



## **Company Description**

We're on a mission to become the most impactful carbon technology company of this decade. Carbon Upcycling's patented technology reduces the carbon emissions of cement and concrete while improving the strength and durability. Our technology enables lower carbon, higher resilience concrete for the adaptable infrastructure we need in the 21st century.

Since 2014, Carbon Upcycling has scaled its ability to convert CO<sub>2</sub> emissions into value-add end materials over a million times and has since been confirmed as one of the top CO<sub>2</sub> utilization companies in the world as a winner of the X-Factor Award in the Carbon XPRIZE. We've also been named as a Solar Impulse Efficient Solution label recipient, a funding recipient of Fundación Repsol Entrepreneurs Fund, and a winner of the 2019 76West Clean Technology Competition.

At Carbon Upcycling, we're using the waste of today to build a better tomorrow. We have a vision of creating a world where carbon is a sustainable resource to shape the future of humanity. We are a team that values and embraces diversity in people and thoughts.

Learn more about our company, our low-carbon cement alternative, and our low-carbon plastics alternative [on our website](#).

## **Culture**

We have an incredible opportunity to make an impact on this earth. With a focus on innovation, we have been pushing the boundaries in some of the largest industries in the world. Carbon Upcycling team members lean into their curiosity and resourcefulness, move quickly, and are proactive problem solvers. We have fostered an ambitious team that has been able to scale our technology by over one million times in production capacity in the past five years. Through a company culture that is trusting and transparent, we have built a team of positive thinkers that are committed to achieving evidence-based impact. Applicants who are looking for a culture that is focused on continuous learning and new challenges will fit in well. We believe in diversity and inclusion. We believe in integrity. We believe in innovation. We believe in curiosity. We believe in accelerating change as a team of doers. Join us.



## **Job Title: Junior Mechanical Engineer**

Job Type: Full-time permanent

Department: Engineering

Location: On-site in Calgary

Role Overview: Mechanical engineering for new carbon capture and utilization machinery, reports to the Senior Mechanical Engineer

### **Responsibilities**

- **Engineering Responsibilities**
  - Creating and refining CAD models on existing and new technologies
  - Support mechanical engineering with tasks including designing and sizing equipment; coordinating with vendors on sub-assembly designs, project/task management, procedure writing, and minutes keeping at engineering team meetings
  - Contribute to vendor contact and selection; manage relationships with vendors
  - Participate in client site visits for assessment and design integration of CUT plant in client systems
  - Represent Carbon Upcycling in client facing discussions including managing technical discussions with clients
  - Assist with the procurement of materials and equipment
  - Identify operational and equipment design deficiencies and corrective action opportunities
  - Collaborate with the site operations manager to direct and suggest appropriate repairs and upgrades for pneumatic, hydraulic, rotating equipment systems
  - Collaborate with internal divisions to provide support and business development
  - Create, review and manage technical documentation
  - Participate in Factory Acceptance Testing
  
- **General Responsibilities**
  - Willingness to take calculated risks, own up to mistakes, and rebound from setbacks
  - Able to dive into technically challenging disciplines and rapidly become a subject matter expert
  - Key non-technical attributes we look for include self-awareness, ability to prioritize and delegate, and high performance in dynamically changing environments
  - Strong ability to create a project action plan, take charge and direct resources to realize technical implementations from inception to completion



### **Qualifications**

- Registered E.I.T. or P.Eng in Alberta in good standing, preferred
- Preference given to those with a mechanical/industrial engineering background with 3+ years of experience in an industrial/mining/cement manufacturing setting
- Preference given to those with hands-on mechanical experience/skills/interest
- Willingness to learn company systems and new technologies is essential
- Experience with exposure to one or more of the following areas is preferred:
  - Crushers & Grinding Mills
  - Solids Handling/Pneumatic material conveying systems
  - Pressurized fluids, vessels, piping systems
  - Rotating equipment such as large gearbox systems and bearings
  - Strong understanding of process instrumentation, basic electrical assemblies (motors, relays, overload protection, VFDs), and hydraulic fundamentals.

Willingness to travel: up to 25%

Language: English

### **Compensation**

- Salary competitive
- Benefits include extended health benefits, paid parental leave, bereavement time, paid vacation and sick leave, health and life insurance, stock options
- Extensive training and development opportunities

The right candidate for this role might not have every qualification listed in this job description. The right candidate might have skills that we haven't considered. If you think you'd make a great candidate for this position, please send us your resume and let us know why. We look forward to hearing from you!

### **Application Instructions**

To apply, please send a cover letter and resume to [careers@carbonupcycling.com](mailto:careers@carbonupcycling.com) and include the job title in the subject line.