



**Carleton
University**

Department of Mechanical
and Aerospace Engineering

Contract Instructor Teaching Opportunities Fall 2026 and Winter 2027

Department of Electronics

Pursuant to Article 16.3 of the CUPE 4600 Unit 2 Collective Agreement, subject to Article 16.2 and 16.4 through 16.7, applications are invited from members of the CUPE 4600 bargaining unit and other interested persons to teach the following courses in the Fall 2026 and Winter 2027 terms.

***Candidates should have excellent communication and presentation skills; strong teaching skills established through successful teaching of engineering courses in an accredited Canadian university engineering program; and a high level of up-to-date expertise in the subject of the course, established through industrial experience and/or research in academia or government labs. Candidates must have a degree in a relevant field of engineering. A P.Eng. license in Canada is required for the instruction of most undergraduate courses.**

Carleton University is committed to employment equity and fostering a culture of inclusion. We encourage applications from individuals who would contribute to the diversity of our campus, including women, visible minorities, First Nations, Inuit, and Métis peoples, persons with disabilities, and persons of any sexual orientation or gender identity and expression.

Posting Date: May 1st, 2026

Application Deadline: June 1st, 2026

Application Page: <https://carleton.ca/deputyprovost/contract-instructor-application-faculty-of-engineering-and-design/>

Posting Type (Regular/Late): Regular

Contract Instructor Salaries for Fall 2026 and Winter 2027 courses:

- Half Credit Course: \$9,255
- Full Credit Course: \$18,508

Academic Term	Course Code	Course Title	Course Description	Course Credit Value	Anticipated Modality	Anticipated Course Enrolment	Anticipated TA Support	Required qualifications
Winter 2027	SREE 3003	Sustainable & Renewable Electricity Generation	Power system structures; photovoltaic cell: model, current-voltage curves, maximum power point tracking, grid connection; grid connection of wind generator; DC-AC and AC-DC converter simulation and analysis; energy storage classification; battery: equivalent circuit model, charging and discharging; renewable generation; feed-in tariff program.	.5	In-Person	30	1TA's@130hrs.	*See above Job Posting ends June 1st
Fall 2026	ELEC 4601	Microprocessor Systems	Interfacing aspects in microprocessor systems. Microprocessors and bus structures, internal architecture, instruction set and pin functions. Memory interfacing, input-output, interrupts, direct memory accesses, special processors and multiprocessor systems.	.5	In-Person	134	4 TA's @130hrs	*See above Job Posting ends June 1st
Fall 2026	ELEC 2501	Circuits & Signals	Properties of signals. Basic circuits elements: voltage and current sources. Kirchhoff's laws, linearity, superposition. Thevenin and Norton's theorems. Circuit Simplifications. AC steady-state analysis: impedance, admittance, phasors, frequency response. Transient response of RL and RC circuits: form of response, initial and final conditions. RLC circuits: resonance	.5	In-Person	240	6 TA@130hrs.	*See above Job Posting ends June 1st
Fall 2026	ELEC 3508	Power Electronics	Power semiconductor devices: Thyristor, GTO, IGBT, SiC, GaN. Converter circuits: controlled AC to DC rectifiers, choppers, DC to AC inverters, AC voltage controllers. Protection of conversion circuits. Applications to high-efficiency control of electric machines and electromechanical energy conversion devices.	.5	In-Person	30	1 TA @130 hrs	*See above Job Posting ends June 1st

Winter 2027	ELEC 2602	Electric Machines and Power	Modeling and analysis of basic electric power systems. Single-phase and three-phase circuits: real and reactive power, per-phase analysis, power factor correction. Electro-mechanical energy conversion: operation, characteristics and analysis of transformers, DC-, induction-, and synchronous electric machines. Motor and generator operations	.5	In-Person	150	4 TA's@ 130hrs	*See above Job Posting ends June 1st
Winter 2027	EGEN 5305	Power Systems	Introduction to power system and their transient states. Power system voltage stability; PV and QV cure methods. Power system angular stability; transient stability and equal area criterion; steady-state stability and power system stabilizer. Electromagnetic transients in power systems, insulation coordination and equipment protection.	.5	In-Person	5-10	No TA	*See above Job Posting ends June 25th
Fall 2026	EGEN 5307	Control Systems and Robotics	Fundamental aspects of modeling and control of robot manipulators as devices that involve electronics and mechanics (kinematics and dynamics), electronic actuators, information theory, automation. Principles of proximity, tactile, and force sensing. Programming platforms and languages. Automation strategies.	.5	In-Person	5-10	No TA	*See above Job Posting ends June 25th

For more information, please contact Lisa Chiarelli - lisachiarelli@cunet.carleton.ca

Applications, in the form of a single PDF including a cover letter and CV, should be sent by June 1st 2026 to:

<https://carleton.ca/deputyprovost/contract-instructor-application-faculty-of-engineering-and-design/>

To the Attention of Dr. Leonard MacEachern, Chair, Electronics Engineering

A note to all applicants: As per Articles 16.3 and 16.4 in the CUPE 4600-2 Collective Agreement, the posted vacancies listed above are first offered to applicants meeting the incumbency criterion. A link to the current CUPE 4600-2 Collective Agreement can be found at the Academic Staff Agreements webpage on the Carleton University Human Resources website : <https://carleton.ca/hr/cu-files/cupe-4600-unit-2-collective-agreement/> and the CUPE 4600 website (<https://www.cupe4600.ca/>).

Applicants requiring accommodations at any stage of the recruitment process are encouraged to contact the Unit Chair or Director to ensure appropriate arrangements can be made in a timely manner.