



## **Embedded Software Developer** for Mine Ventilation Automation -

Accutron Instruments Inc. - *Sudbury, ON, Canada.*

Accutron Instruments Inc., established in 1995, is an aggressive growing company in Sudbury Ontario. We are a high-tech company specializing in design and manufacture of advanced sensors and instrumentation that are changing the future of underground mine ventilation. We are building a strong technical team that pride themselves on a job well done.

Current projects include furthering the development of our line of toxic gas sensors, a new generation of web-enabled ultrasonic airflow meters, as well as sensors for environmental monitoring.

The Candidate will also participate in research into new types of electronic sensors that could be used in new Accutron products, as well as design prototypes to test new ideas. Embedded code is a major component of Accutron products, and you will be working with some of the most advanced development tools in use today.

Research and development is an important part of what we do at Accutron and we are always looking for talented people to join our team. If you enjoy working with the latest hardware/software technologies and wish to bring your ideas to life, you will enjoy a career at Accutron instruments Inc.

### **Responsibilities**

- Develop, debug, and maintain embedded software in a repository-based environment.
- Contribute to product planning, and design.
- Hardware development and debugging
- System level development and debugging
- Product Documentation and test procedure development
-

## The Ideal Candidate will have

- Strong understanding of digital design concepts (logic gates, truth tables, etc...).
- Analog experience a plus.
- Hands On experience using oscilloscopes, logic analyzers and Digital Multi-Meters.
- Knowledge of printed circuit board design and ability to solder parts and wire and trace problems.
- experience with "bare metal" implementation of SPI, I2S, UART, Ethernet, and Timers programming.
- Familiarity with STM32 family of microcontrollers, a plus.
- experience with ucLinux (micro-controller Linux).
- experience with resource-constrained embedded systems.
- experience with C++ and strong knowledge of O-O concepts.  
experience with gcc, g++, gdb, Makefile.
- experience with RTOS/threaded async. applications.
- experience with TCP/IP socket-level programming.
- Understanding of WebSockets, Web Canvas a plus.
- 
- Experience with Rowley CrossWorks IDE,or Atollic IDE a plus.
- Knowledge of industrial protocols in automation systems is advantageous (Such as RTU, Modbus, Ethernet, SQL, Profibus , etc.)

## APPLY BY

E-mail: [careers@accutroninstruments.com](mailto:careers@accutroninstruments.com)

Website: <http://accutroninstruments.com/>

## About The Company

At **Accutron Instruments Inc.** we design, manufacture and commission a wide range of mining sensors to meet the demands of harsh industrial environmental conditions and infrastructure demand. Our products include airflow monitors, toxic gas detectors, temperature, pressure and humidity level sensors and complete Mine Air Quality Stations (MAQS).

We are committed to the continuous development of top-quality instrumentation for process automation solutions. We are driven by the work we do, creating global impact in the mining industry that leads to market advantages for our customers and a strong successful future for our company.

Accutron Instruments Inc. is a leading manufacturer of underground mine ventilation & automation technology founded in 1995. We are based in Sudbury, Ontario, Canada. We supply worldwide industrial markets with products and services for ventilation monitoring, process automation and optimization of mine ventilation systems to improve process efficiency and energy conservation.