



PyroGenesis Canada Inc. is a world leader in the design, development, fabrication and commercialization of advanced plasma processes. We provide technical and manufacturing expertise, cutting-edge contract research, as well as turnkey process equipment packages to the defense, metallurgical, mining, additive manufacturing (3D printing), oil & gas, and environmental industries.

With a team of experienced engineers, scientists and technicians working out of our Montreal office and 3,800 m<sup>2</sup> (approx. 40,900 square feet) manufacturing and pilot facility, PyroGenesis maintains its competitive advantage by remaining at the forefront of technology development and commercialization.

The company offers a rewarding work environment, possibilities of promotion and a complete benefits package.

Located in downtown Montreal (Griffintown), we are looking for:

### **Position Title: Mechanical Design Engineer**

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

### **Requirements:**

- Bachelor's Degree in Mechanical Engineering•
- In depth knowledge of AutoDesk Inventor or Solidworks
- 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
- 0 to 5 years of relevant experience
- Bilingual (written and spoken French and English)

**Send resume to: [careers@pyrogenesis.com](mailto:careers@pyrogenesis.com)**

**Job reference #: P12\_3E**

*PyroGenesis Canada Inc. thanks all applicants for their interest. However, only those whose background and experience match the requirements of the role will be contacted.*

### **Equal Employment Opportunity**

*PyroGenesis Canada Inc. is firmly committed to ensuring a positive and professional working environment in which all people are treated with dignity and respect. We aim to provide a fair and consistent method for filling job openings in support of equality of opportunity and cultural diversity within the company.*

### **Message to recruiters:**

*Please note we do not accept calls from recruitment agencies without prior arrangement.*