

Position Summary

Title	High-Speed Analog Characterization Engineer
Team	R&D
Location	Montreal
Employment Type	Permanent

Job Description

As part of Introspect Technology's R&D team, the High-Speed Analog Characterization Engineer 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, 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