

## FPGA Designer

POSITION SUMMARY	
<b>Title</b>	FPGA Designer
<b>Division</b>	R&D
<b>Location</b>	Montreal, Canada
<b>Industry</b>	Electronic Test and Measurement Equipment
<b>Employment Type</b>	Full-Time
<b>Experience</b>	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](mailto:careers@introspect.ca) with the subject line "AD-F010E-E-18079 - FPGA Designer". **Applications will be considered on a rolling basis.**