



## Intermediate C/C++ Industrial Automation Software Developer

**Job Type and Location:** Full-time; Halton Hills, Ontario

### About Intlvac:

Intlvac Thin Film ([www.intlvacthinfilm.ca](http://www.intlvacthinfilm.ca)) develops tools and processes for many applications (including nanotechnology, optics, imaging, and aerospace) for customers around the globe. Intlvac is a world leader with a team that includes top scientific researchers, software developers, mechanical and electrical engineers.

The automation team is responsible for control integration, automation logic and sequencing, and the user interface software employed by operators and process engineers to develop and run processes.

Our current and near-future automation technologies include:

- C/C++ on embedded Linux for control sequencing and device communication (serial/Ethernet)
- IEC 61131-3 structured text on PLC for control sequencing and device communication
- Ladder language on PLC for physical I/O and fast I/O logic
- LabVIEW on Windows PC for user interface
- React on multiple platforms for user interface
- OPC-UA on multiple platforms for communication between software modules

### Responsibilities:

- Work with customer representatives and Intlvac sales, engineering, and process specialists to establish requirements for automation.
- Integrate and test control of system components (pumps, gauges, valves, power supplies, etc).
- Create automation sequences and safety interlocks according to requirements.
- Develop user interfaces for each tool according to requirements.
- Develop device communication drivers as needed for new hardware.
- Support installation personnel and resolve automation issues experienced by customers.

### Minimum qualifications:

- Experience in developing C/C++ projects
- Experience in robotics or similar software/hardware integration
- Basic electronics knowledge

### Valuable qualifications:

- Experience with OPC-UA SDKs
- Experience in PLC programming with Ladder Language and/or Structured Text
- Experience in developing LabVIEW applications
- Experience with high vacuum systems and processes

### How to Apply:

Interested applicants are asked to forward their cover letter and resume to: [intlvacjobs@intlvac.com](mailto:intlvacjobs@intlvac.com). Only applications submitted directly to this email will be considered for the position.