

High-Speed Analog Characterization Engineer

POSITION SUMMARY	
Title	High-Speed Analog Characterization Engineer
Division	R&D
Location	Montreal and Vancouver, Canada
Industry	Electronic Test and Measurement Equipment
Employment Type	Full-Time
Experience	Middle 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 **High-Speed Analog Characterization Engineer** to join the R&D team in Montreal or Vancouver.

As the High-Speed Analog Characterization Engineer, you will be responsible for designing, building, and maintaining complete electrical characterization benches for our high-speed test and measurement products. The selected candidate will be responsible for the electrical and signal integrity validation of Introspect Technology's leading-edge measurement and optimization tools. They will build hardware and software infrastructure for integrating and validating our tools, and they will create detailed characterization reports, all while relying on the latest analysis and test instruments in the industry.

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, HDMI, DDR, and 100G/400G telecommunications standards. The position also offers the opportunity to gain a rich, multi-disciplinary system engineering experience.

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

- Design and build a complete electrical characterization bench for ultra high-speed analog interfaces
- Report on and analyze multi-variable characterization data to a cross-functional design and development team
- Contribute to the definition of appropriate production test strategies and QA procedures
- Contribute to the process of continuously improving hardware products through engineering change orders, product re-spins, and fundamental product re-designs

QUALIFICATIONS

- Bachelor's, Master's, or PhD. in electrical engineering or an equivalent degree
- Minimum 5 years of experience for Bachelor's candidates
- Deep understanding of high-speed analog circuits
- Deep understanding of signal integrity and transmission line theory
- Experience with state-of-the-art test and measurement equipment such as high-bandwidth oscilloscopes, network analyzers, and time-domain reflectometers

- Demonstrated problem solving and troubleshooting skills, and demonstrated creativity in characterization test development
- 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-F014E-E-24228 - Analog Characterization Engineer". **Applications will be considered on a rolling basis.**