



Position Title: Mechanical Design Engineer

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.

We are currently seeking a Mechanical Design Engineer for our pilot plant located in Montreal. The Mechanical Design Engineer is responsible for the mechanical design of components incorporated into PyroGenesis Canada Inc's systems and products.

Tasks and Responsibilities:

- Starting from raw concepts, process equipment design packages or verbal instructions, develop 3D models for various process equipment (vessels, furnaces, filter housings, etc.)
- Prepare 3D models of various piping assemblies.
- Prepare 3D plant layouts. Prepare the 2D layout and elevation drawings.
- Perform choice of materials, dimensioning of parts, stress analysis, selection of components, including refractory design.
- Review the drawing packages prepared by the drafters to ensure that they meet the company's standards. Ensure that the drawing packages are complete and exempt from errors.
- Taking 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 its subcontractors.
- Prepare fabrication specifications, ensuring that the design is within the capabilities of the fabrication group and/or our subcontractors.
- Following-up on production /fabrication activities and providing technical support.
- Prepare the as built drawings, including in-the-field verification.

Desired Experience and Qualifications:

- Bachelor's Degree in Mechanical Engineering
- In depth knowledge of AutoDesk Inventor or Solidworks
- 0-5 years of relevant experience



- Candidate or member of the Ordre des ingénieurs du Québec
- Experience in the design of large equipment for the process industry
- Previous experience in welding, machining or in mechanics an asset
- Knowledge of industrial piping standards and systems
- Bilingual (French & English)