

Department	Campus	Course Number	Title	Course Enrolment (est.)	Position Type	Number of Positions (est.)	Size of Appointment (# of hours)	Dates of Appointment	Tutorial/Lab Schedule (if known)	Qualifications	Duties	Posting Date	Closing Date	Emergency Posting?	Salary	Application Procedure
Department of Electrical and Computer Engineering	St. George	APS105H1S	Computer Fundamentals	389	Teaching Assistant	10	60	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Expert knowledge of C programming language and computer systems and problem solving using computers; the representation of information, programming techniques, programming style, basic loop structures, functions, arrays, strings, pointer-based data structures and searching and sorting algorithms.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca
Department of Electrical and Computer Engineering	St. George	ECE101H1S	Seminar Course: Introduction to Electrical and Computer Engineering	192	Teaching Assistant	3	10	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Fundamental knowledge of Electrical and Computer Engineering	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 10 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca
Department of Electrical and Computer Engineering	St. George	ECE110H1S	Electrical Fundamentals	617	Teaching Assistant	20	60	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Proficient knowledge in the physics of electricity and magnetism and circuit analysis.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca
Department of Electrical and Computer Engineering	St. George	ECE159H1S	Fundamentals of Electric Circuits	266	Teaching Assistant	8	60	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Expert knowledge of DC linear circuit elements and analysis, transient response of linear circuits, AC power circuits	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca

Department of Electrical and Computer Engineering	St. George	ECE216H1S	Signals and Systems	360	Teaching Assistant	10	60	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Expertise in Fundamental discrete- and continuous-time signals, definition and properties of systems, linearity and time invariance, convolution, impulse response, differential and difference equations, Fourier analysis, sampling and aliasing, applications in communications.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca
Department of Electrical and Computer Engineering	St. George	ECE221H1S	Electric and Magnetic Fields	360	Teaching Assistant	10	60	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Expertise in electric and magnetic fundamental laws - see course outline	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca
Department of Electrical and Computer Engineering	St. George	ECE231H1S	Introductory Electronics	368	Teaching Assistant	10	60	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Expertise in electronic circuits using operational amplifiers, diodes, bipolar junction transistors and field-effect transistors.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca
Department of Electrical and Computer Engineering	St. George	ECE243H1S	Computer Organization	357	Teaching Assistant	15	60	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Expert knowledge of the design of central processing unit, hardwired and microprogrammed control. Input-output and the use of interrupts. Arithmetic circuits. Assembly language programming. Main memory organization. Peripherals and interfacing. Microprocessors. System design considerations. The laboratory will consist of experiments involving logic systems and microprocessors. Design activity constitutes a major portion of laboratory work.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca

Department of Electrical and Computer Engineering	St. George	ECE259H1S	Electromagnetism	193	Teaching Assistant	6	60	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Expertise in the following: fundamental laws of electromagnetics including Coulomb's law, Gauss' law, Poisson's and Laplace's equations, the Biot-Savart's law, Ampere's law, Faraday's law, and Maxwell's equations; Vector calculus as applied to determine the relationship between the electric and magnetic fields and their sources (charges and currents); polarization in dielectric materials and magnetization in magnetic materials; circuit elements such as the resistor, capacitor and inductor.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca
Department of Electrical and Computer Engineering	St. George	ECE297H1S	Communication and Design	353	Teaching Assistant	15	60	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Expertise in electrical and computer engineering design processes illustrated by the design and implementation of software systems. Proficiency in C programming is mandatory for this course.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca
Department of Electrical and Computer Engineering	St. George	ECE302H1S	Probability and Applications	37	Teaching Assistant	1	60	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Strong math and probability background is required.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca
Department of Electrical and Computer Engineering	St. George	ECE311H1S	Dynamic Systems and Control	105	Teaching Assistant	2	60	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Applicants should have expert knowledge in linear control theory, state space theory, signals and systems and complex analysis. Also refer to the Course description for other required knowledge.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca

Department of Electrical and Computer Engineering	St. George	ECE316H1S	Communication Systems	75	Teaching Assistant	2	60	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Applicants must have in depth knowledge of key concepts in digital and analog communication theory, signals and systems. Operational knowledge of signal generators, oscilloscopes, spectrum analyzers is required.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a
Department of Electrical and Computer Engineering	St. George	ECE318H1S	Fundamentals of Optics	143	Teaching Assistant	5	60	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Expert knowledge of Geometric Optics: Spherical surfaces, lenses and mirrors, optical imaging systems, matrix method, and aberrations; Polarization: Polarizer and polarizations, anisotropic materials, dichroism, birefringence, index ellipsoid, waveplates, optical activity, Faraday effect; Interference: superposition of waves, longitudinal and transverse coherence, Young's double-slit experiment, Michelson and Fabry-Perot interferometer, thinfilms. Must know Diffraction and Fourier Optics: diffraction theory, single and double slits, diffraction gratings, spatial filtering, basic optical signal processing.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca
Department of Electrical and Computer Engineering	St. George	ECE330H1S	Quantum and Semiconductor Physics	19	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	In-depth knowledge required of the following: wave and quantum mechanics, the Schrodinger equation, quantum wells and density of states. Quantum statistics, solid-state bonding and crystal structure. Electron waves, dispersion relation inside periodic media, Fermi level and energy bands. Physical understanding of semiconductors at equilibrium, intrinsic and extrinsic semiconductors and excess carriers.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 30 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca

Department of Electrical and Computer Engineering	St. George	ECE334H1S	Digital Electronics	80	Teaching Assistant	3	60	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Expertise in digital design techniques for integrated circuits with emphasis on logic gates design at the transistor level	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018	\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca
Department of Electrical and Computer Engineering	St. George	ECE342H1S	Computer Hardware	97	Teaching Assistant	3	60	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Expertise in arithmetic circuits, cubical representation of logic functions, digital system design, timing analysis, design of asynchronous circuits, testing of logic circuits.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018	\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca
Department of Electrical and Computer Engineering	St. George	ECE344H1S	Operating Systems	124	Teaching Assistant	4	60	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Applicants must be well versed in operating system structures, concurrency, synchronization, deadlock, CPU scheduling, memory management and file systems.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018	\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you
Department of Electrical and Computer Engineering	St. George	ECE345H1S	Algorithms and Data Structures	25	Teaching Assistant	1	60	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Expertise in design and analysis of algorithms and data structures.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018	\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca
Department of Electrical and Computer Engineering	St. George	ECE350H1S	Semiconductor Electronic Devices	18	Teaching Assistant	2	30	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Expertise in the area of semiconductors, semiconductors in equilibrium, transport of carriers, p-n diodes, metal-semiconductor contacts, bipolar junction transistors, metal-oxide-semiconductor (MOS) capacitors, and MOS field effect transistors.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018	\$45.33 per hour + 4% vacation pay x 30 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca

Department of Electrical and Computer Engineering	St. George	ECE353H1S	Systems Software	83	Teaching Assistant	3	60	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Advanced knowledge of operating system structure, processes, threads, synchronization, CPU scheduling, memory management, file systems, input/output, multiple processor systems, virtualization, protection, and security.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne
Department of Electrical and Computer Engineering	St. George	ECE354H1S	Electronic Circuits	15	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Advanced knowledge of analog and digital electronic circuits, singlestage amplifiers, current mirrors, cascode amplifiers and differential pairs; amplifier frequency response, feedback and stability and Digital CMOS logic circuits.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 30 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne
Department of Electrical and Computer Engineering	St. George	ECE356H1S	Linear Systems and Control	30	Teaching Assistant	1	60	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Expertise in dynamic systems and their control, differential equation models of physical systems using transfer functions and state space models; linearization, initial and input response; Stability theory, Principle of feedback, Internal Model Principle, Frequency response, Nyquist stability, Loop shaping theory. Must know computer aided design using MATLAB and Simulink.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca
Department of Electrical and Computer Engineering	St. George	ECE357H1S	Electromagnetic Fields	15	Teaching Assistant	2	30	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Firm knowledge of transmission line theory: voltage and current waves, characteristic impedance, reflections from the load and source, transients on the line, Smith's chart, impedance matching. Fundamentals of electromagnetic theory: Maxwell's equations, Helmholtz's theorem, time retarded scalar and vector potentials, gauges, boundary conditions, electric and magnetic fields wave equations and their solutions in lossless and lossy medium. Plane wave propagation, reflection and transmission at boundaries. Constitutive relations and dispersion. Radiating dipole and waveguides.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 30 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca

Department of Electrical and Computer Engineering	St. George	ECE358H1S	Foundations of Computing	44	Teaching Assistant	2	60	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Applicants must be well versed in the fundamentals of algorithm design and computational complexity, including: analysis of algorithms, graph algorithms, greedy algorithms, divide-and-conquer, dynamic programming, network flow, approximation algorithms, the theory of NP-completeness, and various NP-complete problems.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca
Department of Electrical and Computer Engineering	St. George	ECE361H1S	Computer Networks I	169	Teaching Assistant	5	60	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Excellent programming skills in Java and C++	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca
Department of Electrical and Computer Engineering	St. George	ECE363H1S	Communication Systems	34	Teaching Assistant	2	60	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Strong knowledge of analog and digital communication systems. Analog and digital signals. Probability and random processes. Energy and power spectral densities; bandwidth. Distortionless analog communication; amplitude, frequency and phase modulation systems; frequency division multiplexing. Sampling, quantization and pulse code modulation (PCM). Baseband digital communication; intersymbol interference (ISI); Nyquist's ISI criterion; eye diagrams. Passband digital communications; amplitude-, phase- and frequency-shift keying; signal constellations. Performance analysis of analog modulation schemes in the presence of noise. Performance analysis of PCM in noise.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca

Department of Electrical and Computer Engineering	St. George	ECE368H1S	Probabilistic Reasoning	100	Teaching Assistant	2	60	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	TAs for this course must have a strong background in stochastic processes, probabilistic graphical models, and statistical learning theory. Strong programming skills.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca
Department of Electrical and Computer Engineering	St. George	ECE411H1S	Real-Time Computer Control	35	Teaching Assistant	2	60	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	In depth knowledge of digital control analysis and design by state-space methods; scheduling of control tasks using fixed-priority protocols; control design using MATLAB and Simulink, and computer control of the inverted pendulum using a PC with real-time software.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca
Department of Electrical and Computer Engineering	St. George	ECE412H1S	Analog Signal Processing Circuits	18	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Expertise in analog signal processing in both continuous-time and discrete-time; analog signal specifications; the design of analog filters including transfer function approximation using Matlab and implementation using active-RC, transconductance-C, and switched capacitor circuits; phase locked loops.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 30 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca
Department of Electrical and Computer Engineering	St. George	ECE413H1S	Energy Systems and Distributed Generation	37	Teaching Assistant	2	60	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Prospective TAs must have knowledge of three-phase systems; steady-state transmission line model; symmetrical three phase faults; power system stability; symmetrical components; unsymmetrical faults and fault current calculation; distribution network; equivalent steady-state model of voltage-sourced converter; distributed energy resources (DR); distributed energy storage; interface between DR and power system	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca

Department of Electrical and Computer Engineering	St. George	ECE419H1S	Distributed Systems	97	Teaching Assistant	3	60	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Design issues in distributed systems: heterogeneity, security, transparency, concurrency, fault-tolerance; networking principles; request-reply protocol; remote procedure calls; distributed objects; middleware architectures; CORBA; security and authentication protocols; distributed file systems; name services; global states in distributed systems; coordination and agreement; transactions and concurrency control; distributed transactions; replication.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca
Department of Electrical and Computer Engineering	St. George	ECE421H1S	Inference Algorithms and Machine Learning	400	Teaching Assistant	12	60	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Expertise is required in Squared error and the Gaussian probability distribution, Maximum likelihood estimation, Logistic regression, neural networks, radial basis function networks. Must also know Occam's razor, validation, bagging, Bayesian techniques. Auto-encoders, principal components analysis, clustering, the EM algorithm; matrix factorization, Markov models, hidden Markov models, the forward-backward algorithm, the Viterbi algorithm. Must know Factor graphs, Bayesian networks, variable elimination, the sum-product algorithm, the max-product algorithm; Estimating graphical models; Applications to image classification, image processing, object tracking, speech	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca

Department of Electrical and Computer Engineering	St. George	ECE422H1S	Radio and Microwave Wireless Systems	14	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Expertise in the analysis and design of systems employing radio waves, covering both the underlying electromagnetics and the overall system performance aspects such as signal-to-noise ratios: Transmission/reception phenomena; Propagation phenomena; receiver design aspects include: receiver figures of merit, noise in cascaded systems, noise figure, and noise temperature. Must understand system examples such as fixed wireless access; mobile and personal communication systems; wireless cellular concepts; satellite communications; radar.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 30 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca
Department of Electrical and Computer Engineering	St. George	ECE437H1S	VLSI Technology	25	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Knowledge of CAD tools and design methodology for the development of advanced semiconductor devices and integrated circuits will be introduced in the laboratory environment. These include the simulation of device fabrication, device characteristics, device modeling, circuit layout and design verification. Finally, advanced technology such as GaN HEMTs, graphene devices, carbon nanotube devices, power devices, heterojunctions, InP and GaSb HBTs.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 30 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca

Department of Electrical and Computer Engineering	St. George	ECE448H1S	Biocomputation	27	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Applicants should have a strong understanding of molecular and cellular biology; knowledge of dynamic programming algorithms and pattern finding approaches (e.g. neural networks and markov models)	Duties may include attending weekly 2 hour tutorial; solving problem sets during the tutorial; design quiz questions and administer quizzes during the tutorial; mark quizzes and invigilate the midterm during the tutorial	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 30 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca
Department of Electrical and Computer Engineering	St. George	ECE462H1S	Multimedia Systems	26	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Expertise in sampling and discrete-time signals in one or more dimensions - see Course description for reference	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 30 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca
Department of Electrical and Computer Engineering	St. George	ECE463H1S	Electric Drives	27	Teaching Assistant	1	60	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Expertise in electro-mechanical mechanisms for force and torque production in rotating machines. DC machine theory and DC machine dynamics, synchronous machines and their dynamics, stepper motors. Introduction to space vectors and vector control of AC machines; steady state and variable speed operation of the induction machine via V/f control.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca

Department of Electrical and Computer Engineering	St. George	ECE464H1S	Wireless Communication	15	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Expertise in radio medium, radio communication systems; Link budget: cable losses, propagation loss, antenna gains; Basic concepts of propagation: path loss, multi-path propagation and fading. Raleigh and Rician fading models, Doppler shift, delay spread, coherence time and coherence bandwidth of the channel; Analog modulation schemes and their bandwidths. Digital modulation schemes and their bandwidths and bit rates: BPSK, QPSK, MSK, GMSK. Basic concepts of speech coding. Error correction coding, interleaving, and multiple access frame structure; the physical layer description of the AMPS, IS-54, and GSM cellular systems. The cellular concept: frequency reuse, re-use cluster concept. Channel	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 30 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca
Department of Electrical and Computer Engineering	St. George	ECE466H1S	Computer Networks II	31	Teaching Assistant	2	30	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Expertise in traffic modeling; network calculus; traffic classification; traffic regulation; shaping, filtering, policing, leaky bucket; queueing systems; scheduling; quality of service: DiffServ and IntServ/RSVP; multi-protocol label switching; call admission control / congestion control; switching; pricing; optical networks.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 30 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca

Department of Electrical and Computer Engineering	St. George	ECE469H1S	Optical Communications and Networks	22	Teaching Assistant	2	30	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Expertise in optical communication systems and networks at the system and functional level; applications of telecommunication networks (short to long haul) to computing networks (chip-to-chip, on chip communications, optical backplanes). Thorough understanding of basic principles of optical transmission and associated components used for transmission of light and optical networks; system design tools for optical links; multi-service system requirements; optical network design tools (routing and wavelength assignment), network management and survivability.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 30 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca
Department of Electrical and Computer Engineering	St. George	ECE470H1S	Robot Modelling and Control	70	Teaching Assistant	3	60	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Expertise in robot manipulators, kinematic modeling, forward and inverse kinematics, velocity kinematics, path planning, point-to-point trajectory planning, dynamic modeling, Euler-Lagrange equations, inverse dynamics, joint control, computed torque control, passivity-based control, feedback linearization.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca
Department of Electrical and Computer Engineering	St. George	ECE472H1S	Engineering Economic Analysis and Entrepreneurship	219	Teaching Assistant	3	60	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Advanced knowledge of economic evaluation and justification of engineering projects and investments - financial industry economic experience is highly desirable	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca

Department of Electrical and Computer Engineering	St. George	ECES16H1S	Intelligent Image Processing	77		2	60		https://portal.engineering.utoronto.ca/sites/timetable/winter.html	In depth knowledge of the field of Personal Cybernetics, including "Wearable Computing", "Personal Technologies", "Human Computer Interaction (HCI)," "Mobile Multimedia," "Augmented Reality," "Mediated Reality," "CyborgLogging," and the merging of communications devices such as portable telephones with computational and imaging devices. The focus will be on fundamental aspects and new inventions for humancomputer interaction. Must have knowledge of mediated reality, Personal Safety Devices, lifelong personal video capture, the Eye Tap principle, collinearity criterion, comparametric equations, photoquantigraphic imaging, lightvector spaces, anti-	Duties may include conducting tutorials and laboratory demonstrations and marking laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca
Department of Electrical and Computer Engineering	St. George	ECES32H1S	Digital Systems Design	41	Teaching Assistant	3	30	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Expertise in advanced digital systems design concepts including project planning, design flows, embedded processors, hardware/software interfacing and interactions, software drivers, embedded operating systems, memory interfaces, system-level timing analysis, clocking and clock domains. There is a significant design project in this course which is undertaken and implemented on an FPGA development board.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 30 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca

Department of Electrical and Computer Engineering	St. George	ECES33H1S	Power Electronics: Switch-Mode Power Supplies	24	Teaching Assistant	1	60	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Expertise in the analysis, design and implementation of high-efficiency switched-mode power supplies (SMPS) used in modern electronic equipment. Knowledge of isolated and nonisolated SMPS topologies; steady-state analysis; component datasheets; small-signal modeling and control of non-ideal converters; compensator design; thermal and magnetic circuits; power semiconductor devices; protection and practical implementation issues. The course includes an experimental design project, where teams design, solder and test a closed-loop dc-dc converter.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca
Department of Electrical and Computer Engineering	St. George	ECE568H1S	Computer Security	141	Teaching Assistant	5	60	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Expertise in principles of computer systems security including understanding how attackers operate; how to identify security vulnerabilities and how they can be exploited; techniques to create secure systems and defend against such attacks. Knowledge of industry standards for conducting security audits to establish levels of security will be introduced. Knowledge of basic cryptographic techniques as well as hardware used to accelerate cryptographic operations in ATM's and web servers.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca
Department of Electrical and Computer Engineering	St. George	STAT286H1S	Probability & Statistics	183	TA	4	60	Jan. 7, 2019 to April 30, 2019	https://portal.engineering.utoronto.ca/sites/timetable/winter.html	Must have excellent English communication skills, a solid background in engineering mathematics including probability theory and statistics as outlined in the STAT286 course calendar description.	Duties may include conducting tutorials, creating solutions to problem set questions, marking problem sets, tests and examinations, assisting in the development of course material that makes use of educational technology in the new CEIE building.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 60 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca

Department of Electrical and Computer Engineering	St. George	ECE1059HS	Power System Modeling and Power Flow	20	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	https://www.ece.utoronto.ca/graduates/courses/timetabe/	Advanced knowledge of power system modeling, analysis and PSCAD & PSSE software packages	Attending tutorials, preparing mid-term and final-examination papers, preparing Lab demos	October 2, 2018	October 26, 2018	\$45.33 per hour + 4% vacation pay x 30 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca . All graduate course TA hires are subject to final approval by the Associate Chair, Graduate Studies and subject to course enrolments.
Department of Electrical and Computer Engineering	St. George	ECE1392HS	Integrated Circuits for Digital Communications	18	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	https://www.ece.utoronto.ca/graduates/courses/timetabe/	An M.A.Sc. or a Ph.D. student who has taken ECE1352 before is strongly preferred. Priority will be given to applicants who are active in the research related to this course.	Marking assignments, final project, and final exam	October 2, 2018	October 26, 2018	\$45.33 per hour + 4% vacation pay x 30 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca .
Department of Electrical and Computer Engineering	St. George	ECE1365HS	High Frequency Integrated Circuits	60	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	https://www.ece.utoronto.ca/graduates/courses/timetabe/	Excellent understanding of the ECE1365S course material; in depth expertise in using the following CAD tools; Cadence Analog Artist Spectre RF, Composer, Virtuoso Harmonic Balance and periodic state state simulation techniques inductor, transformer and multiport EM design and modelling using Asitic and EMX SiGe BiCMOS and nanoscale RF SOI/FDSOI CMOS technology process flow, device modelling, layout and RLC parasitic layout extraction using StarRC. Excellent knowledge of STMicroelectronics and GlobalFoundries design kits and tools; VNA, NFA, spectrum analyzer testing at DC-300 GHz and on-wafer probing of devices and circuits	Development of assignments and exercises and marking of assignments and exercises and course paper	October 2, 2018	October 26, 2018	\$45.33 per hour + 4% vacation pay x 30 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca . All graduate course TA hires are subject to final approval by the Associate Chair, Graduate Studies and subject to course enrolments.

Department of Electrical and Computer Engineering	St. George	ECE1398HS	VLSI Design Methodology	20	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	https://www.ece.utoronto.ca/graduates/courses/timetables/	Requirements are: having taken ECE1388H1F in the past and/or good working knowledge of Cadence CAD tools and familiarity with Synopsys.	Responsibilities include: assistance to students with CAD tools, assistance in labs and tutorials, project grading, and email support.	October 2, 2018	October 26, 2018	\$45.33 per hour + 4% vacation pay x 30 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at
Department of Electrical and Computer Engineering	St. George	ECE1395HS	Power Semiconductor Devices and Applications	9	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	https://www.ece.utoronto.ca/graduates/courses/timetables/	The applicant must have in-depth knowledge on power semiconductor device designs. Proficiency in using TCAD tools on process and device simulation to analyze power devices is required.	The TA is required to help students to solve technical issues related to the use of the TCAD tools. The TA will also be required to set up office hours to answer technical questions related to the design and optimization of power devices. Responding to students via email will also be necessary.	October 2, 2018	October 26, 2018	\$45.33 per hour + 4% vacation pay x 30 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca . All graduate course TA hires are subject to final approval by the Associate Chair, Graduate Studies and subject to course enrolments.
Department of Electrical and Computer Engineering	St. George	ECE1512HS	Digital Image Processing and Applications	50	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	https://www.ece.utoronto.ca/graduates/courses/timetables/	Prefer strong background in signal/image processing or computer vision. PhD preferred	The TA will mark homework assignments, student project proposals, end of term student projects, and student in class presentations.	October 2, 2018	October 26, 2018	\$45.33 per hour + 4% vacation pay x 30 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca . All graduate course TA hires are subject to final approval by the Associate Chair, Graduate Studies and subject to course enrolments.

Department of Electrical and Computer Engineering	St. George	ECE175HS	Parallel Computer Architecture and Programming	25	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	https://www.ece.utoronto.ca/graduates/courses/timetabe/	Applicants should have taken ECE 552 or equivalent (Computer Architecture); Knowledge of parallel architecture; Experience with parallel programming (pthreads, MPI, etc);	The TA will assist the instructor with preparation of homework solutions, grading of homework, end of the term laboratory and project/exam.	October 2, 2018	October 26, 2018	\$45.33 per hour + 4% vacation pay x 30 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca . All graduate course TA hires are subject to final approval by the Associate Chair, Graduate Studies and subject to course enrolments.
Department of Electrical and Computer Engineering	St. George	ECE1770HS	Trends in Middleware Systems – Large-scale Data Management	30	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	https://www.ece.utoronto.ca/graduates/courses/timetabe/	Proficient in middleware concepts, internet-scale distributed systems concepts, recent trends in middleware, and socket programming	Assist in home work grading, project grading, organizing student teams, serve as point of contact for student teams, manage mailing list and online portal, and manage course web resources	October 2, 2018	October 26, 2018	\$45.33 per hour + 4% vacation pay x 30 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca . All graduate course TA hires are subject to final approval by the Associate Chair, Graduate Studies and subject to course enrolments.
Department of Electrical and Computer Engineering	St. George	ECE1779HS	Introduction to Cloud Computing	55	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	https://www.ece.utoronto.ca/graduates/courses/timetabe/	Java Web programming experience; experience with Amazon Web Services; experience with Google AppEngine	Grade assignments; monitor bulletin board; provide technical support to students	October 2, 2018	October 26, 2018	\$45.33 per hour + 4% vacation pay x 30 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca . All graduate course TA hires are subject to final approval by the Associate Chair, Graduate Studies and subject to course enrolments.

Department of Electrical and Computer Engineering	St. George	ECE1373HS	Digital Design for Systems-on-Chip	17	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	https://www.ece.utoronto.ca/graduates/courses/timetabe/	Knowledge about high-level synthesis (HLS) for digital hardware. Experience with HLS tools, especially Altera or Xilinx. Hardware design and embedded software for FPGAs.	Supervise and advise student project groups. Grade final project demos and reports.	October 2, 2018	October 26, 2018	\$45.33 per hour + 4% vacation pay x 30 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a
Department of Electrical and Computer Engineering	St. George	ECE1392HS	Integrated Circuits for Digital Communications	15	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	https://www.ece.utoronto.ca/graduates/courses/timetabe/	A PhD student who has taken ECE1392 is strongly preferred. Priority will be given to applicants who are active in the research related to this course which is digital communication systems with emphasis	TA duties will include marking assignments, final project, and final exam.	October 2, 2018	October 26, 2018	\$45.33 per hour + 4% vacation pay x 30 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application
Department of Electrical and Computer Engineering	St. George	ECE1543HS	Mobile Communication Systems	16	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	https://www.ece.utoronto.ca/graduates/courses/timetabe/	Expertise in the design of mobile communication systems, such as cellular radio, packet radio networks, and indoor wireless networks.	Marking assignments/tests, other duties as per discussion with instructor.	October 2, 2018	October 26, 2018	\$45.33 per hour + 4% vacation pay x 30 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne
Department of Electrical and Computer Engineering	St. George	ECE1718HS	Special Topics in Computer Hardware Design: Advanced Computer Architecture	15	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019		C++/C programming. Verilog Synthesis to Custom Logic	Grade assignments. Develop/Update Assignments.	October 2, 2018	October 26, 2018	\$45.33 per hour + 4% vacation pay x 30 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne
Department of Electrical and Computer Engineering	St. George	ECE1778HS	Creative Applications for Mobile Devices	66	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	https://www.ece.utoronto.ca/graduates/courses/timetabe/	TA will need expertise in mobile application development for the Android platform, and broad expertise on software development for mobile platforms. Expertise in iPhone/Xcode development is also an asset.	Duties may include attending classes and answering technical questions that arise; answer student questions on a discussion board, and via email for exercises; serve as a consultant for the creation of the projects; mark the assignments and help mark the project; coordinate the use of the smartphones, and make sure they are up-to-date	October 2, 2018	October 26, 2018	\$45.33 per hour + 4% vacation pay x 30 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca . All graduate course TA hires are subject to final approval by the Associate Chair, Graduate Studies and subject to course

Department of Electrical and Computer Engineering	St. George	ECE1781HS	Dependable Software Systems	18	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	https://www.ece.utoronto.ca/graduates/courses/timetabl e/	Must have taken ECE1781 or ECE1724. PhD student is preferred. Students who doing research in the area of software systems are preferred.	Marking of project reports.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 30 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at
Department of Electrical and Computer Engineering	St. George	ECE1782HS	Programming Massively Parallel Multiprocessors & Heterogeneous Systems	65	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	https://www.ece.utoronto.ca/graduates/courses/timetabl e/	Expertise in CUDA and OpenCL programming.	Grade assignments; Develop/Update Assignments.	October 2, 2018	October 26, 2018		\$45.33 per hour + 4% vacation pay x 30 hours	Complete the Electrical and Computer Engineering on-line TA application and add teaching resume - instructions and link are posted on the ECE TA web page - https://www.ece.utoronto.ca/undergraduates/ta/ by October 26, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@utoronto.ca . All graduate course TA hires are subject to final approval by the Associate Chair, Graduate Studies and subject to course enrolments.