Born in 1564, Galileo Galilei once contemplated a career in the priesthood. It’s perhaps fortunate for science that upon the urging of his father, he instead decided to enroll at the University of Pisa. His career in science began with medicine and from there he subsequently went on to become a philosopher, physicist, mathematician, and astronomer, for which he is perhaps best known. His astronomical observations and subsequent improvements to telescopes built his reputation as a leading scientist of his time, but also led him to probe subject matter counter to prevailing dogma. His expressed views on the Earth's movement around the sun caused him to be declared suspect of heresy, which for some time led to a ban on the reprinting of his works.

Galileo's career changed science for all of us and he was without doubt a leading light in the scientific revolution, which is perhaps why Albert Einstein called him the father of modern science.

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**FOOD ALLERGY RISK ASSESSMENT SPECIALIST**

The Department of Food Science and Technology, University of Nebraska – Lincoln is seeking applicants for a 9-month, tenure-track Food Allergy Risk Assessment Specialist faculty position. The successful candidate will be one of four faculty involved in the world-renowned Food Allergy Research & Resource Program (FARRP), a food industry-funded consortium with more than 70 member companies. The candidate will be expected to develop and lead a food allergy research team on the development and application of quantitave risk assessment approaches related to food allergen residues. This will include assembling critical input information for risk assessments by conducting and coordinating research on the threshold levels for food-allergic individuals, the consumption patterns of food-allergic individuals, and the distribution of allergen residue levels in various food product categories. The candidate will also contribute to existing national and international extension efforts assisting food and related industries in the quantitative assessment of food allergen risks, implementation of allergen control programs, and application of appropriate sanitation approaches. The candidate will also provide training in the use of analytical systems for detection of allergen residues using individual consultations, seminars, workshops, webinars, and on-site and distance education approaches. The position will have a teaching component through regular and distance learning approaches. The appointment split will be 50% research, 40% Extension, and 10% teaching.

Additional opportunities are available through FARRP’s existing worldwide network of clinical, biochemical, risk assessment, and applied research and outreach collaborators in the U.S., Canada, Europe, and Australia. A candidate with the ability to expand those collaborations is sought. National and international travel is integral to this position. Collaborative opportunities also exist at UNL especially with faculty in the Department of Statistics where a courtesy appointment is available to an interested and capable candidate. The Department of Food Science and Technology is housed in a modern, well-equipped facility.

Applicants must have a Ph.D. or equivalent in food science, statistics, toxicology, immunology or a related field and experience related to chemical and/or food-related risk assessment. Experience related to allergenic foods is preferred but not required. Experience interacting with food and related industries is preferred but not required. Excellent verbal and written communication skills are also required.

For further details and to apply for this position visit http://employment.unl.edu, REQUESTION NUMBER 130008.

Complete the Faculty/Administrative form and attach a Curriculum Vitae, the names and contact information of three (3) references and a Letter of Application that includes a two page description of your proposed research, and a one page description of your vision for Extension efforts related to food allergies and risk assessment together with a brief statement of your experiences interacting with the food industry. Letters from your three references must be sent to Sara Weickelman, University of Nebraska – Lincoln, 221 Chase Hall, Lincoln, NE 68583-0726 and must be received no later than March 10, 2013. Application review will begin on March 15, 2013 and continue until the position is filled.

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.

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**Neural Circuits Underlying Movement**

**Assistant Professor**

Dalhousie University
Department of Medical Neuroscience
Halifax, Nova Scotia, Canada

The Department of Medical Neuroscience at Dalhousie University invites applications to fill a probationary tenure-track position at the rank of Assistant Professor. Applicants must hold a PhD or MD degree or the equivalent, with a minimum of three years postdoctoral training in biomedical sciences. The successful candidate will be expected to establish a research program in the development or function of neural circuits underlying movement. The candidate will join a dynamic group of neuroscientists in the Life Sciences Research Institute, studying the development, physiology, and pathophysiology of motor system circuitry. This group forms the core of the Atlantic Mobility Action Project (www.amap.ca), which undertakes a combination of basic and clinical neuroscience research and is part of an interdisciplinary neuroscience community at Dalhousie University. Outstanding core facilities available within the Faculty of Medicine include: Cellular and Molecular Digital Imaging, Proteomics, Maritime Brain Tissue Bank, Gene Analysis, Flow Cytometry, a new Animal Facility, and a Zebrafish Facility (research.medicine.dal.ca/core.htm).

Salary will be commensurate with qualifications and experience. The candidate will be expected to compete for external research and salary support, supervise graduate students, and contribute to the teaching activities of the Department. We are committed to the success of our faculty members and provide modern laboratory space, startup funds, and mentorship. Further information concerning the members of the Department may be obtained by consulting our website (www.medical-neuroscience.medicine.dal.ca). Dalhousie University is located in the historic port city of Halifax, with excellent recreational, cultural, and lifestyle opportunities (www.halifax.ca/visitors.asp).

Applicants should submit a curriculum vitae, a brief statement of research plans, teaching goals/interests and should arrange to have three letters of reference sent under separate cover to: Search Committee, Department of Medical Neuroscience, Faculty of Medicine, 5850 College St., PO Box 15000, Sir Charles Tupper Medical Building, Dalhousie University, Halifax, Nova Scotia B3H 4R2 Canada. Closing date for receipt of applications is April 1, 2013. Starting date is negotiable, however it is intended that the position will be filled by September 1, 2013.

All qualified applicants are encouraged to apply; however, Canadians and permanent residents will be given priority. Dalhousie University is an Employment Equity/Affirmative Action Employer. The University encourages applications from qualified Aboriginal people, persons with a disability, racially visible persons, and women.
Five Steps to a Successful Sabbatical

University life can be a grind of teaching, grant writing, and department politics. But every seven years, faculty members get a magical opportunity that is coveted by nonacademics: sabbatical leave. In this period of career development, a professor might learn new techniques, expand a research program, or finish off that book or pile of languishing manuscripts. The dream starts with meticulous advanced planning, but ends best for those who are adaptable and open-minded. Here are five pointers from professors with recent sabbatical experience. By Chris Tachibana

Go For It
A sabbatical leave can mean interrupting your research, getting paid less, and disrupting family life. But ask professors if their sabbatical was worth the effort and they answer with one voice: yes. Go all the way, they say. Take a full year and go to a new city or country, if you can.

Why? New environments, fresh perspectives, and unfamiliar routines boost your creativity. Robert Austin offers personal and empirical evidence. In 10 years he has held faculty positions at Harvard and Copenhagen Business Schools, and is now dean of business administration at the University of New Brunswick, Canada. He says, “Being out of your ordinary surroundings makes you establish new relationships and collaborations and lets you present your ideas in a different context.” People in other countries or even other institutes view your work from a different perspective, informed by the prevailing models and cultures of their region, he says. “They give you reactions and feedback that are different from your colleagues at home.” Austin’s research shows that groundbreaking ideas can develop when unexpected events—accidents—happen to people with the expertise to recognize potential innovations. Being in a new situation invites these serendipitous events.

Get Away (At Least Mentally)
A sabbatical can be revitalizing. A 2010 study (www.ncbi.nlm.nih.gov/pubmed/20718526) compared faculty members at 10 universities in Israel, New Zealand, and the United States who did and did not take sabbatical leave. People who had a sabbatical had better self-reported scores for life satisfaction, stress, and other measures of well-being than those who did not. The secret to achieving benefits was detachment: escaping the usual routine and being left alone by the home institution.

“The trick to a sabbatical is getting away from things that you find stressful,” says Paul Spector, professor of organizational psychology at the University of South Florida, and an author on the study. “Don’t just do the same work somewhere else.” At the University of New Brunswick, Austin advises his own faculty members to leave campus for their sabbaticals, “although I say this at some risk as a dean, because they might not come back.”

People with children and working spouses might find this advice impractical, but Glenn Starkman’s entire family came along on his sabbatical. He is a professor of physics and astronomy at Case Western Reserve University, currently working at CERN in Switzerland, site of the Large Hadron Collider. The family knew about life abroad from earlier years at Oxford and CERN, and Starkman said they thought carefully about how to get the most out of their opportunity. His wife, Debby Rosenthal, is a literature professor who planned a sabbatical at the same time. They lured their teenage children with promises of the world’s best cheese and chocolate, and the chance to experience a different culture and language but attend school in English. Fortunately, CERN contributes to tuition at an international school, which Starkman says “brings the cost [down] to merely expensive.” Planning a sabbatical abroad takes time. Especially if you are taking your family, says Starkman, expect two rather unproductive transition months. The payoff? “You’ll gain nine or 10 very productive months, and it’ll all be worth it.”

—Glenn Starkman

Upcoming Features

Innovations and Opportunities: India—February 22
Postdocs: Identifying Opportunities—March 8
Regional Focus: Germany—March 22

“You’ll gain nine or 10 very productive months, and it’ll all be worth it.”

—Glenn Starkman
Paul Spector took his own advice about getting away when he took a sabbatical without leaving town. “I had a young kid, so I stayed home for eight months and worked. I didn’t go to the office, I told my colleagues I’d be away, and they left me alone.” Spector told his graduate students in advance to not schedule their defense during his sabbatical. He used his time for professional development that he had been putting off. “I spent a week learning about logistic regression,” he says, “because it was something I wanted to learn but never had time before. I had a great eight months and came back recharged.”

Start Planning, Now
Reconfiguring a professional and personal life takes serious planning. Sabbaticalhomes.com can help with relocation. Meet with your university’s human resources department to find out how a leave will affect paychecks, taxes, and benefits, advises a blog at The Chronicle of Higher Education (chronicle.com/blogs/profhacker/author/nhighbeg). Since many universities reduce salary during sabbaticals, look for funding opportunities, but start early. Applications for government and foundation grants such as Fulbright or Guggenheim fellowships are due more than a year before funding starts. Finally, tell your institution what other resources you need. Universities realize that sabbaticals promote recruitment and retention, so they want to help.

The University of North Carolina (UNC) Department of Medicine gave Michael Pignone, chief of general internal medicine, a physician’s assistant to support his six-month visit to the University of Sydney, Australia in 2010. After working alongside Pignone for several months, the assistant managed Pignone’s primary care patients while he was gone. Pignone’s sabbatical project was part of a five-year National Institutes of Health (NIH) Established Investigator grant and was also funded by an Australian-American Health Policy fellowship. Pignone says the formal applications made him start thinking about his sabbatical about three years in advance. “They forced me to plan ahead, and I’m glad I did that,” he says. He arranged his administrative and mentoring responsibilities to avoid major decisions, grants, or activities while he was away.

Pignone’s school-age children and his wife Lisa Fail, who could work remotely, went along and had a great time. He says going to an English-speaking country and returning in June, as summer vacation was starting, made the transition easier for his family. If you’re making the effort to go to another country, consider a full year, he says, because “honestly, six months went by pretty fast.”

Professors at small colleges can also get NIH support through the Academic Research Enhancement Award (AREA, or R15) program, which supports biomedical and behavioral sciences research at educational institutions that do not have large NIH grants. National Science Foundation funding is another option. Rebecca Whelan, a newly tenured chemistry/biochemistry associate professor at Oberlin College in Ohio, which has 3,000 undergraduates, received an R15 grant for her sabbatical. Whelan is developing new cancer tests based on synthetic DNA molecules that bind to a specific target. To develop the assays, she needed two resources not available at Oberlin: specific ovarian cancer cell lines and a flow cytometer to test binding to the cells. “Flow cytometry is the type of technology that requires a core facility,” says Whelan. “It’s just not something we have at Oberlin.”

Detailed, advanced planning drove the success of Whelan’s sabbatical. She had to develop her idea, line up a host lab, and submit a grant proposal in time to receive funding during her planned leave. Her advice: “Begin thinking strategically two or three years ahead to get funding and establish a relationship with the lab where you’ll spend your sabbatical.”

To find a host lab, Whelan cold-called (or rather, e-mailed) a researcher she cited often in her publications but hadn’t met. Manish Patankar, associate professor of obstetrics and gynecology at University of Wisconsin-Madison said Whelan’s sabbatical proposal caught his eye because it was clear, complete, and within the scope of his main research program, but with a different angle and a new approach. It was the beginning of a fruitful collaboration. Back in her Oberlin lab, Whelan has enthusiastic undergraduates advancing the project and continues working with Patankar. “We’re writing a manuscript with one or two in the pipeline,” she says, “and we’re working on getting Oberlin students to the University of Wisconsin for a summer.” Patankar urges professors at large universities to consider sabbatical requests from motivated researchers from small colleges. He says, “A place like Oberlin is small only in terms of student population. They have some really nice resources and research.”

Both Whelan and Pignone reiterate the importance of getting away. “Most of us are conscientious and want to participate in our department, so we’ll always be pulled back,” says Whelan. But she recommends protecting your time and setting a high threshold for participating in meetings. “I did a phone conference for a tenure case in our department, but I let all the other stuff slide by,” she says. “You don’t have to physically get away, but you must get away mentally.” If you think you could be persuaded to return to your home institution, make it hard to travel back. Pignone said being in Australia, nearly a full day’s travel from North Carolina, was an advantage. Flying back was simply impractical.

If you are in the European Union or an associated country or arranging a sabbatical there, Marie Curie Actions offer a variety of fellowship opportunities. Although known as an excellent source of postdoctoral funding, the fellowships can also support established investigators as visiting scientists. Michal Feldman, an associate professor at the Hebrew University of Jerusalem, is visiting the Harvard School of Engineering and Applied Sciences on a Curie grant. She offers this advice: The application for her International Outgoing Fellowship was complex, she says, so plan ahead. You’ll need details about your research plan, your collaborative arrangement, and the facilities at the institute you will be visiting. In addition, you must describe the larger goals of your fellowship and how you intend to achieve them. The application requires a complete description continued>
The NIH Center for Human Immunology, Autoimmunity, and Inflammation (CHI) is a trans-NIH initiative that studies the human immune system in health and disease using high-throughput multi-dimensional assays, and then integrating the dense data sets using advanced computational approaches. The Staff Scientist/Lab Leader position is located in CHI’s Genomics Laboratory, and leads a group of 3 who perform the work of the laboratory. Responsibilities include: gene expression profiling, miR profiling, SNP scan, next generation sequencing, and biomarker validation using cutting edge technologies and instruments for clinical samples, and generating metadata spread sheets for data analysis; clinical sample processing and preservation (up to 40 samples/day for both serum and cells, hundreds of samples/year), biorepository inventory, sample tracking, and distribution; development of SOP’s and experimental QC; maintenance of lab instruments; training research fellows, lab technicians and collaborators in new technologies; working a flexible schedule as dictated by clinical protocols.

The selected individual will have the following qualifications: M.D. or Ph.D. in a life sciences-related discipline, M.D./Ph. D. or M.D./M.S. preferred; minimum of 8 years experience in life sciences research, and more than 5 years hands on experience in biomedical research utilizing multiple high throughput technologies, with multidimensional data collection and analysis; extensive experience and capability in adapting new technologies and platform validation; experience and skill in gene expression profiling, micro RNA profiling, genome wide SNP scan, and next generation sequencing (NGS); demonstrated ability to integrate processing of high volume of clinical samples while also carrying out high throughput technologies, daily lab multitasking activity, instrument monitoring, and prioritization based on scientific need; the focus and organization to consistently produce research data of the highest quality; upbeat personality and ability to be a team player; track record of training research fellows, lab technicians and collaborator in new technologies.

The position is not for a candidate who is seeking an independent research position.

How to Apply: The successful candidate will be offered salary and benefits commensurate with experience and accomplishments. The appointment would be through the Title 42 mechanism. Applicants may be U.S. Citizens, resident aliens, or non-resident aliens holding or eligible for a valid employment visa. Applications must be received within one month of the date of publication of this ad. Please submit a curriculum vitae and brief statement of how your experience relates to the needed qualifications along with 3 letters of reference to: Neal S. Young, M.D. Director CHI c/o Christen Sandoval Building 15F2 MSC 2664 NIH Bethesda MD 20892, or electronically to christen.sandoval@nih.gov

The NIH is dedicated to building a diverse community in its training and employment programs. DHHS, NIH, and the NHLBI are Equal Opportunity Employers.
Can’t Do It? Let Them Come To You

If you simply can’t get away, consider hosting a sabbatical professor. Manish Patankar, Whelan’s host at the University of Wisconsin-Madison, didn’t take a sabbatical when he earned tenure a few years ago, but says his research program benefited when a sabbatical came to him in the form of Whelan’s visit. “She brought in skills and techniques we didn’t have in the lab,” he says. Whelan’s analytical chemistry background unexpectedly came in handy when she performed gas chromatography analysis on anticancer compounds the Patankar lab is exploring. Says Patankar, “You never know where things will go.”

The positive effects of a visiting scientist can ripple beyond your research group. Lyndal Trevena, an associate professor at the Sydney school of public health, University of Sydney, hosted Pignone on his sabbatical leave from UNC, and says his work had national impact. Pignone and his Sydney colleagues did a cost-effectiveness study on colorectal cancer screening in Australia. Trevena says that being on sabbatical, without teaching and administrative duties, meant Pignone could focus intensely on the project, including traveling to the capital of Canberra to talk to people in the government. Being an outside expert also gave extra weight to his perspective. All this raised the profile of their work, says Trevena. “The study has really been influential for advancing a program for colorectal cancer screening in Australia,” she says.

One of the study coauthors was Professor Kirsten Howard. Before Pignone arrived in her department, she knew of his work, but had never met him. Howard and Pignone quickly discovered common interests in shared decision-making—studying how patients and physicians can cooperatively make informed health care decisions. They now make up a forceful collaborative team, with Pignone contributing clinical expertise and Howard developing the health economics methods for two projects funded by grants they applied for while Pignone was in Australia. Howard’s department supported her own sabbatical the next year to UNC. To encourage the type of informal interactions that can develop into new scientific partnerships, Howard suggests integrating visiting scientists as much as possible into the department. She says, “Attending seminars, research presentations, and student talks creates chance encounters and conversations that can lead to spin-off collaborations and new research directions.”

—Kirsten Howard

“Attending seminars, research presentations, and student talks creates chance encounters and conversations that can lead to spin-off collaborations and new research directions.”

Chris Tachibana is a science writer based in Seattle, USA, and Copenhagen, Denmark.

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of your collaborator’s research and mentoring achievements, so Feldman says, “work with someone who is well respected in the field.”

Expect the Unexpected

From the other side of their sabbatical, professors say that although some people accomplish everything they propose—developing methods, publishing manuscripts, and writing books—many find that their plan simply isn’t feasible. Be flexible and be ready to change the project if necessary, or even better, if something more interesting comes along. University of New Brunswick’s Robert Austin says, “It’s exceeding unlikely that your sabbatical project will proceed exactly as planned, but be open-minded and you’ll see opportunities for collaborations and other sources of value that you didn’t see going into your sabbatical.”

Even Whelan, whose project went as planned, had unexpected scientific benefits from working at a new institution. After a colleague mentioned the university’s high throughput sequencing equipment, she used the facilities to enhance her research by characterizing the most successful DNA molecules from her screen. Some professors advise building flexibility into a research plan from the start. Propose a practical project that you know you can accomplish, to ensure that you get something done, but also work on something risky—that’s the point of a sabbatical.
The University of Texas Health Science Center at Tyler invites applications from an extramurally funded, outstanding investigator to serve as Chairman of Infectious Lung Diseases. The candidate should have a track record of successful research and extramural funding, and will oversee faculty members who are working on tuberculosis and influenza. Resources to support this recruitment include ample laboratory space, all necessary equipment, an endowment and unique UT System resources.

Tyler is located midway between Dallas and Shreveport amidst the picturesque lakes, hills and forests of East Texas. The Department of Infectious Lung Disease is part of the Center for Biomedical Research, which focuses on lung injury, coagulation and oncology, as well as pulmonary infectious diseases. A description of current faculty research interests can be found online at UTHSCT’s website http://www.uthct.edu/Research.

Associate and Full Professor level candidates will be considered. Applicants should submit their curriculum vitae, a statement of future research plans and the names of three references to: Dr. Anna Kurdowska, Faculty Search Committee Chair, University of Texas Health Science Center at Tyler, 11937 US Highway 271, Tyler, Texas 75708-3154, or by email to anna.kurdowska@uthct.edu.

The University of Texas Health Science Center at Tyler invites applications from outstanding scientists for state-funded faculty positions at all levels. Tyler is located midway between Dallas and Shreveport amidst the picturesque lakes and piney woods of East Texas. The mission of the basic and clinical research at the UT Health Science Center focuses on lung injury/repair and therapies, pulmonary infectious diseases, and oncology. Applicants in these and related fields are welcome. A strong track record of scientific accomplishment and current extramural funding are required.

A complete listing and description of current faculty research interests can be found online via UTHSCT’s website http://www.uthct.edu/Research. The successful candidate will bring or establish a dynamic independent research program in a discipline related to the mission of UTHSCT. Teaching in the biotechnology graduate program is encouraged but commensurate with committed research time. Our institution is growing and substantive resources are being allocated to build its translational research portfolio.

Applicants should submit their curriculum vitae, a statement of future research plans and the names of three references to: Dr. Anna Kurdowska, Faculty Search Committee Chair, University of Texas Health Science Center at Tyler, 11937 US Highway 271, Tyler, Texas 75708-3154, or by email to anna.kurdowska@uthct.edu.

**NANYANG TECHNOLOGICAL UNIVERSITY (NTU), NATIONAL UNIVERSITY OF SINGAPORE (NUS) AND SINGAPORE UNIVERSITY OF TECHNOLOGY AND DESIGN (SUTD) INVITE OUTSTANDING YOUNG RESEARCHERS TO APPLY FOR THE PRESTIGIOUS TRF AWARDS**

**TEMASEK RESEARCH FELLOWSHIP (TRF)**

A globally connected cosmopolitan city, Singapore provides a supportive environment for a vibrant research culture. Its universities Nanyang Technological University (NTU), National University of Singapore (NUS) and Singapore University of Technology and Design (SUTD) invite outstanding young researchers to apply for the prestigious TRF awards.

Under the TRF scheme, selected young researchers with a PhD degree have an opportunity to conduct and lead defence-related research. It offers:

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- Cognitive Science and Neuroengineering
- Cyber Security
- High Power Laser Diode
- High Speed High Voltage Switching Devices

For more information and application procedure, please visit:

- NUS — http://www.nus.edu.sg/dpt/funding/trf.html
- SUTD — http://www.sutd.edu.sg/trf

Closing date: 15 March 2013 (Friday)

Shortlisted candidates will be invited to Singapore to present their research plans, meet local researchers and identify potential collaborators in July 2013.

The University of Texas Health Science Center at Tyler invites applications from extramurally funded, outstanding scientist/administrators to serve as Chair of Oncology Research. Administrative experience required. Administrative responsibilities include overall leadership and professional mentorship of faculty within the department. Track record of successful research and current extramural funding required. Resources to support this recruitment include ample laboratory space, additional faculty positions to support growth of research programs and unique UT System resources.

Tyler is located midway between Dallas and Shreveport amidst the picturesque lakes and piney woods of East Texas. A new $40 million academic building housing the Oncology Program opened in November 2011. A complete listing and description of current faculty research interests can be found online via UTHSCT's website http://www.uthct.edu/Research.

The successful candidate will bring or a dynamic independent research program in oncology. Essential functions include: promoting research excellence and productivity, supporting education and training, and advancing community outreach. Associate and Full Professor level candidates will be considered.

Applicants should submit their curriculum vitae, a statement of future administrative and research plans and the names of three references to: Dr. Anna Kurdowska, Faculty Search Committee Chair, University of Texas Health Science Center at Tyler, 11937 US Highway 271, Tyler, Texas 75708-3154, or by email to anna.kurdowska@uthct.edu.
The Department of Pharmacology and Physiology at The George Washington University School of Medicine and Health Sciences invites applications for a full-time non-tenured faculty teaching position at the Assistant or Associate Professor level. The successful candidate will teach Pharmacology/Physiology courses to medical and health science students. Courses are team-taught with a strong clinical emphasis; the candidate will become course director for one or more of these courses.

Basic qualifications: a Ph.D. in physiology, pharmacology or related discipline and/or an M.D. Strong teaching credentials as evidenced by teaching evaluations and experience in teaching physiology, pharmacology or a related discipline.

Application process: Please complete an online faculty application at http://www.gwu.jobs/postings/13282 and upload curriculum vitae, a letter of introduction describing relevant teaching experience. Only completed applications will be considered. Review of applications will begin March 1, 2013 and continue until the position is filled.

The George Washington University is an Equal Opportunity/Affirmative Action Employer.

The Department of Neurosciences and Experimental Therapeutics invites applications for a tenure-track faculty position at the level of ASSISTANT/ASSOCIATE PROFESSOR. We are interested in outstanding scientists in the neurosciences, neuropharmacological or translational sciences with a strong record of extramural funding, research achievement and a commitment to graduate and medical education. Candidates should have a high level of competence and research productivity by way of scholarly publications, and a strong track record of external research grant support. The ideal candidate’s research program should also complement existing research strengths in the department. Current research programs focus on molecular, cellular and behavioral approaches to study brain development, aging, circadian biology, epilepsy, neurodegenerative diseases and stroke (for more details see http://medicine.tamhsc.edu/basic-sciences/index).

In addition to the departmental faculty, the neurosciences community at the Texas A&M consists of 70+ faculty located in the departments of Biology/Psychology, Veterinary Medicine with an active graduate program through the Texas A&M Institute for Neuroscience (http://tamin.tamu.edu). Clinical collaborations are possible through the Texas Brain and Spine Institute (http://www.txbsi.com/) as well as the Department of Psychiatry and Behavioral Science.

This position offers an outstanding research environment in a newly built research facility with a modern vivarium, and highly competitive start up packages, compensation and benefits. Successful candidates are expected to develop independent research programs that are well funded, and that take advantage of the diverse collaborative opportunities available. Candidates will also participate in teaching programs and service assignments within the Department. Review of applications will begin as they are received and continue until the positions are filled. Applicants should submit a current curriculum vitae, a statement of research goals and names/addresses of three references to: Dr. Farida Sohrabji, Chair of Search Committee, Department of Neuroscience and Experimental Therapeutics, Texas A&M Health Science Center, College of Medicine, Medical Research and Education Building, 8447 State Highway 47, Bryan, TX 77807 (Sohrabji@medicine.tamhsc.edu).

The TAMHSC is an Affirmative Action/Equal Opportunity Employer.
The University of Lethbridge is seeking two exceptional scholars to fill the positions of (i) Alberta Innovates Health Solutions (AIHS) Translational Health Chair: RNA in Health & Disease, and (ii) Campus Alberta Innovates Program (CAIP) Chair: Synthetic Biology & RNA Based Systems.

(i) The AIHS Translational Health Chair will address the priority area of Chronic Disease and will contribute to enhancing the province’s capacity to provide evidence-informed decisions regarding health promotion and disease prevention, and to translate research outcomes into effective treatment and prevention strategies and health care solutions.

The goal of this Chair position will be: (1) to develop internationally-recognized, long-term research that will build upon our understanding of factors that contribute to chronic diseases, and (2) to develop and implement effective and integrated knowledge mobilization strategies to ensure that new knowledge is transferred to end users to support disease prevention and to promote health equity in the province.

The candidate should have demonstrated expertise in the study of structure and function of RNA-based systems in vivo and/or in vitro using rational-design approaches to the biological systems under study (synthetic biology), biochemical, biophysical or molecular biology approaches, and bring a special focus on applications in chronic health conditions such as cancer, inherited diseases or acquired chronic conditions, including but not limited to viral infections like HIV and hepatitis.

(ii) The CAIP Chair, along with a special focus on the energy sector, must bring demonstrated expertise in the engineering of biological systems (synthetic biology) and the study of structure and/or function of RNA-based systems, using in vivo and/or in vitro approaches, having made major impacts in his or her fields of research. Candidates will be expected to play a lead role in contributing to the University’s capacity in synthetic biology and RNA Research.

The AIHS Translational Health Chair as well as the CAIP Chair will be appointed to the Department of Chemistry & Biochemistry at the University of Lethbridge.

The University of Lethbridge contributes to the multidisciplinary research and teaching community at the University of Lethbridge and facilitates the transfer of leading-edge knowledge into the private and public sectors, as well as academia. Members of the Institute operate several focused laboratories including: a laboratory for structure and function of small noncoding RNAs, a laboratory for biomolecular design and engineering, a laboratory for systems biology and mathematical modeling, and a laboratory for synthetic biology.

For more information about Canada’s Research Infosource 2012 Undergraduate Research University of the Year, please visit our website at www.uleth.ca.

For a detailed job descriptions, including submission requirements, please visit: uleth.ca/artsci/ResearchChairSearch

For more information please contact Dr. René Boeré at boere@uleth.ca.
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Faculty Positions at School of Chemical and Biomedical Engineering (SCBE)

Nanyang Technological University (NTU) in Singapore is ranked 47th in the QS World University Rankings 2012. SCBE at NTU invites applications for Assistant, Associate or Full Professors. For more information, visit www.scbe.ntu.edu.sg/About_Us/Pages/Open_Positions.aspx

Research Areas

- Chemical and Biomolecular Engineering Division
  - Process systems engineering
  - Product and process design
  - Pharmaceutical engineering
  - Food engineering
  - Separation technology
  - Colloid and interface science
- Bioengineering Division
  - Cardiovascular biomechanics
  - Bioinstrumentation
  - Biomedical processing and imaging
  - Biofluid
  - Neurobioengineering
  - Nature inspired bioengineering
  - Mechanobiology of cell-cell and cell-matrix interactions

Application Details

Guidelines: www.ntu.edu.sg/ohr/Career/SubmitApplications/Pages/Faculty.aspx
Email: scbe_recruit@ntu.edu.sg

www.ntu.edu.sg

FACULTY POSITION IN STRUCTURAL BIOLOGY and/or IMAGING

Department of Biochemistry and Molecular Biology
Thomas Jefferson University

The Department of Biochemistry and Molecular Biology at Thomas Jefferson University in Philadelphia invites applications for faculty positions in structural biology and/or molecular/cellular imaging, with the possibility of leading development of a new research center in the field of interest. We seek outstanding investigators to complement our existing strengths in structural biology, receptor signaling and protein trafficking, DNA repair, and transcriptional-translational regulation. The Department offers a highly collaborative culture and in conjunction with the Kimmel Cancer Center provides state-of-the-art core resources for structural biology, imaging and cancer biology research (http://www.kimmelcancercenter.org/research/).

All faculty ranks will be considered, and the successful candidate will have a demonstrated track record of research excellence and extramural funding, and will participate in graduate training.

Thomas Jefferson University is located in the vibrant Center City area of Philadelphia surrounded by a wide variety of cultural, historical, and recreational attractions. There is convenient housing for both faculty and trainees nearby, while the Philadelphia suburbs are readily accessible to Jefferson by mass transit or car. Thomas Jefferson University is an Affirmative Action/Equal Opportunity Employer.

Candidates should submit curriculum vitae, a brief statement of research interests and future plans, and contact information for three references to:

Dr. James Keen, Chair
Faculty Search Committee
c/o Ms. Lisa Wailes
Department of Biochemistry & Molecular Biology
Thomas Jefferson University
233 South 10th Street, BLSB 350
Philadelphia, PA 19107-5541
James.Keen@jefferson.edu
Or apply online at: www.jeffersonohr.org

FACULTY POSITIONS

McLaughlin Research Institute for Biomedical Sciences

Professor in Neurodegenerative Disease Research

McLaughlin Research Institute (MRI) seeks an innovative scientist at the Professor level with an established program in neurodegenerative disease research who can take advantage of the Institute’s strengths in mouse genetics and animal models. Low animal care costs and transgenic services at MRI facilitate mouse-intensive projects that would be cost-prohibitive at many other centers. Applicants with interests in human stem cell models for Alzheimer’s and related diseases are particularly encouraged to apply. Candidates should have a record of research excellence and a demonstrated ability to compete successfully for funding. The ability to establish intramural and extramural collaborations is essential. An endowed chair is a possibility for the successful candidate.

The Institute is a small non-profit organization located near Montana’s Rocky Mountain Front and offers a non-bureaucratic, interactive research environment in a spacious, modern research facility. Faculty members also benefit from the active involvement of MRI’s Scientific Advisory Committee (Irv Weissman, David Baltimore, David Cameron, Neal Copeland, Jeff Frelinger, Leroy Hood, and Nancy Jenkins). Contact George Carlson, MRI’s Director, for more information. Applications, including names and contact information for three to five individuals who may serve as references, should be sent to: Search Committee, 1520 23rd Street South, Great Falls, MT 59405 or admin@mri.montana.edu

Purdue University Center for Animal Welfare Science
Cluster Hire

Purdue University has a well-established record of excellence in research and teaching programs in Human Animal Bond and Farm Animal Welfare. The newly created Purdue Center for Animal Welfare Science hosts the largest collaborative group of scientists in the United States working in these fields, utilizing diverse, cross-disciplinary approaches in the areas of animal and poultry science, veterinary medicine, psychology, philosophy, genetics, public health, and zoology. The mission of the Center is to promote the welfare of animals through innovation in research, education and outreach. To further enhance our capacity, we are currently looking to fill three new tenure track positions: a Center Director and two Assistant Professors.

Director position: A tenure-track senior faculty position in domestic animal welfare is available to head the Center for Animal Welfare Science. This individual will lead a team of scientists and educators in the Department of Animal Sciences (College of Agriculture) and Comparative Pathobiology and Veterinary Clinical Sciences (College of Veterinary Medicine) by facilitating research, teaching, and extension efforts. For details regarding the position, please go to: http://www.vet.purdue.edu/cpb/employment.php

Assistant Professor, Human–Animal Interactions position: A tenure-track faculty position is available in Human-Animal Interactions based in the Department of Comparative Pathobiology at Purdue University College of Veterinary Medicine. For details regarding the position, please go to: http://www.vet.purdue.edu/cpb/employment.php

Assistant Professor, Animal Welfare position: A tenure-track faculty position in Animal Welfare is available at Purdue University. The home department will be determined based on the area of expertise of the successful applicant. For details regarding the position, please go to: http://www.vet.purdue.edu/cpb/employment.php

A background check is required for employment in these three positions. Purdue University is an Equal Opportunity/Equal Access/Affirmative Action Employer fully committed to achieving a diverse workforce.
Director of Research – Van Andel Research Institute

Van Andel Research Institute currently seeks an accomplished, energetic, and visionary Director of Research to lead the strategic development of its basic oncology science, neurodegenerative science, and translational programs. The Director will have a unique opportunity to shape and influence the focus of these research initiatives, guiding the private, independent biomedical institute to achieve its full potential.

VARI is located in a rapidly growing life sciences community in Grand Rapids, Michigan; it currently houses 23 laboratories devoted to basic science/translational research and dedicated to exploring the genetic and molecular mechanisms underlying disease.

Applications are invited from candidates who have a Ph.D. in biological sciences, an M.D., or both. Candidates will be expected to have a reputation for outstanding scholarship and a track record of significant research contributions, preferably in cancer, in order to build upon our established foundation and legacy. Experience in basic science and background in translational research are requirements. Experience in clinical research is desirable, as are connections to the scientific, biotechnology, and pharmaceutical communities.

Learn more about this exceptional opportunity by visiting


Van Andel Research Institute is an Equal Opportunity Employer.

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Established Cardiovascular Investigator

The new Department of Integrative Biology and Physiology at the University of Minnesota Medical School seeks outstanding faculty candidates in integrative systems biology of the cardiovascular system and related fields at the Associate or Full Professor levels. Substantial resources including leading focused junior faculty cluster hires for program development and new state-of-the-art research buildings are committed to this effort:

http://www.abc.umn.edu/research/bdd/

Successful candidates will have an established and innovative research program that embraces biological complexity from molecular building blocks to the living organism. Applicants must have a strong record of research accomplishments, as documented by publications in leading peer-reviewed journals. A commitment to excellence in teaching is essential. An outstanding record of extramural funding with a multiple grant portfolio in teaching is essential. An outstanding record of contributions, preferably in cancer, in order to build upon our established foundation and legacy. Experience in clinical research is desirable, as are connections to the scientific, biotechnology, and pharmaceutical communities.

To apply, send a cover letter, curriculum vitae, three representative publications, separate statements of research focus/plans, teaching philosophy/experience, and three reference letters of support to Anna Fields, attn. Biology Education Faculty Search Committee, School of Life Sciences, 207 Biomedical Sciences Building, University of Minnesota, 420 Delaware St SE, Minneapolis, MN 55455. Applications will be reviewed weekly thereafter until the search is closed. For additional information, please feel free to contact James Collins (jcollins@umn.edu) or Jane Maienschein (Maienschein@umn.edu).

The University of Minnesota is an Equal Opportunity Educator and Employer.

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New Faculty Position in Biology and Education

The School of Life Sciences at Arizona State University is making a commitment to enhancing life science education at the undergraduate level. ASU is a dynamic, progressive university dedicated to interdisciplinary collaborations, to rethinking university education, and to integrating excellence in research and teaching. The School of Life Sciences at Arizona State University’s Tempe campus is committed to reflective curricular development and innovation, with a focus on learner-centered education and teaching excellence. We are revising introductory courses, promoting active learning, and introducing a diversity of innovative approaches to instruction. ASU offers opportunities for collaboration with diverse science education initiatives across the university. To support this effort, the School invites applications for a tenure-track position at any level. The successful applicant will have a strong disciplinary content knowledge in biological sciences, established expertise in and commitment to biology education including scholarship related to teaching and learning and evidence of the capacity for leadership. Candidates must have a primary research focused on teaching and learning in biology at the undergraduate level, which will promote quality undergraduate instruction through independent and collaborative efforts and will promote the SoLS teaching mission. The successful candidate will demonstrate scholarly excellence with the capacity to develop and sustain a creative, extramurally-funded research program in education-related work in the biological sciences, with evidence of interdisciplinary collaboration. In addition, candidates with demonstrated records of mentoring at the undergraduate, graduate, and/or postdoctoral levels, strong records of outreach and service, and experience working in a highly-interdisciplinary environment like the ASU School of Life Sciences are preferred. The start-up package, teaching, and service loads will support the expected high research productivity. Candidates must have a Ph.D. in biological sciences or education, with experience or training equivalent to a Master’s degree in the other area. All qualifications will be evaluated as appropriate to the level of appointment.

To apply, send a cover letter, curriculum vitae, three representative publications, separate statements of research focus/plans, teaching philosophy/experience, and three reference letters of support to Anna Fields, attn. Biology Education Faculty Search Committee, School of Life Sciences, 207 Biomedical Sciences Building, University of Minnesota, 420 Delaware St SE, Minneapolis, MN 55455. Applications will be reviewed weekly thereafter until the search is closed. For additional information, please feel free to contact James Collins (jcollins@umn.edu) or Jane Maienschein (Maienschein@umn.edu).

A background check is required for employment at Arizona State University, which is an Equal Opportunity/Affirmative Action Employer committed to excellence through diversity. We especially encourage women and minorities to apply. For additional information on this position and the School of Life Sciences, please visit http://sols.asu.edu/jobs.
At Stony Brook Medicine, our highest calling is to put the power of ideas to work in our patients’ lives. Stony Brook Medicine integrates and elevates all of Stony Brook University’s health-related initiatives: education, research and patient care. It includes Stony Brook University Hospital, Long Island’s premier academic medical center. With 597 beds, SBUH is the region’s only tertiary care center and Regional Trauma Center. We are home to the Stony Brook Hospital, Stony Brook Cancer Center, Stony Brook Long Island Children’s Hospital, Stony Brook Neurosciences Institute and Stony Brook Digestive Disorders Institute. At Stony Brook Medicine, we put the power of ideas to work. Join our team at Stony Brook Medicine — the best ideas in medicine.

Assistant/Associate Professor

Stony Brook University’s Department of Physiology and Biophysics and the Stony Brook Cancer Center invite applications for a tenure-track Assistant Professor Position. Exceptional candidates at the Associate Professor level will also be taken into consideration. The successful candidate is expected to have an externally funded program in cancer-related research. The position includes a generous start-up package and laboratory space in the Department of Physiology and Biophysics. Departmental and Institutional support facilities include cores for advanced microscopy and imaging, proteomics, microarray, metabolomics/lipidomics and bioinformatics. The Department also has access to the facilities at Brookhaven National Laboratory. For a description of departmental research activities, please visit http://www.psb.sunysb.edu/. For additional information about the Cancer Center, visit http://cancer.stonybrookmedicine.edu. To qualify for an appointment as an Associate Professor, the candidate must meet the criteria established by the School of Medicine (School of Medicine’s Criteria for Appointment, Promotion and Tenure). A PhD, MD or MD/PhD; postdoctoral research experience; and a record of peer-reviewed publications are required. The priority deadline is May 1, 2013.

For a full position description, application procedures or to apply online, visit www.stonybrook.edu/jobs (Job Reference #: F-7698-13-01) or submit a State employment application, curriculum vitae, list of publications, description of research interests and three letters of reference to:

Search Committee Chair
Department of Physiology and Biophysics
Stony Brook University
Stony Brook, NY 11794-8661

The University of Minnesota is an Equal Opportunity Institution, committed to recruiting, hiring, and promoting qualified minorities, women, individuals with disabilities, and veterans.
**UW Medicine**

**SCHOOL OF MEDICINE**

The Seattle Children’s Research Institute and the Department of Pediatrics at the University of Washington School of Medicine are recruiting a qualified individual to serve as the **Director for the Center for Childhood Infections and Prematurity Research** at Seattle Children’s Research Institute. The Center’s research vision is to translate basic biology to strategies for the diagnosis, treatment and prevention of infectious diseases and conditions that impact children locally, nationally, and globally. The Center for Childhood Infections and Prematurity Research is located on one floor of the modern 225,000sq ft. Seattle Children’s Research Institute and has mature programs in host-pathogen interactions, global and emerging infectious diseases, vaccine discovery and evaluation, mechanisms of microbial drug resistance.

The Center Director will be responsible for the allocation of research space and available resources within the policies of the SCRI and will develop a vision for the Center, recruit outstanding scientists, support and collaborate with current scientists within the Center, mentor current and future faculty, and actively participate in philanthropic efforts on behalf of the Center and Seattle Children’s Research Institute. This is a full-time academic appointment at the rank of Professor, without tenure (MD and/or PhD required). The successful candidate must have an established record of academic achievement and leadership experience and active NIH-funded research grants. For more information see: [www.seattlechildrens.org/research](http://www.seattlechildrens.org/research). Please send CV and a statement of current and future research interests to: Danielle Zerr, MD, MPH, Chair, Search Committee, Professor, Department of Pediatrics, Division of Infectious Disease, Danielle.Zerr@seattlechildrens.org

**Facilities**

University of Washington faculty engage in teaching, research, and service. In order to be eligible for University sponsorship for an H1-B visa, graduates of foreign (non-U.S.) medical schools must show successful completion of all three steps of the U.S. Medical Licensing Exam (USMLE), or equivalent as determined by the Secretary of Health and Human Services. The University of Washington is building a culturally diverse faculty and strongly encourages applications from female and minority candidates. The University is an Equal Opportunity Affirmative Action Employer.

If you have a question about the details of this search/position please contact the hiring unit directly. Thank you for your interest in this position at the University of Washington.

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**FACULTY POSITIONS**

**UT SOUTHWESTERN MEDICAL CENTER**

**CHAIR Department of Bioinformatics**

The University of Texas Southwestern Medical Center is seeking for a Chairperson to establish a new Department of Bioinformatics. We are seeking an individual to form a world-class department within an exceptionally strong biomedical research environment. The successful candidate will have a robust and internationally recognized research program in bioinformatics, a record of superb scientific achievement, outstanding leadership skills, and a strong vision for establishing and leading the department. The Chair will be expected to recruit six new faculty members who are leaders in bioinformatics and informatics-driven biomedical discovery. The Chair will also foster and grow a research environment that integrates with existing departments, programs, and infrastructure and will establish a graduate program in bioinformatics and genomics. Significant resources will be provided to accomplish these endeavors.

Interested individuals should send a curriculum vitae and a cover letter to the Chair of the Search Committee, W. Lee Kraus, Ph.D. (lee.kraus@utsouthwestern.edu).

The University of Texas Southwestern Medical Center is an Equal Opportunity Institution.
Here’s why you should advertise in this issue:

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Postdoctoral Fellowships in Genomic Biology
at the University of Illinois at Urbana-Champaign

The Institute for Genomic Biology at the University of Illinois at Urbana-Champaign offers a number of fellowships for truly exceptional young scholars who have completed their Ph.D. within the last several years, and are looking for a stimulating and supportive interdisciplinary environment to carry out independent and collaborative research in the field of genomic biology. IGB Fellows will spend up to three years conducting research in one of several research themes in the Institute, and ideally this research will also overlap with two or more of these thematic areas. Visit www.igb.illinois.edu/content/fellows-application for more information about the Institute, the research themes and the application procedures. The closing date for all positions is April 1, 2013. Fellows will be announced on or about May 15, 2013.

Biocomplexity
We seek a postdoc with a strong quantitative background to join a multidisciplinary group exploring collective effects in biology from the genome to the ecosystem scale. Ongoing research addresses the emergence of life and the nature of evolution prior to the Last Universal Common Ancestor, the evolution of core cellular machinery in Archaea and other domains of life, the role of horizontal gene transfer in shaping communities of microbes and phages, genomics and phylogenetics, and the systems biology of microbes, biofilms and ecosystems. We are also developing an interest in evolvability, with a special interest in combating the emergence of antibiotic resistance.

(Nigel Goldenfeld, Theme Leader)

Genomic Ecology of Global Change
The Fellow will be involved in a cross-disciplinary project investigating how changes in networks of genes affect plant and ecosystem function when challenged by elements of global change, including greater carbon dioxide, ozone, drought, temperature, disease and herbivory. The ideal candidate will have a strong background in plant biology and a record of expertise in molecular biology, genomic ecology, physiology or modeling of gene networks or ecosystem function. The ability to work creatively and productively in a highly interdisciplinary and collaborative environment is essential.

(Don Ort, Theme Leader)

Energy Biosciences Institute
The Energy Biosciences Institute (EBI) is an externally funded theme within the IGB. It is the largest academia collaboration to date, currently receiving $500 million over ten years and focusing on the development of second-generation biofuels intended to significantly slow the rate of global climate change. Its research ranges from systems biology of fermentative organisms to quantification of ecosystem services provided by new sustainable biofuel crops. The EBI also has an interest in geomicrobial approaches to increasing the efficiency of oil extraction. The full range of research can be seen at www.energybiosciencesinstitute.org. We seek an outstanding candidate across these areas interested in applying genomic biology to understanding and developing opportunities for improving sustainable biofuel production. Research can be at any point in the supply chain from improving feedstocks and their environmental sustainability to producing fuel. The appointee will work in an interdisciplinary laboratory of over 100 exceptional colleagues focused on this challenge. The appointment would also involve collaboration with our partners: UC Berkeley and BP.

(Isaac Cann, Theme Leader)

Cellular Decision Making in Cancer
We seek an individual with interest in quantitative biology. Our theme faculty members have expertise in single molecule biophysics, genomics and chemical biology. Building on the current strengths on cell death, antiviral signaling, stem cell differentiation, live cell probing of decision making and genome instability modeling, we aim to develop a multiple-scale narrative on how single molecule events in the cell are integrated into the protein networks to determine the cell fate. Cancer is a major focus area of research.

(Taeckjip Ha, Theme Leader)

Business, Economics, and Law of Genomic Biology
We seek an individual with training in economics, business, law, or strategy and with an interest in technology entrepreneurship, technology industries, and biotechnology. The Fellow will join a multidisciplinary group that includes business, law, and technology experts; agricultural economics faculty; and personnel from the campus Office of Technology Management. Our theme is exploring issues in university-industry technology transfer, industry evolution, intellectual property protection, the competitive and cooperative dynamics for both entrepreneurial start-ups and existing corporations, the impact that globalization of biotechnology has on the evolution of industry, and the position of U.S. firms in the global marketplace.

(Jay Kesan, Theme Leader)

Regenerative Biology & Tissue Engineering
The Fellow will be involved in one or more of our multidisciplinary projects related to regenerative biology and harnessing the potential of adult/embryonic stem cells for tissue engineering applications. Of particular interest is leveraging theme expertise in biomaterials fabrication, drug delivery systems, microfluidics-based in vitro experimental platforms, and in vivo evolutionary biology and regeneration medicine studies. The ideal candidate will have experience in one or more areas of (stem) cell biology, induced pluripotent cell technology, biomaterials, microfluidics, and/or tissue engineering.

(Paul Kenis, Theme Leader)

Mining Microbial Genomes
The Fellow will be involved in one of several multidisciplinary projects focused on (1) the discovery, design, and development of novel antibiotics, or (2) the assignment of function to novel enzymes discovered in genome projects. The ideal candidate will have a proven record of expertise in microbiologically produced natural products and/or enzyme evolution. We are interested in candidates with previous experience in bacterial metabolism, bacterial genetics, molecular biology, biochemistry, enzyme evolution, metabolic engineering, organic synthesis, mass spectrometry, bioinformatics and/or metagenomics.

(Bill Metcalf, Theme Leader)

Gene Networks and Diversity
We seek a biologist with strong bioinformatics skills and training in one or more of the following areas: gene regulation (especially relating to transcription factor dynamics or epigenomics), evolutionary biology, neuroscience, or systems biology. Applicants with expertise in both experimental biology and bioinformatics will be strongly preferred. The successful candidate will join a multidisciplinary team using systems biology approaches to analyze regulatory mechanisms underlying complex developmental and behavioral phenotypes, and components that may define determinants of inter- and intraspecies diversity. Fellows are expected to conduct research that contributes to the development of theme goals by integrating components from multiple theme members’ areas of expertise.

(Brenda Wilson, Theme Leader)

Host-Microbe Systems
The Fellow will be responsible for developing DNA isolation, microbial isolation, 16S rRNA gene sequencing and other metagenomic analysis techniques for surveying microbial content of the human and nonhuman primate vaginal and intestinal microbiomes. Additional responsibilities will include the culture isolation and genome sequencing and other molecular biology techniques to examine microbial, metabolic, and immunologic contents, phylogenetic comparisons, and performing analyses using bioinformatics and other computational and analytical methods. The ideal candidate will have a strong background in microbiology, biochemistry, or a related field with experience and expertise in molecular microbial ecology and bioinformatics and/or bio-statistics.

(Brenda Wilson, Theme Leader)

The University of Illinois is an Affirmative Action/Equal Opportunity Employer

www.igb.illinois.edu
Postdoctoral Position Announcement
at the University of Illinois at Urbana-Champaign, Institute for Genomic Biology

We are seeking postdoctoral research associates to conduct research on a five-year research award from the Bill & Melinda Gates Foundation (BMGF). The project, titled “RIPE – Realizing Increased Photosynthetic Efficiency,” has the potential to benefit farmers around the world by increasing productivity of staple food crops. The goal of the research is to improve the photosynthetic properties of key food crops, particularly rice and cassava. Increasing photosynthetic efficiency has not yet been addressed by conventional breeding methods, though it has the potential to increase yields and increase efficiency of water and nitrogen use. Project team members will apply recent advances in photosynthesis research and crop bioengineering in RIPE. In addition, computer simulation models of the highly complex photosynthetic system, from metabolic networks to field crop biophysics, combined with practical engineering, will identify the best targets for improving photosynthesis efficiency.

**DUTIES & RESPONSIBILITIES:** The postdoctoral positions will conduct research to improve photosynthesis and yield in C3 crop plants. Responsibilities of the team of appointees will be to develop a computational engineering framework for selecting systems and synthetic approaches to increasing crop photosynthesis, practical engineering of the selected changes, and molecular, biochemical and whole crop physiological phenotyping in the laboratory and field.

**EDUCATION & EXPERIENCE:** Prospective candidates need a PhD in plant biology, plant genetics, plant biotechnology or a closely related discipline. Demonstrated skills in one or more of the following areas of photosynthesis research is required: molecular biology and genetics, plant transformation, use of available bioinformatics resources, gas exchange and/or mechanistic modeling which could be at the level of metabolic pathways or field crop biophysics/micrometeorology. The duties of this position require that the incumbent have a strong background in plant molecular biology, plant biochemistry/physiology, or computational biology and be broadly knowledgeable of photosynthesis. Good oral and written communication skills coupled with the ability to work independently and cooperatively are required.

**PROPOSED START DATE:** As soon as possible.

**SALARY:** Commensurate with qualifications and experience.

**APPOINTMENT STATUS:** Up to five years, contingent on changes in project scope and performance.

**APPLICATION PROCESS:** Please send a letter of application, resume/CV, and three professional references including phone number and email address to the RIPE Program Manager, Lisa Emerson <lemerson@illinois.edu>.

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The International Center for Young Scientists (ICYS) of the National Institute for Materials Science (NIMS) is now seeking a few researchers. Successful applicants are expected to pursue innovative research on broad aspects of materials science using most advanced facilities in NIMS ([http://www.nims.go.jp/eng/index.html](http://www.nims.go.jp/eng/index.html)).

In the ICYS, we offer a special environment that enables young scientists to work independently based on their own ideas and initiatives. All management and scientific discussions will be conducted in English. An annual salary between 5.03 and 5.35 million yen (level of 2012) will be offered depending on qualification and experience. The basic contract term is two years and may be renewed to one additional year depending on the person’s performance. A research grant of 2 million yen per year will be supplied to the ICYS researcher. All applicants must have obtained a PhD degree within the last ten years. Applicants should submit an application form, which can be downloaded from our web site, together with a resume (CV) and a list of publications. A research proposal on an interdisciplinary or integrated area related to the materials science should also be submitted. The application letter should reach the following address via e-mail or air mail **by March 29, 2013**. Visit our website for more details ([http://www.nims.go.jp/icyrs/](http://www.nims.go.jp/icyrs/)).

ICYS Administrative Office,
National Institute for Materials Science
Sengen 1-2-1, Tsukuba, Ibaraki 305-0047, Japan
e-mail: icys-recruit@nims.go.jp
ASSISTANT/ASSOCIATE PROFESSOR of Biology

Morris College, a private four year Liberal Arts College in Sumter, South Carolina, is seeking to fill the following position(s): Assistant/Associate Professor of Biology. Will teach three sections of a laboratory-based, general education (for non-majors), introductory biological sciences course. Duties also include student advising, committee assignments, participation in registration, and other duties as needed. Must have a Ph.D. or M.S. degree in biology. Must be available for employment in August 2013.

Submit a letter of application, personal resume, three letters of recommendation, and official academic transcripts to: Director of Personnel, Morris College, 100 W. College, Sumter, SC 29150-3899. Morris College is an Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF HAWAII at Manoa Cancer Center

AAAS is here – helping scientists achieve career success.

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A complete career resource, free to the public, Science Careers offers a suite of tools and services developed specifically for scientists. With hundreds of career development articles, webinars and downloadable booklets filled with practical advice, a community forum providing answers to career questions, and thousands of job listings in academia, government, and industry, Science Careers has helped countless individuals prepare themselves for successful careers.

As a AAAS member, your dues help AAAS make this service freely available to the scientific community. If you’re not a member, join us. Together we can make a difference.

To learn more, visit aaas.org/plusyou/sciencecareers