

Vacancy: Intermediate Engineer P.Eng (Mechanical / Building Science)

November 2024

Become part of a dedicated team, that works on complete projects from design concept to construction / commissioning to project closeout. Project tasks are direct with the client and the design & construction team where you get to see your works come to life. Direct mentorship in your career path, with a hands-on training program and the ability to develop junior staff as part of the team. Take pride in your works and see your efforts materialize, as you will be involved in the entire project cycle. Company equity options may be available for senior staff to earn into, for those seeking ownership share potential.

Scope of work

Projects to be involved with would include; Building Services, Mechanical Design (Plumbing, HVAC, Process), Flammable/Combustible Liquids & Combustible Dusts, Electrical / Emergency (building code building services with ASHRAE electrical & power), vapour Electrical Hazard Area Classification (EHAC), Life Safety, and regulatory investigation.

The work is highly varied and non-repetitive.

Clients vary from large multi-national corporations, to one owner private buildings / projects.

Responsibilities

- Support design projects with the client and the internal design team.
- Participate in the design project deliverables and design costs.
- Participate in project estimating, quoting, and design job financials.
- Work with the other designers, EITs, Engineers, in support of the project requirements.
- Investigate project design requirements, code / design aspects, and apply requirements to a design.
- Complete independently ventilation (ASHRAE 62.1 / ACGIH / NFPA), heat / loss gain calculations, HVAC duct design & equipment selection, plumbing design, building energy works, electrical hazard area classification (EHAC), and hazardous materials design/code analysis.
- BCIN signing of documents is required within the first year.
- Prepare plans and specifications for the project, typically for a permit application and/or for construction.
- Provide field reporting and general reviews for ongoing construction works.
- Communications with clients from initial project investigation to project completion.
- Coordinate with Municipalities regarding regulatory and permit works.
- Communicate and work with the Designers / EITs, Engineers and all stakeholders involved in the projects.

Required Skills

- Awareness and experience in applying codes / regulations applicable to a project. Specifically; OBC, OFC, ASHRAE 55 / 62.1 / 90.1, NPFA (30, 40, 55, 58, 80, 91, 96, 652, 654, 497, 499, and others) standards, CSA B149.#. Past course work in these areas is an asset.
- Experience in heat loss / gain calculations, energy calculations, duct sizing, pipe sizing, plumbing systems and specifications of building mechanical equipment.
- Authoring specifications, calculations, drawings, field reports, letters and project reporting.
- Engage in numerous projects within a work week and manage multiple priorities.
- Be a self-learner.
- Be able to complete assigned tasks within stipulated assigned timeframes and per client schedules.
- English communication at the Canadian University level both verbal and written is a must. IELTS score of 9 is required for non-English native speakers.
- Functional in all MS Office suite software.
- Well versed in overall building design works and be proficient using AutoCAD 2D.
- Proficient in industry mechanical loading, sizing, and modelling software. Functional use of BlueBeam Revu.

Required Experience

- At least 6 years full time experience in the Ontario building industry post-graduation, in building design having completed calculations, HVAC / Plumbing / Building Services plans and specifications previously in Ontario. Minimum of 2 years of experience following P.Eng licencing.
- Must be registered with PEO in Ontario.
- Must have on-going education credits / courses in the building industry. Specifically; ASHRAE, NFPA, CSA and OBC training. Project management training completed previously is an asset.
- Those candidates with a track record of on-going education exceeding the PEO PEAK program, are favoured.

Career Development and Training

- Lead by example. BCIN registration with a category of qualification (Ministry of Municipal Affairs & Housing) is required to be completed by the candidate within the first several months. MMAH course manual completion and application of that knowledge is a minimum once at the position, on the employees' time if the BCIN registrations are not already earned by the candidate at the time of hire.
- 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.
- Company equity options may be available for senior staff to earn into, for those seeking ownership share potential. Details apply.
- Company bonus plan is available.

Transportation

- You are responsible for your transportation to/from work each day.
- Parking is available at the office, without fee.
- A vehicle is required for site inspection / review works. Candidate must have their own independent transportation.
- Travel for work/project purposes is reimbursed.

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 again the next day. Take pride in your works, from the start to the client hand-over.

Apply to:
careers@weekesengineering.com