

**MCC Toronto**

**Electrical Engineer**

**(Customized HVAC)**

**EDUCATION:**

* Minimum bachelor’s degree or equivalent in Electrical Engineering
* HVAC experience preferred.

**SALARY:**

* $65,000 – 100,000 per year

**REQUIRED KNOWLEDGE:**

* Minimum 3 years’ experience in electrical design, prototyping, and testing of electronic products.
* 3 or more years of electrical development experience in automotive, off road, transit, rail electrical systems or HVAC.
* Hands-on experience in system development such as prototyping.
* Must have proven experience with design of electrical systems for harsh operating environments.
* Must have good leadership skills and able to work in a fast-paced environment.
* Must have experience with control system development.
* Extensive knowledge of electrical/electronic systems and basic knowledge of mechanical systems.
* Thorough knowledge of 12v, 24v, 48v, 320 and 800 VDC and low voltage AC (120, 220, 400, 460, 575 VAC etc.) components and associated wiring for mobile applications.
* Knowledge of electrical AC/DC motors, switches, blowers, fans, heating elements, contactors, wire/cable requirements, circuit protection, and control electronics.
* Must have proven experience designing to and complying with CE, E mark and SAE standards. Must make sure that all products comply with these standards for the destination market.
* Proficient in Autocad or other CAD packages for drafting of electrical schematics.
* Experience in 3D wire harness design.
* Experience in electrical/electronic troubleshooting.
* Must be able to work independently.
* Self-starter and must be able to identify the next sequential task.

**PREFERRED EXPERIENCE:**

* Able to read/interpret government specs.
* Exposure to Military or other government projects.
* Familiarity with material and resource planning.
* Knowledge and understanding of power electronics components.
* Experience with and/or understanding of AC variable frequency drives.

**BRIEF JOB DESCRIPTION:**

* Design electrical, power management and control systems for HVAC products.
* Produce detailed electrical schematics and wiring harness drawings, documentation, verification and test plans specific to customer and project requirements.
* Liaison and periodic travel to end customers
* Will liaison with vendors for technical information and specifications.
* Assign part and drawing numbers and create BOM’s.
* Identify electrical/electronic components, connectors and wiring required to be used in new and existing products.
* Assist in fabrication of prototypes testing and samples for production when required.
* Participate in preparation of bid/proposal documents.
* Product qualification testing
* Occasion travel.

Position available immediately.

To apply, please email Nancy Barrett at nancy.barrett@mcc-hvac.com

Mobile Climate Control encourages applications from all qualified candidates. Please contact Nancy Barrett at nancy.barrett@mcc-hvac.com or 1-905-482-2750 ext. 1266 or Cell: +1+647-405-6651 if you need accommodation at any stage of the application process or want more information on our accommodation policies.