	Position Title:	Mechanical Systems Designer	No.	100.6
	Department:	Mechanical Design	Revision:	0
	Report To:	Mechanical Design Manager	Date:	July 5, 2017

MAJOR DUTIES:

Plan, organize and direct through mechanical designers, all aspects of mechanical designs from concept to completion for specific projects.

SPECIFIC RESPONSIBILITIES:

- Assist in developing design and department standards.
- Assist implementing or achieving corporate objectives (i.e. new developments, policies, etc.).
- Supervise the mechanical design effort on various projects delegating tasks to a team of people.
- Organize documentation, including quotes, drawing registers, correspondence, requisitions, drawings, schedules, etc. on projects you are supervising.
- Review electrical requirements with respect to input and output devises with electrical designers.
- Review machine operations and machine sequences with programmers.
- Assist the fabricators, machinists, toolmaker and electricians in the debug, integration resolving problems and completion of systems.
- Perform engineering calculations with respect to strength of materials, speeds, horsepower, temperature, pressure, force, etc. as related to machine and tool designs.
- Analyze engineering drawings, and specifications to determine shape, dimensions, hardness etc. in the development of equipment, processes and products.
- Draft working drawings, detail drawings and bills of materials for equipment, sub-assemblies or product, using Solid Works.
- Determine tools, fixtures and equipment to be used in fabrication and assembly of mechanical components and complete assemblies.
- Examine project instructions and drawings to determine test specifications, procedures, objectives, test equipment and problems involved in designing, changing or re-arranging materials.
- Review drawings for accuracy, material selection, proper machining techniques, finishes, hardness, etc.
- Liaison with vendors and customers for technical information and specifications.
- Adhere to all CMP Health and Safety rules and procedures.