

Occupational Description

Position title	Automation Technologist
Reports to	Chief Executive Officer
Position Type	Full Time

Position purpose

- This position plays an important role in executing all aspects of programming and automation involved with the commissioning of the Vacuum Microwave Dehydration machines at NuWave Research Inc.
- This position is responsible for all testing, troubleshooting and repairing of all programming, coding and automation related to ensuring excellent customer service.
- The Automation Technologist works with the team to get the entire unit assembled on time and budget.
- The role ensures that the personal he/she is responsible to lead are adhering to the employment code of conduct.
- Being a company of constant improvement through innovation, this position will actively participate in the NuWave Research Inc. continuous improvement program.
- Based on business requirements, this position is responsible for executing all tasks as assigned by the executive management.

Duties and responsibilities

- Control system design for industrial food equipment, as well as a variety of other turnkey industrial process packages.
- Maintain accurate design and verification documents.
- Assist mechanical and shop teams during the build phase.
- Debug and commission control systems at our facility, during the system integration stage and at customer sites during installation.
- Travel as required to customer and supplier sites to perform installation, commissioning and training duties.
- Select, test and integrate hardware and software components such as robots, analog devices, motion controllers, and sensors.
- Field commissioning of complete dehydration systems, including PLC, HMI, Motor control, valves, instruments, and cleaning systems.
- Support R&D prototype development and test activities.
- Provide remote support to end-users of in-service systems.
- Proactively seeking information from either direct manager or related function to meet production timelines.
- Exhibit the flexibility in taking on tasks that are not generally listed above in order to optimize the company's performance.

Qualifications

- Education
 - Diploma or Degree in Industrial Instrumentation & Automation Control Technician or similar.
- Professional Certification
 - Class 5 clean driving license with access to a car.
- Experience
 - Experience with PLC programming in ST language is required; VFD (min 2 years)
 - Hands on experience with "C" programming (intermediate level) is required.
 - PLC programming, experience with TwinCAT III is required.
 - Experience in Beckhoff Automation is a strong asset.
 - Experience with set up and query editing of SQL server is an asset.
 - Experience / Knowledge with use of version control / repository software (intermediate level) is an asset.



- Experience in programming HMI (Intermediate level) is required.
- Specialized knowledge
 - Ability to read and interpret electrical schematics for trouble shooting at customer site is highly preferred (intermediate level)
 - Proven ability to communicate with other colleagues regarding the understanding of PLC, HMI, Servo, Industrial communication network and VFD related topics.
 - Knowledge of working on ERP system.
- Skills
 - Ability to read and interpret documents such as safety rules, operating and maintenance.
 - Familiarity with the metric system and imperial system.
 - Conflict resolution abilities and positive attitude towards work environment and collaborative work.
- Abilities
 - Must be able to lift 40 pounds.
 - Ability to juggle different tasks at one time depending on the current need.
 - Ability to produce consistent, quality products
 - Ability to follow instructions given both verbally and in a written format
- Other characteristics such as personal characteristics
 - Ability to see big picture while not losing focus of the small details.
 - Ability to problem solve and communicate effectively (both verbally and written)
 - Strong Work Ethic and Leads by example.
 - Working as part of a team with minimum supervision.
 - Maintain a positive and respectful workplace.
 - Professional etiquette with the phone calls and emails.
 - Willing to work 40+ hours a week.
 - Strong team player and willingness to support the organization in tasks outside of the job description.

Working conditions

This role will work in collaboration with a talented team of Engineers, Food Scientists, and the Production/Manufacturing team and be required to set and deliver on the expected standards of excellence set by senior management.

Travel will be a large part of this position and there is potential for an extended period of travel.

Physical requirements

Must be able to walk, sit, or stand for extended periods and navigate safely in an industrial environment (e.g., ladders, stairs, stationary and moving industrial equipment).

Direct reports

None

Approved by:	
Date approved:	
Reviewed:	

Ideally, a job description should be reviewed annually and updated as often as necessary.