

Mechanical Design Engineer

About the company

Questor is a public, international environmental Clean-tech company founded in late 1994 and headquartered in Calgary, Alberta, with field offices across North America. Questor designs, manufactures and services high efficiency waste gas combustion systems; as well as, power generation systems and water treatment solutions utilizing waste heat. We are focused on clean air technologies that safely and cost effectively improves air quality, supports energy efficiency and greenhouse gas emission reductions.

Our proprietary incinerator technology is utilized worldwide in the effective management of methane, hydrogen sulphide gas, volatile organic hydrocarbons, hazardous air pollutants and BTEX gases ensuring sustainable development, community acceptance and regulatory compliance.

Questor and its subsidiary, ClearPower Systems are providing solutions for power generation from landfill biogas, syngas, waste engine exhaust, geothermal and solar sources, cement plant waste heat in addition to a wide variety of projects across the globe.

With a focus on solid engineering design, our products enable our clients to operate cost effectively in an environmentally responsible and sustainable manner.

Reports To

The Mechanical Design Engineer will report to the Manager, Engineering and Project Management.

Job Overview

We are looking for a Mechanical Engineer to assist with design and manufacturing of our existing product line of incinerators as well as development of our new product lines of the Waste Heat to Power ORC and the Waste Water Vaporizer.

Role and Responsibilities

- Design of equipment using Solidworks and AutoCAD
 - Create manufacturing drawings for fabrication and assembly
 - Create engineering drawings for approval and construction.
- Perform mechanical and structural calculations with the use of analysis software
- Sizing, design and optimization of incinerators based on technical information provided by the clients, and creating corresponding design reports,
- Client interaction, assisting with coordination of various stakeholders for meetings and project execution,
- Visits to fabrication shops, Questor's Field office and project installations, client sites as appropriate,

- Maintain relevant tickets and certifications in order to access worksites and workplaces (i.e., H2S Alive and First Aid),
- Ensure designs are in compliance with relevant regulations and industry standards
- Perform testing of new designs and generate reports/presentations to inform the team
- Assist Project Engineer(s) with project specific designs and drawings

Qualifications and Skills

- Bachelor's degree in Mechanical Engineering
- 4-6 years' of relevant experience, P.Eng. eligible, P. Eng. Status an asset
- 2-4 years industry Solidworks experience
- Familiarity with CSA B149.3 gas code, ASME B31.3, AER Directive 60 an asset
- Self-starter with strong communication skills

Resumes with cover letter are to be emailed to hhojjati@questortech.com.

No agencies or phone calls please.