

Software Engineer

POSITION SUMMARY	
Title	Software Engineer
Division	R&D
Location	Montreal or Vancouver, Canada
Industry	Electronic Test and Measurement Equipment
Employment Type	Full-Time
Experience	Middle to Senior Level

COMPANY OVERVIEW

Founded in 2012, **Introspect Technology** designs and manufactures innovative test and measurement equipment for high-speed digital applications. Whether it is the next augmented reality headset or the level-4 autonomy engine in a mobility solution, our award-winning tools are used to develop, test, and manufacture next-generation products. In short, we help the leading global technology companies **make tomorrow's technology today's possibility**.

WHY INTROSPECT

DRIVE TOMORROW'S TECHNOLOGY

At Introspect, we're solving the most difficult problems encountered in electrical engineering with a passionate team that is inventing the world's most innovative test instruments. You will have the opportunity to create state-of-the-art test and measurement equipment — tools which will empower engineers to produce their finest work. You'll not only make a meaningful difference in our customers' careers, but you'll also impact the lives of people around the world with work that propels global innovation forward.

COLLABORATE WITH DRIVEN COLLEAGUES

You will work with a team of diverse and intelligent colleagues as well as with customers at the top technology companies in the world. At Introspect, you'll gain a rich, multi-disciplinary experience with colleagues and mentors committed to helping you learn and achieve your career goals.

PURSUE YOUR PASSIONS

We'll provide the support you need to do what you love and help you pursue a career which aligns with your values, passions, and aspirations. We also offer a competitive employee benefits package that

includes medical and dental coverage. Join us to achieve your maximum potential, produce the best work of your career, and deliver meaningful value to customers.

JOB DESCRIPTION

As the company is entering new markets and expanding its portfolio of products, Introspect Technology is seeking an experienced Software Engineer to join our R&D team in Montreal or Vancouver. As a Software Engineer, you will participate in maintaining Introspect's Pinetree software, a development and scripting environment aimed to help test engineers around the world to validate their high-speed electronics designs.

This position offers a unique opportunity to work at a rapidly growing global company and to serve leading edge technologies such as MIPI, PCI Express, DisplayPort, USB, DDR, and next-generation telecommunications standards. It also offers the possibility to obtain multi-disciplinary experience in embedded systems, register-transfer languages (RTL), signal validation, and more.

The ideal candidate is a driven, self-motivated, and highly cooperative top performer who thrives in a flexible engineering environment.

RESPONSIBILITIES

- Design and maintain Python software to drive multiple variants of our physical products
- Create application-specific data analysis routines
- Translate low-level digital specifications (DisplayPort, DDR5 memory, PCIe, etc.) into easy-to-use, high-level software suites
- Document usage models and options for the developed software
- Implement software optimizations to improve user experience

QUALIFICATIONS

- Bachelor's or Master's degree in computer engineering or a related field
- Minimum of 3 years of pertinent experience in software development
- Strong experience with object-oriented programming
- Experience in one or more of the following topics:
 - Python3
 - Desktop GUI frameworks (.NET, QT, wxWidgets, etc)
 - C / C++
 - Digital signal processing
 - Software performance profiling and optimization
 - Electronics technical specifications (HDMI, DisplayPort, USB, DDR memory, etc.)



APPLICATION PROCESS

Please email your resume to careers@introspect.ca with the subject line "AD-F009E-E-24228 - Software Engineer". Applications will be considered on a rolling basis.