



Position: Panel Builder and Machine Assembler

Farris Automated Systems LLC is a supplier of custom automated assembly equipment for the automotive, heavy industrial, and general manufacturing industries. We offer complete turnkey systems from concept to installation. Farris Automated Systems employs engineers, machinists and assemblers in Mukwonago, WI. See our website at www.farrisautomation.com for more details.

Job Description:

This position is for an experienced panel builder that will be assembling custom designed panels for industrial machines. This is NOT a repetitive panel building job, it requires the ability to read schematics, then create and wire a new panel for every machine that is built.

Requirements:

- Building and wiring electrical panels for machines.
- Reading schematics and bill of materials
- Mechanical assembly of panels and machines (use of hand tools)
- Basic knowledge of hardware associated with PLCs, contactors, motors and pneumatics
- Ability to manage your own time and create a plan for a project.
- Attention to detail, while maintaining speed and quality.
- Valid driver's license

Ideal candidate will have 3 or more of these skills:

- Knowledge of electrical hand tools that are used to build a panel
- Mechanical skills to punch holes, drill and tap, lift upto 50 lbs
- Ability to travel to customer sites for 1-4 days to install machines
- Manual Machining (Bridgeport, lathe or welding)
- Shipping and Receiving

Standard work week

The job will be non-repetitive in nature with 10-15 machines built per year. The estimated job categories are:

- 60% Panel building and assembly.
 - Mounting hardware, punching holes, labeling wires and components.
 - Printing out labels
 - Specifying the correct wire size, colors and end terminals.
- 10% Machining
 - Modifying brackets, drilling holes in enclosures
 - Building of small brackets for components
- 20% Machine Assembly
 - Integrating the electrical panel with sensors and auxiliary components located on the machine.
 - Mechanical assembly of the machine
- 10% Installation, start up and service
 - Assisting engineers with the electrical start up and

The estimated travel will be 5% of the time. Some weekend work and travel required.

Travel:

Travel to customer sites will be required for some jobs.

Travel is generally in the US, but some overseas travel may be required

Trips can range from 1 day to 2 weeks with advanced notice

Some weekend work will be required.

Benefits:

- 2 weeks vacation, + holidays, + Flex Hours, comp time
- Job training on new technologies for current applications
- 401k, Health insurance, Life Insurance, Dental and Vision
- Relocation package available.
- Flexible work hours to fit family needs
- Some jobs can be work from office/home
- Positive work environment in a small company (25-30 employees)
- Being part of a growing company & industry

Interview Questions:

1. What are some tools used to built/wire and electrical panel? (wire crimpers, wire strippers, Drill, Taps, Screw Drivers, knock outs)
2. What voltages are used in machine enclosures (480, 230, 110, 24VDC, 12 VDC)
3. What is $\frac{3}{4}$ " in decimal? (0.75")
4. What does 'NC' or 'NO' stand for? (Normally closed, Normally Open)
5. What does 'CR40121' mean? (Control Relay, found on page 40, Line 121 of the schematics.)