ECE MASTER TA POSITION POSTINGS 2016-2017

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	CSC326H1F	Programming Languages	125	Teaching Assistant	1	60	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	- expertise in Python, Lisp, Scheme, and Prolog; - programming styles and paradigms i.e. object oriented scripting	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018		$44.44 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 June 27, 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	CSC444H1F	Software Engineering	48	Teaching Assistant	2	30	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Knowledge of Eng. Requirements (e.g. Req. elicitation, analysis, specification); Experience with creation of software Architecture and Design; Implementation (programming); Using various tools to support these activities while applying a software development methodology.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018		$44.44 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 June 27, 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	CSC467H1F	Compilers and Interpreters	51	Teaching Assistant	1	30	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Expertise in compiler organization, compiler writing tools, use of regular expressions - refer also to Course description	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018		$44.44 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 June 27, 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	ECE201H1F	Electrical and Computer Engineering Seminar	324	Teaching Assistant	2	10	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Advanced knowledge of Electrical and Computer Engineering	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018		$44.44 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 June 27, 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	Campus	Course Code	Course Title	Section	Position	Positions	Hours	Dates	Timetable	Qualifications	Duties	Posting Date	Closing Date		Salary	Application Procedure
Department of Electrical and Computer Engineering	St. George	ECE212H1F	Circuit Analysis	331	Teaching Assistant	4	60	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	High level understanding of circuit theory	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018		**$44.44 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 June 27, 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	ECE241H1F	Digital Systems	339	Teaching Assistant	16	60	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	The applicant must be proficient in digital systems design for FPGAs using Verilog, literate how to use a complex FPGA CAD system such as Altera's Quartus II or Xilinx' ISE. They should be familiar with Assembly Language-level programming of processors, and how assemblers work. This knowledge would be acquired by achieving good grades (above 80) in University of Toronto Courses ECE 241 (Digital Systems) and ECE 243 (Computer Organization) or ECE 253 (Digital and Computer Systems)	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018		**$44.44 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 June 27, 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	ECE244H1F	gramming Fundamen	341	Teaching Assistant	9	60	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Candidates must be proficient in C++ and have working knowledge of graphic libraries, event-driven programming and integrated debugging environments under Linux and Windows.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018		**$44.44 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 June 27, 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	Campus	Course	Course Title		Position	Number	Hours	Dates	Timetable	Required Qualifications	Duties	Posting Date	Closing Date		Salary	Application Instructions
Department of Electrical and Computer Engineering	St. George	ECE253H1F	Digital and Computer Systems	156	Teaching Assistant	6	60	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	The applicant must be proficient in digital systems design for FPGAs using Verilog, literate how to use a complex FPGA CAD system such as Altera's Quartus II or Xilinx' ISE. They should be familiar with Assembly Language-level programming of processors, and how assemblers work. This knowledge would be acquired by achieving good grades (above 80) in University of Toronto Courses ECE 241 (Digital Systems) and ECE 243 (Computer Organization) or ECE 253 (Digital and Computer Systems)	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018		$44.44 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 June 27, 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	ECE302H1F	Probability and Applications	**282**	Teaching Assistant	4	60	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Strong math and probabilty background	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018		$44.44 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 June 27, 2018. If during the application and/or selection process you
Department of Electrical and Computer Engineering	St. George	ECE311H1F	Dynamic Systems and Control	128	Teaching Assistant	2	60	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 2018		$44.44 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 June 27, 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	ECE314H1F	Fundamentals of Electrical Energy Systems	62	Teaching Assistant	4	60	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Expertise in 3-phase systems, single line diagrams and complex power flow - see course description	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018		$44.44 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 June 27, 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	Campus	Course	Course Title	Enrolment	Position	# of Positions	Hours	Dates	Location	Qualifications	Duties	Posting Date	Closing Date	Salary	Application Instructions
Department of Electrical and Computer Engineering	St. George	ECE316H1F	Communication Systems	33	Teaching Assistant	1	60	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Firm grasp of key concepts in digital and analog communication theory, signals and systems. Operational knowledge of signal generators, oscilloscopes, spectrum analyzers	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018	**$44.44 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 June 27, 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	ECE320H1F	Fields and Waves	121	Teaching Assistant	2	60	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Advanced knowledge of elctromagnetic theory, basic circuit theory and math skills. Operational knowledge of basic electrical test equipment i.e. oscilloscopes, multimeters - refer to course outline.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018	**$44.44 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 June 27, 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	ECE331H1F	Analog Electronics	54	Teaching Assistant	1	60	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Expert understanding of circuit theory, transistor amplifiers; feedback amplifier analysis; stability and compensation techniques using negative feedback	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018	**$44.44 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 June 27, 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	ECE334H1F	Digital Electronics	77	Teaching Assistant	3	60	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Expertise in digital design techniques for intergrated 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.	May 31, 2018	June 27, 2018	**$44.44 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 June 27, 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	Campus	Course Code	Course Title	Enrolment	Position	#	Hours	Term	Timetable	Qualifications	Duties	Posted	Closing		Rate	Application
Department of Electrical and Computer Engineering	St. George	ECE335H1F	Introduction to Electronic Devices	51	Teaching Assistant	1	60	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Expertise in electrical behaviour of semiconductor structures and devices.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018		$44.44 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 June 27, 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	ECE344H1F	Operating Systems	146	Teaching Assistant	6	60	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 2018		$44.44 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 June 27, 2018. If during the application and/or selection process you
Department of Electrical and Computer Engineering	St. George	ECE345H1F	Algorithms and Data Structures	280	Teaching Assistant	2	60	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 2018		$44.44 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 June 27, 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	ECE349H1F	Introduction to Energy Systems	61	Teaching Assistant	3	60	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Expertise in Three-phase AC systems and complex power. Mechanisms for electrical-electrical energy conversion: power electronic systems for DC-DC conversion, single-phase DC-AC and three-phase DC-AC conversion, transformers for single-phaseand three phase ACAC conversion.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018		$44.44 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 June 27, 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	ECE352H1F	Computer Organization	54	Teaching Assistant	2	60	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Expertise in digital and computer systems, synchronous and asynchronous sequential circuits, pipelining; RISC processors	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018		$44.44 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 June 27, 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	Campus	Course	Title		Position	Number		Hours	Dates	Timetable	Required Qualifications	Duties	Posted	Closing		Salary	Application
Department of Electrical and Computer Engineering	St. George	ECE355H1 F	Signal Analysis and Communication	53	Teaching Assistant	1		30	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Expertise in continuous-time and discrete-time signals and system, characterization of linear time-invariant systems, Fourier analysis, linear filtering, sampling of continuous-time signals, and modulation techniques for communication systems.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018		**$44.44 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 June 27, 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	ECE360H1F	Electronics	68	Teaching Assistant	1		60	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Expertise in basic electronics, frequency analysis, operational amplifiers, diodes, types of transistors	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018		**$44.44 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 June 27, 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	ECE361H1F	Computer Networks I	110	Teaching Assistant	6		60	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Excellent programming skills in Java and C++	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018		**$44.44 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 June 27, 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	ECE367H1F	Matrix Algebra and Optimization	TBA	Teaching Assistant	1		60	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Applicants must have strong facility with linear algebra; strong expertise in optimization (to the level of Boyd & Vandenberghe, e.g., the ECE graduate course); good numerical/programming skills; strong writing skills and an interest and experience in classroom teaching as well as conceptualizing what students need to learn.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018		**$44.44 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 June 27, 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	ECE410H1F	Control Systems	35	Teaching Assistant	1	60	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 2018	$44.44 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 June 27, 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	ECE417H1F	Digital Communication	15	Teaching Assistant	1	30	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Basic concepts of digital communication. Baseband data transmission, intersymbol interference, Nyquist pulse shaping, equalization, line coding, multi-path fading, diversity. Binary and M-ary modulation schemes, synchronization. Signal space concepts, optimum receivers, coherent and noncoherent detectors. Information theory, source encoding, error control coding, block and convolutional codes.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018	$44.44 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 June 27, 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	ECE424H1F	Microwave Circuits	25	Teaching Assistant	1	30	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Expertise in students in the design, simulation, fabrication, and test of practical passive and active microwave circuits using industry-standard RF/microwave simulation tools and measurement systems	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018	$44.44 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 June 27, 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	ECE430H1F	Analog Integrated Circuits	14	Teaching Assistant	1	30	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Expertise in single-stage amplifiers and frequency response, including noise analysis; basic CMOS op amp; Advanced op amp circuits: telescopic and folded-cascode op amps;fully-differential op amps and common mode feedback.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018	$44.44 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 June 27, 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	ECE431H1F	Digital Signal Processing	49	Teaching Assistant	1	60	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Expertise in digital filtering and applications - see Course description	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018	**$44.44 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 June 27, 2018. If during the application and/or selection process you require accommodation due to a
Department of Electrical and Computer Engineering	St. George	ECE445H1F	Neural Bioelectricity	20	Teaching Assistant	1	30	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Advanced knowledge of EEG signal processing, Machine Learning, Matlab GUI programming, C programming, PCB design, soldering, and testing.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018	**$44.44 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 June 27, 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	ECE446H1F	Sensory Communication	20	Teaching Assistant	1	30	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Expertise in acoustics and acoustic instrumentation operation	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018	**$44.44 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 June 27, 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	ECE454H1F	Computer Systems Programming	62	Teaching Assistant	3	60	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	TAs should have training in C/C++ programming and have taken courses in compilers and processor architecture	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018	**$44.44 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 June 27, 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	Campus	Course Code	Course Title	Hours	Position	Number		Session	Posting URL	Qualifications	Duties	Posting Date	Closing Date		Salary	Application Instructions
Department of Electrical and Computer Engineering	St. George	ECE461H1F	Internetworking	96	Teaching Assistant	1	60	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Expertise in protocols for packet switching networks with emphasis on Internet type of networks - refer to course description for details	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018		**$44.44 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 June 27, 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	ECE470H1F	Robot Modelling and Control	53	Teaching Assistant	1	60	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Expertise in robot manipulators, kinematic modeling, forward and inverse kinematics, velocity kinematics, path planning, point-to-point trajectory planning, dynamic modeling, Euler-Langrange 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.	May 31, 2018	June 27, 2018		**$44.44 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 June 27, 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	ECE472H1F	Engineering Economic Analysis and Entrepreneurship	124	Teaching Assistant	2	60	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Advanced knowledge of economic evaluation and justification of engineering projects and investments - financial industry economic experience is highly desireable	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018		**$44.44 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 June 27, 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	ECE514H1F	Power Electronics: Converter Topologies	39	Teaching Assistant	1	60	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Expertise with power electronics converters utilized in applications ranging from low-power mobile devices to high-power utility systems	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018		**$44.44 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 June 27, 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	Campus	Course Code	Course Title	Enrolment	Position	Number	Hours	Session	Timetable	Required Qualifications	Duties	Posting Date	Closing Date		Salary	Application Instructions
Department of Electrical and Computer Engineering	St. George	ECE537H1F	Random Processes	39	Teaching Assistant	1	60	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Expert knowledge of principles and properties of random processes as applied to communications, control systems and computer science	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018		**$44.44 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 June 27, 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	ECE552H1F	Computer Architecture	88	Teaching Assistant	1	60	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Experience with computer architecture simulators (e.g., Simics, Flexus, SimpleScalar); C, C++, scripting languages; HDL language highly desireable	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018		**$44.44 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 June 27, 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	ECE557H1F	Systems Control	20	Teaching Assistant	1	60	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 2018		**$44.44 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 June 27, 2018. If during the application and/or selection process you
Department of Electrical and Computer Engineering	St. George	ECE568H1 F	Computer Security	89	Teaching Assistant	1	60	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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 webservers.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018		**$44.44 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 June 27, 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	Campus	Course Code	Course Title	Enrolment	Position	Number	Hours	Dates	Website	Required Qualifications	Duties	Posting Date	Closing Date		Salary	Application Instructions
Department of Electrical and Computer Engineering	St. George	MAT290H1F	Advanced Engineering Mathematics	326	Teaching Assistant	3	60	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Knowledge of engineering mathematics with emphasis on complex variables and ordinary differential equations	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018		**$44.44 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 June 27, 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	MAT291H1F	Calculus III	331	Teaching Assistant	3	60	Sept 4, 2018 to Dec 31, 2018	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Advanced calculus knowledge - see course description	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 2018		**$44.44 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 June 27, 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	APS105H1S	omputer Fundamenta	414	Teaching Assistant	10	60	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 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 June 27, 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	224	Teaching Assistant	1	10	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Fundamental knowledge of Electrical and Computer Engineering	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 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 June 27, 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	Campus	Course	Course Title	Enrol.	Position	Positions	Hours	Dates	Timetable	Qualifications	Duties	Posted	Closing		Salary	Application
Department of Electrical and Computer Engineering	St. George	ECE110H1S	Electrical Fundamentals	624	Teaching Assistant	15	60	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 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 June 27, 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	217	Teaching Assistant	5	60	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 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 June 27, 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	337	Teaching Assistant	8	60	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 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 June 27, 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	327	Teaching Assistant	6	60	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 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 June 27, 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	Campus	Course Code	Course Title		Position			Dates	Timetable	Qualifications	Duties	Posting Date	Closing Date		Salary	Application Instructions
Department of Electrical and Computer Engineering	St. George	ECE231H1S	Introductory Electronics	333	Teaching Assistant	6	60	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 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 June 27, 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	333	Teaching Assistant	16	60	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 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 June 27, 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	158	Teaching Assistant	4	60	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 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 June 27, 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	Campus	Course	Course Name	Enrolment	Position	Positions	Hours	Dates	Timetable	Qualifications	Duties	Posting Date	Closing Date		Salary	Application Instructions
Department of Electrical and Computer Engineering	St. George	ECE297H1S	Communication and Design	326	Teaching Assistant	15	60	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 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 June 27, 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	56	Teaching Assistant	2	60	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Strong math and probabilty background is required.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 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 June 27, 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	113	Teaching Assistant	2	60	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 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 June 27, 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	96	Teaching Assistant	2	60	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 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 June 27, 2018. If during the application and/or selection process you require accommodation due to a

Department	Campus	Course Code	Course Title	Section	Position	Number	Hours	Dates	Timetable	Requirements	Duties	Posting Date	Closing Date		Rate	Application Instructions
Department of Electrical and Computer Engineering	St. George	ECE318H1S	Fundamentals of Optics	111	Teaching Assistant	2	60	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 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 June 27, 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	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 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 June 27, 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	118	Teaching Assistant	3	60	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Expertise in digital design techniques for intergrated 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.	May 31, 2018	June 27, 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 June 27, 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	Campus	Course	Course Name		Position			Dates	URL	Expertise	Duties				Rate	Instructions
Department of Electrical and Computer Engineering	St. George	ECE342H1S	Computer Hardware	87	Teaching Assistant	3	60	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 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 June 27, 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	116	Teaching Assistant	3	60	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 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 June 27, 2018. If during the application and/or selection process you
Department of Electrical and Computer Engineering	St. George	ECE345H1S	Algorithms and Data Structures	45	Teaching Assistant	2	60	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 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 June 27, 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	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 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 June 27, 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	2	60	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 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 June 27, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne

Department	Campus	Course	Title	Enrol	Position	#	Hours	Dates	Timetable	Qualifications	Duties	Posting	Closing		Salary	Application
Department of Electrical and Computer Engineering	St. George	ECE354H1S	Electronic Circuits	40	Teaching Assistant	2	60	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 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 June 27, 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	53	Teaching Assistant	2	60	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Expertise in dynamic systems and their control, differential equation models of physical systems using transfer functions and state space models; linearization, nitial and input response; Stability theory, Principle of feedback, Internal Model Principle, Frequencey 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.	May 31, 2018	June 27, 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 June 27, 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	28	Teaching Assistant	1	60	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 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 June 27, 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	Campus	Course Code	Course Title	Enrolment	Position	Number	Hours	Dates	URL	Qualifications	Duties	Open Date	Close Date		Salary	Application Instructions
Department of Electrical and Computer Engineering	St. George	ECE358H1S	Foundations of Computing	44	Teaching Assistant	2	60	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 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 June 27, 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	190	Teaching Assistant	3	60	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Excellent programming skills in Java and C++	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 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 June 27, 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	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 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 June 27, 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	Campus	Course Code	Course Title		Position		Hours	Dates	Timetable	Qualifications	Duties	Posting Date	Closing Date		Salary	Application Instructions
Department of Electrical and Computer Engineering	St. George	ECE368H1S	Probabilistic Reasoning	TBA	Teaching Assistant	1	60	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	TAs for this course must have a trong 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.	May 31, 2018	June 27, 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 June 27, 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	26	Teaching Assistant	2	60	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 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 June 27, 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	13	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Expertise in analog signal processing in both continuous-time and discrete-time; analog signal specifications; the design of analog filters including transfer function aproximation 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.	May 31, 2018	June 27, 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 June 27, 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	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 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 June 27, 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	Campus	Course Code	Course Title	Enrolment	Position	Positions	Hours	Session	Timetable	Course Description	Duties	Posting Date	Closing Date		Salary	Application Instructions
Department of Electrical and Computer Engineering	St. George	ECE419H1S	Distributed Systems	81	Teaching Assistant	2	60	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 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 June 27, 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	217	Teaching Assistant	10	60	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 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 June 27, 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	11	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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 undestand 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.	May 31, 2018	June 27, 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 June 27, 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	10	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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 nano-tube 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.	May 31, 2018	June 27, 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 June 27, 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	Campus	Course Code	Course Name	Hours	Position	Number	Total Hours	Session Dates	Time	Qualifications	Duties	Posting Date	Closing Date		Salary	Application Instructions
Department of Electrical and Computer Engineering	St. George	ECE448H1S	Biocomputation	23	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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	May 31, 2018	June 27, 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 June 27, 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	23	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 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 June 27, 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	37	Teaching Assistant	2	60	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 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 June 27, 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		TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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 re-use, re-use cluster concept. Channel	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 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 June 27, 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	53	Teaching Assistant	2	30	Jan. 7, 2019 to April 30, 2019		TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 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 June 27, 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	40	Teaching Assistant	2	30	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 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 June 27, 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	62	Teaching Assistant	3	60	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Expertise in robot manipulators, kinematic modeling, forward and inverse kinematics, velocity kinematics, path planning, point-to-point trajectory planning, dynamic modeling, Euler-Langrange 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.	May 31, 2018	June 27, 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 June 27, 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	213	Teaching Assistant	3	60	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Advanced knowledge of economic evaluation and justification of engineering projects and investments - financial industry economic experience is highly desireable	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 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 June 27, 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	Campus	Course	Course Title					Dates	Timetable	Qualifications	Duties	Posting Date	Closing Date		Rate	Application Instructions
Department of Electrical and Computer Engineering	St. George	ECE516H1S	Intelligent Image Processing	29	Teaching Assistant	1	60	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 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 June 27, 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	ECE532H1S	Digital Systems Design	36	Teaching Assistant	3	30	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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.	May 31, 2018	June 27, 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 June 27, 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	ECE533H1S	Power Electronics: Switch-Mode Power Supplies	15	Teaching Assistant	1	60	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	Expertise in the analysis, design and implementation of highefficiency 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.	May 31, 2018	June 27, 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 June 27, 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	121	Teaching Assistant	3	60	Jan. 7, 2019 to April 30, 2019	TBA - http://www.undergrad.engineering.utoronto.ca/Office_of_the_Registrar/Timetables.htm	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 webservers.	Duties may include conducting tutorials /laboratory demonstrations and marking tutorial/laboratory work, problem sets, tests and examinations.	May 31, 2018	June 27, 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 June 27, 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	Campus	Course	Course Title		Position		Hours	Dates	Timetable	Qualifications	Duties	Posting Date	Closing Date		Salary	Application Instructions
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	TBA - https://www.ece.utoronto.ca/graduates/courses/timetable/	Advanced knowledge of power system modeling, analysis and PSCAD & PSSE software packages	Attending tutorials, preparing mid-term and final-examination papers, preparing Lab demos	May 31, 2018	June 27, 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 June 27, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@gmail.com. Please note that some announcements of graduate course TA vacancies are tentative, pending final course determinations and enrolment and Assoc. Chair, Graduate Studies approval.
Department of Electrical and Computer Engineering	St. George	ECE1352HF	Integrated Circuits for Digital Communications	18	Teaching Assistant	1	30	Sept 4, 2018 to Dec 31, 2018	TBA - https://www.ece.utoronto.ca/graduates/courses/timetable/	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	May 31, 2018	June 27, 2018		**$44.44 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 June 27, 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	ECE1365HS	High Frequency Integrated Circuits	60	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	TBA - https://www.ece.utoronto.ca/graduates/courses/timetable/	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	May 31, 2018	June 27, 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 June 27, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@gmail.com. Please note that some announcements of graduate course TA vacancies are tentative, pending final course determinations and enrolment and Assoc. Chair, Graduate Studies approval.

Department of Electrical and Computer Engineering	St. George	ECE1387HF	CAD for Digital Circuit Synthesis and Layout	22	Teaching Assistant	1	30	Sept 4, 2018 to Dec 31, 2018	TBA - https://www.ece.utoronto.ca/graduates/courses/timetable/	Knowledge of, and experience in, developing advanced computer-aided design (CAD) algorithms for field-programmable gate arrays (FPGAs) and ASICs; Software development skills in C/C++, including data structures; knowledge of optimization algorithms, graph algorithms; Complexity theory; Expertise in digital system/VLSI design.	Development of assignments and exercises and marking of assignments and exercises and course paper	May 31, 2018	June 27, 2018		$44.44 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 June 27, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@gmail.com. Please note that some announcements of graduate course TA vacancies are tentative, pending final course determinations and enrolment and Assoc. Chair, Graduate Studies approval.
Department of Electrical and Computer Engineering	St. George	ECE1388HF	VLSI Design Methodology	20	Teaching Assistant	1	30	Sept 4, 2018 to Dec 31, 2018	TBA - https://www.ece.utoronto.ca/graduates/courses/timetable/	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.	May 31, 2018	June 27, 2018		$44.44 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 June 27, 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	TBA - https://www.ece.utoronto.ca/graduates/courses/timetable/	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.	May 31, 2018	June 27, 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 June 27, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@gmail.com. Please note that some announcements of graduate course TA vacancies are tentative, pending final course determinations and enrolment and Assoc. Chair, Graduate Studies approval.
Department of Electrical and Computer Engineering	St. George	ECE1478HS	Lasers and Detectors	23	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	TBA - https://www.ece.utoronto.ca/graduates/courses/timetable/	The canadidate should be proficient with the topics covered in the course - Basic electromagnetics; Semiclassical light-atom interactions (classical field, 2 level atoms); Laser basics; Semiconductor lasers; Optical detection and noise. Preferably, the candidate	Grading of biweekly problem sets (5 in total) and partial grading of the final exam. Answer questions from students and provide assistance as needed.	May 31, 2018	June 27, 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 June 27, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at

Department	Campus	Course Code	Course Title	Enrol	Position	#	Hours	Session	URL	Qualifications	Duties	Posting Date	Closing Date		Salary	Application Instructions
Department of Electrical and Computer Engineering	St. George	ECE1501HF	Error Control Codes	18	Teaching Assistant	1	30	Sept 4, 2018 to Dec 31, 2018	TBA - https://www.ece.utoronto.ca/graduates/courses/timetable/	Solid graduate-level understanding of algebraic coding theory and error-control coding techniques	Grading problem sets and midterm exam	May 31, 2018	June 27, 2018		**$44.44 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 June 27, 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	ECE1505HF	Convex Optimization	31	Teaching Assistant	1	30	Sept 4, 2018 to Dec 31, 2018	TBA - https://www.ece.utoronto.ca/graduates/courses/timetable/	Solid background in optimization theory, algorithms and related subjects such as numerical linear algebra. It is preferred that applicants have successfully completed this course or its equivalent.	Grading problem sets and midterm exam	May 31, 2018	June 27, 2018		**$44.44 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 June 27, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@gmail.com. Please note that some announcements of graduate course TA vacancies are tentative, pending final course determinations and enrolment and Assoc. Chair, Graduate Studies approval.
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	TBA - https://www.ece.utoronto.ca/graduates/courses/timetable/	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.	May 31, 2018	June 27, 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 June 27, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@gmail.com. Please note that some announcements of graduate course TA vacancies are tentative, pending final course determinations and enrolment and Assoc. Chair, Graduate Studies approval.

Department	Campus	Course	Course Title	Enrol.	Position	No.	Hrs	Dates	Timetable	Qualifications	Duties	Posting Date	Closing Date		Rate	Instructions
Department of Electrical and Computer Engineering	St. George	ECE1657HF	Game Theory and Evolutionary Games	19	Teaching Assistant	1	30	Sept 4, 2018 to Dec 31, 2018	TBA - https://www.ece.utoronto.ca/graduates/courses/timetable/	Solid background in mathematical logic, linear algebra, systems and signals, game theory. Must have taken this course or equiv. in the past.	TA will assist the instructor with the preparation of homework, building solid problem solutions, the grading of the background in homework, projects and the exam.	May 31, 2018	June 27, 2018		$44.44 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 June 27, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@gmail.com. Please note that some announcements of graduate course TA vacancies are tentative, pending final course determinations and enrolment and Assoc. Chair, Graduate Studies approval.
Department of Electrical and Computer Engineering	St. George	ECE1747HF	Parallel Programming	42	Teaching Assistant	1	30	Sept 4, 2018 to Dec 31, 2018	TBA - https://www.ece.utoronto.ca/graduates/courses/timetable/	Applicants should have taken operating systems as an undergraduate and have superior knowledge of parallel programming.	Maintaining cluster accounts for students, answering questions on the bulletin board for one lab assignment and the course project, grading one lab assignment on a cluster of multi-core computers, helping the instructor with verifying the correctness of code submitted as part of the final project.	May 31, 2018	June 27, 2018		$44.44 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 June 27, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@gmail.com. Please note that some announcements of graduate course TA vacancies are tentative, pending final course determinations and enrolment and Assoc. Chair, Graduate Studies approval.
Department of Electrical and Computer Engineering	St. George	ECE1755HS	Parallel Computer Architecture and Programming	~25	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	TBA - https://www.ece.utoronto.ca/graduates/courses/timetable/	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.	May 31, 2018	June 27, 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 June 27, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@gmail.com. Please note that some announcements of graduate course TA vacancies are tentative, pending final course determinations and enrolment and Assoc. Chair, Graduate Studies approval.

Department	Campus	Course	Title					Dates	Location	Qualifications	Duties				Rate	Application Instructions
Department of Electrical and Computer Engineering	St. George	ECE1756HF	Reconfigurable Computing and FPGA Architecture	25		1	30	Sept 4, 2018 to Dec 31, 2018	TBA - https://www.ece.utoronto.ca/graduates/courses/timetable/	TA should have significant expertise in both the use of FPGAs and the design of the FPGA architecture itself. Strong HDL design skills, and extensive knowledge of the Quartus II and Model Sim CAD environments are required.	TA will assist in creation of assignments to perform computation and signal processing on FPGAs; develop test benches to exercise / confirm correctness of student assignments; create sample solutions, which will span a range of area vs. speed trade-offs; assist in creation of	May 31, 2018	June 27, 2018		**$44.44 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 June 27, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@gmail.com. Please
					Teaching Assistant											
Department of Electrical and Computer Engineering	St. George	ECE1762HF	Algorithms and Data Structures	76	Teaching Assistant	1	30	Sept 4, 2018 to Dec 31, 2018	TBA - https://www.ece.utoronto.ca/graduates/courses/timetable/	A strong background and academic record in algorithms and data structures. Being a previous student of the course is beneficial.	TA will assist the instructor by grading homework assignments, a midterm and final exam. The TA will also prepare tutorial sessions to answer student questions about homework assignments and exams	May 31, 2018	June 27, 2018		**$44.44 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 June 27, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@gmail.com. Please note that some announcements of graduate course TA vacancies are tentative, pending final course determinations and enrolment and Assoc. Chair, Graduate Studies approval.
Department of Electrical and Computer Engineering	St. George	ECE1770HS	Trends in Middleware Systems – Large-scale Data Management	30		1	30		TBA - https://www.ece.utoronto.ca/graduates/courses/timetable/	Proficient in middleware concepts, internet-scale distributed systems concepts, recent trneds in middleware, and socket programming	Assist in home work grading, project grading, organzing student teams, serve as point of contact for student teams, manage mailing list and online portal, and manage course web resources	May 31, 2018	June 27, 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 June 27, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@gmail.com. Please note that some announcements of graduate course TA vacancies are tentative, pending final course determinations and enrolment and Assoc. Chair, Graduate Studies approval.
					Teaching Assistant			Jan. 7, 2019 to April 30, 2019								

							1	30	Sept 4, 2018 to Dec 31, 2018	TBA - https://www.ece.utoronto.ca/ graduates/courses/timetable/	Candidate should have some background knowledge in the areas of computer networking, distributed systems, and/or cloud computing.	This job involves reading and grading paper critiques, midterm survey papers, final survey papers, as well as marking the final examination papers. In addition to the marks, the grading process of midterm and final survey papers involves providing adequate feedback to the students for possible improvements on the quality of the papers.	May 31, 2018	June 27, 2018		$44.44 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/un dergraduates/ta/ by June 27, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@gmail.com. Please note that some announcements of graduate course TA vacancies are tentative, pending final course determinations and enrolment and Assoc. Chair, Graduate Studies approval.
Department of Electrical and Computer Engineering	St. George	ECE1771HF	Quality of Service	33	Teaching Assistant												
Department of Electrical and Computer Engineering	St. George	ECE1774HF	Sensory Cybernetics	25	Teaching Assistant		1	30	Sept 4, 2018 to Dec 31, 2018	TBA - https://www.ece.utoronto.ca/ graduates/courses/timetable/	Understands material in ECE1774. Is familiar with solving neural entropy equation for various sensory inputs. Familiarity with psychophysics and evaluation of sensory function (reaction time, discrimination). Basic familiarity with detection theory and information theory.	Marking examinations and other duties as required by instructor.	May 31, 2018	June 27, 2018		$44.44 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/un dergraduates/ta/ by June 27, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@gmail.com. Please note that some announcements of graduate course TA vacancies are tentative, pending final course determinations and enrolment and Assoc. Chair, Graduate Studies approval.
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	TBA - https://www.ece.utoronto.ca/ graduates/courses/timetable/	Java Web programming experience; experience with Amazon Web Services; experience with Google AppEngine	Grade assignments; monitor bulletin board; provide technical support to students	May 31, 2018	June 27, 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/un dergraduates/ta/ by June 27, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@gmail.com. Please note that some announcements of graduate course TA vacancies are tentative, pending final course determinations and enrolment and Assoc. Chair, Graduate Studies approval.

Department	Campus	Course	Course Name	Hrs	Position	#	Hrs	Session	URL	Qualifications	Duties	Posting Date	Closing Date		Salary	Application
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	TBA - https://www.ece.utoronto.ca/ graduates/courses/timetable/	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.	May 31, 2018	June 27, 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/un dergraduates/ta/ by June 27, 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	TBA - https://www.ece.utoronto.ca/ graduates/courses/timetable/	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.	May 31, 2018	June 27, 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/un dergraduates/ta/ by June 27, 2018. If during the application
Department of Electrical and Computer Engineering	St. George	ECE1502HF	Information Theory	22	Teaching Assistant	1	30	Sept 4, 2018 to Dec 31, 2018	TBA - https://www.ece.utoronto.ca/ graduates/courses/timetable/	Candidates should have taken an introductory course in information theory. Prior experience TA-ing information theory a plus and prior experience as a TA a plus.	Duties include holding office hours, grading homeworks, making up exams, grading exams, stand-in lectures	May 31, 2018	June 27, 2018		$44.44 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/un dergraduates/ta/ by June 27, 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	ECE1521HS	Detection and Estimation Theory	17	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	TBA - https://www.ece.utoronto.ca/ graduates/courses/timetable/	Prefer a PhD student with experience in detection and estimation theory. Having taken ECE1521S a plus.	Overseeing tutorials and office hours and doing grading.	May 31, 2018	June 27, 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/un dergraduates/ta/ by June 27, 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	ECE1541HS	Communication Networks I	26	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	TBA - https://www.ece.utoronto.ca/ graduates/courses/timetable/	The applicant should have very strong mathematical skills, especially in probability and stochastic processes. Should have strong background in computer networks. Should have taken ECE1541 and received a high mark. Preference will be given to students registered in the PhD program.	Marking theoretical assignments, programming assignments, midterm, final, project, help with the design of the exams, to be available to run tutorials	May 31, 2018	June 27, 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/un dergraduates/ta/ by June 27, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@gmail.com. Please note that some announcements of graduate course TA vacancies are tentative, pending final course determinations and enrolment and Assoc. Chair, Graduate Studies approval.

Department	Campus	Course code	Course title	Enrol	Position	#	Hrs	Dates	URL	Qualifications	Duties	Posting	Closing		Salary	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	TBA - https://www.ece.utoronto.ca/graduates/courses/timetable/	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.	May 31, 2018	June 27, 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 June 27, 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	ECE1551HS	Mobile Broadband Radio Access	27	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	TBA - https://www.ece.utoronto.ca/graduates/courses/timetable/	Needs to have a solid understanding of wireless communications, cellular networks and communication systems, with the emphasis on OFDM/OFDMA. Additionally, candidate needs to have strong analytical and programming skills (Matlab is a must). Knowledge of RF propagation, link budgets and 3GPP standards (HSPA, LTE) are desirable, but not necessary. A strong preference will be given to PhD candidates.	Duties include grading, holding office hours, doing problem sets	May 31, 2018	June 27, 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 June 27, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@gmail.com. Please note that some announcements of graduate course TA vacancies are tentative, pending final course determinations and enrolment and Assoc. Chair, Graduate Studies approval.
Department of Electrical and Computer Engineering	St. George	ECE1653HF	Hybrid Systems and Control Applications	15	Teaching Assistant	1	30	Sept 4, 2018 to Dec 31, 2018	TBA - https://www.ece.utoronto.ca/graduates/courses/timetable/	PhD student in systems control; background in particularly hybrid systems, reach control; strong mathematical abilities	Help formulate homework problems and grade homeworks; tutorial sessions	May 31, 2018	June 27, 2018		**$44.44 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 June 27, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@gmail.com. Please note that some announcements of graduate course TA vacancies are tentative, pending final course determinations and enrolment and Assoc. Chair, Graduate Studies approval.
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	TBA - https://www.ece.utoronto.ca/graduates/courses/timetable/	C++/C programming. Verilog Synthesis to Custom Logic	Grade assignments. Develop/Update Assignments.	May 31, 2018	June 27, 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 June 27, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at

Department	Campus	Code	Course		Role				Dates	Location	Skills Required	Duties	Posting Date	Closing Date		Rate	Application Instructions
Department of Electrical and Computer Engineering	St. George	ECE1733HS	Topics in Switching Theory	39	Teaching Assistant	1	30		Jan. 7, 2019 to April 30, 2019	TBA - https://www.ece.utoronto.ca/graduates/courses/timetable/	Skills required for this position include programming knowledge (students will submit three programming assignments written in a language of their choice), and knowledge of the switching-theory topics that are listed above.	Marking assignments; tests and exam; other duties as required.	May 31, 2018	June 27, 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 June 27, 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	ECE1759HF	Advances in Operating Systems	46	Teaching Assistant	1	30		Sept 4, 2018 to Dec 31, 2018	TBA - https://www.ece.utoronto.ca/graduates/courses/timetable/	Have taken ECE1759 before and/or are familiar with the material via this link - http://www.eecg.toronto.edu/~yuan/teaching/gradOS/schedule.html; Have a solid understanding of Operating Systems; Have previously implemented an operating system	Grading, holding office hours.	May 31, 2018	June 27, 2018		$44.44 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 June 27, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@gmail.com. Please note that some announcements of graduate course TA vacancies are tentative, pending final course determinations and enrolment and Assoc. Chair, Graduate Studies approval.
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	TBA - https://www.ece.utoronto.ca/graduates/courses/timetable/	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	May 31, 2018	June 27, 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 June 27, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@gmail.com. Please note that some announcements of graduate course TA vacancies are tentative, pending final course determinations and
Department of Electrical and Computer Engineering	St. George	ECE1781HS	Dependable Software Systems	18	Teaching Assistant	1	30		Jan. 7, 2019 to April 30, 2019	TBA - https://www.ece.utoronto.ca/graduates/courses/timetable/	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.	May 31, 2018	June 27, 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 June 27, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at

Department	Campus	Course	Course Title				Hours	Session	Timetable	Qualifications	Duties	Posting Date	Closing Date		Salary	Application
Department of Electrical and Computer Engineering	St. George	ECE1782HS	Programming Massively Parallel Multiprocessors & Heterogeneous Systems	65		1	30		Jan. 7, 2019 to April 30, 2019	TBA - https://www.ece.utoronto.ca/graduates/courses/timetable/	Expertise in CUDA and OpenCL programming.	Grade assignments; Develop/Update Assignments.	May 31, 2018	June 27, 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 June 27, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@gmail.com. Please note that some announcements of graduate course TA vacancies are tentative, pending final course determinations and enrolment and Assoc. Chair, Graduate Studies approval.
								Teaching Assistant									
Department of Electrical and Computer Engineering	St. George	ECE1085HS	Power System Optimization	25		1	30		Jan. 7, 2019 to April 30, 2019	TBA - https://www.ece.utoronto.ca/graduates/courses/timetable/	Applicants should be familiar with the formulation and solution of the power system operation problems identified in the course description (i.e., optimal dispatch, unit commitment, and state estimation) and have extensive experience with MATLAB programming. Students who have taken ECE1085 in previous semesters or have experience with YALMIP are especially encouraged to apply. PhD TA is preferred.	The main duties for this course will be grading and providing students with support for homework assignments.	May 31, 2018	June 27, 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 June 27, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@gmail.com. Please note that some announcements of graduate course TA vacancies are tentative, pending final course determinations and enrolment and Assoc. Chair, Graduate Studies approval.
								Teaching Assistant									
Department of Electrical and Computer Engineering	St. George	ECE1228F	Electromagnetic Theory	25		1	30	Sept 4, 2018 to Dec 31, 2018		TBA - https://www.ece.utoronto.ca/graduates/courses/timetable/	ECE1228 or equivalent Aside from a graduate level knowledge of electromagnetic theory applicant must be familiar with: Principles of Dispersion Engineering Principles of periodic structures, e.g. 1DPC Asymptotic analysis Spectra decomposition Reflection and transmission through multilayers	Marking homework Marking quizzes Marking midterm exam Help with marking final exam	May 31, 2018	June 27, 2018		$44.44 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 June 27, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@gmail.com. Please note that some announcements of graduate course TA vacancies are tentative, pending final course determinations and enrolment and Assoc. Chair, Graduate Studies approval.
								Teaching Assistant									

Department	Campus	Course	Course Title					Dates	URL	Qualifications	Duties				Rate	Description
Department of Electrical and Computer Engineering	St. George	ECE1776F	Computer Security, Cryptography and Privacy	25		Teaching Assistant	1	30	Sept 4, 2018 to Dec 31, 2018	TBA - https://www.ece.utoronto.ca/ graduates/courses/timetable/	Either taken both and TA's ECE568 before and taken ECE1776 before or TA's ECE568 multiple times and taken ECE1776 before. Should be familiar with Theano and Cleverhans.	Creatiing lab assignments, grading lab assignments aiding students with questions	May 31, 2018	June 27, 2018		$44.44 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/un dergraduates/ta/ by June 27, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@gmail.com. Please note that some announcements of graduate course TA vacancies are tentative, pending final course determinations and enrolment and Assoc. Chair, Graduate Studies approval.
Department of Electrical and Computer Engineering	St. George	ECE1030S	Space Vector Theory and Control	15	Teaching Assistant		1	30	Jan. 7, 2019 to April 30, 2019	TBA - https://www.ece.utoronto.ca/ graduates/courses/timetable/	PhD level student with extensive experience on control of motor drives and control of flexible AC transmission systems equipment. Experience with Linux-based real time control hardware & software. Past experience working higher voltage systems, up to at least 400V is a core requirement.	Lead graduate level laboratory, provide technical guidance on configuration of power electornic systems and motor drives, Support coding of digital controllers for power electronic systems and motor drives. Provide safety assessment of student proposed circuits and ensure safety protocols are followed throught the lab.	May 31, 2018	June 27, 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/un dergraduates/ta/ by June 27, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@gmail.com. Please note that some announcements of graduate course TA vacancies are tentative, pending final course determinations and enrolment and Assoc. Chair, Graduate Studies approval.

Department	Campus	Course	Title	Hours	Position	No.	Hours	Dates	Location	Qualifications	Duties	Posting Date	Closing Date		Rate	Application Instructions
Electrical and Computer Engineering	St. George	ECE1718S	Hardware-Accelera	12	Teaching Assistant	1	30	Jan. 7, 2019 to April 30, 2019	TBA - https://www.ece.utoronto.ca/graduates/courses/timetable/	The applicant must have strong hands-on skills, such as software programming as well as hardware development and verification. Familarity with dataflow programming models and interfacing with hardware IP's through APIs/SDKs is a big plus	For this new course, the TA will be required to go through the detailed course description to make sure that the high-level structure of the assignments is well-understood, and to provide feedback to the instructor; In coordination with the lab manager, make sure that the designated lab has all hardware and software that is necessary for the assignments; Help the instructor with the assignment(s) preparation in an iterative process through constant provision of feedback about the suggested description, and developing samples that help to early-assess the difficulty	May 31, 2018	June 27, 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 June 27, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@gmail.com. Please note that some announcements of graduate course TA vacancies are tentative, pending final course determinations and enrolment and Assoc. Chair, Graduate Studies approval.
Department of Electrical and Computer Engineering	St. George	ECE1504F	Statistical Learning	TBA	TA	1	60	Sept 4, 2018 to Dec 31, 2018	TBA - https://www.ece.utoronto.ca/graduates/courses/timetable/	The TA should have a solid experience using tensorflow for doing assignments involving Convolutional Neural network, Recurrent Neural Network and Reinforcement Learning	The TA will oversee and mark programming assignments for the course	May 31, 2018	June 27, 2018		$44.44 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 June 27, 2018. If during the application and/or selection process you require accommodation due to a disability, please contact Jayne Leake at jayne.leake@gmail.com. Please note that some announcements of graduate course TA vacancies are tentative, pending final course determinations and enrolment and Assoc. Chair, Graduate Studies approval.