

## Job Description: CNC Application Engineer

Company: Rock Integration  
Location: Escanaba, MI  
Employment Type: Full-Time

### About Rock Integration

Rock Integration is a premier CNC system integration company dedicated to providing cutting-edge manufacturing solutions across multiple industries. We specialize in bridging the gap between complex hardware and intelligent software, delivering automation and precision that empowers our clients to succeed. We are looking for a driven technical expert to join our team and help us push the boundaries of manufacturing efficiency.

### Position Overview

We are seeking a **CNC Application Engineer** with deep technical expertise in Fanuc control systems to lead integration projects and optimize manufacturing processes. In this role, you will be the technical backbone of our custom solutions, utilizing your knowledge of PMC ladder logic, parameter tuning, and macro programming to create seamless automated systems.

The ideal candidate is a professional who thrives in a manufacturing environment, possesses a meticulous eye for detail, and has hands-on experience integrating CNC equipment with robotics and automation cells.

### Key Responsibilities

#### System Integration & Programming

- **Fanuc CNC Mastery:** Configure, tune, and optimize **Fanuc CNC parameters** to ensure peak machine performance and stability.
- **Logic Development:** Design, modify, and troubleshoot **PMC ladder logic** to support machine functions, auxiliary devices, and safety interlocks.
- **Advanced Programming:** Develop complex **Custom Macro B** and **G-code** programs to automate machining cycles, probing routines, and family-of-parts processing.
- **Robotic Interfacing:** Collaborate on the integration of 6-axis robots and machine tending automation, ensuring seamless communication between the CNC and robot controller (via I/O or industrial protocols).

#### Project Execution & Support

- Validate machine setups and turnkey solutions on the shop floor, ensuring all systems meet strict customer specifications.
- Troubleshoot complex electrical, mechanical, and software issues related to CNC

integration.

- Provide technical training and documentation to customers and internal teams regarding system operation and maintenance.
- Conduct cycle time analysis and process improvements to maximize throughput for clients.

## Required Qualifications

- **Experience:** Minimum of 3–5 years of experience in a CNC Application Engineering, Controls Engineering, or advanced Manufacturing Engineering role.
- **Fanuc Expertise:** Deep understanding of Fanuc control architectures (Oi, 30i, 31i series, etc.), including FOCAS, SRAM backup procedures, and parameter structures.
- **Ladder Logic:** Proven ability to read, write, and edit PMC ladder logic (Fanuc LADDER-III).
- **Macro Programming:** High proficiency in Custom Macro B programming for parametric part programming and probing logic.
- **Industry Knowledge:** Solid background in manufacturing environments (milling, turning, grinding) and familiarity with machining processes and tooling.
- **Background check required.**

## Preferred Qualifications

- Experience with other CNC controls (Siemens, Mitsubishi, Heidenhain) is a plus.
- Experience programming or operating industrial robots (Fanuc, ABB, Yaskawa).
- Bachelor's degree in Electrical Engineering, Mechanical Engineering, or related technical field (or equivalent field experience).
- Knowledge of industrial communication protocols (EtherNet/IP, Profibus, FL-net).

## Core Competencies & Attributes

- **Detail-Oriented:** You do not cut corners. You understand that a single incorrect parameter or line of code can cause crashes or scrap parts.
- **Organized:** You can manage multiple projects simultaneously, keeping documentation and backups version-controlled and accessible.
- **Professionalism:** You represent Rock Integration in front of clients with a demeanor that is confident, respectful, and solution-focused.
- **Problem Solver:** You approach errors with a logical mindset, isolating variables to find root causes rather than temporary fixes.

Send resume to [marketing@rockintegration.com](mailto:marketing@rockintegration.com)

