

Xerox Research Centre of Canada (*Mississauga*)
Postdoctoral Fellow: Electronics Design Engineering
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As Canada's leading materials research centre, the Xerox Research Centre of Canada is home to a world-class team of scientists and engineers with broad expertise in materials chemistry, formulation design, prototyping, testing, and chemical process engineering. We deliver real-world solutions for Xerox and external customers in areas including electronic materials, sustainable materials, chemical processes, coatings, security and authentication, and novel technologies for the printing, electronics, and manufacturing industries.

Purpose:

Xerox Research Centre of Canada (XRCC) is seeking a Postdoctoral Fellow with a computer engineering and/or electrical engineering background to be a key member of our team and help drive our growing effort in creating state-of-the-art devices derived from advanced materials and manufacturing techniques. You will join a world class team of scientists and engineers and have access to state-of-the-art infrastructure housed at XRCC and with our partners. You will be the bridge from the software/hardware domain to electronics fabrication using printing (or related techniques). Your challenge is to enable device innovation as part of our internal research program and in support of our customers.

Main Responsibilities:

- Design electronic components and integrate prototype devices for new applications, including integrating hybrid electronic devices incorporating traditional and custom printed electronic components developed on site
- Maintain an in-depth knowledge of the state-of-the-art for his/her domain expertise, and keep abreast of technology and market trends relevant to the project(s)
- Develop technical solutions to complex problems that require the regular use of ingenuity, creativity and sound business judgement
- Analyze and present findings at internal and external meetings, responsible for project documentation including, for example, internal reports, invention disclosures, journal articles, etc.
- Translate new/existing scientific knowledge into enabling technologies/platforms; performs analytical, experimental and modeling work to solve business problems in a timely manner

Education Requirements:

Education Level

Ph.D.

Additional Details (*Discipline, other educational qualifications*)

Area of computer engineering and/or electrical engineering or closely related discipline with an interest in device design integration

Years of Experience:

within five (5) years of PhD graduation

Skills, Knowledge and Abilities:

- Circuit design and modeling
- Software development skills: VHDL/VERILOG, C/C++, Python, Perl
- Specifying and designing hardware component for new prototypes
- An understanding of printed and flexible electronic devices and systems
- Experienced in integrating electronic components building devices
- Experience with problem solving, working with teams, and on projects
- Knowledgeable in the latest technology trends and techniques in electronics design, especially flexible electronics
- Demonstrated strategic thinking capability
- Strong project management and leadership potential
- Excellent verbal and written communication skills, demonstrated ability to work as part of an interdisciplinary cross-functional team
- Comfortable explaining complex concepts to non-experts
- Analytical and systematic in approaching scientific challenges

Xerox is actively committed to building a diversified workforce. If you are looking for an opportunity that offers you a challenge in a research and development environment, please email your resume to: XRCC.Resumes@xerox.com