Software Engineer

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

COMPANY OVERVIEW

Founded in 2012 through self-funding, **Introspect Technology** designs and manufactures innovative test and measurement equipment for high-speed digital applications. Whether it is the next smartphone 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.

As a Software Engineer, you will lead the architecture, design, and implementation of components within our award-winning software. The Introspect ESP Software is a development and scripting tool used for validating leading edge high-speed interface technologies. The candidate will develop, execute, and document highly sophisticated algorithms primarily using the Python programming language, and will contribute to User Experience design whether through GUI development or scripting tool development.

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, USB, and 100G/400G telecommunications standards. It also offers the opportunity to explore highly sophisticated numerical methods, classification technologies, and various digital signal processing and filtering techniques. Successful candidates in this position will benefit from a great deal of flexibility in work style and work deliverables.

The ideal candidate is a driven, self-motivated, and highly cooperative top performer who thrives in a flexible engineering environment. The ideal candidate also possesses characters of good judgment, communication, and eagerness to learn and adapt, and he/she is very helpful to his/her peers.

RESPONSIBILITIES

- Architect and design Python component classes for multiple variants of our products and with specific attention to behavioral interdependencies
- Document usage models and options for the developed algorithms
- Optimize our application software for maximum speed and for most efficient use of memory resources
- Define and enhance User Experience design at all levels of the Introspect ESP software (from GUI design down to DLL and hardware driver selection as well as installation facilities)
- Maintain and extend existing libraries and applications
- Contribute to product collateral especially with regards to software and hardware release notes
- Contribute to the definition of the appropriate test strategy for the generated algorithms and prepare detailed test requirements

QUALIFICATIONS

- Bachelor's or Master's degree in computer science or a related field
- Minimum of 5 years of pertinent experience in software development
- Deep knowledge of the Python programming language (2 years minimum);

- Experience with .NET, C#, C++, and Visual Basic is highly desired
- Experience with JSON, JavaScript, HTML5, is highly desired
- Demonstrated creativity in Python class design and distribution
- Experience with Agile development methods
- Meticulousness combined with excellent organizational skills to achieve quality, cost and delivery objectives
- Rigor: possesses a strong sense of organization, detailed execution in order to achieve quality, cost and delay objectives

APPLICATION PROCESS

Please email your resume to careers@introspect.ca with the subject line "AD-F009E-E-19219 -Software Engineer". **Applications will be considered on a rolling basis.**