Carleton UNIVERSITY | Faculty of Graduate and Postdoctoral Affairs

GRADUATE PROGRAMS IN

ELECTRICAL AND COMPUTER ENGINEERING

carleton.ca/ece

"Small classes and accessible professors."

SHAPE YOUR FUTURE

Carleton is recognized as a world leader in Electrical and Computer Engineering (ECE), including computer systems engineering, electronics, software engineering, telecommunications, and many other fields in ECE.

Our graduate ECE programs are offered jointly by the Department of Systems and Computer Engineering and the Department of Electronics at Carleton, and in conjunction with the University of Ottawa via the Ottawa-Carleton Institute for Electrical and Computer Engineering (OCIECE). This combination of the resources in three departments at two universities allows our students access to the largest selection of courses in ECE at any Canadian University.

We offer three ECE programs:

- MASc in Electrical and Computer Engineering, which requires the completion of a research thesis
- MEng in Electrical and Computer Engineering, which is coursework-only or coursework and a project
- PhD in Electrical and Computer Engineering

You may also be interested in our MASc in Biomedical Engineering, which has four areas of study: Medical Instrumentation, Biomedical Image Processing, Biomechanics and Biomaterials, and Medical Informatics and Telemedicine.

RESEARCH HIGHLIGHTS

Our renowned researchers work in areas such as computing, electrical engineering, engineering systems and analysis, interactive multimedia systems, software engineering, speech/signal/image processing and telecommunications, machine learning, nanotechnology, quantum/optical computing, sensor nets, robotics and artificial intelligence, biomedical engineering, and many others. Students may find themselves building circuits and interfacing microcontrollers, designing central processing units, programming AI systems, designing telecommunications protocols, etc. For detailed information about our research areas, visit our departmental websites.

CAPITAL ADVANTAGE

Carleton offers modern, well-equipped laboratories with state-of-the-art equipment and excellent computer facilities. The university's location in the national capital allows for proximity to and collaboration with relevant government departments, the National Research Council, Communications Research Centre, high-tech industries, and access to resources and faculty at the University of Ottawa via the OCIECE. Your proximity to these facilities ensures that your potential career is just around the corner.

Carleton UNIVERSITY

Canada's Capital University

ADMISSION REQUIREMENTS

MASc and MEng in ECE: a bachelor's degree with at least B+ or higher in electrical engineering or a related discipline.

Master's in Biomedical Engineering: a four-year bachelor's degree in engineering, science, computer science, or a related discipline, with an average of at least B+.

PhD in ECE: a master's degree with a thesis in electrical engineering, computer science, software engineering, or a closely-related discipline from a recognized university. Your master's thesis topic must be in an appropriate area and of acceptable quality.

Specific program requirements can be found in the Graduate Calendar online at: **calendar.carleton.ca/grad**.

Department of Systems and Computer Engineering
4456 Mackenzie Building
1125 Colonel By Drive
Ottawa, Ontario, Canada K1S 5B6

613-520-2600, ext. 1511
gradinfo@sce.carleton.ca
www.sce.carleton.ca

Department of Electronics
5170 Mackenzie Building
1125 Colonel By Drive
Ottawa, Ontario, Canada K1S 5B6

613-520-5754
info@doe.carleton.ca
www.doe.carleton.ca

REQUIRED DOCUMENTS

You need to provide the following documents:

- Two letters of reference (MEng, MASc); three references (PhD)
- A one-page Statement of Intent
- A copy of transcripts from all post-secondary institutions you have attended.
- If applicable, a copy of your English-language test results

Note: Official documents (transcripts, test scores) will be required if you are accepted into our program.

APPLICATION & DEADLINES

For more information about our program(s), please visit our departmental websites: **doe.carleton.ca** and **sce.carleton.ca**.

Details about how to apply are available here: **graduate.carleton.ca/apply-online**.

You can access an online application at this website: **graduate.carleton.ca/applynow**.

All fall applicants must submit their completed application by **March 1**. Applicants who apply after that time may be considered for funding, if funding and spaces are still available.

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youtube.com/GradsAtCarleton

LANGUAGE REQUIREMENTS

For admission into Carleton's graduate programs, you will need to demonstrate that your knowledge and use of English are strong enough for graduate studies at an English-language university. For a listing of our minimum English-language requirements, please visit our website at: **graduate.carleton.ca/international**.

FINANCIAL ASSISTANCE

Generous funding is available in the form of teaching/research assistantships and scholarships based on academic excellence. We encourage students to compete for scholarships such as the Ontario Graduate Scholarship (OGS), Natural Sciences and Engineering Research Council (NSERC) and the Canadian Institutes of Health Research (CIHR) Scholarships, as appropriate to their research. For additional information on scholarships visit: **graduate.carleton.ca/financial-assistance**.

"Carleton's ECE programs provide a myriad of possibilities for students looking to explore cutting-edge engineering design and analysis. Friendly and approachable, the professors strive to instill a visceral, long-lasting understanding that is required for success in today's dynamic marketplace."

— Laurence Smith, PhD/11
Energy Trader, Capital Power

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