

FPGA Designer

POSITION SUMMARY	
Title	FPGA Designer
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 and dynamic **FPGA Designer** to join our outstanding R&D team in Montreal.

As a member of our world-class team of ASIC and transceiver-based FPGA specialists, you will be actively involved in architecture definition, system design specification, development, verification and support of ASIC, FPGA and system-on-a-chip (SoC) semiconductor products that are integrated into Introspect's equipment.

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 digital design techniques and advanced discrete-time signal processing and filtering technologies. Designs developed by successful candidates will be used to enable communications systems, machine-learning platforms, data-center accelerators, as well as low-power mobile solutions.

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

- Implementation and documentation of highly sophisticated SerDes-based FPGA designs at the RTL level and embedded software level
- Development and documentation of system-on-chip IP cores for internal or external use
- Development and documentation of test benches, verification flows, and functional models
- Key contribution to system, board and FPGA design and implementation
- Analysis of customer requirements and proposal of architectural solutions
- Key contribution to our design process and methodology
- Participation in the debug, performance verification, maintenance and documentation processes

QUALIFICATIONS

- Minimum of 5 years of experience in FPGA or ASIC design with emphasis on SerDes technology
- Minimum Bachelor's degree in electrical engineering or equivalent; a Master's degree is highly desired
- Hardware design experience (Verilog and System Verilog)
- Advanced knowledge of ASIC and FPGA design flows; strong digital debug insights

- Experience with high-end FPGA tools targeting Intel, Xilinx, and Lattice
- Advanced knowledge in timing analysis and leading-edge synthesis tools
- 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 time 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-F010E-E-18079 - FPGA Designer". **Applications will be considered on a rolling basis.**