

# Chemistry Notices

For the Weeks of December 19 to December 30, 2011

## EMPLOYMENT OPPORTUNITIES

### **Faculty of Science - Assistant or Associate Professor, Pharmaceutical Chemistry - UOIT11-156**

**Competition Number: UOIT11-156**  
**Faculty of Science – Pharmaceutical Chemistry Professor**  
**Posting Date: November 28, 2011**  
**Closing Date: January 1, 2012**  
**Appointment: Full-time Continuing**

We invite you to consider joining UOIT's globally trained faculty as we further our reputation as a leading-edge learning and innovative research environment. UOIT has a 21st-century vision of teaching excellence at the undergraduate and graduate levels. At UOIT, we offer honours undergraduate degrees in chemistry with both bioorganic and pharmaceutical chemistry specializations. At the graduate level, we offer MSc and PhD degrees in both our applied bioscience and materials science graduate programs. Our educational philosophy is to challenge, encourage innovation, and connect our faculty, students and the community, while respecting the best practice traditions of Canada's established universities.

The Faculty of Science invites applications for a core faculty position in the chemistry program in the Faculty of Science. The appointment will be a tenure-stream or tenured position at the Assistant or Associate rank. This position is subject to budgetary approval, and would start at a mutually agreeable time, preferably no later than August 2012.

Applicants should possess a Ph.D. in Chemistry (with expertise in medicinal chemistry, chemical biology, synthetic organic chemistry or a related area) and a strong academic background with demonstrated achievement in teaching and research.

The successful candidate will have a demonstrated ability to develop and provide high quality curriculum; excellent communication skills; a willingness to work collegially; and be expected to play an integral role in the growth, development and identity of the chemistry program and the faculty of science. In keeping with a technology-enhanced learning environment utilizing laptop computers and wireless connectivity, UOIT seeks faculty members who will utilize a technology-enhanced learning approach, and who strive to explore and develop new pedagogies.

Applications will be accepted until January 1, 2012 or until suitable candidates are found. Applicants should submit in electronic format, a covering letter; a curriculum vitae including a list of publications; a statement of teaching interests; an outline of present and future research agendas; and 3 letters of recommendation to [careers@uoit.ca](mailto:careers@uoit.ca), with competition number UOIT 11-156 and the applicant's name in the subject line.

UOIT is an equal opportunity employer and welcomes applications from qualified women and men, including members of visible minorities, Aboriginal peoples and persons with disabilities. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

# EMPLOYMENT OPPORTUNITIES, *continued*

## Faculty of Science - CRC Tier II, Forensic Science - UOIT 11-158

**Competition No:** UOIT11-158

**Faculty or Department:** Faculty of Science

**Position Title:** Canada Research Chair (Tier II) in Forensic Science

**Appointment Type:** Assistant or Associate Professor

**Salary Range:** Commensurate with qualifications and experience

**Posting Date:** November 29, 2011

**Closing Date:** January 31, 2012

The Faculty of Science at the University of Ontario Institute of Technology (UOIT) invites applications for a Tier II Canada Research Chair (CRC) appointment. The Faculty is seeking an exceptional emerging researcher with potential to lead the field related to Forensic Biology or Forensic Chemistry. The candidate should meld cutting edge technique with innovative questions in Forensic Science. The CRC will also inform the ongoing growth and development of the Applied Biosciences graduate program. Candidates with collaborative and/or interdisciplinary research experience are preferred.

As an innovative university, UOIT delivers a leading-edge learning environment that uniquely combines academic knowledge, research opportunities, hands-on skills and a vibrant student life. The vision for research at UOIT is to be committed to and engaged in academic and research activities of national and international standards, especially those activities with strong potential to address issues of local, regional, national, and global significance. Research activity at this young university has grown dramatically with a research profile that is both competitive with, and distinct from, other Canadian universities. UOIT's commitment to research excellence has resulted in millions of dollars in grants and awards, including nine Canada Research Chairs. For detailed information please visit: [http://research.uoit.ca/EN/main/about\\_research/fast\\_facts.html](http://research.uoit.ca/EN/main/about_research/fast_facts.html).

The university's more than 8400 undergraduate and graduate students are taught by professors who are experts in their fields from around the world. As Ontario's first laptop-based university, UOIT offers a diverse array of challenging undergraduate and graduate degree programs through its faculties of Business and Information Technology; Education; Energy Systems and Nuclear Science; Engineering and Applied Science; Health Sciences; Science; and Social Science and Humanities.

The Faculty of Science is committed to excellence and innovation in technology-enhanced interdisciplinary research and teaching, which is relevant to the needs of society and our surroundings. The Faculty of Science promotes these ideals by emphasizing the integration of knowledge and technology to provide learning and research opportunities for students. Undergraduate programs offered through the Faculty include programs in Biological Science, Chemistry, Computing Science, Forensic Science, Mathematics, and Physics. Within these disciplines, programs are tailored and include innovative programs such as Applied and Industrial Mathematics, Forensic Science and Pharmaceutical Chemistry. Graduate studies in the Faculty of Science offer students the opportunity to complete an MSc and/or PhD in Applied Bioscience, Computer Science, Materials Science (offered in conjunction with Trent University), and Modelling and Computer Science.

The CRC candidate must hold a PhD in a relevant discipline and should demonstrate extensive research experience in either Forensic Biology or Forensic Chemistry. It is essential that the candidate demonstrate commitment to research excellence, have the ability to develop collaborative research partnerships, the ability to conduct a dynamic and world-class research program, and exhibit strong teaching and communication skills. Appointment to this tenured or tenure-track faculty position will be at the Assistant or Associate Professor level, commensurate with the qualifications of the successful applicant.

Review of applications will begin on February 1, 2012 until a suitable candidate is found. Applicants should submit in electronic format a curriculum vitae including a list of publications, statements of research and teaching interests, and three letters of reference to [careers@uoit.ca](mailto:careers@uoit.ca) with the applicant's name and the competition number in the subject line.

UOIT is an equal opportunity employer and welcomes applications from qualified women and men, including members of visible minorities, Aboriginal peoples and persons with disabilities. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. Canada Research Chairs are subject to review and approval by the CRC Secretariat. Further details on the CRC Program can be viewed at <http://www.chairs.gc.ca>

## EMPLOYMENT OPPORTUNITIES, *continued*

A postdoctoral position is available in the laboratory of Prof. Maria DeRosa at Carleton University in Ottawa and will commence in early 2012 (although start date can be flexible). This position involves the characterization of mycotoxin-binding aptamers and their integration into low-cost assays. Applicants need to have a background either in biosensor/bioassay development or nucleic acid chemistry. Experience with in vitro selections and development of nucleic acid-based assays, in particular lateral flow assays, are an asset. The position is available for one year with the possibility of renewal depending upon mutual agreement. The salary will be in line with current NSERC standards.

Please direct all enquiries and application packages, which should include a cover letter, curriculum vitae and the contact information for three references, to Maria C. DeRosa by email at [maria\\_derosa@carleton.ca](mailto:maria_derosa@carleton.ca)<[mailto:maria\\_derosa@carleton.ca](mailto:maria_derosa@carleton.ca)>.

A selection process will begin immediately and applications will be considered until a suitable candidate is found. Only those being considered will be contacted.

### University of Florida Post Doc Position

This is an externally-funded postdoc position. Below is the job description. Please send me your CV, brief description of your research interest, and the names of references by email ([hfan@ufl.edu](mailto:hfan@ufl.edu)). If you have any question, please send me an email or call me (Dr. Hugh Fan) directly.  
Telephone: 352-846-3021

#### Job description:

Responsible for developing chip-based analytical methods, characterizing microfluidic devices, and applying microfluidics to biological applications.

#### Requirements:

1. Ph.D. in a science or engineering field related to the work.
2. Experience with microfabrication, surface chemistry, immunoassay, detection is desirable.
3. Ability to work independently with minimal supervision, attention to detail, and willingness to take on new challenges. Good writing and interpersonal skills.

# EMPLOYMENT OPPORTUNITIES, *continued*



Department of Chemistry  
Faculty of Arts and Science

## **Professor in Bio-organic Chemistry**

The Department of Chemistry invites applications for a full-time tenure-track assistant professor in the areas of bio-organic chemistry, biomolecular synthesis or chemical biology.

### **Responsibilities**

The successful candidate will be expected to teach at all three levels of the curriculum, supervise graduate students, perform and publish innovative research, and contribute to the academic life and reputation of the University.

### **Requirements**

- PhD in chemistry or biochemistry with specialization in bio-organic chemistry, biomolecular synthesis or chemical biology.
- Post-doctoral studies and in-depth knowledge in the area.
- Strong commitment to excellence in teaching.
- Capacity to develop a rigorous and original research program.
- Evidence of excellence in publication record.
- Intent to develop proficiency in the French language. The Université de Montréal is a Québec university with an international reputation. French is the language of instruction. In accordance with the institution's language policy [[http://www.direction.umontreal.ca/secgen/recueil/politique\\_linguistique.html](http://www.direction.umontreal.ca/secgen/recueil/politique_linguistique.html)], the Université de Montréal provides support for newly-recruited faculty to attain proficiency in French.

### **Salary**

The Université de Montréal offers a competitive salary and a complete range of employee benefits.

### **Starting Date**

From June 1, 2012

# EMPLOYMENT OPPORTUNITIES, *continued*

## POSTDOCTORAL POSITION IN THEORETICAL/COMPUTATIONAL CHEMISTRY OF NOVEL SPECIES (CANADA)

Postdoctoral position is available immediately in the UOIT (University of Ontario Institute of Technology) Faculty of Science.

The UOIT is located in the city of Oshawa about 1 hour drive from Toronto (Ontario), and is well serviced by public transit (bus and train).

The NSERC-funded project involves computational investigation of the structure and properties of unique core-shell species composed of metal cluster cages filled with molecules (interacting either covalently or noncovalently).

The work is aimed at cluster structure and property modification and design, with potential applications including tunable catalysis, molecular storage, reactions steered and promoted in confined environment.

Examples can be found in the following recent papers:

J. Phys. Chem. A 115 (2011) 12105,

Chem. Phys. Lett. 466 (2008) 44,

J. Phys. Chem. A 112 (2008) 4660.

The position is for one year with a possible extension for another year by mutual agreement.

Potential candidates should have Ph.D in Chemistry, Physics, or related discipline, as well as experience in atomic and molecular electronic structure, and in ab initio calculations of polyatomics using modern quantum chemistry software. Previous experience in modelling cluster systems is a plus, and programming skills are an advantage.

Interested candidates should send (preferably by e-mail) their CV and Publication list, and addresses (including e-mail) of 2-3 persons willing to supply a recommendation letter, and are welcome to direct enquiries for further information to:

Dr Fedor Naumkin  
Associate Professor  
Faculty of Science  
UOIT  
Oshawa, ON, L1H 7K4  
Canada  
E-mail: [fedor.naumkin@uoit.ca](mailto:fedor.naumkin@uoit.ca)