

**Vacancy: Design Engineer / Technologist. (Mechanical / Building Science)
December 2016**

This position is a challenge, and we are looking for that one candidate who can rise to it. The position is rigorous in its expectations, and equally rewarding for those who can achieve and prosper.

Scope of work

Projects to be involved with would include; Building Services, Mechanical Design (Plumbing, HVAC), Electrical / Emergency (building services), Life Safety, and regulatory investigation. The type of work is highly varied, and non-repetitive.

Areas of practice include, Residential, Commercial and Industrial Buildings; Ontario Building Code Compliance, Fire Code Compliance and Pre-Start Safety Reviews (Industrial). Clients vary from large multi-national corporations, to one owner private buildings / projects.

Responsibilities

- Work with the principal engineer at the company (Waterloo Alumni Mech '98), in support of the project requirements.
- Investigate project design requirements, research code / design aspects, apply requirements to a design, for review by the principal.
- Provide calculations and design summaries for HVAC, Plumbing, Electrical, Life Safety, and Building related works, as required.
- Prepare CAD plans and specifications for the project, typically for a permit application and/or for construction.
- Provide field reporting for ongoing construction works, and report on findings relative to the construction plans.
- Communications with clients from initial project investigation to project completion.
- Coordinate with Municipalities regarding regulatory and permit works.
- Responsibilities may increase with a competent candidate, as one's proficiency grows.
- Will be working with the Principal (P.Eng), and other Designers / EITs.

Required Skills

- Functional in all MS Office suite software.
- Well versed in building design works using AutoCAD 2D.
- Past experience in reading and understanding codes / regulations applicable to a project. Specifically the OBC and ASHRAE standards.
- Experience in heat loss / gain calculations, energy calculations, duct sizing, pipe sizing, plumbing systems and specifications of mechanical equipment.
- Must have the ability to write specifications, field reports, client letters and project reporting.
- Ability to investigate project information and gather data that is absent / unclear, as related to a project deliverable.
- Ability to work from verbal instructions for project deliverable.
- Have good mental retention of materials that are read, and be able to apply that knowledge long after first instance of reading / instruction.
- Must be able to work on numerous projects within a work week.

Required Experience

- At least 4 years full time experience in the building industry post-graduation (not including co-ops), in building design.
- Those candidates with a track record on-going education, are favoured.

Career Development and Training

- Individual must either have their P.Eng, or be working towards their PEO / CET license, and engage in the EIT / internship program.
- BCIN registration (Ministry of Municipal Affairs & Housing) is required to be completed by the candidate. MMAH course manual completion and application of that knowledge is a minimum once at the position.
- Self-training for technical skills related to the position is a must.
- Materials for self-learning will be made available.
- ASHRAE training is highly encouraged.
- Annual professional training is encouraged (portions of training are funded).
- The opportunity to grow in your applied knowledge and career development.

Transportation

- You are responsible for your transportation to work each day.
- Parking is available at the office.
- A vehicle is required for site inspection / review works. Candidate must have their own independent transportation.

Other Job Details

Looking for an active individual, who can work within a varied work environment. You will not be doing the same thing each week. Project demands are varied and the individual must be able to adapt to the changing needs, from client to client and project to project.

This is an ideal position for a person who is able to learn fast, apply that knowledge, and be ready to learn and grow again the next day.