Job Class Profile: **Regional Building Automation Technologist**

Pay Level: **CG-31** **Point Band:** **690-703**

Factor	Knowledge	Interpersonal Skills	Physical Effort	Concentration	Complexity	Accountability & Decision Making	Impact	Development and Leadership	Environmental Working Conditions	Total Points
Rating	5	4	3	5	4	4	4	1	4	
Points	233	67	19	24	120	87	83	21	43	697

JOB SUMMARY

The Regional Building Automation Technologist performs advanced skilled technical work in the design, administration, installation, and maintenance of building automation system networks in acute care hospitals, community clinics, and long term care facilities.

Key and Periodic Activities

- Administers building automation system networks onsite and remotely.
- Plans and designs upgrades and repairs to existing systems as well as new installations. Monitors new systems to verify proper operating sequence based on engineering specifications.
- Performs the necessary commissioning, installation, diagnostic, and maintenance procedures such as verification of system functions to ensure the proper operation of building automation systems.
- Reengineers existing control processes and programs, and tests control processes and field controllers for new or retrofitted equipment.
- Identifies, presents and implements energy conservation initiatives and tracking by utilizing all energy data and by utilizing and/or modifying the existing building automation-system features.
- Constructs control enclosures for field hardware, installation of motor speed drive systems, and isolation room controls.
- Maintains motor control centers motor speed drives and isolation room controls.
- Identifies, installs and troubleshoots various building automation hardware and computer software systems and performs preventative maintenance.
- Prepares and maintains mechanical, instrumentation, and communications equipment inventory.
- Coordinates network user access, security, backup and archiving functions for building automation.
- Responds to and resolves temperature and air quality problems and concerns.

SKILL

Knowledge

General and Specific Knowledge:

— Building automation system maintenance including heating, ventilation, and air conditioning design and operations.

Formal Education and/or Certification(s):

Minimum: 3 year Post-Secondary Diploma in Electronics Engineering Technology (Instrumentation)

Years of Experience:

— Minimum: 2-3 years

Competencies:

— Repairs and calibrates machinery

— Instrumentation

— Diagnostic assessment

Interpersonal Skills

— A range of interpersonal skills are used including listening to information from others, asking questions to get information, providing routine and complex information to others, and gaining the cooperation of others to complete work tasks or solve problems

— Communications occur with employees within the immediate work area and department and outside organizations.

— The most significant contacts are with internal customers/clients regarding changes to be made or problems with automated systems, service representatives for equipment purchases, installation, and technical support assistance and supervisor/manager.

EFFORT

Physical Effort

— The demands of the job occasionally result in fatigue requiring periods of rest.

— Lifting or moving objects less than 10 lbs such as a tool kit is a constant requirement and lifting or moving equipment to perform installations is a regular work requirement.

— Work involves sitting while conducting research on new equipment and/or completing routine paperwork. Driving to various health care sites and walking throughout the sites is required to provide support and perform repair work. Regular requirement to work in awkward/cramped positions or body movement when performing equipment repairs or installing new equipment/hardware.

Concentration

— There is a requirement for **visual concentration or alertness** when performing activities such as testing and inspecting equipment or installing and setting up networks or hardware.

— **Auditory concentration** or strain includes listening to end users regarding equipment issues/problems or listening to equipment for unusual noises to diagnose problem.

— **Other sensory demands include smelling** to determine if electronic components have overheated and are burning or when calibrating equipment, **touching** is required to see if

excessive heat exists.

— **Alertness and concentration** are required when working with or near electricity, installing and setting up new networks/hardware/software, or monitoring new systems based on engineering specifications.

— **Time pressures, interruptions, deadlines and lack of control over work pace** are experienced when equipment malfunctions which requires immediate resolution. Work covers a broad geographic area which can cause **time pressures/deadlines** when trying to address and diagnose issues across multiple sites, each with urgent issues.

— **Eye/hand coordination** is required to perform installation and maintenance of building automated systems.

— **Exact results/precision work** is required to verify system functions to ensure proper operation of building automation systems.

Complexity

— Tasks and activities are generally different but related allowing for use of similar skills and knowledge.

— Problems/challenges normally are resolved by following standard procedures or may require research and solution development.

— When addressing typical challenges, problems, or issues, reference may be made to relevant standards, policies, and procedures, software/hardware/system manuals, the internet, as well as advice from suppliers and/or manager/supervisor.

RESPONSIBILITY

Accountability and Decision-Making

— Work tasks are somewhat monitored and controlled.

— Work is performed with a high level of independence in carrying out daily tasks and activities and is reviewed through discussions and analysis of results obtained.

— Have authority to prioritize and perform daily work tasks and to address urgent issues.

Impact

— Work results can have a positive impact within the immediate work area, department, inside/outside the organization and on clients as well as on resources such as equipment, and finances as properly maintained equipment minimizes equipment and operational down time, decreases financial costs, and increases efficiencies with respect to energy consumption and green energy return goals.

— Work tasks can positively affect energy monitoring and advanced plant operations.

— Errors in the design, administration, installation or maintenance of building automation systems networks can result in system downtime within health facilities affecting client work environments and patient comfort. Unnecessary repairs can have a costly impact on clients and/or the department.

— Errors are typically identified and resolved within hours of problem identification.

Development and Leadership of Others

— Not responsible for the supervision of staff.

— May provide occasional advice and guidance to new staff.

WORKING CONDITIONS

Environmental Working Conditions
— Appropriate safety precautions and equipment (i.e. safety glasses, boots) may be required when installing equipment/hardware. — There is a limited likelihood of minor cuts, bruises, abrasions or minor illnesses. — Occasionally exposed to unusual or distracting noise; glare; heights; adverse weather conditions and travel.