ASSISTANT/ASSOCIATE PROFESSOR
Clinical Scientist
Division of Genetics, Department of Medicine
Children’s Hospital Boston
Harvard Medical School

Applications are invited for a tenure-track Assistant or Associate Professor position in the Division of Genetics within the Department of Medicine at Children’s Hospital Boston. We are seeking an outstanding M.D. or M.D.-Ph.D. clinical scientist who will establish a vigorous basic science, translational research, or clinical research program with relevance to genetics, developmental biology, and/or developmental disorders of childhood. The successful candidate will have modern laboratory space located in the new Center for Life Science Building. Joint appointments in the Program in Genomics at Children’s Hospital and the Broad Institute of MIT and Harvard may be available for appropriate applicants. The Division resides within a very strong research and clinical community in genetics, developmental biology, and related disciplines throughout the Harvard Longwood Medical Area and offers many teaching and clinical opportunities. The Clinical Scientist will hold both Children’s Hospital Boston and Harvard Medical School faculty appointments.

Please submit a current curriculum vitae, a two- or three-page description of research interests and directions, and three to five reference letters. Materials should be sent via e-mail by January 31, 2012 to: genetisssearch@childrens.harvard.edu. Please contact Andrea McDonald at telephone: 617-355-2449 with questions. We particularly encourage applications from women and minority candidates. Equal Opportunity/Affirmative Action Employer.

TWO ASSISTANT PROFESSOR POSITIONS
Available at the
University of Wisconsin-Madison

The Department of Plant Pathology invites applications for a tenure-track faculty position in field crop pathology. The position will focus on pathology of agronomic crops and carries a 75% extension/25% teaching mission. Application details can be found at website: http://www.ohr.wisc.edu/pv/pv_072144.html.

The Department of Botany and the Department of Plant Pathology invite applications for a tenure-track faculty position in mycology. We seek candidates capable of performing cutting-edge research on fungi or oomycetes associated with crop disease. The successful candidate will be expected to develop a vigorous extramurally funded research program, contribute to biological instruction including an undergraduate general mycology course, and perform service important to the university and profession. Application details can be found at website: http://www.ohr.wisc.edu/pv/pv_072344.html.

The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer. We promote excellence through diversity and encourage all qualified individuals to apply.

POSTDOCTORAL FELLOW POSITION
The Johns Hopkins University
School of Medicine
Department of Gynecology/Obstetrics

The Johns Hopkins Integrated Research Center for Fetal Medicine is seeking to fill an ARAMCO Services Company Funded postdoctoral fellowship position to study in utero interventions. Candidates must possess a minimum of a Ph.D. or equivalent degree. A record of publications in an area related to neurobiology or stem cell research is highly desirable.

Applicants should submit curriculum vitae, bibliography, statement of current research interests to: Irina Burd, M.D., Ph.D., Johns Hopkins Department of Gynecology and Obstetrics, 722 N. Wolfe Street, Baltimore MD 21287, or by e-mail: iburd1@jhmi.edu.

The Johns Hopkins University is an Equal Opportunity Employer.

IGERT PH.D. FELLOWSHIPS in
Watershed Science at SIU
Southern Illinois University (SIU) is offering six to eight Ph.D. fellowships as part of NSF’s Integrative Graduate Education and Research Training (IGERT) program. Fellowships are available to U.S. citizens and permanent residents (only) in any water-, river- or watershed-related field of study, including Geology, Hydrology, Geography, Engineering, Plant Biology, Zoology, Ecology, etc.

Applicants should have a MS-level degree at the time of enrollment (direct Ph.D. possible in cases of exceptional merit) and should have grades, test scores, and research records commensurate with one of NSF’s most coveted fellowships. The 2012 IGERT class will have a strong international component, with a research project in the Tisza River Basin of Central Europe involving four to six plus months of fieldwork in Austria, Slovakia, Hungary, Ukraine, Romania, and/or Serbia. Application deadline is January 15, 2012. For more information, please see website: http://www.igert.siu.edu or contact e-mail: igert@siu.edu.

FACULTY POSITION IN GENETICS
The Department of Biological Sciences at Northern Arizona University invites applications for a tenure-track position in the area of Genetics at the ASSISTANT PROFESSOR level, to begin August 2012. The successful candidate will have a strong commitment to undergraduate education and is expected to develop a vigorous research program in genetics.

Minimum qualifications are: an earned Ph.D. in the biological sciences with emphasis in genetics (prokaryotic, eukaryotic, or viral) conferred by start date; and, minimum one-year postdoctoral experience. Please see website: http://hr.nau.edu/node/2796&job_req=558982 for full position announcement.


POSTDOCTORAL POSITION
Mechanisms of mitochondrial Neurodegeneration and therapy (100%, multi-year), available immediately (California). We seek two postdoctoral fellows to study inherited mitochondrial defects cause neurodegenerative disease and to use this information in therapeutic screening. Expertise in mouse models, neuron, and cellular studies, as well as molecular and biochemical expertise, are very strongly preferred. Dr. Gorgas, University of California, Davis is an Affirmative Action/Equal Employment Opportunity Employer.
The 15th Liliane Bettencourt Prize for Life Sciences was awarded to Patrick Mehlen, the Director of the CNRS UMR 5238, at the Centre Léon Bérard (Lyon, France).

The Liliane Bettencourt Prize for Life Sciences, worth €250,000, has been awarded every year since 1997 to a European researcher under the age of 45, who is recognised within the scientific community for the quality of their international publications. In addition to their status as an author and leader in their own scientific field, the candidate must be leading a particularly promising research project and have the personal qualities for mobilising an entire team.

Recognised in 1987 as a public interest foundation, the Bettencourt Schueller Foundation was set up by Liliane Bettencourt, in memory of her father Eugène Schueller, who himself was a researcher and chemist. Its goal is to push back the boundaries of knowledge in the life sciences in order to improve health; to unleash talent and pass on expertise within the field of artistic creativity; and to relieve suffering, combat exclusion and respond to social welfare emergencies.

Patrick Mehlen is the Director of Research at the CNRS and runs a large group at the Cancer Research Centre and the Léon Bérard Cancer Centre in Lyon. He is also Director of the DEVweCAN Laboratory of Excellence. He holds a PhD in Cellular and Molecular Biology, and has been a member of EMBO, the prestigious European Molecular Biology Organization, since 2006. He is also an Honorary Professor at the Buck Institute for Age Research in California.

A few years ago, when dogma held that the receptors in the cell membrane were only active when they were linked by their extracellular ligand, Patrick Mehlen and Dale Bredesen established the concept of cell biology based on “dependence receptors”. If there is no ligand, these receptors transmit the signal to the cell to start an apoptosis process, a process that Patrick Mehlen proposes using to induce the death of tumour cells.

The effectiveness of this strategy has been demonstrated in pre-clinical phases, using the model of highly aggressive breast cancer, lung cancer or neuroblastoma. The first clinical trials on humans should start in 2013.
The University of Basel invites applications for a

Professor of Neurophysiology

The Medical Faculty of the University of Basel, Switzerland, invites applications for a faculty position in Neurophysiology. Candidates should hold an M.D. and/or a Ph.D. degree and are expected to have an outstanding research record in the field of neurophysiology. Candidates with experience in novel light microscopy and in vivo imaging techniques are especially encouraged to apply. The successful candidate will complement research activities in the “Focal Area Neurosciences” of the Department of Biomedicine (http://biomedizin.unibas.ch/home/) and is expected to collaborate with the neuroscience research groups at the University Hospital and the University. Basel has a high density of neuroscientists that cover a wide spectrum of neuroscience research, ranging from basic to clinical and applied research (http://www.neuronetwork.unibas.ch/index.html). Physiology teaching of medical students in German is required. The position provides access to core facilities, includes one post-doctoral position, one technician and secretarial assistance. Applications must be submitted in electronic form, should include a letter of motivation, a CV, a list of external research funding and a description of teaching experiences. A detailed outline of research interests should be part of the application.

Teaching language is German.

The University of Basel seeks to increase the proportion of women among the faculty members and therefore specifically encourages female candidates to apply.

For additional information: Prof. M. Sinnreich, Head of the Search Committee, Departments of Neurology and Biomedicine, University Hospital, Klingelbergstr. 50/70, 4056 Basel (Tel: +41 (0)61 265 2525).

Application deadline is 10.2.2012. Information about how to submit your application is available at: http://medizin.unibas.ch/ under Dekanat/Bewerbungen.

Please send your application only to bewerbungen-medizin@unibas.ch
### Meetings

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<td>PTEN Pathways &amp; Targets</td>
<td>March 13 - 16</td>
<td>January 13</td>
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<td>Systems Biology: Global Regulation of Gene Expression</td>
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<td>Neuronal Circuits</td>
<td>March 28 - 31</td>
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<td>Evolution of Caenorhabditis and Other Nematodes</td>
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<td>Automated Imaging &amp; High-Throughput Phenotyping</td>
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<td>Molecular Pathways in Organ Development &amp; Disease</td>
<td>April 17 - 21</td>
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<td>Gene Expression and Signaling in the Immune System</td>
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### Courses

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<tr>
<th>Topic</th>
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<td>Protein Purification &amp; Characterization</td>
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<td>Cell &amp; Developmental Biology of Xenopus</td>
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<td>Workshop on Schizophrenia &amp; Related Disorders</td>
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<td>Single Cell Analysis</td>
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<td>Mouse Development, Stem Cells &amp; Cancer</td>
<td>June 6 - 26</td>
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<td>Workshop on Cognitive Aging</td>
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<td>Computational Neuroscience: Vision</td>
<td>June 20 - July 3</td>
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**VICTORIA UNIVERSITY OF WELLINGTON**

Victoria University delivers internationally-acclaimed results in teaching and research, as well as programmes of national significance and international quality.

As one of Wellington’s largest and most established employers, we’re committed to providing our staff with opportunities for rewards, recognition and development, all within a dynamic and inclusive culture where innovation and diversity are highly valued.

**LECTURER/SENIOR LECTURER IN MICROBIOLOGY**

Wellington, New Zealand

Applicants must have a strong record of research in microbiology and an ability to teach at undergraduate and postgraduate levels. There are opportunities to collaborate with researchers in the School, the Centre for Biodiscovery at Victoria University, or the Malaghan Institute for Medical Research. Applications are especially welcomed from those with interests in medical microbiology, biotechnology, immunology, metabolism and/or drug discovery.

This is a permanent position equivalent to Assistant/Associate Professor in the American system.

**Applications close 14 February 2012.**

Victoria University of Wellington is an EEO employer and actively seeks to meet its obligations under the Treaty of Waitangi.

For more information and to apply online visit
http://vacancies.vuw.ac.nz

Reference A375-11Q

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**Junior and Senior Faculty positions in Computational Biology, Genomics and Systems Biology**

Beijing Institute of Genomics, Chinese Academy of Sciences (CAS), Beijing, China

Beijing Institute of Genomics (BIG) invites applications for faculty positions in the following areas:

1. Computational biology that encompasses the development of computational tools and the applications of such tools to biological questions. Algorithm, software and database developments are encouraged.
2. Large-scale sequencing, assembly, annotation and analysis as well as sequencing technology and instrument R&D.
3. Systems biology, including the analysis of transcriptome, epigenome and proteome, that addresses fundamental biological questions.
4. Synthetic biology that focuses on the applications of genomics to questions of biosynthesis, and genomic engineering.

Candidates must have a doctoral degree, postdoctoral training and a proven record of high level publishing in order to qualify for the so-called “100 talent” or “1000 talent” programs. BIG has fully-equipped platforms for high throughput DNA sequencing, rapid genotyping, and high-performance computing. New faculty members will join an interactive, interdisciplinary community of scientists at CAS in Beijing Olympic Village. BIG offers a competitive start-up package that includes research funding, supporting staff, and personal benefits.

Inquiries in subfields of genomics not listed above are welcome. Candidates shall prepare an application package that includes Curriculum Vitae, description of past achievement and proposed future research (3-7 pages), copies of three representative publications, and a list of three referees with detailed contact information. All documents should be directed to job@big.ac.cn.

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**Post-doctoral opportunities in Systems Medicine and Bioinformatics at Stanford University**

The laboratory of Dr. Atul Butte at Stanford Medical School is seeking highly motivated investigators to develop and study novel approaches in data-driven biomedical research to discover new biomarkers, therapeutics, and to revolutionize health and health-care. Post-doctoral fellowships are fully funded for at least 2 years.

Ideal candidates will have an M.D. and/or Ph.D. with a strong background in bioinformatics, computational biology, biostatistics, and genomics, excellent communication and programming skills, and a great publication record.

Strong problem-solving skills, creative thinking, and the ability to build new software tools as needed are required. A dual background in both computation and molecular biology or medicine or pharmacology will be a strong plus. Prior experience with genetic, microarray, drug, or clinical databases, text-mining, knowledge representation, or parallel computing platforms is a plus. Applicants must possess good communication skills and be fluent in both spoken and written English.

This exciting work will be guided by multidisciplinary collaborations with top scientists in stem-cell, immunology, diabetes, and cancer biology research at Stanford.

To apply, please send your CV, a brief statement of research interests, and contact information for three references. Contact: Susan Aptekar; E-mail: butte-lab-jobs@lists.stanford.edu
2012 COLD SPRING HARBOR ASIA CONFERENCES
Suzhou, China

SPRING MEETINGS
Fishing for Answers: Zebrafish Models of Human Development and Disease
April 16-20, Abstracts due February 9
Koichi Kawakami, Thomas Look, Elizabeth Patten, Jinrong Peng, Leonard Zen

Epigenetics, Chromatin & Transcription
April 23-27, Abstracts due February 10
Robert Martienssen, Ruiming Xu, Yi Zhang

Infectious Disease Genomics and Global Health
May 7-11, Abstracts due February 24
Julian Parkhill, Patrick Tan, George Weinstock, Ruifu Yang

Liver Metabolism, Diseases and Cancer
May 21-25, Abstracts due March 9
Genaheng Feng, David Moore, Hangyang Wang

Bone and Cartilage: from Development to Human Diseases
June 11-15, Abstracts due March 30
Christine Hartmann, Hiroshi Kawaguchi, Dae-Won Kim, Fanxin Long

Invertebrate Neurobiology
June 18-22, Abstracts due April 6
Aike Guo, Alison Mercer, Ioke Meri, Bing Zhang

SUMMER SCHOOL
Computational and Cognitive Neuroscience
(Beijing, China)
July 14-31, Application due March 15
Xiao-Jing Wang, Si Wu, Utpinder S Bhatia, Zachary F Mainen

FALL MEETINGS
Frontiers of Immunology in Health and Diseases
September 3-7, Abstracts due June 22
Xuetao Cao, Richard Flavell, Tada Taniguchi

Ion Channels: Biophysics, Diseases and Therapeutics
September 17-21, Abstracts due July 6
Huifang Jiang, Henry Lester, Min Li, Jianpeng Ma

Small GTPases at Different Scales: Proteins, Membranes, Cells
September 24-28, Abstracts due July 13
Jianping Ding, Klaus Gerwert, Roger Goody, Shuh Narumiya

RNA Biology
October 8-12, Abstracts due July 27
Fátima Gebauer, Naray Kim, Adrian Krainer, Mutsuhito Ohno

High Throughput Biology
October 15-19, Abstracts due August 3
Edward Rubin, Bing Ren, Tian Xu

Differentiation Therapy and Advances in Leukemia
October 20-23, Abstracts due August 10
Saijuan Chen, Zhu Chen, Samuel Waxman

CSH-Asia/NCI-MDACC Joint Conference: Genetic, Genomic, and Translational Studies of Human Leukemia
October 23-27, Abstracts due August 10
Scott Armstrong, Yushikki Ito, Paul Liu, Pier-Francesco Pandolfi

Plant Epigenetics, Stress and Evolution
October 29-November 2, Abstracts due August 17
Jian-Kang Zhu, Yijun Qi, Brandon Gault, Zhizhong Gong

Neural Circuit Basis of Behavior and its Disorders
November 5-9, Abstracts due August 24
Guoping Feng, Yasunori Hayashi, Minmin Luo, Richard Morris

CSH Asia / ICMS Joint Conference on Tumor Microenvironment
November 13-17, Abstracts due August 31
Francois Balkwill, Wolf Fridman, Luyuan Li, Abraham Raz, Eichi Takara, Isaac Witz

Synthetic Biology
November 26-30, Abstracts due September 14
Guoqiang Chen, Sang Yup Lee, Hiroki Ueda

Stem Cells and Developmental Mechanisms
December 3-7, Abstracts due September 21
Thomas C. G. Beach, Kazuo Gotoh, Ting Xie, Weimin Zhong

Vaccine Design
December 10-14, Abstracts due September 28
Michael Godd, Hiroshi Kyono, Bali Palendran, Yiming Shao, Ling Zhang

For the most updated information, please visit our website at www.csh-asia.org.

www.csh-asia.org
Cold Spring Harbor Asia Conferences
Suzhou Donglu Conference Center No.299 Donglu Road 5/P Suzhou, Jiangsu Province, China
Phone: +86 512 6272 9029 Fax: +86 512 6272 9028 E-mail: meetings@csh-asia.org

The Chinese Consciousness (Man in Relation to the Universe) is frequently depicted in Chinese paintings and may be found in gardens throughout Asia, where it symbolizes beauty but also as a symbol of endurance, purity and hope — values emphasized by classic East Asian cultures.
Integrated Science Faculty in the College of Science

As part of Virginia Tech’s expanding presence in emerging interdisciplinary programs and degrees in nanoscience, neuroscience, systems biology, and computational science, the College of Science seeks to fill tenure-track or tenured faculty positions. These new faculty positions signify a continued University commitment to the importance of interdisciplinary science to help solve major societal challenges in energy, the environment, and health. The successful candidate will be expected to establish an internationally recognized research program and be an effective teacher in graduate and undergraduate courses. Appointments at the rank of Assistant, Associate or Full Professor will be made in one of the College’s eight departments: biological sciences, chemistry, economics, geosciences, mathematics, physics, psychology, and statistics.

New faculty associated with these interdisciplinary programs and degrees will be expected to participate in the College of Science’s recently launched Integrated Science Curriculum (www.science.vt.edu/isc) and interdisciplinary courses, which collectively serve to build strong research and educational partnerships across the sciences.

Please visit http://www.jobs.vt.edu and locate the correct posting. All applications must be submitted on-line.

For more information, visit www.science.vt.edu and click on links under Faculty Openings.

Consideration of applications will begin as early as January 15, 2012 and will continue until the positions are filled.

For more information, please contact: Profs. Jill Sible and Timothy Long Associate Deans, College of Science
(issearch@vt.edu)

Virginia Tech is an AA/EEO Employer; applications from members of underrepresented groups are especially encouraged.

College of Science

Biological Sciences • Chemistry • Economics • Geosciences • Mathematics • Physics • Psychology • Statistics

Group Leader Positions at National Institute of Biological Sciences, Beijing

Principal Investigators: National Institute of Biological Sciences, Beijing (NIBS) (http://www.nibs.ac.cn) is undergoing a significant expansion and invites applications for multiple Principal Investigator (PI) positions at both junior and senior levels. Successful candidates are expected to lead independent research laboratories to study mechanism-based biological processes not limited to any particular research area. NIBS is also committed in building a strong program in translational research, and candidates with interest and strong track record in disease-related research or medicinal chemistry/drug discovery are also welcome to apply for the PI position. Qualified candidate should have a Ph.D. degree with several years of postdoctoral training or industrial experience. There is no limitation on candidate’s nationality and race, and foreign applicants are encouraged to apply.

The initial appointment for PIs will be 5 years, with full funding support from the Chinese government. Renewal of the appointment will be based on merit and is conditional upon passing reviews by an international committee. In addition to generous start-up packages, core facilities, and internationally competitive salaries and benefits, NIBS also aims to provide its faculty members with a stimulating research environment, collegial and interactive colleagues, efficient administrative supports, outstanding graduate students, and opportunities for substantial communications with the international scientific community, enabling PIs to conduct significant and creative research.

Independent Fellows: NIBS is also in the process of establishing a new Independent Research Fellow program. Candidates with no or little postdoctoral experience but showing a high potential for future success from his/her PhD research are encouraged to apply. The Fellows will have the freedom to establish an independent research team and pursue his/her own research ideas with generous supports from the institute. Appointment for the Fellows will be three years. Successful Fellows who can pass the review by an institutional committee will be promoted to Principal Investigators at the junior level.

Prospective applicants should send a curriculum vitae and statement of research interests and future plan, and arrange to have at least three letters of recommendation sent to Dr. Feng Shao, Chair of Search Committee, National Institute of Biological Sciences, #7 Science Park Rd., Beijing, China, 102206; or email to: facultyrecruit@nibs.ac.cn.

Group Leader Positions at National Institute of Biological Sciences, Beijing

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Director

Toronto Western Research Institute

The Toronto Western Research Institute (TWR), fully affiliated with the University of Toronto, seeks a Director to lead our research programs. TWR is home to more than 100 investigators and 160 trainees spanning the spectrum of basic to clinical research including community and health services research. The largest research programs are in Neurosciences, including Vision, (70%) and Arthritis (20%). Laboratory-based research programs will be moving into the new Krembil Discovery Tower, a 200,000 Sq Ft, state of the art, wet and dry bench facility scheduled for occupancy in spring of 2013.

The ideal candidate for this position is an outstanding medical researcher with an established record of scientific accomplishment in neurosciences or arthritis with a commitment to foster the full spectrum of research. Evidence of scientific and administrative leadership is essential. The successful candidate will hold an advanced degree (PhD and/or MD) and be eligible for an academic appointment at the University of Toronto at the Associate or Full Professor level. Qualified candidates will be eligible for a clinical appointment in a relevant department of the Toronto Western Hospital.

The Director, working with Research Division Heads and other members of the Research Council, will be responsible for setting the goals and objectives of the Research Institute and providing strong scientific leadership that results in research programs of significant and sustained global impact. The Director will report to the Vice President, Research of the University Health Network, which also includes the Ontario Cancer Institute at Princess Margaret Hospital, the Toronto General Research Institute at Toronto General Hospital, and the Toronto Rehab Institute. The University Health Network is Canada’s largest Research Hospital with a research budget in excess of $275M dollars, and is supported by three charitable foundations.

Applicants should forward their CV by January 30, 2012 to: Dr. C.J. Paige, Vice President, Research, University Health Network. Email: TWRsearch@uhnresearch.ca

We wish to thank all applicants for their interest, however, only those selected for an interview will be contacted. The University Health Network is an equal opportunity Employer. In accordance with Canadian Immigration requirements, this advertisement is directed in the first instance to Canadian citizens and permanent residents, although others are welcome to apply.
Highly accomplished faculty — most at the associate and full professor levels — are being recruited to continue building multidisciplinary teams in diverse science and technology areas.

**Developmental Integrative Biology**
Researchers expand understanding of the physiology and genetics of developing organisms and the environmental influences that shape these processes.

**Bio/Nano-Photonics**
Researchers across science, medical and engineering disciplines examine how light can be used to develop new materials and devices for medicine, telecommunications, energy and other fields.

**Signaling Mechanisms in Plants**
Experts in cell biology, biochemistry, genetics, metabolomics and informatics study how plant cells communicate to understand resistance to pathogens, insects and other adverse environmental conditions.

**Computational Chemical Biology**
Researchers address chemical problems within the pharmaceutical and biomedical industries using computational science, modeling and simulation, with applications to molecular biology and biochemistry.

**Renewable Bioproducts**
Biology, engineering and materials science researchers create green solutions using plants, bacteria and other bioagent materials.

**Computational Life Sciences and Complex Bio-Environmental Systems**
Using computer-based modeling, visualization and analysis of biological processes, researchers address problems in systems biology, biomedical science, toxicology and epidemiology.

**Sub-Antarctic Ecosystems and Biocultural Conservation**
Researchers in ecological sciences, environmental philosophy and the arts preserve and discover the biocultural diversity of the sub-Antarctic ecoregion.

**Advanced Bio-Sensor Technology, Development and Applications**
Researchers develop biosensor technology to support diverse research applications in areas including distributed intelligent networks, bio-security, public health, energy and environmental monitoring.

**Bio/Nano-Photonics**
Researchers across science, medical and engineering disciplines examine how light can be used to develop new materials and devices for medicine, telecommunications, energy and other fields.

**Renewable Energy and Conservation**
Experts in materials science, mechanical and energy engineering, electrical engineering and engineering technology explore renewable power generation, smart grid transmission and energy efficient buildings.

**Forensic and Investigative Science and Technology Instrument Development**
Experts develop and supply detection sensors and portable forensic instrument technologies to benefit multiple industries, including the medical and criminal justice communities.

**Materials Modeling**
Researchers advance the theory and design of materials through modeling and simulation across length and time scales for applications in electronics, health, energy and other disciplines.

**Multi-scale Surface Science and Engineering**
Experts analyze and improve the properties and performance of material surfaces, from the atomic to macro scales, to develop next generation applications and devices.

**STEM Research and Education**
Researchers develop and promote advances in science education through trans-disciplinary research, new learning environments and innovative curricula and technology.

Full position descriptions and application procedures are available at [research.unt.edu/clusters](http://research.unt.edu/clusters).
Reader or Chair in Computational Physiology

Applications are invited for a Readership or Chair in Computational Physiology in the Faculty of Life Sciences. The position will be based in the Research Department of Neuroscience, Physiology and Pharmacology (NPP) in the Division of Biosciences. The successful candidate will be required to establish and lead a new academic research group in this field.

UCL has recently embarked on an ambitious strategy to enhance its capabilities in computational life and medical sciences by establishing the UCL Computational Life & Medical Sciences Network (http://www.clms.ucl.ac.uk/).

As part of this new strategy, we intend to make several appointments. The first of these will be at Readership/Professor level and will require an individual with an outstanding track record in Computational Physiology. This area is critical to many ongoing projects in research, undergraduate teaching and postgraduate training at UCL. We have been developing research activity in this area inter alia via the co-ordinating role in EU/FP7 Virtual Physiological Human and CoPLEX, a multi-disciplinary PhD Programme part-funded by the British Heart Foundation.

We expect the successful candidate to develop interdisciplinary research across Faculties, externally and with UCL Partners, linking computational and physiological sciences.

Individuals with expertise in computational aspects of any branch of systems physiology, including neurophysiology, a major research strength of the Department, are encouraged to apply. A strong publication record in international journals and an ability to attract funding from research councils and charities is essential.

The appointment will be full time on the UCL Grade 9 or Professorial Grade. The salary range will be: Reader - £50,902 to £55,362 per annum; Professor - negotiable on the professorial scale but not less than £61,960 per annum, inclusive of London Allowance.

For further details about the vacancy and how to apply online please go to http://www.ucl.ac.uk/hr/jobs and search on Reference Number 1223414.

Applicants may make informal enquiries about the post to Peter Coveney, CLMS Director (p.v.coveney@ucl.ac.uk), Trevor Smart, Head of NPP (t.smart@ucl.ac.uk), or John Carroll, Associate Dean, Division of Biosciences (j.carroll@ucl.ac.uk).

Closing Date: 28th January 2012.

We particularly welcome female applicants and those from an ethnic minority, as they are under-represented in the School. We particularly welcome applications from those with disabilities.

Robert A. WELCH Foundation

Distinguished University Chair

Department of BIOCHEMISTRY

UTHSC at San Antonio, TX

We are seeking candidates at the Professor or Associate Professor level, with expertise in the broad area of Structural Biology, with a specific interest in its application to drug discovery. Research areas that encompass chemical or structural (X-ray, NMR or cryo-EM) analysis of macromolecular complexes, structure-based drug design, or chemical biology will be considered. In addition to the Robert A. Welch Distinguished University Endowed Chair, significant resources from the UT STARs fund and the Cancer Prevention and Research Institute of Texas (CPRIT) will be sought for qualified candidates to enhance the recruitment package. The Chair will occupy newly renovated space in a Department of 24 primary and 15 cross/adjunct-appointed faculty, with research interests spanning the fields of enzymology, signaling, transcriptional regulation, neuroscience, cancer, membrane and organelle biology and intercellular communication (http://www.biochem.uthscsa.edu/). There is a significant structural biology focus within the department that is supported by extensive state-of-the-art core facilities in X-ray, NMR, Mass Spectrometry, Analytical Ultracentrifugation, Surface Plasmon Resonance, Calorimetry/Spectrophotometry and Protein Purification. San Antonio is the 7th largest city in the U.S. with a beautiful, historical downtown area featuring the Riverwalk with its diverse entertainment and many fine restaurants. UTHSCSA is located northeast of downtown San Antonio in the South Texas Medical Center, gateway to the scenic Texas Hill Country, with its many recreational opportunities and boutique wineries. UTHSCSA consists of five schools, including a Medical School, Graduate School of Biomedical Sciences, Dental School, School of Nursing and School of Health Professions.

If interested, Please submit a Curriculum Vitae, description of research interests, list of four referees and a cover letter to Dr. Bruce J. Nicholson, Chair of Biochemistry, MSC 7760, UTHSCSA, 7703 Floyd Curl Dr., San Antonio, TX 78229-3900 or by e-mail c/o Esther James at jamese@uthscsa.edu. Review of applications will proceed until the position is filled.

The University of Texas Health Science Center at San Antonio is an Equal Employment Opportunity/Affirmative Action Employer. All faculty appointments are designated as security-sensitive positions.
HFSP supports international and preferably intercontinental collaborations in basic life science research. Applications are invited for grants to support innovative and interdisciplinary approaches to understanding complex mechanisms of living organisms. Applicants are expected to develop novel lines of research distinct from their ongoing research. Preliminary results are not required.

Program Grants are for independent scientists at all stages of their careers while Young Investigators’ Grants are for teams of scientists who are all within 5 years of establishing an independent laboratory and within 10 years of obtaining their PhDs. Both provide 3 years support for 2 – 4 member teams, with no more than one member from any one country, unless critical for the innovative nature of the project. Awards are dependent upon team size and successful teams will receive up to $450,000 per year. The principal applicant must be located in one of the HFSP member countries but co-investigators may be located in any country.

For further information see the HFSP web site (www.hfsp.org). Teams must register via the web site by March 21st 2012 so as to submit a letter of intent online by the March 28th 2012 deadline.

Specific enquiries: grant@hfsp.org

Pursue your passion for improving health, impacting countless lives around the world alongside incredible scientists who are leaders in their fields.

Merck is a global health care leader with a diversified portfolio of prescription medicines, vaccines and consumer health products, as well as animal health products. Today, we are building a new kind of healthcare company - one that is ready to help create a healthier future for all of us.

Currently our world-class Informatics team is seeking outstanding scientists in medical, health, clinical, and translational informatics; and applied mathematics and modeling. As part of our global team, you will have the opportunity to collaborate with talented and dedicated colleagues while developing and expanding your career.

- Senior Informatics Analyst, Medical & Health Informatics (req # BIO003291)
- Lead Analyst, Medical/Health Informatics (req # BIO003323)
- Lead Analyst, Clinical/Health Informatics (req # BIO003393)
- Program Lead - Translational Informatics (req # BIO003415)
- Senior Informatics Analyst - Modeling and Simulation (req # QUA002719)
- Program Lead – Patient Social Networks (req # QUA002720)
- Research Associate, Imaging - Applied Mathematics & Modeling (req # BUS000435)
- Research Associate, Mathematical Modeling - Applied Mathematics & Modeling (req # BUS000433)
- Research Associate, Safety Assessment - Applied Mathematics & Modeling (req # BUS000434)
- Research Associate, Vaccines - Applied Mathematics & Modeling (req # BUS000436)

If you are a self-motivated computational scientist and are ready to tackle challenges that make a difference in patient health, please explore our openings today by visiting merckcareers.jobs/science.
Read inspiring stories of women working in “Green Science” who are blending a unique combination of enthusiasm for science and concern for others to make the world a better place.

Joint Faculty Position

The Departments of Bioengineering and Materials Science and Engineering in the College of Engineering at the University of California, Berkeley, invite applications for a joint tenure-track or tenured position in biomaterials at the assistant, associate, or full professor level, with an expected start date of July 1, 2012.

We seek an individual with demonstrated excellence in the broad areas of biomaterials and bionanoscience, including biocompatible, bio-hybrid and soft biological materials. Applicants must have a Ph.D. and evidence of outstanding scholarship within a relevant discipline. Successful applicants are expected to offer undergraduate and graduate courses in bioengineering and materials science and engineering, and have a strong commitment to, and potential for excellence in, teaching, research, and service. The level of appointment is based on experience and qualifications.

The successful applicant will enjoy outstanding opportunities for collaboration with distinguished researchers in related departments and colleges at Berkeley, the University of California, San Francisco (UCSF), the Lawrence Berkeley National Laboratory (LBNL), and within the greater Bay Area and Silicon Valley biotech communities. This exceptional environment for teaching and research offers the successful candidate a unique opportunity for intellectual and technological leadership in several areas of scholarship.

Applications should be submitted online, please see http://bioeng.berkeley.edu/career/bioefaculty.php for more information. Applications received through March 6, 2012 will be considered. Candidates will be reviewed as applications are received, so early application is recommended.

The University of California is an Equal Opportunity Affirmative Action Employer, committed to excellence through diversity. The college seeks candidates whose research, teaching, or service has prepared them to contribute to our commitment to diversity and inclusion in higher education. The college is also committed to addressing the family needs of faculty, including dual career couples and single parents. For more information please go the CALcierge website at http://calcierge.berkeley.edu.

WOMEN IN SCIENCE
forge new pathways in green science

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Ludwig-Maximilians-Universität (LMU) München is one of the leading research universities in Europe, with a more than 500-year-long tradition. As part of the "LMU Academic Career Program", LMU Munich will award

10 Research Fellowships

to excellent junior academics. Applications are welcome from all candidates who have completed their doctoral studies within the last three years with outstanding results. Applicants must present an independent research project as part of their application. The project must be supported by a professor of LMU Munich. The fellows will become members of the Young Center of the Center for Advanced Studies and be able to make use of its services.

Endowment

Research fellows will receive an attractive salary according to the German "Tarifvertrag der Länder (TV-L)" (typically TV-L grade E 14). Applicants may apply for an additional start-up funding up to the amount of € 25,000 as well as for material and travel expenses of up to € 10,000 per year. In the first two years after the completion of their research fellowship, the fellows may be granted up to € 5,000 for continuing cooperation with LMU Munich. The fellowships are tenable for two years.

Ludwig-Maximilians-Universität München is an equal opportunity employer committed to excellence through diversity and therefore explicitly encourages women to apply.

Closing date for applications is 5 February 2012.
The prospective starting date of the fellowships is 1 September 2012.

For all information regarding your application please consult: www.lmu.de/excellent/research-fellowships

The Brain Institute of the Federal University of Rio Grande do Norte (UFRN) is proud to announce the opening of eleven (11) faculty positions. UFRN is a leading University of Northeastern Brazil, booming with economic development and famous for its pristine tropical environment. Public contests will be held in March/April 2012 to recruit four (4) Full Professors and seven (7) Assistant Professors. All positions are tenured by the Federal Government with a single confirmatory evaluation three years after hiring. The positions also grant continuous career progression, medical & labor benefits, with 45 days of paid vacations per year, one extra monthly salary as yearly bonus, and full salary retirement.

Outstanding and enthusiastic neuroscientists with idealism, initiative and leadership are sought in the following fields:
Molecular, cellular and systems neurophysiology (1 Full Professor position)
Psychopharmacology and Neuroethology (1 Full and 1 Assistant Professor positions)
Neurooecrinology (1 Full Professor position)
Computational Neuroscience (1 Assistant Professor position)
Neuroengineering (1 Assistant Professor position)
Optogenetics Applied to Neuroscience (1 Assistant Professor position)
Neurobiology of Stem Cell (1 Assistant Professor position)
Neural Biophysics (1 Assistant Professor position)

Applicants should refer to www.neuro.ufrn.br/concurso2012 for a complete English translation of the contest rules, specification of initial salary and benefits, and list of documents and procedures required for contest registration. The registration period will be open from January 16th to February 24th, 2012.

Ángela Maria Paiva Cruz, Ph.D., President of UFRN
Sidarta Ribeiro, Ph.D., Director of the Brain Institute at UFRN

VASCULAR BIOLOGY CENTER
ASSISTANT/ASSOCIATE/FULL PROFESSOR TENURE-TRACK

Applications are invited from qualified applicants for available tenure-eligible faculty positions at all ranks.

The Vascular Biology Center of the Georgia Health Sciences University presently includes 13 tenured/tenure-track core faculty, 78 staff (research faculty, Pre- and Post-doctoral Fellows and Research technicians) in recently-renovated, well-equipped laboratory space (20,000+ square feet). VBC faculty are highly collaborative with extramural grant awards, including a program project grant, in excess of $10 million. The Center directs the PhD program in Vascular Biology and the Post-doctoral Institutional NIH Training Program.

The successful applicants will have excellent communication skills and research interests in vascular biology or related conditions (i.e. lung disease, obesity/diabetes, heart failure). Associate/Full Professors should have established NIH-funded programs. Preference will be given to applicants with interests complementing those of existing faculty as described at http://www.georgiahealth.edu/centers/vbc/core.html.

Highly competitive salaries and start-up packages are available. Inquiries and applications (including full CV, letter of research interests/career plans) should be addressed to Dr. David Fulton (dfulton@georgiahealth.edu). On-Line Application http://www.georgiahealth.edu/facultyjobs reference #5406, Vascular Biology Center.

The Georgia Health Sciences University is an Equal Opportunity and Access Institution, AA/EEO/Access or AA/EEO/Access/ADA Employer. Applications from women and under represented minorities are particularly encouraged.
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An exceptional career requires insightful planning and management. That’s where *Science* Careers comes in. From job search to career enhancement, *Science* Careers has the tools and resources to help you achieve your goals. Get yourself on the right track today and get a real career plan that works. Visit [ScienceCareers.org](http://ScienceCareers.org).
Under the intellectual leadership of Martin Nowak, Professor of Biology and of Mathematics at Harvard University, the Foundational Questions in Evolutionary Biology [FQEB] project aims to fund at least ten research projects to study foundational questions in evolutionary biology. The purpose of the FQEB project is to generate new kinds of knowledge and understanding in core areas in biology where there have been severe “missing knowledge problems.” There are two core themes of this initiative:

**Theme 1:** “Evolutionary Origins and Dynamics”

Research questions include:

- What is the transition from chemical kinetics to evolutionary dynamics, and can the transition from non-evolving to evolving systems be defined precisely and formally?
- Are there different kinds of evolution, and is there evolution in the context of evolution itself?
- What are the natural laws of evolutionary change, and can we derive a complete mathematical theory of evolutionary laws?
- How does population structure affect evolutionary dynamics, and what role might coordination/cooperation play?
- What are the differences between genetic and cultural evolution, and how can these differences be formalized?
- What is the role of chance (stochasticity) in evolutionary dynamics?

**Theme 2:** “Evolvability and the Evolution of Increasing Complexity”

Research questions include:

- What are the typical limits of evolvability, and how are these transcended?
- Why does evolution (sometimes) lead to increasing complexity?
- What are the evolutionary origins of emergence?
- How does cooperation affect construction?
- Can we build precise models for the evolution of cells, multi-cellular organisms, animal societies and human language?
- What is the role of multi-level selection in the larger evolutionary process?

The successful projects will receive funding of up to $200,000 per year for up to two consecutive years. The scholars will do cutting-edge research at their own institutions, and will be expected to participate in the creation of new research networks and to work across disciplinary boundaries. Work which has significant philosophical implications for evolutionary biology and science more broadly will receive priority. Applicants must have an excellent track record of scientific productivity, as evidenced by publications.

Applications including a brief description of research interests and proposed projects (no more than 3 pages) and a CV should be sent to FQEB GRANTS c/o NPT, 165 TOWNSHIP LINE ROAD, SUITE 150, JENKINTOWN PA 19046 by January 31, 2012. Three letters of reference should also be directly submitted to the same address. One letter should come from the principal investigator of the research lab where the applicant plans to work. Priority will be given to applicants whose host lab can provide supplemental support to the scholar in the form of lab/office space, supplies, computer, travel funds, visa fees, fringe benefits (health/dental insurance). For questions, please contact jlaurence@nptrust.org.

Applications from female and other underrepresented minority candidates are strongly encouraged.

The FQEB Prizes are supported by a grant from the John Templeton Foundation.
FACULTY POSITIONS in Biochemical Engineering. The University of North Texas (UNT) has embarked on a multiyear university initiative to hire new faculty and make major infrastructure improvements to enhance and expand research (website: http://research.unt.edu/clusters/). UNT seeks candidates at the ASSOCIATE or FULL PROFESSOR level with active research programs in the Bio-based Production of Industrial Chemicals. Expertise is sought in the biochemical engineering and/or scale-up production of industrially relevant chemicals in crops or microbial systems. Research programs will focus on metabolic pathway engineering of high-value chemical feedstocks, fatty acids, and/or amino acids. The successful candidate must have a doctoral degree in a Life Science-related or Biochemical Engineering-related Discipline, an active research program in Biochemical Genomics with an emphasis in bio-based production of industrial chemicals, and evidence of sustained extramural funding and producing high-impact scholarship. This will be the first of six new hires with a thematic research focus in Metabolic Biochemistry and Engineering. This group is expected to build on investments at UNT in two other research initiatives- “Plant Signaling Mechanisms” and “Renewable Bioproducts” — already targeted by the UNT administration for research cluster support. UNT is the fourth largest university in Texas, with about 56,000 students in 97 Bachelor’s, 85 Master’s, and 40 doctoral degree programs. All applicants must apply online at the MUSC website: https://facultyjobs.unt.edu. For questions, contact Kent Chapman, Search Committee Chair, Search Committee Chair, to e-mail kchapman@unt.edu.