



M.Sc. Position -- Noble Metal Nanoparticles Synthesis and Surface Functionalization

University of Prince Edward Island

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Job Title: M.Sc. Position -- Noble Metal Nanoparticles Synthesis and Surface Functionalization
Department: Chemistry Department
Institution: University of Prince Edward Island
Charlottetown, Prince Edward Island

Date Posted: Sep. 18, 2009

Application Deadline: Nov. 18, 2009

Position Start Date: Jan. 1, 2010

Job Categories: Post-Doc
Graduate Student

Academic Field(s): Chemistry - Biochemistry
Chemistry - Analytical
Biology - Molecular
Biology - Cell Biology
Biology - Biochemistry
Sciences - General
Chemistry - Inorganic
Physics - General
Physics - Atomic/Molecular/Optical/Plasma

Job Description:

An M.Sc. vacancy must be filled (with a possibility of extension to the Ph.D. level) and is based in the Chemistry Department of the University of Prince Edward Island (UPEI), Canada.

UPEI offers graduate programs in Veterinary Medicine, Education, Arts, Science and Business.

Small class sizes, shared learning and collegial relationships with professors and classmates all provide the opportunity for meaningful and creative learning and research at the graduate level.

The project involves the fabrication of various types of noble metal nanoparticles which will be used as exogenous agents for optical and optoacoustic imaging modalities, to improve targeting of photothermal cancer therapies. This will involve a series of fundamental studies of linear and nonlinear optical properties and the optimization of composition/structure, for enhancing optical nonlinearities and metal surface functionalization, in the development of biomedical interfaces for therapeutic and diagnostic purposes.

The potential candidate is expected to have a solid background in colloidal chemistry, chemistry of gold and



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surface functionalization, as well as experience in nanoparticle synthesis, knowledge of biology and excellent laboratory skills.

The work will require a close cross-departmental (Chemistry, Physics and Biology) collaboration.

Personal Skills: Highly motivated, well-organized and creative.

Contact:

Dr. William Whelan

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Contact Information:

Please reference AcademicKeys.com in your cover letter when applying for or inquiring about this job announcement.

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