

# Building Envelope Scientist

## about us

f-BLOK architecture is a Winnipeg-based studio specializing in architecture and interior design. We're a collective of curious minds united by a passion for the built environment, with a focus on place-making that's inclusive, meaningful, and deeply respectful of context.

We're seeking a **Building Envelope Scientist** to lead envelope-first design strategies across retrofit and new-build projects. This role is deeply embedded in the architectural process—driving performance through detailing, material selection, and integration with building form and systems. You'll lead projects, collaborate with design teams, and push the boundaries of envelope innovation with a focus on durability, thermal resilience, and low-carbon design.

Perks? We've got those.

All full-time team members enjoy comprehensive benefits, including health and wellness spending accounts. Plus, everyone is eligible to participate in f-BLOK's profit-sharing plan—because great work should be rewarded.

Across the board, we value highly collaborative people - people who work with an open mind, who can deconstruct problems on the fly, who will simultaneously be inventive, iterative, and have the fortitude to see the idea through in an efficient way. Fundamentally, we look for teammates who embody f-BLOK's Core Purpose and Organizational Values and who will push us to grow and be better for it.

f-BLOK recognizes the importance of Indigenous perspectives in shaping inclusive and meaningful spaces. We are committed to reconciliation and to fostering a workplace that values diverse voices and lived experiences. Indigenous candidates are strongly encouraged to apply and to bring their unique perspectives to our team.

## how to apply

Interested applicants are encouraged to forward their cover letter, resume, and portfolio, in confidence, to [info@f-BLOK.ca](mailto:info@f-BLOK.ca) prior to the closing date of Dec 15, 2025. Only candidates selected for an interview will be contacted. We thank all applicants for their interest in f-BLOK architecture inc.

To hear more about us check out our [website](#).

# Building Envelope Scientist

## about the position

- Lead projects, including envelope design, on retrofit and new-build projects, acting as Project Lead and building performance quality assurance.
- Develop and execute firm-wide building envelope performance strategies and processes to elevate the work of the firm.
- Conduct site assessments of existing building envelopes, report on existing conditions and proposed remedies and life cycle costing.
- Advise on software and technology investments that support building envelope resilience.
- Develop envelope details that eliminate thermal bridging and manage moisture through ventilated rainscreens and vapor-open membranes. Model envelope performance using THERM, Ubaqus, and embodied carbon analysis tools.
- Integrate envelope strategies with architectural massing, siting, and passive solar design.
- Collaborate with mechanical and electrical teams to align envelope performance with system sizing and thermal zoning.
- Guide building massing, siting, and passive design and envelope-first strategies that reduce operational loads, combat climate change, and improve resilience.
- Lead business development and proposal writing related to building out the firm's Resilient Building Enclosures offering.
- Mentor team members and contribute to firm-wide envelope detailing standards and QA processes.
- Salary Range of \$70-95K, to be negotiated.

## qualifications

- 5+ years of experience in building science, architecture, or envelope consulting, with project leadership experience.
- Expertise in thermal performance, moisture management, and low-carbon envelope design.
- Proficient in THERM and hygrothermal modeling tools; familiar with TEDI and airtightness targets.
- Strong detailing skills and ability to integrate envelope performance into architectural design.
- Experience with retrofit strategies, rainscreen systems, and vapor control in cold climates.
- Skilled in embodied carbon analysis and material selection for low-impact assemblies.
- Comfortable leading projects, managing scope and schedule, and coordinating with multidisciplinary teams.
- Familiar with Passive House design strategies and detailing.
- Ability to operate and detail effectively in BIM.
- Excellent communication skills, with experience in site reviews and proposal development.
- Highly organized, self-directed, and collaborative, with a passion for advancing envelope innovation..
- You are comfortable with minimal direction and are self-directed.

# Our Core Purpose

f-BLOK was founded with the ambition of improving the practice architecture, by:

1. Advocating for collaborative construction contracts that build trust and create respectful relationships.
2. Building partnerships –beyond f-BLOK–bringing outside perspective our work, collectively working to create positive change in the world.
3. Designing a sustainable and successful firm that is a platform for both personal and corporate growth.

# Organizational Values

Our organizational values were generated by our team in 2021. They are intentionally spoken in the first person. We hold each other accountable to these values (stated below), and when needed, remind each other of these commitments.

I ask questions to learn and listen to understand.

I begin with trust, and provide an unguarded approach.

I uncover purpose, and forge intentional solutions.

I value input and advocate for differing perspectives.

I adapt my role for the success of the team.

I take initiative, and work through challenges.



f-BLOK Organizational Values; Commissioned artwork by Artist Jordan Stranger / Tootem Doodem