

PCB Designer

POSITION SUMMARY	
Title	PCB Designer
Division	R&D
Location	Montreal, Canada
Industry	Electronic Test and Measurement Equipment
Employment Type	Full-Time
Experience	Intermediate 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 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

Introspect Technology is seeking an outstanding **PCB Designer** to join the core R&D team in Montreal and to contribute to the development of advanced test and measurement hardware.

As a PCB Designer, you will be part of the hardware team, and you will be immersed in all aspects of PCB design, from schematic and symbol creation, all the way to PCB layout and design for manufacturing. You will be pushing the boundaries of integration and performance, creating PCBs based on a variety of materials, operating frequencies, and constructions. As such, you will be a central constituent of a cross-functional team consisting of analog designers, digital designers, system engineers, and characterization engineers.

This position offers a unique opportunity to be on the forefront of high-speed hardware technology and to explore advanced solutions for highly complex mixed-signal and mixed-domain systems. The position also offers the opportunity to serve leading edge technologies such as MIPI, PCI Express, USB, HDMI, and 400G/800G telecommunications standards.

The ideal candidate is a driven, self-motivated, and highly cooperative top performer who thrives in a flexible continuous-improvement environment. The ideal candidate also possesses characters of good judgment, great communication, and effective leadership. He/she is very helpful to his/her peers.

RESPONSIBILITIES

- Using CAD tools such as OrCad, Allegro, and Altium, create component symbols, schematics, and board layout files
- Define and manage placement and routing constraints for high-end PCB designs
- Route high-speed traces for a variety of signal types including digital, low-noise analog, RF, and high-speed digital
- Place and route high-current power regulators and power management ICs
- Perform power integrity analysis and design power distribution networks for multiple high-current, low-voltage applications
- Design and optimize decoupling solutions for the power distribution networks
- Design and optimize board stackups based on product performance and cost requirements
- Sustain the company's component libraries and approved parts lists
- Contribute to the creation of final board outputs for fabrication and assembly (including the creation of bills of materials)
- Contribute to the bring-up of fabricated boards and assemblies

QUALIFICATIONS

- Relevant technical degree
- At least 2 years of experience in high-speed PCB design
- Experience with UL, IPC, JEDEC compliance requirements
- Experience with contracting and managing PCB fabrication suppliers
- Experience with contracting and managing assembly suppliers
- Familiarity with mechanical and thermal design concepts
- Excellent verbal and written communication skills
- Ability to work on a multi-disciplinary team with multiple designers participating in a single project

APPLICATION PROCESS

Please email your resume to careers@introspect.ca with the subject line "AD-F022-E-21356 – PCB Designer". **Applications will be considered on a rolling basis.**