

Technologist – Building Envelope

March 2024

Adjeleian Allen Rubeli Limited (AAR) is a highly respected building engineering firm and has led the Ottawa market since its inception in 1955. AAR provides a comprehensive range of services in all areas of building structural and building science engineering for both new and existing structures in the National Capital Region, and Greater Toronto Area along with other areas of Canada including Northern Canada and Eastern Canada. The Ottawa office counts nearly 40 staff, providing a close-knit group with a large experience and knowledge pool. AAR offers a welcoming and constructive team atmosphere, focused on our five corporate values: Fairness, Trust, Adaptability, Ownership and Transparency.

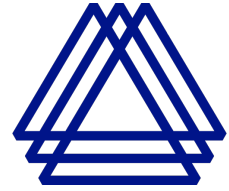
The Position

As a Building Envelope Technologist, you will be responsible for supporting the Building Envelope Team at AAR. The position reports to the Building Envelope Team Leader and you will work closely with several engineers within the firm. As a Building Envelope Technologist, you'll play a crucial role in ensuring the durability, performance, and sustainability of building exteriors and assemblies. You'll work closely with architects, contractors, and other engineering teams to optimize building designs and materials, enhancing the overall building performance, and prevent unwanted material and assembly failures.

The Technologist will be expected to work from the office and on construction sites. AAR provides a flexible work environment with remote work capacity for all staff. The Technologist would be expected to work in the Ottawa office a minimum of 2 days per week on average, depending on work priorities and assigned tasks.

As a Building Envelope Technologist, you will participate and assist in a variety of engineering functions related to building engineering. Work will be completed in close collaboration with engineers and within a team of peers. Tasks include:

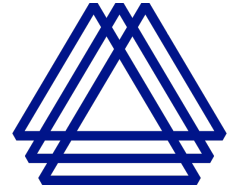
- Review of project objectives and participate in project initiation with Project Team.
- Prepare condition assessment reports, and present findings to Project Team / Clients.
- Participate in the preparation of construction documents, including drawings and specifications.
- Review of work under construction and issue field review reports;
- Review of contractor shop drawings, requests for information (RFIs), and related administrative tasks such as entry logs;
- Issuing construction documents such as site instructions or change notices in collaboration with the design team;
- Communication with Contractors to schedule site reviews, monitor progress of site works, and address site conditions and/or deficiencies.



- Communication with Client, Contractors, and other Consultants to help manage project advancement. Work may include AAR leading a project as Prime Consultant or providing support as Sub-Consultant to another firm acting as Prime.
- Building condition assessments and surveys. Gather information from existing drawings, site surveys, exploratory openings, prepare reports including detailed analyses and recommendations.
- Forensic investigations into cladding, roofing, and waterproofing material, and system failures. Diagnose problems and failures within the assemblies and provide clear and concise recommended repair options.
- Design and assist in the preparation of detailed drawings, sketches, specifications, and scopes of work for rehabilitation and repair projects for cladding, roofing, and waterproofing assemblies.
- Provide full-service project management services for building cladding restoration and repair projects.
- Provide onsite quality assurance field reviews to ensure that the installation of building envelope components aligns with the approved designs and specifications, maintaining high-quality standards throughout the construction process.
- Perform contract administration on rehabilitation projects including maintaining detailed records of design changes, specifications, test results, and project progress. Prepare comprehensive reports and presentations for stakeholders as required.
- Performance Testing and Evaluation, including various tests, such as air and water infiltration tests, to assess the performance of the building envelope and recommend improvements based on results.
- Work closely with building owners and property managers to act as a technical advisor, providing guidance and recommendations regarding building envelope design, materials, and performance.
- Perform infrared thermographic hygrothermal analysis of building claddings and envelopes to determine areas of heat loss, moisture ingress, or other deficiencies within the cladding assemblies.

This position requires;

- Diploma in Civil Engineering Technology or similar (Architectural Engineering, Building Science).
- 2-5 years of experience working within an engineering consulting firm. Experience in the construction industry (in any capacity) will be considered an asset.
- Highly adaptable and flexible personality, able to balance competing priorities and to deliver expected results on time. Our working environment is supportive but highly dynamic with changing priorities and exposure to varying project types and engineering problems;
- Strong communication skills, written and verbal. Able to clearly communicate with colleagues, collaborators and client/stakeholders.
 - The ability to communicate in French is an asset but not a requirement of the position.
- Good interpersonal skills.
- Knowledge of Microsoft 365 programs (Outlook, Word and Excel) and PDF (portable document format) markup programs such as Bluebeam or Foxit
- Ability to complete work autonomously as well as within a supportive team;
- High problem solving capacity;
- Professional ethical approach and demeanor;



- Access to a vehicle for site visits and meetings is required. Related expenses such as mileage and parking will be reimbursed by the firm;
- The successful candidate must apply for security clearance (reliability level) upon commencement of the term. We will provide support and cover related costs. This will be further discussed once the work term begins.

Start date: Negotiable, asap.

AAR offers the following general compensation package for the above role:

- Yearly salary between \$55,000 - \$75,000 depending on experience level and skill set.
- Vacation credit of 10 days per year, or 15 days per year for an individual with more than 3 years of comparable experience.
- Group insurance coverage for medical, dental, life insurance and long and short-term disability. Membership commences after 3 months of full-time employment. Individual costs for each plan member are shared equally by the employee and the firm.
- Group pension plan membership is offered after 3 months of full-time employment. The firm contributes an amount equal to the employee member's contribution to the plan up to 5%.

AAR is an employee-owned company. In addition to the above, shares may be offered to staff, based on years of service, level of work quality and effort.

AAR encourages all staff to continue learning. Financial support is made available for our staff to obtain Continued Education Credits (or similar) or other targeted training that will enhance the employee's skill set and meet PEO requirements.

AAR encourages all staff to enjoy social activities with their colleagues. In addition to yearly staff BBQ and Christmas parties, several social activities are organized for staff to enjoy. In 2023 this has included a HOPE volleyball team, participation to pub trivia night, staff lunches, team BBQs, Holiday party, hosting of a multi-firm softball tournament, a board game night, and more!

How to apply: send your resumé to careersottawa@aar.ca