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## STRUCTURAL/BUILDING SCIENCE ENGINEERING CO-OP

### Job Opportunity: Victoria, BC

We are inviting applications to join our class leading engineering firm in the position of **Structural/Building Science Engineering Co-Op**. Projects are a diverse mix of evaluation, design and field work with a focus on building with new construction technologies. Committed to enabling team members to reach their career aspirations and beyond, we promise a positive culture of partnering, intrigue, mentorship, and respect.

This position is slated to begin in the September 2024 semester and is available as a 4, 8 or 12 month placement. In application cover letter please state placement term availability.

As a Structural/Building Science Engineering Co-Op you will be supporting our work with construction industry clients, helping to bring new innovation structural products to the construction market in a full cycle consulting process that begins with research and testing, preparing engineered technical design guides, obtaining regulatory approvals, to eventual building project designs and construction. Technical focus is primarily on structural aspects of buildings with some cross-over in to building science and fire protection.

### Job Description

- Design and evaluation of building products such as exterior components and cladding, foundation, framing, with wood, concrete, steel and composite materials.
- Publishing code evaluation compliance reports and engineering design technical guides.
- Creating and maintaining CAD drawings of building component assemblies.
- Quality Control activities such as writing work procedures, checklists, file organization, project lists, renewals of evaluation reports and certifications.
- Researching code requirements and preparing evaluation plans.
- Witnessing laboratory testing of component assemblies such as structural, wind/rain and structure-fire.
- Analysis of test data, pre-engineered design of construction details, component performance modeling for use in future building project designs.
- Some support to our structural building design projects team may be assigned, if as needed in company schedule, which would consist of:
  - o Construction-site visits to verify design specifications, completing checklists and writing reports.
  - o Structural calculations evaluating strength and deflection of components such as beams, columns, connections, shear walls, diaphragms, foundations.
  - o Preparing structural drawings in CAD software and by hand drafting.
- Occasional travel to job sites across Vancouver Island and Vancouver mainland.



## Qualifications

- Bachelor of Engineering degree student in Civil-Structural or Mechanical discipline with demonstrated focus in Structural and Building Sciences academia.
- Working knowledge of Canadian and USA building codes and materials design standards.
- Hands-on work experience in a construction-related setting with structural materials and tools (e.g. labour and trades work, landscaping, fabrication shop).
- Software experience using AUTO CAD, MS Word, MS Excel, Blue Beam, Adobe Pro.
- Exceptional report formatting and persuasive writing style.
- Valid B.C. driver's license. (please indicate if possessing a personal vehicle available for business use, mileage is reimbursed)

## Company Overview

BOCA Engineering Co. SPAR is a structural engineering company headquartered in Victoria, BC, serving the Vancouver-Island based construction industry and consulting on building with new innovation construction methods across Canada and USA. BOCA-SPAR provides services that include structural building designs for new construction and renovation, product code evaluations, laboratory testing programs, remediation assessments/solutions, and specialty (non-building) structure designs.

## Culture, Career, and Benefits

BOCA's Engineering Co-Op position is a stepping stone which may lead to full-time EIT employment after graduation. We believe in developing leaders from the ground up, starting with hands-on technical operations, leading to project and client management, and then guided growth to the aspired seniority level. EIT members are able to rotate through several roles in their interest areas, keeping work fresh and exciting while expanding skills and knowledge.

## Applying

If you are an Engineering Co-op who would like to join [BOCA Engineering](#) please apply by email with resume and job-specific cover letter to [info@bocaengineering.com](mailto:info@bocaengineering.com) with title of ENGINEERING CO-OP, – <YOUR NAME>. *Please indicate your availability (of 4, 8, or 12 months co-op terms) in the letter.*