EMERGENCY TA Job Posting: APS1070H - Foundations of Data Analytics and Machine Learning

This job is posted in accordance with the CUPE 3902 Unit 1 Collective Agreement.

Job Posting Date: November 10, 2021
Application Deadline: November 22, 2021 (9am)

Estimated course enrollment: ~150

Course Description:
This course covers topics fundamental to data analytics and machine learning, including an introduction to Python and common packages, probability and statistics, matrix representations and fundamental linear algebra operations, basic algorithms and data structures and continuous optimization. The course is structured with both weekly lectures and tutorials/help sessions – this course will be delivered online

Winter 2022 Positions:

Winter Schedule: ONLINE, Jan 11 – April 8, Synchronous delivery, Section 1: Tuesdays 12-3pm | Tut: Thursdays 1-3pm ; Section 2: Weds, 9-12pm | Tut: Friday 9-11am

Tutor/Marker: 85 hours (2 positions)

Duties:
APS1070 Tutor/Markers will tutor students in help sessions, respond to student questions (emails and Q&A forum) and mark course projects and other evaluations.

Qualifications:
Proficiency in Python and manipulating large datasets. Understanding of, and interest in, data science. Must be capable of working independently. Must have strong communication skills.

Must be able to be recorded on video if necessary, as part of online course delivery and support to students.

Relevant Criterion: Previous experience is the more relevant criterion in respect of the posted position.

Date of Appointment: Jan 2022 – April 2022
Rate of Pay: Current TA rates: U/G: $47.17/hour; SGS I: $47.17/hour; SGS II: $47.17/hour

For more information about this course, see https://gradstudies.engineering.utoronto.ca/professional-degrees/emphasis-in-analytics/

Notes:
1. TA position and hours posted are tentative, pending final course determination and enrollment.
2. The Vice-Dean of Graduate Studies in the Faculty of Applied Science & Engineering has the sole authority to offer the above TA positions.
3. CUPE 3902 Unit 1 Collective Agreement is available at http://agreements.hrandequity.utoronto.ca.

To apply for a TA position, please submit your application via this form. If this link does not work please email your application (CV and Resume as a SINGLE PDF FILE) directly to David Duong d.duong@utoronto.ca by November 23, 2021 (9am)

EMERGENCY TA Job Posting: Winter 2022 APS1080: Introduction to Reinforcement Learning

This job is posted in accordance with the CUPE 3902 Unit 1 Collective Agreement.

Course Description:
Reinforcement Learning (RL) is a systems-level Artificial Intelligence toolset; this course will provide the student with both a solid theoretical foundation and a strong practical understanding of the subject. RL enables autonomous agents to cope with poorly-characterized, novel environments by exploring the environment to gain knowledge about it, and to exploit this knowledge of the environment to act in a goal-directed manner. Although RL is positioned as one of three facets of Machine Learning, RL has far broader scope than the narrower tools of supervised and unsupervised learning. RL, being founded on agent design, has the goal of developing artificial intelligence schemes that can endow an agent with autonomy. This introduction, thus, will be presented within the motivating context of an overall AI system. There are three foundational RL tools we will cover (dynamic programming, Monte Carlo, Temporal-Difference Learning); we will also show how hybridizations of these foundational tools are employed to create production schemes. The student should leave the course with the ability to practically apply this AI toolset to novel problems.
This course is taught online.

2 positions Available – 30 Hours
Duties: developing solutions for assignments and tests, grading assignments and tests

Qualifications: very strong Python programming skills, knowledge of machine learning, linear algebra, calculus, probability, some knowledge of reinforcement learning and AI, must be able to TA online

Relevant criterion: Previous experience is the more relevant criterion than the need to acquire experience in respect of this posted position.

Rate of Pay: Current TA rates: U/G: $47.17/hour; SGS I: $47.17/hour; SGS II: $47.17/hour

For more information about this course, see https://gradstudies.engineering.utoronto.ca/professional-degrees/emphasis-in-analytics/

Notes:

1. TA position and hours posted are tentative, pending final course determination and enrollment.
2. The Vice-Dean of Graduate Studies in the Faculty of Applied Science & Engineering has the sole authority to offer the above TA positions.
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- The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from racialized persons / persons of colour, women, Indigenous / Aboriginal People of North America, persons with disabilities, LGBTQ2S+ persons, and others who may contribute to the further diversification of ideas.

- Candidates who are members of Indigenous, Black, racialized and LGBTQ2S+ communities, persons with disabilities, and other equity seeking groups are encouraged to apply, and their lived experience shall be taken into consideration as applicable to the position.

- The University strives to be an equitable and inclusive community, and proactively seeks to increase diversity among its community members. Our values regarding equity and diversity are linked with our unwavering commitment to excellence in the pursuit of our academic mission. The University is committed to the principles of the Accessibility for Ontarians with Disabilities Act (AODA). As such, we strive to make our recruitment, assessment and selection processes as accessible as possible and provide accommodations as required for applicants with disabilities. If you require any accommodations at any point during the application and hiring process, please contact uoft.careers@utoronto.ca. During employment, to request
accommodation from the University, contact the supervisor or department chair and/or Health & Wellbeing
Programs & Services at hwb@utoronto.ca. For more information about accommodations at U of T, please
visit our Accommodation webpage.

- Duties of this position shall be performed at the campus on which the position is located. Where the duties
are intended to be performed at another location, such other location will be specified in the posting.

- “The hiring Criteria for Teaching Assistant positions are academic qualifications, the need to acquire
experience, previous experience and previous satisfactory employment under the provisions of this
Collective Agreement.” OR “The hiring criteria for Course Instructors positions are academic qualifications,
the need to acquire experience, previous teaching experience and previous satisfactory employment under
the provisions of this Collective Agreement.” (as applicable)

- This job is posted in accordance with the CUPE 3902 Unit 1 Collective Agreement.

- Positions posted here are open to Graduate Students in the School of Graduate Studies, Postdoctoral Fellows
and Undergraduate Students in the University of Toronto.

- FOR TA’s ONLY: Preference in hiring shall be given to Graduate Students enrolled in the School of Graduate
Studies of the University of Toronto or those who have made application to be enrolled in the School of
Graduate Studies of the University of Toronto.