

# Intermediate Simulation Specialist

Our **Stantec Sustainable Solutions** group specializes in the sustainable design and development processes unique to buildings. Working closely with our clients, our dedicated professionals help to establish and understand the specific needs of a range of building projects. This is where great ideas and rewarding careers are built. For both public and private sector clients, we provide unique high performance design capabilities covering each of the major engineering disciplines – structural, mechanical and electrical – along with specialist sustainable consulting and performance engineering teams. Focused on providing the most cost-effective, sustainable solutions to engineering challenges, we are involved in a diverse range of projects from the initial planning stages to design, construction, commissioning and ongoing building optimization. Our open structure, collaborate culture, and sustainable design ethos cultivates career growth and provides opportunities as unique as you are. With over 100 completed LEED projects and more than 300 in progress, our goal is to be the proven leader in sustainable consulting in North America.

## One Team. Infinite Opportunities.

Within the Buildings Engineering Practice Area, the Stantec Sustainable Solutions Team (S3) provides consulting services at all scales of the built environment and at every stage of the building life cycle based upon the principles and goals of sustainability and stewardship. The S3 service areas reflect the interconnected systems-based nature of sustainability and include LEED Consulting, Building Performance Simulation, Renewable Energy design, Strategic Sustainability Consulting and Climate Change services. This is where great people and great ideas truly make a difference.

Stantec's Calgary Office is currently seeking a qualified candidate to undertake an intermediate role as a simulation specialist. Reporting to the team leads of the Sustainable Solutions team, the purpose of this position is to provide direction and leadership in the execution of sustainability projects – specifically simulation projects. Our Building Performance Simulation staff guide projects toward the highest performance outcomes while staying within budgetary and scheduling constraints. We achieve this by providing input and feedback to the design team from the concept stage through to construction. Our involvement can extend into the operations phase through measurement and verification and facilitates a holistic systems perspective of the building and supports an integrated approach to design.

The candidate will provide energy simulation services related to buildings and community energy systems, for our clients and train junior staff. The qualified candidate will have considerable background in energy-efficient system design and simulation, daylighting, LEED rating systems, energy analysis studies, and energy management & incentive programs. A sound knowledge of HVAC and lighting systems, building control systems, energy conservation measures, greenhouse gas emission, building physics, and simulation programs is also expected. Exceptional communication skills, the ability to provide excellent client service and a commitment to sustainable design are essential for this position.

Responsibilities include but are not limited to:

- Support projects through services including energy and thermal modeling, LEED documentation, researching sustainable building design strategies, and writing reports
- Provide building performance modeling that analyzes energy and thermal performance of new and existing commercial, institutional, and residential buildings
- Supervise and mentor junior technologists and engineers in project execution
- Work with clients and design teams in an integrated design approach to identify appropriate design strategies geared towards improving energy performance, indoor air quality, and thermal comfort; provide ongoing analysis through design and construction

One Team. Infinite Solutions.



# Intermediate Simulation Specialist

- Prepare building analysis reports to present results of energy and thermal modeling, greenhouse gas emissions analysis, and research findings; prepare and deliver presentations to clients and/or design teams
- Prepare LEED documentation associated with energy modeling; assist with coordination of other LEED documentation as necessary

## Qualifications:

- Bachelor degree in Mechanical Engineering or related field is preferred.
- Minimum 5 years relevant experience such as building envelope and energy-efficient system design and simulation
- Experience with the following simulation software: IES <VE>, eQUEST, TRNSYS, EE4, DOE-2, and/or EnergyPlus; RETScreen, HAP, TRACE, and/or Hot2000 experience an asset
- Experience integrating BIM tools such as Revit with simulation tools such as IES
- Strong professional verbal and written communication skills -ability to communicate in a timely manner appropriate with clients and building design team members
- Understanding of LEED building rating systems required; LEED AP with specialization preferred
- Experience with thermal comfort analysis, CFD (for natural ventilation and displacement ventilation), daylight simulation, life-cycle cost analysis, and/or existing building auditing preferred
- P.Eng. or eligibility for APEGGA membership is strongly preferred

Qualified candidates who are highly motivated and eager to commit to Stantec's strategic initiative to become a Top 10 global design firm should submit their resume and cover letter, online at [www.stantec.com/careers](http://www.stantec.com/careers).

*Committed to the principles of Employment Equity, we thank all candidates; however, only those selected for an interview will be contacted.*