



## 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: Intermediate Mechanical Engineer**

Job Type: Full-time permanent

Department: Mechanical Engineering

Location: Calgary

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

### **Responsibilities**

- Create and refine CAD (Inventor) models for new and existing equipment
- Support the lead mechanical engineer in various tasks, including plant design, vendor equipment customization, in-house manufactured equipment assembly designs, project management, and facilitating engineering team meetings.
- Participate in vendor engagement and selection; manage relationships with vendors
- Participate in client site visits for new project assessments and design integration
- Represent Carbon Upcycling in client facing discussions including managing technical discussions with clients
- Assist in performing field inspection and signoff of completed installation packages at client sites
- Prepare request for information and request for quotation packages
- Identify operational and equipment design deficiencies and corrective action opportunities in running equipment/plants
- Qualify external contractors, SMEs, and EPC organizations for current and future processing plants around the world
- Collaborate with the site operations manager to develop appropriate repair scopes and upgrades for the pneumatic, hydraulic, mechanical & rotating equipment
- Design and build research and development scale equipment for the R&D team
- Provide technical feedback to the Business Development team on new plant proposals
- Assist in quarterly budget updates and the planning of future equipment/programs
- Assist with the development of internal engineering best practices, and standards

### **Qualifications**

- Registered EIT or PEng in Alberta in good standing required or able to quickly obtain that status is acceptable
- AutoCAD Inventor or SolidWorks drafting experience required
- Mechanical/industrial engineering background with 4+ years of experience in an industrial/mining/cement/manufacturing setting with exposure to the following equipment:



- Crushers & Grinding Mills
- Solids Handling/Pneumatic/Conveying equipment
- Pressurized fluids, vessels, piping systems
- Rotating equipment fans, blowers, pumps, gearboxes
- Key non-technical attributes we look for include self-awareness, ability to prioritize and delegate, high performance in dynamically changing environments, and a willingness to take calculated risks, own up to mistakes, and rebound from setbacks
- Able to dive into technically challenging disciplines with an aptitude to learn quickly

Willingness to travel: up to 25%

Language: English

### **Compensation**

- Salary is industry competitive and commensurate with experience
- 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.