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**FACULTY OF VETERINARY MEDICINE**

**Postdoctoral Research Scholarships**

The University of Calgary is a leading Canadian university located in the nation’s most enterprising city. Named a cultural capital of Canada and one of the best places to live in the world, Calgary enjoys more days of sunshine than any other major Canadian city and is less than an hour’s drive from the majestic Rocky Mountains. The Faculty of Veterinary Medicine at the University of Calgary (UCVM) is unique amongst veterinary colleges world-wide in sharing the Health Sciences Centre with the Faculty of Medicine, ensuring and fostering interaction and collaboration between animal and human health researchers and professionals.

The Faculty of Veterinary Medicine invites applications for five new postdoctoral scholars:

**Characterization of adult human dermal stem cells and bioprocess development to improve wound-healing.**

Supervisor: Dr. Jeff Biernaskie — ucalgary.ca/biernaskie

**Population genomic approaches to investigate drug resistance in parasitic helminths.**

Supervisor: Dr. John Gilleard — ucalgary.ca/jsgilleard

**Animal sentinels of health effects from exposure to oil- and gas-related contaminants in Alberta.**

Supervisor: Dr. Judit Smits — vet.ucalgary.ca/profiles/judit-smits

**Control of chronic pain following brain injury.**

Supervisor: Dr. Patrick Whelan — ucalgary.ca/whelanlab

**Investigating the biochemistries of antigen processing.**

Supervisor: Dr. Robin Yates — ucalgary.ca/yateslab

Applicants should clearly specify the project to which they are applying and submit a curriculum vitae, a letter of application outlining research experiences and aspirations, and the names and contact information for at least three referees to ucvm@ucalgary.ca.

Consideration of applications will continue until the position until the positions are filled between now and March 30, 2013.

ucalgary.ca/careers

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The University of Calgary is a leading Canadian university located in the nation’s most enterprising city. The university has a clear strategic direction to become one of Canada’s top five universities by 2016, where research and innovative teaching and learning go hand in hand, and where we fully engage the communities we both serve and lead. This strategy is called Eyes High, inspired by the university’s Gaelic motto, which translates as ‘I will lift up my eyes.’
Opportunities for YOUNG GROUP LEADERS in Biomedical Research at the Spanish National Centre for Cardiovascular Research CNIC, Madrid - Spain

The CNIC is dedicated to excellence in cardiovascular research and to translating new knowledge into real improvements in clinical practice.

The scientific project of the centre has been structured in three areas:
- Cardiovascular Development and Repair Department (CDR)
- Vascular Biology and Inflammation Department (VBI)
- Epidemiology, Atherothrombosis and Imaging Department (EAI)

To be eligible, candidates must:
- Hold a PhD/MD degree
- Demonstrate a minimum of three years’ postdoctoral/MD experience in centres of international reference
- Candidates must not have resided or carried out their main activity in Spain for more than twelve months in the last three years

The CNIC can offer you:
- A 3-year contract
- An internationally competitive salary
- Contribution to research and training
- State of the art infrastructure and latest generation of technological equipment
- Scientific-technical support and complementary training

Deadline for submission of proposals: 04 April 2013.

CNIC is an inclusive, equal opportunity employer, irrespective of nationality, ethnic origin, gender, marital or parental status, sexual orientation, creed, disability, age or political belief. Confidentiality is guaranteed throughout the selection process and all current regulations relating to the protection of personal data will be strictly adhered to.

For further information and applications, please, visit www.cnic.es
The Faculty of Medicine of the University of Geneva is seeking to fill a position of:

ASSOCIATE or ASSISTANT PROFESSOR in the Section of fundamental medicine (host-pathogens interactions)

CHARGE: This full-time position will involve undergraduate and postgraduate teaching in host-pathogens interactions, preferably in virology, as well as supervising Masters' and doctoral theses. The incumbent will undertake research in this area at the highest national and international levels and secure external funding. He/She will also take up administrative and organizational duties within the Department of microbiology and molecular medicine and the Faculty of Medicine.

The incumbent is also expected to show the capacity to carry out a transversal mission through strong collaboration with partner services.

REQUIREMENTS:
- Doctorate of Medicine (MD), PhD or equivalent degree
- Full postgraduate training in microbiology is an advantage.
- Previous teaching and independent research experience.
- Publications in leading international journals.
- Good knowledge of French within two years.

STARTING DATE: October 1st, 2013 or according to agreement.

Mandatory online registration before March 22nd, 2013 at: http://www.unige.ch/academ + paper application to be sent to:

The Dean of the Faculty of Medicine
CMU, 1 rue Michel-Servet
1211 Genève 4 – Switzerland

More information: sylvia.deraemy@unige.ch

Women are encouraged to apply

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The Alberta Prion Research Institute is calling for nominations of junior researchers for the APRI International Young Researcher Prize.

NOMINATION DEADLINE IS MARCH 15

$25,000 Prize

WINNER WILL SPEAK AT
PRION 2013, MAY 26-29
BANFF, ALBERTA, CANADA
PRION2013.CA

FOR MORE INFORMATION, VISIT:
prion institute.ca/APRI-IYRP
Tenure-Track Faculty Positions
Assistant/Associate/Full Professor
Cluster Hire in CyberScience: Computational Biology
The Pennsylvania State University

This search is part of a Penn State CyberScience Cluster Hire in Computation and Data-Enabled Science and Engineering (see http://www.icse.psu.edu/hire.html). Penn State has embarked on a transformative cluster hiring initiative in cyberscience (computation- and data-enabled science and engineering), coordinating multiple faculty appointments across colleges to develop new functional capabilities centered on data, models and simulation for deeper insights into critical problems in science and engineering. We seek outstanding faculty who can work across disciplines and in a team to advance algorithms, software and theory to exploit “Big Data” and “Big Simulations” for scientific discovery in a variety of disciplines. Multiple positions at any academic rank are available.

As part of this initiative, several departments in the Eberly College of Science are conducting a combined search for computational biology. Participating departments are Biochemistry and Molecular Biology, Biology, Statistics, Mathematics and Physics. Our goal is to appoint outstanding faculty utilizing large-scale computation and data-intensive methods and interdisciplinary approaches to advance functional genomics, evolutionary biology, population genomics, genotypetype-phenotype relationships, biological networks, bioinformatics, and other areas of biology.

Applications should be submitted as a single pdf document via email to Traci Shimmel (tshimmel@psu.edu). Document should include the letter of application, CV, a brief description of research plans, and contact information of three referees. PLEASE SPECIFY JOB NUMBER 38704. Review of applications will begin immediately and continue until positions are filled.

Employment will require successful completion of background check(s) in accordance with University policies.

Penn State is committed to Affirmative Action, Equal Opportunity and the diversity of its workforce.

Tenured or tenure track position is open for a full-time faculty researcher at the Associate Professor or Full Professor level, studying aspects of Virology. Areas of particular interest include viral pathogenesis, entry, egress, assembly, host-pathogen interactions and immune evasion.

All applicants should have substantial peer-reviewed publications that demonstrate the ability to perform cutting edge research. Candidates should also have substantial research productivity, a history of grant support and academic service, and an interest in teaching graduate and medical students. Starting date is negotiable.

Application materials will be reviewed as received, but to receive full consideration, should be received by April 1, 2013. Please send a complete CV and the name and contact information of at least three references by email to: seniorvirologist@northwestern.edu.

Northwestern University is an Affirmative Action, Equal Opportunity Employer: Women and minorities are encouraged to apply. Hiring is contingent upon eligibility to work in the United States.
The IMP is a basic research center sponsored primarily by the pharmaceutical company Boehringer Ingelheim (www.imp.ac.at). The IMP develops its own independent research program with the main goal to conduct outstanding basic research in the life sciences. The IMP together with the Institute of Molecular Biotechnology of the Austrian Academy of Sciences (IMBA) and several biomedical institutes of the Vienna University constitutes the Vienna Biocenter, which shares common activities including an active PhD program and scientific infrastructure. The IMP is presently organized into 17 research groups with a scientific staff of approx. 200, which have free access to excellent core-funded services including a state-of-the-art animal facility. The language spoken at the institute is English.

The Scientific Director should be an active world leader in her/his own scientific area with broad scientific interests. She/he takes responsibility for the scientific concept of the institute, first and foremost through the recruitment of excellent faculty members. The management burden is limited in this middle-sized institute as the director is supported by an administrative director and experienced staff.

Applications should be addressed to the chair of the search committee:

Tom Rapoport (Harvard Medical School)
c/o Christopher Robinson
IMP, Dr. Bohr-Gasse 7, A-1030 Vienna
e-mail: robinson@imp.ac.at

McGill University seeks an internationally recognized leader in Green Chemistry to fill the Canada Excellence Research Chair (CERC) in Green Chemistry and Green Chemicals. The CERC program awards world-renowned researchers and their teams $10 million over seven years to establish ambitious research programs at Canadian universities (http://www.cerc.gc.ca/hp-pa-eng.shtml).

The CERC in Green Chemistry and Green Chemicals will hold a PhD or equivalent degree and an established record of independent research in chemical sciences, at an internationally-recognized level. Research activities sought might include, but are not limited to, catalyst discovery and application to synthesis, synthesis and application of new materials and/or solvents, biocatalysis, and catalysis applied to energy conversion. In addition to developing a highly competitive research program at McGill, the incumbent will be expected to participate in teaching at the undergraduate and/or graduate student level as well as administrative work to support these activities. Applications, including curriculum vitae, a statement of research and teaching interests, and the names of three referees should be sent to R. B. Lennox, Chair, Department of Chemistry, McGill University (Bruce.Lennox@McGill.ca). Applications will be considered starting February 1, 2013.

McGill University is committed to diversity and equity in employment. It welcomes applications from Aboriginal persons, persons with disabilities, ethnic minorities, persons of minority sexual orientation or gender identity, visible minorities, women, and others who may contribute to further diversification. All qualified candidates are encouraged to apply; however, in accordance with Canadian immigration requirements, Canadians and permanent residents will be given priority.

The Vienna Center for Quantum Science and Technology (VCQ) invites applications for the Vienna Quantum Fellowships

These Fellowships in Experimental or Theoretical Quantum Science will be awarded both on the PhD- and the postdoc-level on the basis of an international competition. The appointments are for a three-year duration. Postdoctoral Fellowships carry a competitive annual salary, and offer an annual research expense fund. PhD Fellowships will participate in the Vienna graduate program CoQuS.

The Vienna Quantum Fellowship program has been established with the support from the Austrian Ministry of Science and Research to offer young scientists the best possible opportunity to develop their talents in the environment of the Vienna Center for Quantum Science and Technology (VCQ).

The VCQ faculty provides a broad variety of research opportunities in the areas of Experimental and Theoretcal Quantum Science (see http://vcq.quantum.at):

- Matter-wave interferometry and quantum atom optics
- Micro- and nanoscale quantum optics and quantum optomechanics
- Microoptics and novel quantum states of light
- Cold atoms and degenerate quantum gases
- Many-body quantum physics and quantum simulations
- Entanglement-based quantum communication on Earth and via satellites
- Quantum information and foundations of physics

Information about how to apply and the required application material can be obtained from http://vcq.quantum.at

Deadline for the application is April 28, 2013. Fellowship candidates will automatically be considered for other available postdoctoral positions in their fields of interest.
To Dr. Shirley Malcom, born and raised in the segregated South more than 65 years ago, a career based on her studies in science seemed even less likely than the launch of the Soviet's Sputnik. But with Sputnik’s success, the Space Race officially started and, in an instant, brought a laser-like focus to science education and ways to deliver a proper response. Not long after, Dr. Malcom entered the picture.

Although black schools at the time received fewer dollars per student and did not have sufficient resources to maintain their labs at a level equivalent to the white schools, Dr. Malcom found her way to the University of Washington where she succeeded in obtaining a B.S. in spite of the difficulties of being an African American woman in the field of science. From there she went on to earn a Ph.D. in ecology from Penn State and held a faculty position at the University of North Carolina, Wilmington.

Dr. Malcom has served at the AAAS in multiple capacities, and is presently Head of the Directorate for Education and Human Resources Programs. Nominated by President Clinton to the National Science Board, she also held a position on his Committee of Advisors on Science and Technology. She is currently a member of the Caltech Board of Trustees, a Regent of Morgan State University, and co-chair of the Gender Advisory Board of the UN Commission on Science and Technology for Development. She has held numerous other positions of distinction and is the principal author of *The Double Bind: The Price of Being a Minority Woman in Science*.

Of her active career in science, Dr. Malcom says, “I guess I have become a poster child for taking one’s science background and using that in many other ways: we ask questions; we try to understand what we find; we consider what evidence we would need to confirm or refute hypotheses. And that happens in whatever setting one finds oneself.”

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INTERDISCIPLINARY SUMMER COURSE

Biophysics and Computation in Neurons and Networks

Directors: David W. Tank and Michael Berry
Princeton Neuroscience Institute

Course Date: June 16 – July 13, 2013
Location: Princeton University
Application Deadline: April 1, 2013
Application Forms: bcnn.princeton.edu

This course, supported by the Burroughs Wellcome Fund, targets students with training in the physical sciences, mathematics or engineering who seek an introduction to the concepts and research methodologies of modern neuroscience. No previous training in biology is required. Topics covered will range from cellular biophysics to systems neuroscience, including particularly imaging methods for the study of single neurons, networks of neurons and human brain dynamics during execution of behavioral computations. The course will be unique in its focus on neural dynamics at several scales of complexity – cells, circuits, intact brains – and the combination of didactic lectures and laboratory exercises, including cellular biophysics, synaptic interactions and plasticity in neuronal networks, and fMRI imaging of targeted brain regions in human subjects. The capstone of this course will be one-week student-designed research projects integrating concepts and methodologies encountered during the initial formal lectures and laboratory exercises. Course work will include morning lectures and tutorials and laboratory exercises selected to complement and extend the themes presented in morning lectures.

The Institute of Agriculture and Natural Resources at the University of Nebraska, with support from the Robert B. Daugherty Water for Food Institute (DWFI) is accepting applications for a Systems Agronomist a 70% research, 30% extension, 12-month, tenure-leading or tenured appointment at the Assistant, Associate, or Full Professor rank. Housed in the Department of Agronomy and Horticulture, this is a key contributing position to development of the DWFI, providing leadership as the agronomic center of a cluster of faculty members to define and address compelling issues in the use of water in Nebraska’s agriculture with focus on efficiency of water use and decreasing the yield gap of major crops and cropping systems in variable and changing climates.

The successful candidate is expected to collaborate on multi-disciplinary research in the development of sustainable cropping systems for corn, soybean and other crops resulting in improved input use efficiency, reduced greenhouse gas emissions, and higher yields through closure of the exploitable yield gap; to maintain a vigorous program supported through external grants and contracts; publish research results in peer-reviewed journals and present results at professional meetings; advise graduate students; develop education programs to serve a diverse clientele including producers, government agencies, crop consultants, businesses and University of Nebraska extension educators; contribute to crop production and environmental extension action team efforts; provide leadership to extension education programming teams on the use of crop models and decision support tools with a focus on improving water and nutrient use efficiency in Nebraska; and communicate research results through a variety of channels to key stakeholders and clientele groups.

Requires Ph.D. degree or Ph.D. in place by date of hire, in agronomy or closely related field. Rank and tenure will be based on experience and credentials of the successful applicant.

To view complete position details and to apply, go to: http://employment.unl.edu and search for requisition #F130036. Complete the Faculty Academic Administrative Information Form. Attach a letter of application, an overview of research and extension experience and interests, and a curriculum vitae. Arrange for 3 letters of reference to be emailed to: ewendt1@unl.edu. Review of applications will begin on March 15, 2013 and continue until the position is filled or the search is closed.

The University of Nebraska has an active National Science Foundation ADVANCE gender equity program, and is committed to a pluralistic campus community through affirmative action, equal opportunity, work-life balance, and dual careers.
POSITIONS OPEN

POSTDOCTORAL POSITIONS in
The Enzyme Function Initiative

The Enzyme Function Initiative (EFI; website: http://enzymefunction.org/) was established in 2010 with a Glue Grant from NIGMS/NIH (US4GM093342). The goal is to develop a sequence/structure-based strategy for facilitating assignment of in vitro enzymatic and in vivo metabolic/physiological functions of unknown enzymes discovered in genome projects, a crucial limitation in genomic biology. This is being accomplished by integrating bioinformatics, structural biology, and computation with enzymology, genetics, and metabolomics. The EFI consists of five Scientific Cores that provide essential intellectual, computational, and experimental infrastructure for functional predictions, which are tested by Bridging Projects that focus on functionally diverse enzyme superfamilies.

Postdoctoral positions are available in microbiology with focus on phenotypic analyses of knockout/overexpression mutants and transcriptomics and on mass spectrometry-based metabolomics. Due to the collaborative and multidisciplinary environment, the EFI provides an opportunity to receive training in several areas. For example, those with a primary interest in microbial genetics can receive training in bioinformatics or in metabolomics.

To apply and/or for more detailed information, please contact Professor John Cronan (e-mail: jcronan@uiuc.edu).

POSITIONS OPEN

INTERDISCIPLINARY TRAINING PROGRAM IN CANCER RESEARCH

Postdoctoral positions are available from an NCI-sponsored Interdisciplinary Cancer Training Grant for Ph.D., MD, or M.D.-Ph.D. recipients who seek training in basic or translational cancer research. Preference will be given to new postdoctoral graduates or those who anticipate degrees by July 1, 2013. Faculty mentors have primary appointments in both basic and clinical departments, and many are located in the newly constructed New Jersey Medical School-University Hospital Cancer Center (website: http://njmsuhc.umnj.edu/home/). The Cancer Center is located within the New York metropolitan area and contains three research floors, a 20,000 square foot mouse barrier facility, and extensive in-house Core facilities. While the principal training mechanism of this program is through mentored research with outstanding faculty, a key element of this program is a structured exposure to cancer clinical care through a unique “shadowing program.” A detailed program description, list of participating faculty, and application information, can be found at website: http://njmsuhc.umnj.edu/home/index.php/training-program-faculty-mentors.html. Salary support will be for two to three years for qualified applicants who must be training grant eligible (U.S. citizen or permanent resident). For additional information contact, Dr. Harvey Ozer, Program Director at telephone: 973-972-3557, or to e-mail: ozerhl@umnj.edu.

ASSISTANT PROFESSOR
Utah State University

The Department of Chemistry and Biochemistry at Utah State University (USU) invites applications for a tenure-track position at the Assistant Professor level in the area of biochemistry who will participate in the Chemical Biology program beginning fall 2013. The successful candidate will have a research program that complements at least one departmental focus area (i.e., macromolecular structure and function and/or eukaryotic biochemistry), the technical infrastructure within the department, and should also allow the candidate to interact with researchers in the biological sciences from other USU departments and colleges. Applicants must have earned a Ph.D. in Chemistry, Biochemistry, Biology, or a related field; postdoctoral experience is required. The position requires the development of an externally funded research program as well as teaching at the undergraduate and graduate levels. Applicants should submit curriculum vitae, a concise description of future research projects, a description of how the research to be pursued complements existing research focus areas and technical infrastructure in the Department, a description of teaching experience and preferred teaching area(s), and the names and e-mail addresses of three references. Apply online at website: http://jobs.usu.edu (053398). Evaluation of applicants is ongoing; posting will remain open until position is filled. For more information please visit our website: http://www.usu.edu/science/htm/chemical-biology.

Utah State University, located in Logan, Utah, is an Equal Opportunity/Affirmative Action Employer committed to assembling a diverse faculty. Women and members of minority groups are strongly encouraged to apply.

FACULTY POSITION in
Marine Biogeochemistry

Stony Brook University’s School of Marine and Atmospheric Sciences (SoMAS) invites applications for a tenure-track faculty position in Marine Biogeochemistry, to begin as early as fall 2013. The position will be filled at the ASSISTANT PROFESSOR level. Review of applications will begin March 1, 2013, but applications will be considered until the position is filled. Candidates are expected to interact with and augment existing activities in biogeochemistry at SoMAS. The successful candidate is expected to carry out an independent research program, attract external grant support for independent and collaborative projects, support and foster the development of graduate students, contribute to teaching activities at both the graduate and undergraduate levels, and participate in School and University service. Application instructions and procedures, as well as further information about this position, can be found at website: http://www.somas.stonybrook.edu/about/cnpopps.html (Ref #F-7743-13-01). Stony Brook University/SUNY is an Affirmative Action/Equal Opportunity Educator and Employer.

Nontraditional Careers:
Opportunities Away From the Bench

Webinar

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