Applications Engineer

POSITION SUMMARY	
Title	Applications Engineer
Division	Product Engineering
Location	Montreal, Canada
Industry	Electronic Test and Measurement Equipment
Employment Type	Full-Time
Experience	Middle 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 **Applications Engineer** to join the product engineering team in Montreal.

As an Applications Engineer, you will join a select group of highly skilled professionals, and you will be responsible for the integration of our equipment into our Tier-1 customers' SerDes test environments worldwide. You will also assist in the development and debug of automated test programs for such environments, and you will become an indispensable technical expert in the area of high-speed test and measurement. Possessing exceptional communications and public speaking skills, you will deliver training courses and demonstrations to mixed-signal and high-speed digital product engineers, and you will constantly interact with customers who are at the forefront of high-speed and mixed-signal technology.

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, GPON, as well as other telecom interfaces. It also offers a highly rewarding opportunity to participate in our customer success stories related to their new SerDes-based product introductions. Additionally, successful candidates have the potential to become technological spokespeople, representing Introspect's innovative solutions at major industry events.

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

- Act as the technical representative for the customer, providing prompt technical support on opportunities or issues raised by customers or sales and marketing representatives
- Provide intimate knowledge of Introspect's tools to our user base, and liaise with Introspect's R&D team on unique customer requirements and/or opportunities
- Develop and debug custom test procedures based on the Python programming language
- Define and architect SerDes and signal-integrity test solutions, clearly indicating how the solutions result in various functionality that is required by the customer applications
- Create and document test Methods of Implementation for modern high-speed standards such as MIPI, PCI Express, USB, GPON, XAUI/CAUI, and so on with particular emphasis on signal integrity measurement and optimization techniques
- Contribute to product collateral review of all products (datasheet/errata/etc.)
- Provide training and guidance as needed on products and roadmap strategies to sales representatives in support of generating new business

- Define the appropriate test strategy for a unit under test and prepare detailed test requirements

QUALIFICATIONS

- Minimum Bachelor's degree in electrical engineering, computer science, or related field
- Minimum 5 years of experience in the design, test, characterization, or debug of mixed-signal electronics systems
- Experience in high-speed SerDes characterization and signal integrity is required
- Demonstrated problem solving and troubleshooting skills
- Experience in dealing with customer support channels
- Knowledge of high-speed instrumentation used in the advanced test applications (oscilloscopes, waveform generators, network analyzers)
- 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
- Only self-motivated and highly cooperative top performers will be considered for this position

APPLICATION PROCESS

Please email your resume to careers@introspect.ca with the subject line "AD-F008E-E-18079 - Applications Engineer". **Applications will be considered on a rolling basis.**