

## Job Description Software Systems Engineer III

Type of Job – Full Time – Salaried/Exempt

Location – Swanzey, NH

### Job Summary

The Software Systems Engineer III is part of a team dedicated to advancing Nanotech's machine technology. This position is principally responsible for the system level PLC software and support ultra-precision machine systems for the electro-optics manufacturing industry. The Software Systems of Engineer III will have the ability to define and resolve engineering problems under limited supervision of more experienced personnel. Typical projects are a combination of new development, maintenance, and revision of existing applications.

### Core Responsibilities

- Broadly applies principles, theories, concepts, and techniques as related to system level PLC software.
- Solves system software problems using accepted engineering practices under limited supervision of more experienced personnel.
- Leads small projects or phases/portions of larger projects.
- Supports the development of large, complex software intensive machining systems with focus on real-world use and exceptional performance.
- Familiar with complete machining systems pertaining to the integration of software and hardware components.
- Creation and maintenance of applications software with revision control.
- Solid understanding of PLC logic control as it is related to machine tool interfaces and motion control systems.
- Fluent with CNC g-code programming language and paramacro programming.
- Reads machine tool schematics.
- Understands servo systems and feedback devices and optimization of these devices.
- Conceptualizes and engineers new, unique electrical systems that meet customer requirements.
- Handles multiple projects simultaneously, meet deadlines, while effectively managing priorities and communicating progress.
- Actively participates in product design reviews and work directly with the engineering staff to develop cost effective solutions.
- Interfaces with engineers and technicians of other business units to help coordinate overall technical activities wherever appropriate and desirable.
- Ensures that all relevant data is collected, reviewed, and filed for all projects in accordance with standard procedures.
- Prepares and presents detailed technical reports to management and staff.
- Contributes to written instruction and operation manuals for Nanotech's products.
- Performs in-house technical support.
- Helps to achieve the completion of all projects within budget and on schedule.
- Travels up to 10% of the time.
- Ensures safe work practices are followed and complies with safety regulations.

- Performs other related duties as assigned in accordance with overall job responsibilities.

### **Education and Experience**

- Bachelor's degree in computer science, or related field, from an accredited university and 10+ years of work experience, or a master's degree in computer science plus 5+ years of work experience.
- Demonstrated versatility and high competency levels in creativity and technical comprehension.
- Familiarity with Delta Tau motion control products.
- General understanding of C programming language.
- Computer proficiency in MS Office Suite.

### **Competencies**

- Excellent interpersonal skills (written and verbal communication, ability to articulate ideas and concepts, capable of positive influence and ability to work alone or as part of a team).
- Utilize strong verbal and written skills to communicate effectively with technical and non-technical partners at various levels.
- Self-motivated; works independently, or as part of a group.
- Excellent organizational skills, with strong attention to detail.
- Maintains professionalism with all visitors and guests.

To apply for this position, please send your resume to: [careers@nanotechsys.com](mailto:careers@nanotechsys.com)