screen” monitors
- 5 & 12 volt “Opto 22” logic systems
- “Snap” controller technology systems
- Thermal Printers
- RF “Kapsch Multiprotocol” readers systems (Antennas, RF module, controller systems”
- Parking/Toll Road barrier systems (gates, interfaces, and mechanical systems)
- Circuit board level troubleshooting and repair
- RF systems (remote signs, communication radios, broadcasting systems)
- File transfer monitoring (Kapsch, Emovis, RITBA)

General Requirements:

- Mechanically and physically able to repair facility systems
- Able to lift up to 50 lbs.
- Able to climb and crawl to perform repairs and work in hot/cold environments
- Valid driver’s license and good driving history
- “Bondable” (able to pass background security/criminal checks for credit card systems and PCI compliance)
- Familiar with OSHA and road safety guidelines and procedures
- Support and work with electricians (familiar with electrical wiring)
- Must show a willingness to learn and expand responsibilities
- Must be a self-starter and work well independently or with other trades (Electrician, Maintenance, and Engineering)
- Small tool, mechanical tool, electronic tool knowledge and proficiency required
- Prior knowledge and experience of Electronic Toll Collection systems preferred