



Position Title: Mechanical Designer

Location: Montreal (Quebec)

Company Description:

At PyroGenesis Canada, we are driven by innovation, technology and environmental solutions. Our strength is our unique know how in designing, developing, manufacturing and commercializing plasma-based processes. Through our expertise, we deliver turnkey solutions to the multiple industries served by our customers including Defense, Environmental, Oil & Gas, Additive Manufacturing, Mining and Metallurgy. At PyroGenesis we have an experienced team of over 50 engineers, scientists and technicians working out of our office and our 38,000 square feet pilot plant located in Montreal.

Tasks and Responsibilities:

You will carry out 3D mechanical designs of the equipment and manage the drawings control system. More specifically, you will:

- Starting from raw concepts, process equipment design packages or verbal instructions, develop 3D models for various process equipment (vessels, furnaces, filter housings, etc.) using Autodesk Inventor.
- Prepare 3D models of various piping assemblies.
- Prepare 3D plant layouts. Prepare the 2D layout and elevation drawings.
- Perform material selection, dimensioning of parts and the choice of components, including refractory design.
- Take ownership of the assigned tasks including completion of the design and production feasibility analysis to ensure that the design is within the capabilities of the fabrication group and/or our subcontractors.
- Follow up on production /fabrication activities and provide technical support.
- Prepare the “as built” drawings, including in-the-field verification.

Desired Experience and Qualifications:

- DEC in Mechanical Technologies or equivalent.
- Very good working knowledge of AutoDesk Inventor or Solidworks.
- 0 to 2 years of relevant experience.
- Experience in equipment design for the process industry.
- Previous experience in welding, machining, or as a mechanic an asset.
- Knowledge of industrial piping standards and systems.
- Bilingual (French & English).
- Being resourceful and thorough.
- Able to work in a multidisciplinary group environment.