



Advanced Development Technician

March 2019

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 for new markets and broader commercial opportunities for CE's DAC and AIR TO FUELS™ products. Collaborating with the Operations team on pilot scale systems, this is a hands-on position working with lab equipment and benchtop systems.

- Reports to the Director of Advanced Development.

Responsibilities

- Execute and document experiments in the lab and with benchtop equipment for proof-of-concept characterization and to screen critical process variables.
- Coordinate pilot plant runs with the Operations team 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 Chemical, Process, or Mechanical Engineering or equivalent technical field.

Experience: 1-5 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, reaction engineering, 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).
- Authorization to work for an employer in Canada.

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.