



DESIGN ENGINEER

JOB TITLE: Design Engineer
DEPARTMENT: Design
SUPERVISOR: Sales/Design & Admin Manager
JOB TYPE: Full Time
LOCATION: 24 Haniak Rd, Rosslyn – ON
PAY RANGE: TBD

Smart Modular Canada is a modular buildings manufacturer. From micro homes to hotels, we build to last. We are a fast-growing energetic company building quality homes and buildings for all Northern Ontario and beyond. Our philosophy is one of a family atmosphere with great people to work with. We offer a climate-controlled experience when working within the factory, with competitive wages, a benefit plan, and a retirement program. Here skilled craftspeople have a regular schedule, are not dependent on weather conditions, and do not have the headaches associated with repair/emergency work. Come build your future with us!

GENERAL JOB DESCRIPTION

Design Engineer will be responsible for providing engineering design, analysis, and technical support for modular residential and light-commercial buildings. This role is ideal for a professional who can bridge design engineering along with mechanical systems design and structural integrity considerations while working as part of the design team, this role ensures that all elements meet applicable codes and standards, while supporting efficient, buildable, and cost-effective modular designs. This role works closely with production, project management, and site teams to deliver efficient, buildable, and code-compliant modular solutions. The Design Engineer also contributes to the preparation of accurate bills of materials and assists in developing standard construction details and systems.

DUTIES AND RESPONSIBILITIES

- Create detailed architectural drawings, plans, and blueprints using Building Information Modeling (BIM) software.
- Produce accurate 2D and 3D drawings, calculations, and specifications, including elevations, sections, and details for modular building designs.
- Interpret architectural, mechanical, plumbing, and electrical sketches, specifications, and technical documentation into precise drawings.
- Incorporate design changes and updates into existing drawings as needed.
- Review and revise drawings to correct errors and maintain consistency.
- Maintain organized and up-to-date drawing files and documentation.
- Prepare and review structural designs, drawings, and calculations for modular buildings.
- Collaborate with architectural technologists, modular designer, project managers, and production teams to develop practical and efficient design solutions.
- Review shop drawings and production details to ensure structural integrity and compliance.
- Develop and maintain accurate bills of materials (BOMs) to support design and production.
- Coordinate with external consultants and engineering partners as required.
- Optimize designs for manufacturing efficiency, transportation and site installation.



- Participate in continuous improvement of modular building systems, connection details, and engineering processes.
- Ensure that drawings and designs adhere to Ontario and Canadian building codes, industry standards, and regulations.
- Provide technical support during manufacturing and installation phases.
- Conduct site inspections and troubleshoot mechanical/structural integration issues.
- Other duties as assigned.

QUALIFICATIONS FOR THE JOB

Education:

- Bachelor's degree in Engineering (Civil, Structural, Mechanical, or related discipline.)
- Professional Engineer (P. Eng) designation or eligibility in Ontario or EIT registration (or eligibility) with a Canadian engineering association.

Experience:

- 3+ years of experience in building systems design and structural coordination for residential or light-commercial construction, preferably wood-frame or modular.
- Proficiency in Building Information Modeling software (e.g. Revit), structural analysis software and related tools.

KEY COMPETENCIES

- Experience in modular or prefabricated construction.
- Knowledge of sustainable building practices and energy-efficient systems.
- Ability to manage multiple projects and work in a fast-paced environment.
- Strong analytical and technical skills.
- Attention to detail and accuracy in design documentation.
- Strong understanding of Ontario Building Code and CSA standards.
- Excellent problem-solving, communication, and teamwork skills.
- Collaborative approach to working with multidisciplinary teams.
- Ability to balance design precision with practical construction considerations.
- Adaptable and solution-oriented mindset.
- Competent under the Ontario Health and Safety Act.
- Strong communication and leadership skills.

To apply please submit your resume to careers@smartmod.ca or see our posting on Indeed.

Due to the number of applications received, only those selected for an interview will be contacted.

Thank you for your interest in Smart Modular Canada.