

Name:			
Email address:		Tel No.:	
Degree sought:		M.Eng.	Ph.D.

FUNDING

Would you like to be considered for financial support?		Yes
		No
If financial support is not available, would you like to be considered for admission without financial support?		Yes
		No

AREA OF RESEARCH

Listed below are the ten areas of research in the Department of Electrical and Computer Engineering. In accordance with your on-line application form, please again indicate your 1st and 2nd choice of research group. If you wish, you may indicate which sub-areas of your two choices interest you most. If you check none of the sub-areas, we will assume that you are equally interested in all sub-areas. Visit www.mcgill.ca/ece/research for details and lists of professors associated with each research area.

BIO-ELECTRICAL ENGINEERING			
	CMOS sensor microsystems		Brain/Body machine interfaces
	MEMS and microfluidics		Systems neurosciences
Preferred supervisor(s):			

COMPUTATIONAL ELECTROMAGNETICS			
	Computational methods in microwave		
	Computational methods in power-frequency electromagnetic		
	Intelligent design methods		
Preferred supervisor(s):			

INTEGRATED CIRCUITS AND SYSTEMS			
	Analog, digital, mixed-signal, microwave/RF integrated circuits; integrated microsystems and MEMS		
	Computer Aided Design for analog and digital microsystems		
	Embedded systems, reconfigurable computing and FPGAs/signal processing hardware		
	Mixed signal testing and design for testability/manufacturability (DFT/DFM)		
	Signal integrity, electromagnetic compatibility packaging and antennas in integrated systems		
Preferred supervisor(s):			

INTELLIGENT SYSTEMS			
	Computer vision		Medical image processing
	Human computer interaction		Robotics
Preferred supervisor(s):			

NANO-ELECTRONIC DEVICES AND MATERIALS			
	Nanoscale optoelectronics		Carbon electronics
	Semiconductors and devices		Organic nano material and devices
	Integrated and flexible piezoelectric/ultrasonic devices		
Preferred supervisor(s):			

PHOTONIC SYSTEMS			
	Nonlinear optics		Photonic sensing and monitoring
	Photonic integrated circuits, nano-photonics, opto-electronics and fiber components		
	Fiber optics communications, transmission systems and networks		
	Optical data/computer devices and communications		
Preferred supervisor(s):			

POWER ENGINEERING			
	High power electronics		Distributed generation
	Power system operations and planning		
Preferred supervisor(s):			

SOFTWARE ENGINEERING			
	Requirements engineering		Concern-driven development
	Mining software repositories		Release engineering
Preferred supervisor(s):			

SYSTEMS AND CONTROL			
	Robust control systems		Stochastic and adaptive systems
	Discrete-event, hybrid and hierarchical control		
	Industrial, manufacturing, aerospace and robotic control		
	Nonlinear systems, nonholonomic control and optimal control		
Preferred supervisor(s):			

TELECOMMUNICATIONS AND SIGNAL PROCESSING			
	Communication systems		Digital signal processing
	Network engineering		
Preferred supervisor(s):			

APPLICANT PROFILE

In the following, describe your personal profile in the space allocated. This information will be used to assess your application for admission and to consider recommendations for funding and awards. Provide enough information to help the committee appreciate your achievements.

Research Experience and Interests: *Please comment on why you would like to pursue graduate studies, with a clear identified objective. Further, please clarify if you have a particular research interest, possibly in the context of past experience and accomplishments.*

Research Area and Preferred Supervisor: *For the specified research area(s) of interest, please briefly but clearly comment on your choice. Further, if you have specified a supervisor(s), please state why he or she would be your preferred mentor.*

Academic Profile: *Describe your academic profile, highlighting particular achievements and relevant scholarships or awards.*

Additional Information: *Describe any other relevant information, including, for example, teaching experience, leadership positions, special circumstances, etc.*