



Advanced Development - Senior Engineer / Scientist

May 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 next generation process and equipment development to enable new markets and broader commercial opportunities for CE's DAC and AIR TO FUELS™ products. Collaborating with academic and industry partners, this role will translate applied research into technology development at benchtop and pilot scales.

- Reports to the Director or Advanced Development.

Responsibilities

- Research and evaluate new technologies in development, creating and maintaining collaborative relationships with academic and industry partners.
- Test and compare new technologies through working with research labs to identify materials and researching questions to support testing.
- Present recommendations of new concepts and technologies backed with data and analytical reasoning to stakeholders.
- Stay current with competing and state of the art technologies from technical academic and patent literature, and vendors all in relevant subject matter areas.
- Lead feasibility analysis and development of prototype models of new technologies.
- Analyze experimental data to draw conclusions that support decision making and next steps within and across projects.
- Act as a subject matter expert across a range of technologies and experimental methodologies.
- Continuously contribute to the company's intellectual property portfolio and routinely track and document results in appropriate mediums.

Qualifications

Education: MSc or PhD. in Chemical or Materials Engineering, Chemistry, or Applied Physics.

Experience: 1-5 years of relevant development and characterization experience.

- Experience in research or industrial laboratory setting.
- 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.

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 “Adv Dev – Senior Engineer/Scientist” in the subject line.