



Advanced Development Technician

At Carbon Engineering, our vision is to lead the world in the large-scale removal of carbon dioxide from the air and advance our shift to a sustainable carbon-neutral society. Based in the outdoor recreation hub of Squamish, BC, this role will be a great fit for someone who feels passionately about this vision, and who wants to be a part of a fast-paced culture where contributions are noticed.

Position Scope

As a member of the advanced development team you will be responsible for process and equipment development needed for new markets and broader commercial opportunities for CE's Direct Air Capture and Fuel Synthesis products. This is a hands-on position working with lab equipment to benchtop systems and collaborating with operations on pilot scale systems.

- Reports to the Director or Advanced Development.

Responsibilities

- Execute and document experiments in the lab for technology proof-of-concept, and benchtop equipment for system capability demonstration and characterization.
- Coordinate with the Operations team for extended runs and shared resources. Compile data and clearly document results.
- Execute or coordinate maintenance and upgrades to the lab, benchtop, and pilot plant equipment.
- Create and maintain operation, safety, and maintenance documents for lab and benchtop equipment.
- Train and certify new users on the operation of Advanced Development equipment.

Qualifications:

Education: B.Sc. in Chemistry, Physics or Chemical Engineering

Experience: 2-4 years of relevant process development and characterization experience

- Experience in research or industrial laboratory setting. Competence in standard analytical techniques and lab procedures.
- Experience with data acquisition/control systems and programming (LabVIEW preferred).
- Understanding of key chemical and physical processes including thermodynamics, kinetics, heat and mass transfer, and catalysis.
- Effective use of statistical analysis and design of experiments to solve complex problems. Familiar with the use of commercial software such as JMP, Minitab or SPSS.
- Gas chromatography and analytical experience would be an asset.

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

- 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).

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