

Department/School	Physics, CPES
Bargaining Unit	CUPE 3913, Unit 2
Course Name and Number	PHYS*4180, Advanced Electromagnetic Theory
Projected Class Enrolment (if available)	21
Level of Appointment (i.e. full/part time)	Full-time
Start Date	September 10, 2009
End Date	December 23, 2009
Salary	\$6,356.25 - \$7,056.25
Number of Semesters	1
Number of Positions	1
Assignment Carries Right of First Refusal as per Letter of Understanding # 3	YES <u> X </u> NO

Anticipated Duties/Responsibilities

The primary responsibility of the sessional instructor is to teach a fourth year level physics course on Maxwell’s equations, Lorentz-Force Law, Conservation of charge and energy, potentials, gauge transformations, wave equations, Green’s functions, Electrostatics and magnetostatics, motion of charge particles in electromagnetic fields, propagation and generation of electromagnetic waves. Required Text (tentative): Pollack Stump, “Electromagnetism” Addison Wesley, 2002.

- Orientation/Training - 16 hours -
- Preparation - 72 hours
- Lecturing 36 hours
- Grading - 14 hours
- Office Hours 14 hours
- Student Consultation
- Meetings with the Chair 2 hours
- Exam Preparation 3 hours
- Invigilating Exams (April): 1 x 3 hours = 3 hours

Lecture Times: LEC 1: MWF 11:30 a.m. – 12:20 p.m.

Required Qualifications: **The successful applicant must hold a PhD in Physics.**

Preferred Qualifications: **Prior teaching experience at the undergraduate level is desirable.**

Where to Obtain/Send Applications: R. Vallillee, Administrative Assistant, Department of Physics, MacNaughton Rm, 207

Application Deadline: August 4, 2009

Date Posted: July 22, 2009 Signature: _____

The University of Guelph is committed to an employment equity programme that includes special measures to achieve diversity among its faculty and staff. We therefore particularly encourage applications from members of historically disadvantaged groups.