DEPARTMENT OF CHEMICAL AND PHYSICAL SCIENCES, UNIVERSITY OF TORONTO MISSISSAUGA

FALL SESSION – 2020: Sep 2020 to Dec 2020 – CUPE 3902, Unit 1 Course Instructor Job Posting (closing: July 1st, 2020)

The following Course Instructor position is available in the Department of Chemical and Physical Sciences, Discipline of Physics for the Fall 2020 Session. Applications are welcome during the posting period. These jobs are posted in accordance with the CUPE3902 Unit 1 Collective Agreement. Send a cover letter and CV addressed to: Professor Lindsay Schoenbohm, Chair, Department of Chemical and Physical Sciences, University of Toronto Mississauga, 3359 Mississauga Road, Mississauga, ON L5L 1C6; by e-mail in PDF format to: cpssljobs.utm@utoronto.ca.

Please note that, in keeping with current circumstances, this course may be delivered in-person, remotely/online, or by a combination of delivery methods as determined by the University at a later date.

In accordance with the current CUPE3902 Unit 1 Collective Agreement, the Course Instructor rate of pay will be $8,219.16 (inclusive of vacation pay) for a half course (0.5 FCE). The position(s) listed are for Fall 2020 Session: Sep 2020 to Dec 31, 2020; note: all positions involve the completion of any course grading not finished by the academic term/session in which they are taught. Course Timetables are available or will be published soon on: https://student.utm.utoronto.ca/timetable/

Notes:
- M, T, W, R, F signify Monday, Tuesday, Wednesday, Thursday, Friday.
- The position(s) posted are tentative, pending final course determinations and enrollments.
- Department Statement of Policy on Hiring regarding appointments is available at the UTM Campus, Department of Chemical & Physical Science and the CUPE 3902 office.
- This job(s) is (are) posted in accordance with the CUPE3902 Unit 1 Collective Agreement. Collective Agreements: http://agreements.hrandequity.utoronto.ca/

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<th>Course Number/Title/Description</th>
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<td>PHY325H5 Mathematical and Computational Physics (SCI)</td>
<td>LEC 0101 WE 9 am - 11am PRA 0101 F 2 pm – 3 pm</td>
<td>40</td>
<td>1 Marker (dependent on enrolments)</td>
<td>All normal duties related to the design and teaching of a university credit course, including preparation and delivery of course content, development, administration and marking assignments, tests and exams; calculation and submission of grades; holding regular office hours.</td>
<td>Ph.D. (in progress or completed) in Physics. Previous experience teaching upper level Mathematical Physics and Computational Physics courses is preferred. The applicant should have a thorough understanding of the theoretical concepts covered in the course, both mathematical and computational, as well as proficiency in scientific programming within the Python language (numpy, scipy, matplotlib, etc.). Since this is an applied mathematics course, and many of the examples/topics will have their origin in Quantum Mechanics and/or Statistical Physics, applicants must show they have in-depth knowledge of these topics by receiving high marks in the respective graduate courses. This course also serves as preparation for our upper level Quantum Mechanics and Statistical Mechanics courses, so an ability to connect the subject material to these physics topics is essential. Must have completed following grad courses:</td>
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