

**Job Code.... 101315**  
**Position It: (PTAA) (NE).**  
**Developed by.....JS**  
**Reviewed by: LK/SG**  
**Approved by.....LK**  
**Date: ....10/12; 09/18**

**University of Rhode Island Position  
Description**

**TITLE:** Technician II, Environmental Management Controls Systems

**DIVISION:** Administration (Facilities Services)

**REPORTS TO:** Manager, EMCS

**GRADE:** 11

**SUPERVISES:** Senior Maintenance Technicians, other Tradesman and Technicians as assigned, Contractors and Vendors as directed by the Manager.

**BASIC FUNCTION:**

Program, maintain, and repair the University's Environmental Management Control Systems (EMCS) and associated heating, ventilation and air conditioning (HVAC) systems and equipment. Perform quality assurance inspections and EMCS programming for Facilities Management to insure compliance with design specifications, contract documents, building codes, and LEED specifications. Identify and correct EMCS software problems related to design. Work with design engineers on building designs to insure the constructability and operability of building EMCS and HVAC systems. Supervise URI Staff, HVAC vendors, Controls Vendors, and Electrical vendors as required.

**ESSENTIAL DUTIES AND RESPONSIBILITIES:**

Remotely answer and correct EMCS alarms.

Program, maintain and repair EMCS and HVAC systems and equipment.

Modify EMCS programming to correct design deficiencies, to perform HVAC Improvements, and to adjust for commissioning requirements.

Respond to off hour call-ins from URI Dispatch.

Work during snow storms and inclement weather as required. (Essential Employee)

Perform correction to HVAC Equipment (reset, adjust).

Coordinate with staff from appropriate shops to maximize the efficiency and performance of building systems.

Operate and program systems managed by EMCS to include HVAC, lights, water heaters, fume hoods, research equipment, drives and other computerized building management systems

Troubleshoot digital, electric and pneumatic control systems to determine causes of failures, and perform the required repairs as soon as possible. Request support from the appropriate contractors, as necessary, to accomplish more extensive repairs. Assist in the development of the bid specifications, and in the management of these contracts, as needed.

Analyze the energy management control systems and compare to the latest technology. Assist with the design and upgrades needed to keep the systems both current and operating correctly.

**OTHER DUTIES AND RESPONSIBILITIES:**

Monitor and inspect construction projects at the direction of the Manager.

Review contract plans and specifications.

Review EMCS programming and modifications with EMCS Manager.

Coordinate with Campus Planning and Design and with the Office of Capital Projects to insure plans and specifications are in Compliance with URI design standards.

Perform other duties as required.

**LICENSES, TOOLS AND EQUIPMENT:**

Computers; printers; word processing, spreadsheet and database software; electronic diagnostic equipment; hand tools; tools of the trade; office equipment (e.g., fax, phone, calculator); motor vehicle; safety equipment. Must use cell phones and radios to communicate with others. Valid state driver's license. Documented training on Siemens and Andover controls systems.

**ENVIRONMENTAL CONDITIONS:**

While this position is not substantially exposed to adverse environmental conditions, outdoor work involves exposure to all weather/climate conditions and temperatures; exposure to high voltage current, noxious chemicals, high-pressure systems, moving parts and asbestos. May work in small, cramped areas. Work may involve lifting and carrying objects weighing as much as 75 pounds up to 50 yards as a regular part of the job. Climbing, stooping, bending, reaching, walking and sitting for extended periods of time may be required.

**QUALIFICATIONS:**

**REQUIRED:** Associate's degree in a related engineering field, or in a computer science field, with five years of experience in the analysis, troubleshooting, and repair of heating, ventilation, lighting, and building systems with Energy Management Controls; OR, Electrician License or HVAC license with five years of experience as an energy management controls systems technician with similar duties and responsibilities OR, high school diploma and completion of a recognized training program and certification from both Siemens and Andover Controls, with five years of experience as a Technician on equipment similar to the University-operated energy management control systems with certification in the field; Demonstrated knowledge of digital, electrical and pneumatic controls; Demonstrated knowledge of heating, cooling, and air-conditioning systems; Demonstrated knowledge of engineering and construction techniques; Demonstrated knowledge of computer controlled energy management systems; Demonstrated strong interpersonal and verbal communication skills; Demonstrated proficiency in written communication skills; and Demonstrated ability to work with diverse groups/populations. Must have a valid state driver's license. Must have documented training on Siemens and Andover controls systems.

**PREFERRED:** **Any of the following:** Associate's degree/HVAC/Electrical, Rhode Island State Refrigeration license; Certification in EMCS from a recognized training institution; Demonstrated knowledge of co-generation and thermal storage; and, Demonstrated experience in a University or campus setting working on large systems with centralized control systems.

**ALL REQUIREMENTS ARE SUBJECT TO POSSIBLE MODIFICATION TO REASONABLY ACCOMMODATE INDIVIDUALS WITH DISABILITIES.**