

Manager, Advanced Development

Based in the outdoor recreation hub of Squamish, BC, this is a management role for an Engineer who understands large industrial process development. Experience working in the chemical, electrochemical, or petrochemical process industry would be ideal. Reporting to the Chief Technology Officer, you will be spearheading development of game-changing processes and equipment to lower cost and improve performance of Direct Air Capture and CO₂ utilization technologies.

This is an opportunity to join a team focused on integrating atmospheric CO₂ into synthetic liquid fuels production and a great match for an individual who wants to be part of an innovative culture where your contributions are noticed.

Qualifications:

Education: PhD or MSc in Chemical or Mechanical Engineering, Physics, or Chemistry, plus substantial research experience

Experience: Minimum 7 years of relevant process development and characterization experience

- Demonstrated ability to bring innovations from concept to reality.
- Proven ability to conceptualize and develop new chemical processes and equipment, while also collaborating with technical teams to identify development opportunities.
- Documented application of benchtop/pilot scale equipment/processes for proof-of-concept characterization.
- Delivered and analyzed designed experiments that screen critical process variables and solve complex problems.
- Demonstrated transfer of new technologies from development to production.
- Experience preparing specifications for new equipment and processes.
- Concrete Capex and Opex cost estimation for new processes and equipment.
- Strong understanding of chemistry and chemical engineering concepts including mass transfer, heat transfer, thermodynamics, and kinetics.

In addition to technical skills, you also need to have these attributes to be the right fit:

- Proven leadership of process and equipment development teams.
- A self-starter with the ability to work independently towards multiple deadlines with minimum supervision in a fast-paced environment.
- Hands-on experience and comfort working in a development environment.
- Thrive on doing things that have not been done before (explorer mindset).
- Landed immigrant status or Canadian Citizenship is preferred but not required.

If this seems like the dream job for you, send your resume to careers@carbonengineering.com and quote "Manager, Advanced Development" in the subject line.