

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

Job Overview

We are looking for a creative Engineer (Mechanical, or Process) to assist with the development of two new product lines, the Waste Heat to Power ORC and the Waste Water Vaporizer, as well as support Questor's existing incineration product line.

Role and Responsibilities

- Design of equipment using Solidworks and some AutoCAD
 - Create manufacturing drawings for fabrication and assembly
 - Create engineering drawings for approval and construction (P&ID's, PFD's, electrical, etc.)
- Perform mechanical and structural calculations with the use of analysis software
- Size equipment such as pumps, heat exchangers and fans.
- 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

- Support existing Questor 's product line, sizing, design and optimization of incinerators and ORC heat to power generators based on technical information provided by the clients

Qualifications and Skills

- Bachelor's degree in Mechanical or Process Engineering
- Minimum of 4-6 years of relevant experience, P.Eng. eligible. P. Eng. Accreditation with APEGA is an asset
- 2-4 years of Solidworks experience is a must
- Process design experience, HYSYS, Symmetry or ProSim experience will be considered an asset
- R&D testing experience an asset
- Experience of performing FEA/CFD will be considered an asset
- Familiarity with CSA B149.3 gas code, ASME B31.3, AER Directive 60 an asset
- Self-starter with strong communication skills

No phone calls or agencies.