



### Posting/Job Description

**Title:** Residential Energy Modeller

**Department:** Energy Modelling Services, Building Knowledge Canada Inc.

**Reports to:** Manager of Energy Modelling Services

**Date:** October 2021

**Apply By:** Emailing you cover letter and resume to [janice@buildingknowledge.ca](mailto:janice@buildingknowledge.ca)

**Start Date:** November 2021

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#### Role Summary:

The Energy Modeller is primarily responsible for supporting the Energy Modelling Service team and the departments' day to day service and tasks.

#### This individual will also focus on:

- Enhancing BKC legendary client /builder care and industry reputation for being helpful, easy to work with and engaged in the home building industry
- Maximizing BKC internal operations efficiency and skills, client satisfaction and team member engagement
- Building on and ensuring the continuity of an environment of collaboration, engagement, learning, kindness, positivity and respect
- Committing to BKC to make the complex world of high-performance homes simple, clear and applicable for builders and industry stakeholders

#### Role Responsibilities:

1. At the direction of an EMS mentor and or department Manager a trainee will work towards understanding Energy Modelling Services day to day tasks in accordance with the Building Knowledge Canadas company standards and conventions.
  - EMS Modelling tasks include:
    - Takeoff calculations for Volume and Surface Area
    - Generation of Hot2000 Energy Modelling Simulation for the purpose of:
      - SB12 Performance Path
      - EnerGuide for New Homes
      - Net Zero/ Net Zero Ready
  - Performance Energy Modelling and Optimizations using BKC principles
  - Performance Home Labeling Submissions (Reviewing inspection and updating Energy Model for label submission)
  - Generation of BKC Widgets such as:
    - Optimization Spreadsheets
    - Project Profiles

- Internal database organization and data entry for systems such as:
  - Asana Project Management Software
  - BKC Energy Database
  - BKC Customer Database
- 2. Ensure clear and helpful energy modelling support and consultative services to clients which:
  - Are based on sound building science principals
  - Reflect a keen understanding of the residential construction industry and related challenges
- 3. Maintain the BKC technical understanding and advantage
- 4. Contribute to Building Knowledge's core vision to help improve the energy efficiency, indoor air quality, construction quality and sustainability of new and existing homes and buildings
- 5. Work closely with the manager of EMS to coordinate defined or specific projects undertaken by the Builder Services and Energy Modelling Services divisions of BKC.
- 6. Perform day to day energy modelling duties:
  - Building science principals application, research (information gathering and synthesizing) and regular client support & communication.
  - Performance Energy Modelling and Optimizations using BKC principles
  - Performance Home Labeling Submissions (Reviewing inspection and updating Energy Model for label submission)
  - Takeoffs (Volume/Surface area calculations for plan sets)
- 7. Update project tracking tools and ensure the department works seamlessly with all other BKC departments
- 8. Ensure kind, healthy and communicative working environment is maintained with immediate EMS team and ALL other BKC team members.
- 9. Assist BKC field technical team members in regards to inspections and delivery of EnerGuide (New and Existing homes), ENERGY STAR for New Homes, LEED, R-2000 and CHBA Net Zero program delivery.
- 10. Represent BKC at numerous levels, including builders, architects, contractors, homebuilding associations, product manufacturers and utilities.

### **Education, Experience and Skill Requirements:**

#### **Education:**

1. Post-secondary degree or technical college diploma
2. Architecture Construction Engineering Technology program - CET designation
3. BSc - Building Science. Environmental. Sustainability.

#### **Experience and Skills - Highly Beneficial:**

1. EnerGuide - Registered Energy Advisor (REA) with Natural Resources Canada
  - Qualified REA for New Homes, MURB & Energy Star
2. Excellent knowledge of Ontario and National energy codes and best practices for houses and small buildings - Part 9 (e.g., NBC, OBC), understanding of green building standards and sustainability certifications, especially as it relates to Part 9 residential new construction

3. Excellent working knowledge of House-As-A system thinking and building science related concepts
4. CHBA Qualified NZ REA
5. HRAI – RASDT qualification
6. Ontario BCIN designation
7. Detail oriented with ability to prioritize
8. Proficient with Hot2000, AutoCAD, Revit, Excel
9. Excellent time management skills with the ability to set priorities and multi-task
10. Experience working within the residential construction industry

**Internal/External Contacts:**

- Builders
- City Officials
- Building Knowledge Leadership and Employee Teams

**Working Hours:**

Monday to Friday – Regular Business Hours (37.5 hours/week) with after-hours availability when required

**Travel Requirements:**

May be required to attend local conferences or courses