

RemoteCon Careers | Halifax, Nova Scotia, Canada

RemoteCon Limited · info@remotecon.ca · www.remotecon.ca

Job Description

Mechanical Design Engineer

Engineering · Full-time · In-person · Halifax, Nova Scotia

About RemoteCon

RemoteCon designs and manufactures rugged smart electronics and mechanical systems for subsea and remote environments, including rechargeable subsea battery systems, AI-powered underwater computers, and autonomous marine monitoring solutions. We are a small, collaborative team building innovative products for demanding ocean environments.

The Role

We are seeking a Mechanical Design Engineer with 3–5 years of experience to help develop the next generation of RemoteCon products. You will contribute to design, simulation, prototyping, CNC manufacturing, and production testing, with a particular focus on deep-sea pressure-rated enclosures and Autodesk Inventor.

What You'll Do

- Design subsea pressure-rated enclosures and mechanical assemblies for deep-sea deployment.
- Create 3D models, assemblies, detailed drawings, and manufacturing documentation using Autodesk Inventor.
- Perform structural simulations and finite element analysis (FEA) of pressure vessels under external hydrostatic pressure.
- Design sealing interfaces, O-ring grooves, mechanical connections, and manufacturable components.
- Coordinate with CNC machine shops on quotations, manufacturability, tolerances, and production.
- Support prototyping, assembly, and product verification.
- Assist production with vacuum leak tests to verify assembly integrity and sealing.
- Work closely with electronics, firmware, and production colleagues to improve designs and processes.

What We're Looking For

- Degree in Mechanical Engineering or equivalent relevant experience.
- 3–5 years of mechanical design experience.
- Strong Autodesk Inventor skills, including assemblies and production drawings.
- Experience with FEA and pressure vessel structural simulation.
- Knowledge of CNC machining, tolerances, GD&T, and design for manufacturing.
- Practical mechanical assembly, testing, and troubleshooting skills.
- Clear technical documentation and strong communication skills.
- Ability to take ownership and collaborate effectively in a small engineering team.

Nice to Have

- Experience with subsea pressure housings, external-pressure buckling, and O-ring seals.
- Knowledge of aluminum, titanium, stainless steel, and marine corrosion considerations.

- Experience with vacuum leak testing, pressure testing, and rapid prototyping.
- Familiarity with applicable pressure vessel standards and verification methods.

Additional Information

- Full-time, on-site position (no remote or hybrid work).
- Must be legally authorized to work in Canada.
- RemoteCon does not provide visa sponsorship or immigration assistance.

How to Apply

Apply through our Careers page or email your CV and cover letter to info@remotecon.ca with 'Mechanical Design Engineer' in the subject line.