



### **ENGINEER-IN-TRAINING (EIT) POSITIONS**

**Ionic Engineering Ltd., operating as Ionic Mechatronics, is currently seeking an entry level Engineering Graduate in the fields of Mechanical Engineering, Electrical Engineering or Mechatronics Engineering.**

We are a unique Northern Ontario company that designs and supplies purpose-built automated industrial machinery. Our projects are fast-paced, novel, unique and challenging. Our facility consists of an office area with an attached assembly and integration shop. We offer competitive wages and benefits.

#### **Soft Skills:**

- Ideal candidate is team-oriented, flexible, a self-starter, independent, diligent and practical
- Well versed with MS Office suite and general computer skills
- Ability to write technical documents such as specifications and instruction manuals
- Ability to communicate concisely and work under minimal supervision
- Fluency in English
- Ability to speak another language is an asset (i.e. French, Spanish, Mandarin, etc.)

#### **Qualifications/Experience:**

- Canadian citizen or permanent resident, holding at least a 4-year degree in mechanical engineering, electrical engineering, or mechatronics engineering programs accredited by the Canadian Engineering Accreditation Board (CEAB)
- Familiarity or Proficiency with Solidworks is preferred (alternatively Autocad, Inventor, SolidEdge or other similar professional parametric software packages) for Mechanical / Mechatronics graduates
- Familiarity or Proficiency with industrial programming platform software is preferred (i.e. Rockwell, Schneider, Siemens, SCADA, and other industrial software) for Electrical / Mechatronics graduates
- Knowledge of GD&T is required
- Have practical knowledge of commonly available fabrication materials
- Have practical knowledge of common mechanical hardware
- Have practical knowledge of common industrial electrical and control components
- Knowledge of different types of actuators
- Familiarity with pneumatic/hydraulic designs and schematics
- Prior engineering or industrial experience with design of purpose-built machinery is a great asset
- Experience in automated manufacturing would be an asset
- Experience with instrumentation would be an asset
- Experience with fabrication and machine shop equipment would be an asset



**Typical Job description:**

- Work with Professional Engineers and technologists to develop machine designs and automation systems from concept to shop detail and customer sites.
- Source and specify machine and system components
- Produce 3D models and 2D drawings sufficiently detailed for fabrication, primarily using Solidworks (for Mechanical and Mechatronics) and Autocad Electrical (for Electrical and Mechatronics), but on occasion using Autocad or Microstation
- Write simulation program and modelling for various applications
- Write code and programs to control industrial machines, robotic systems, and other instruments
- Provide technical support for shop during assembly of equipment as required
- Provide on-site commissioning assistance during installation and start-up
- Occasional travel to various customer sites regionally, nationwide, or internationally
- Produce basic technical documents such as scope of work, technical specification, instruction manuals etc.
- Participate in new product development exercises and support various business entities