



Position Title: Senior Machine Builder  
Department: Automation Toolroom

**MAJOR DUTIES:**

Machine, fit and assemble component parts and precision tooling to build special purpose machinery. Also, as required based on project size, co-ordinate the activities of a support group of toolmakers.

**SPECIFIC RESPONSIBILITIES:**

- Read and interpret blueprints, operation and product-related reference charts and tables and select mechanical measuring, checking and layout tools and devices.
- Execute measuring, checking and layout operations and select work piece materials and the required cutting tools and abrasives for metal removal operations.
- Perform metal removing operations using hand and power tools and select work piece clamping and holding devices and product-related components.
- Set up and operate, to prescribed tolerances, equipment (e.g. lathes, milling machines, surface grinders, drills, saws and boring machines) for the manufacturing of machine tooling.
- Manufacture component parts, assemble and test tools, jigs and fixtures for machine integration with electro-mechanical sub-assemblies and systems components.
- Fit and assemble parts and sub-assemblies to build special-purpose machinery.
- Integrate pneumatic and hydraulic systems into special-purpose machinery as required.
- Proceed with floor assembly according to design; assembling the machinery in a safe and proper order. Coordinate with the Electrician, Fabricator and PLC Programmer to provide for their needs, in a timely manner. Advise designers of any floor assembly design problems, coordinating rework if required.
- Provide mechanical support during debug, integration and machine acceptance.
- Participate as lead person in the debug/integration of the machine or station start up. Completing the set up checks of stations before PLC Programmers are scheduled to be on the station. Check to see if cycle times are achievable; and advising the designers of potential problems. Run the entire machine with the group and others, if required, to check functionality of operator stations, operator interface, loading and unloading areas, and guarding for ease of maintenance.
- Be informed about project status through Project Managers and the Toolroom Foreman.
- Ensure that CMP standards are met during the machining and assembly process. Advise designers of any potential design problems coordinating rework if required.
- Participate as lead person in the tear down and shipping of the equipment, dismantling in an orderly fashion to minimize the installation time at customers' site.
- Be an ambassador for CMP at the customer's site, providing a quick and efficient installation of the equipment. Follow all safety procedures according to CMP Health and Safety policies in addition to any on site Health and Safety procedures.
- Reassemble equipment to the point of buy-off at customer's site. Train maintenance and operators on running equipment and following safety procedures.
- Work with assigned manual writer to instruct special requirements of the machine.
- Develop CMP manufacturing standards, in conjunction with the Toolroom Foreman, according to machine building "best practices".
- Communicate and be a conduit to management of any constructive or objective ideas that arise; helping to keep the manufacturing standards up-to-date and at the highest level. Use the Toolroom group as a pool of technical knowledge, solving problems together efficiently and with mutual respect.

**QUALIFICATIONS:**

**Education:**

A Certificate of Qualification as a Toolmaker or Tool and Die Maker or equivalent.

**Experience:**

Ten years' hands-on experience in: toolmaking, mechanical assembly, machine troubleshooting, machine building and equipment installation.