Faculty Positions, Environmental Engineering, University of Notre Dame

The Department of Civil Engineering and Geological Sciences, University of Notre Dame, Notre Dame, Indiana, invites applications for multiple tenure-track positions in environmental engineering to complement existing faculty in environmental science and engineering. Qualified candidates at all levels, including an Endowed Chair, will be considered, with hiring rank and tenure status commensurate with academic accomplishments. Areas of interest include, but are not limited to: membrane processes for water treatment, microbiological aspects of water treatment and supply, nanoparticles/nanoengineering in the environment, environmental sensor/monitoring systems, and modeling of environmental processes and systems. The Department has a unique blend of environmental engineering and environmental science faculty, and has outstanding research facilities. Our current strengths include environmental remediation, environmental geochemistry, mineralogy, applied microbiology, geomicrobiology, environmental and computational fluid mechanics, and groundwater hydrology. Information about the Department and Environmental Engineering Program can be found at website: http://www.nd.edu/~cegeo/. We seek individuals with dynamic and highly innovative research agendas that may cross traditional disciplinary boundaries. Qualifications include a Ph.D. in civil or environmental engineering or related field. Candidates are expected to exhibit a dedication to excellence in research, teaching, and professional service. The application package should include a cover letter addressing preparation for this position, curriculum vitae, a statement of research and teaching interests, and names and contact information of four references. Applications should be sent electronically, preferably as a single PDF file, or by mail to: Dr. Robert Nerenberg (e-mail: erweng@nd.edu), Department of Civil Engineering and Geological Sciences, 156 Fitzpatrick Hall, University of Notre Dame, Notre Dame, IN 46556-0767. Review of applications will begin immediately, but applications will be accepted until the position is filled. The University of Notre Dame is committed to diversity and equality in education and employment, and women and members of underrepresented minority groups are strongly encouraged to apply.

PLANT EVOLUTIONARY DEVELOPMENTAL GENETICIST SEARCH 2008

The Department of Biology (comprising the newly merged Departments of Botany and Zoology) at the University of Florida invites applications for a nine-month, tenure-track faculty position in plant evolutionary developmental genetics at the level of ASSISTANT PROFESSOR, effective fall semester 2009. We offer a collegial environment that fosters collaborative, interdisciplinary research. Individuals examining plant developmental morphology and its genetic control in a comparative and/or evolutionary context are especially encouraged to apply. Instruction at both undergraduate and graduate levels is expected, including a course in plant anatomy/morphology, and also genetics and/or involvement in introductory biology. Successful applicants must have a Ph.D. and postdoctoral experience. Our faculty enjoy strong ties with the Plant Molecular and Cellular Biology Program, University of Florida Genetics Institute, University of Florida Emerging Pathogens Institute, the Florida Museum of Natural History, and multiple University centers in biomedical, veterinary, environmental, and agricultural sciences. Applicants should submit an electronic application consisting of a cover letter, curriculum vitae, statements of research and teaching interests, and three reprints; please go to website: http://www.biology.ufl.edu/search/ to apply. Applicants should also arrange to have three letters of reference mailed to: Plant Evolutionary Developmental Genetics Search, P.O. Box 118525, University of Florida, Gainesville, FL 32611-8525 U.S.A. Review of applications will begin on January 12, 2009, and will continue until the position is filled. Our Department is committed to diversity as a component of excellence. Women and members of underrepresented groups are particularly encouraged to apply. The University of Florida is an Equal Opportunity/Institution.

ASSISTANT or ASSOCIATE PROFESSOR
Center of Excellence for Infectious Diseases

The newly created Center of Excellence for Infectious Diseases at the Paul L. Foster School of Medicine at El Paso is seeking highly qualified applicants for tenure-track faculty positions at the Assistant or Associate Professor level in the Department of Bio-Medical Sciences.

Successful candidates are expected to develop an independent, collaborative research program in infectious diseases or a related field within two to three years. The positions report to the Co-Directors of the Center of Excellence for Infectious Diseases.

Minimum qualifications. M.D. or Ph.D. degree in a field related to infectious diseases or immunology, three years of postdoctoral experience, and a strong publication record.

Preferred qualifications. Candidates with experience in emerging infectious diseases, experience using the latest technologies and funded grant support are particularly encouraged to apply. (Only candidates with funded grant support will be considered for Associate Professor rank.)

A competitive salary, startup package, and comprehensive benefits are available. Interested candidates must apply online at website: http://jobs.texastech.edu, requisition # 77147. For further information, potential applicants may inquire confidentially to: Manjunath Swamy, M.D., e-mail: manjunath.swamy@ttuhs.edu or Premlata Shankar, M.D., e-mail: premlata.shankar@ttuhs.edu, Co-Directors of the Center of Excellence for Infectious Diseases. The position is open until filled. Application review will begin immediately.

Texas Tech University Health Sciences Center is an Equal Opportunity/Affirmative Action Employer.

ECOLOGIST

The Department of Biology at the University of North Carolina at Greensboro is seeking to hire a tenure-track Ecologist working at large spatial scales on issues related to environmental health. Appointment is anticipated at the level of ASSISTANT PROFESSOR but especially well-qualified candidates may be considered for ASSOCIATE PROFESSOR. Tenure may be offered at the Associate rank depending on the selected candidate’s qualifications. The Biology Department has 21 tenure-track faculty, offers undergraduate and M.S. degrees in biology, and affiliated programs in Environmental Science (see website: http://www. uncg.edu/bio/). Successful applicants would be expected to develop a strong, externally funded research program, train undergraduate and graduate students, make significant contributions to the new Ph.D. program, and teach courses relevant to their specialty. Synergies with faculty in related disciplines are encouraged.

Candidates must hold or anticipate the Ph.D. by August 1, 2009, and postdoctoral experience is preferred. Applicants should e-mail or post a cover letter, curriculum vitae, brief statements of research goals and teaching philosophies, and arrange for three letters (e-mail acceptable with hard copy to follow) of recommendations to Ms. Katie Martin (e-mail: kamart@uncg.edu), Biology Department, University of North Carolina Greensboro, 312 Eberhart Building, 100 Eastichel Street, Greensboro, NC 27412. Evaluation of applications will begin December 1, 2008. Position starts in August 2009. Inquiries should be directed to Dr. A.E. Hershey (e-mail: aechers@uncg.edu). Applications are invited until the position is filled. UNC Greensboro is especially proud of the diversity of its student body and we seek to attract an equally diverse applicant pool for this position, including women and members of minority groups. We are an Equal Employment Opportunity/Affirmative Action Employer with a strong commitment to increasing faculty diversity.

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AAAS
CELTIC STRENGTH: SCIENCE IN IRELAND

Lush green hills, miles of rugged coastline, a vibrant history, charming neighbors, a pub at every corner, and a prospering economy ... Sounds like an idyllic place to live, but would you want to do your research there?

By Laura Bonetta

A decade ago the answer likely would have been “no” for most scientists, but today Ireland is carving a place for itself among those countries leading the world in scientific research and development. A significant commitment by the government to develop a “knowledge economy” has resulted in greater opportunities for scientists and engineers. “We are in a totally different world,” says David McConnell, head of the genetics department at Trinity College Dublin (TCD). “Now we have the government behind us.”

In 2007 the Irish government and European Union invested €995 million (US$1.328 billion) in research. This is a considerable investment in a country with a population of just over 4 million people. And the results are easy to spot. A growing number of research institutes/centers and biotech companies are popping up across the country, and more Irish students are obtaining graduate degrees than ever before. As Ireland’s science enterprise begins to establish itself, it is providing researchers with challenges, as well as unparalleled opportunities.

The Switch to Irish Funding

Until about 10 years ago, there was next to no funding for research in Ireland. “The real lift-off began in 2000,” says Patrick Cunningham, the government’s chief scientific adviser since 2007. “In the subsequent seven years the government spending on research went up by 264 percent. That means that the growth rate in research and development increased at twice the rate of the economy, which is growing at a rate of 7 percent a year in Ireland.”

The Irish government announced in June 2006 a Strategy for Science, Technology and Innovation involving an investment of €8.2 billion (US$10.9 billion) over the next seven years. The purpose of the strategy was to turn Ireland into a knowledge economy as the best way forward for economic development. “It was a very deliberate policy change,” explains Cunningham.

Historically many pharmaceutical companies had established a presence in Ireland because of favorable corporate tax breaks and relatively cheap labor. “But the government realized that, if we were to remain attractive for foreign investment, our people would have to be trained to perform higher level functions,” says Cunningham.

In 2006, the seven Irish universities and a number of institutes of technology awarded 979 Ph.D.s, 565 of which were in science and engineering disciplines. One of the targets under the Strategy for Science, Technology and Innovation is to increase the annual Ph.D. output to 1,300 by 2013. Additional goals are to “increase the number of research teams led by internationally competitive principal investigators” and to “develop sustainable career paths for researchers.”

The growth rate in research and development increased at twice the rate of the economy.

From Top: Ireland’s coastline; Issault Lynch; Patrick Cunningham; The CRANN SFI CSET Building at Trinity College Dublin

UPCOMING FEATURES

Regenerative Medicine (online only) — November 7
Diversity: GLBT (online only) — December 5
Faculty 1: Choosing the Right Postdoc for Your Lab — February 6
These tasks fall in the hands of the Science Foundation Ireland (SFI), the country’s main research funding agency—a cross between the National Institutes of Health (NIH) and the National Science Foundation (NSF) in the United States. SFI was established in 2000 to support researchers working in those fields of science and engineering that underpin biotechnology, information and communications technology, and sustainable energy and energy-efficient technologies development. “SFI’s mandate is to invest in basic science in areas related to the economy,” says McConnell.

SFI has a budget of €1.4 billion (US$1.9 billion) to spend over 2007–2013, translating to about €200 million (US$267 million) per year. “SFI is a component of a national economic program. We are focused on scientific excellence rather than short-term results,” says Frank Gannon, who became SFI director general in July 2007, after leaving his post as executive director of the European Molecular Biology Organization (EMBO).

A major area of research funding for SFI is “interdisciplinary” research—a catchword for many granting bodies but, says Gannon, a good match for Ireland. “The country is extremely well placed to be a leader in this area. We have many leading pharmaceutical and software companies in a small country with strong social networks. At SFI we look to develop programs in convergence areas,” says Gannon. “In many other countries research programs have grown more in silo fashion.”

A Changing Landscape
People who have worked in Ireland for many years have seen a huge change. “After graduating from Caltech [California Institute of Technology] in 1970, I came back to Ireland,” recalls McConnell. “But it was not a good idea from the point of view of a scientific career. In fact it was a silly move.” McConnell left for Harvard University, where he worked 1976–1977, but then returned to Ireland once again because “it looked as if things were going to change,” he says.

McConnell joined the department of genetics at Trinity College Dublin in the late 1970s, a department that had been founded in 1958 with money from the Irish Sugar Company. At the time, it was difficult to obtain funds to conduct the kind of research McConnell had been used to doing in the United States.

By 1979, the European Commission (EC) started providing some grants for research. McConnell and colleagues at Trinity became very adept at obtaining these grants. “We relied heavily on EC funding for many years and built a lot of contacts with European scientists,” recalls McConnell. With EC funding, geneticists at Trinity were able to participate in three of the early genome sequencing projects in yeast, Arabidopsis, and Bacillus subtilis.

After the year 2000, Irish scientists began to switch from EC funding to grants from SFI and other Irish agencies. “Today the funding is outstanding,” says McConnell. “It is sufficient to allow you to compete internationally.” McConnell’s department—which moved to the Smurfit Institute of Genetics in 1998 with support from various philanthropies—currently receives €7 million (US$9.3 million) in annual research funding to support 15 groups and a total of about a hundred researchers. This year the department celebrated its fiftieth anniversary with a symposium held on 17–20 September with James Watson as a guest of honor.

Ciaran Regan also returned to Ireland in the pre-SFI days, after having worked many years in The Netherlands and London. “The transformation has been phenomenal,” says Regan, a professor of neuropharmacology at University College Dublin (UCD). Regan’s lab is located in UCD’s Conway Institute of Biomolecular and Biomedical Research, a new building constructed in 1999 with funds from government and private donors. “It is the most magnificent and largest research center in Ireland,” says Regan. “Working in this building has an unimaginable impact. It brings pressure to deliver and maintain a certain standard of research, but also an incredible sense of pride.”

Regan’s research focuses on synaptic plasticity—the ability of connections between neurons to change in strength—and its role in learning and memory. In addition to running his own lab, he directs the Applied Neurotherapeutic Research Group, a collaborative research initiative funded jointly by SFI and Wyeth, to understand the molecular underpinnings of changes in behavior and to identify new drug targets for diseases such as schizophrenia.

This type of collaboration is not unique. GlaxoSmithKline is investing up to €14.6 million (US$19.5 million) in a collaboration with TCD and the National University of Ireland (NUI) Galway to discover new therapies for Alzheimer’s disease.

Investing in R&D
Industry and academic partnerships are a common theme of Irish research. It is not surprising considering that the small country has a very high concentration of major pharmaceutical companies: Genzyme, Pfizer, Amgen, GlaxoSmithKline, Merck Sharp & Dohme (part of the US company Merck & Co.), Boston Scientific, Wyeth, Johnson & Johnson, Abbott, and others have substantial operations in Ireland. According to the Industrial Development Agency (IDA), Ireland has established itself as the most popular destination for development and manufacture outside the United States. In 2006 the pharmaceutical and biotech industries brought in the bulk of the €2.6 billion (US$3.5 billion) the region saw in capital investment projects.
**Science Foundation Ireland (SFI)**
the national foundation for excellence in scientific research is investing in academic researchers and research teams who are most likely to generate new knowledge, leading edge technologies and competitive enterprises.

SFI has a flexible grants and awards portfolio and several times a year issues calls for proposals from scientists and engineers.

**SFI Principal Investigator (PI) Programme**
for outstanding researchers, normally ranging between €100,000 - €1,000,000 per year for a three to five year period.

**SFI Research Professor Recruitment Awards**
for outstanding researchers, with particularly distinguished international reputations, awards normally ranging up to €500,000 per annum for up to two years.

**E.T.S. Walton Visitor Awards**
supporting leading international scientists who visit Ireland to undertake research for up to one year, normally ranging up to €200,000.

**SFI President of Ireland Young Researcher Awards (PIYRA)**
attracting to Ireland and supporting Irish researchers within eight years of completing their PhD, normally up to €1 million over five years.

**SFI Undergraduate Research Experience & Knowledge Award (UREKA)**
supports active research participation by undergraduate students during the Summer.

*Apply for an SFI award or learn more about our programmes at [www.sfi.ie](http://www.sfi.ie)*

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**Research for Ireland’s Future**

Science Foundation Ireland, Wilton Park House, Wilton Place, Dublin 2, Ireland.
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Several factors make Ireland attractive to foreign investors. The country has one of the world's lowest rates of corporation tax, with the maximum rate for trading profits of 12.5 percent. It also provides many economic incentives for intellectual property developed and licensed from the country, such as patent royalty exemption and a research and development tax credit.

But another attraction is that Ireland has a skilled labor force, according to Daniel Hoey and Bryan Meehan, managers at two Merck, Sharp and Dohme facilities in Ireland. The plant in Ballydine, established in 1976, currently employs 340 people. Merck is now investing €100 million (US$133 million) to expand the plant and create 120 new positions over the next three years. “We will now start doing late-stage process and analytical development as well as the launch of new products from this site,” says Hoey.

Plans are also under way to establish a new €200 million (US$267 million) vaccine facility in Carlow Town with the support of IDA Ireland. The plant, which will develop and manufacture human vaccines, is expected to launch in 2011 and will create 170 new jobs. “We decided to build the plant here after considering a number of sites worldwide,” says Meehan, adding that key considerations included government collaboration, access to top scientists, and a proven track record in Ballydine. “We are just starting to hire now and the talent we are seeing is first class.”

And Merck is not unique in its expansion efforts. Pfizer will build a €190 million (US$252.7 million) biotechnology factory in Cork to make drugs the US company is testing to replace older medicines. The plant will be Pfizer’s sixth in the country. In December 2006, Eli Lilly and Company announced it was to invest up to €400 million (US$532 million) in a program to establish a biopharmaceuticals development and manufacturing facility in Kinsale. “Until 10 years ago most companies only did production in Ireland. Most carried out no development,” says Barry O’Dowd, IDA Ireland’s manager for pharmaceuticals and biotechnology. “Today 70 percent of companies are doing some development work.”

In addition, an increasing number of startups are popping up in Ireland. Opsona Therapeutics, for example, a drug development company focusing on the regulation of the human immune system, was founded in Dublin in 2004 by three immunologists at Trinity College Dublin. One of Opsona’s main investors is the California-based biotech company Genentech.

A Developing Science Environment
An indication that Ireland provides a favorable research environment is that researchers from the United States, UK, Germany, and other European countries are moving there. To facilitate the move SFI provides awards to established researchers relocating to Ireland—up to €500,000 (US$665,000) per year for up to two years to set up a new lab.

After obtaining one of these awards, Kevin Sullivan left his lab at the Scripps Research Institute in sunny San Diego, where he had spent close to 20 years, to join NUI Galway on the west coast of Ireland.

In 2004, Noel Lowndes at Galway was gearing up to form a center of excellence for the study of chromosome biology, Sullivan’s field of expertise. The prospect of joining that group, which today comprises 10 labs in the Center for Chromosome Biology, combined with increased science funding in Ireland and a gloomy funding scene in the United States prompted Sullivan to move. “It is a very collegial environment,” he says. “Here at the center, there is a desire to inform and participate in each other’s research.”

One of the goals of the Center for Chromosome Biology is to establish screening techniques using small interfering RNAs (siRNAs) to find new targets for anticancer drugs, as well as gain a better... continued »
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Webinar will be available on demand after the event for viewing anytime.

SFI-STOKES PROGRAMME 2008

The University of Limerick, Ireland, invites applications from suitably qualified people who are interested in developing an application for a Professorship or Lectureship under the SFI-STOKES Programme (www.sfi.ie) The university is particularly interested in strengthening the following strategically important research areas:

- Multi-Scale Modelling of Fluids and Solids www.mssi.ul.ie (Prof. M McCarthy)
- Energy www.cpi.ul.ie (Prof. N Buckley)
- Sustainability in the Built Environment www.mst.ul.ie (Prof C D Hussey)
- Software Engineering www.lero.ie (Prof. K Ryan)
- Electron Microscopy and Nanomaterials www.mssi.ul.ie (Prof. E Magner)
- Biopharmaceuticals www.sspc.ul.ie (Prof. G Walsh)
- Mathematical Modelling www.macsi.ul.ie (Prof. S O’Brien)
- Structural Biology www.mpsfb.ul.ie (Prof. T Pembroke)

Candidates are encouraged to contact the persons mentioned above for further information and informal discussions.

Candidates at Professorial level should be proven leaders in their fields of research, be excellent motivators and teachers and actively contribute to their professional areas and to the wider community.

At Lecturer level, candidates should have expertise, experience and a proven track record to enable them to contribute to the strategically important areas for the University of Limerick. They should be excellent motivators and experienced teachers, and active within their professional areas.

Compatibility with the research priorities of UL are prerequisites for both Professorial and Lectureship appointments.

Interested candidates should submit a CV to the address below by Friday 21st November 2008 to:

Alison O’Regan, HR Division,
University of Limerick, Limerick, Ireland.
E-mail: alison.oregan@ul.ie or telephone 0035361 213074

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understanding of fundamental cancer mechanisms. While Sullivan is optimistic that this kind of research can be done in Ireland, he believes that the expensive and extensive infrastructure it requires is not yet in place. “We budget about €15,000 (US$19,950) operating expenses for each researcher per year. To do one of the siRNA screens you need about €50,000 (US$66,500), more than three years worth of operating expenses for an individual,” he explains. “This type of science is a big investment and, while the return in terms of basic science can come rapidly and with high impact, the translation to biotechnologies is less certain and certainly longer term.”

While in the United States there is a long history of funding basic science and there are many large and established centers that researchers can tap into, Ireland’s research enterprise is still in its budding stages. “Ireland is still very youthful in its drive to become an internationally competitive center for biomedical research,” says Sullivan. That can be a source of some frustration at times, but being in a position to impact positively on Ireland’s scientific development is an attraction to many people.

Pauline Rudd at UCD is one of them. “There is a real sense that you can help make a difference. A few weeks ago I met the minister of the Department of Enterprise, Trade and Employment [Jimmy Devins] and he actually knew who I was. That would be unlikely to happen in a country like the UK,” she says. “Here, you can influence the direction that science is taking because you are close to the people making the decisions.”

Collaborations Take Center Stage

Rudd moved to UCD from the Glycobiology Institute at the University of Oxford in the UK to join the National Institute for Bioprocessing Research and Training (NIBRT). The goal of this newly established institute, funded to the tune of €72 million (US$95.76 million) by IDA Ireland, is to support the biopharmaceutical industry at all levels. “If a company decides to move to Ireland and has specific scientific issues they are grappling with, they can come to NIBRT and we will help them solve their problems,” says Rudd.

NIBRT scientists will provide training in the whole spectrum of bioprocessing activities as well as undertake research projects to advance current knowledge of bioprocessing technologies and techniques. “It is always a dream for academics to see practical applications of their work,” says Rudd. “It would be a privilege to know that we contributed to the development of a drug that is helping patients.”

Rudd is a world-renowned expert in glycobiology, or the study of sugar molecules, a field that is becoming increasingly important to the pharmaceutical industry. Many of the new biological drugs, or biologics, currently being manufactured are glycoproteins, i.e., proteins with attached sugar molecules. It is thus important to have ways to quickly establish the glycosylation status of a protein at all stages of bioprocessing. For example, about 40 percent of the hormone erythropoietin has to be discarded during manufacturing because of inappropriate glycosylation.

Rudd also carries on an independent research program at NIBRT and has a joint appointment at UCD. She has found that Ireland provides wider opportunities for academic collaboration than in the UK. “Most research grants in Ireland involve being in big interdisciplinary clusters,” says Rudd. “It forces you to relate your expertise to a completely different field.”

This spirit of collaboration led to the launch of a new network of academic researchers with multimillion euros of funding, called GlycoScience Ireland, in April 2008. The network is planning a research collaboration to understand how specific bacteria colonize the human gut by modifying the sugars attached to cells that line the intestines—the results of which will have implications for the milk production industry since some bacteria in milk become part of the human intestinal flora.

“This kind of collaboration would be unlikely to happen in England,” says Rudd. “In the UK, collaborations tend to be between a small number of laboratories and we would ask relatively focused, academic-type questions. Here many more labs participate and the questions we ask are more global in relevance. It is exciting and challenging.”

There is no doubt that in a short time Ireland has undergone a dramatic change. Although the research enterprise is still just developing, today moving to Ireland can be a positive career move for many. “If you want to move to a cosmopolitan city, join a university that is over 400 years old and do first-class science, you should come for a visit,” says Trinity College’s McConnell. And for anyone worried about the unpredictable weather, McConnell says there is plenty of Guinness to go around to make up for it!

Laura Bonetta is a scientist turned freelance writer based in the Washington, D.C., area.

DOI: 10.1126/science.opms.r0800064
The Earth Observatory of Singapore has been established at Nanyang Technological University to study tectonic, volcanic and climatic processes, three arenas of earth science with particular relevance to the future of societies and civilization.

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For further information about the Earth Observatory of Singapore, please refer to: http://www.ntu.edu.sg/EarthObservatory.
Deputy Director, Division of Extramural Research Activities

The National Heart, Lung, and Blood Institute (NHLBI), a major research component of the National Institutes of Health (NIH), Department of Health and Human Services (DHHS), is seeking a Deputy Director for its Division of Extramural Research Activities (DERA). The NHLBI plans, conducts, fosters, and supports an integrated and coordinated program of basic research, clinical investigations and trials, observational studies, and demonstration and education projects. Research is related to the causes, prevention, diagnosis, and treatment of heart, blood vessel, lung, and blood diseases; and sleep disorders. Research is mostly conducted by extramural scientific institutions and individuals supported by research grants and contracts.

DERA provides leadership in scientific and fiscal management and oversight of extramural research and training programs that are remarkable in their diversity, scope, and funding. DERA has an annual operating budget close to $1 million and a staff of over 125 employees to manage the wide range of activities associated with a grants and contracts portfolio in excess of $2.5 billion. DERA directs and administers the NHLBI’s grant, cooperative agreement, and contract activities; performs peer review of grants and contracts; develops and disseminates grant policies; provides specialized staff training; and coordinates committee management and advisory board activities to help establish scientific priorities to implement the Institute’s Strategic Plan. The Deputy Director shares full responsibility with the DERA Director for the policy formulation, strategic planning and management of the Division, and must be prepared to fulfill all scientific and administrative requirements of the Director’s position. This is an extraordinary opportunity for a senior leader to apply their vision, creativity, expertise, and inspiration. Because DERA plays a key role to implement the NHLBI Strategic Plan, close collaboration and partnership with the other divisions of the Institute is a critical responsibility that provides unique opportunities for the Deputy Director to interact with national and international thought-leaders to identify and nurture new scientific research opportunities.

Applicants must possess a Ph.D. or doctoral degree equivalent in health or allied sciences relevant to the position, senior level research experience, and expertise in scientific, clinical or public health research administration that includes grant and contract development, as well as budget formulation and managerial skills. Experience in scientific grant and contract preparation, contract and grant management, and peer review is desirable. This is a Title 42 position open for US Citizens and Permanent Resident non-citizens. Salary is commensurate with experience and a full package of Civil Service benefits is available including retirement, health and life insurance, leave and savings plan (401K equivalent).

How to Apply: Please submit a cover letter with your rationale for interest and qualifications for the position, along with your CV and two letters of recommendation to Marianna Mertts, Ph.D., Office of Workforce Management, NHLBI, 6705 Rockledge Drive, Rockledge 1, Suite 6070, Bethesda, MD 20892. You can mail your application package or submit electronically to merttsm@nhlbi.nih.gov. If you need additional information, please call Marianna Mertts at (301) 496-1763. Your application package must be received by 12/15/2008. All information provided by candidates will remain strictly confidential and will not be released outside the NHLBI search process without a signed release from candidates.
THE POSITION: The Center for Scientific Review (CSR) is seeking exceptional candidates for the position of Director, Division of AIDS, Behavioral and Population Sciences (DABPS) to play a key role in a new senior leadership team to guide the CSR. Peer review at NIH is undergoing substantial changes to enhance the experience for reviewers, ensure the integrity of the review process, and ensure that the best science is done by the best scientists. Direction and planning of wide-ranging changes in the review process will be implemented by CSR’s leadership team, of which the Director, DABPS, is a key member. The Director provides scientific leadership for the Division by tracking critical macro issues related to the broad fields of science within the purview of the division, advising the Director, CSR, and other NIH officials on scientific issues relevant to the Division and its mission, and representing CSR within and outside of NIH. The incumbent provides leadership to and management of approximately 50 Scientific Review Officers (SROs), reviews activities conducted by several Integrated Review Groups (IRG), supervising 5 IRG Chiefs in managing a broad range of human resources issues, recruiting and mentoring, ensuring that principles and practices related to the conduct of peer review are applied in a consistent manner across the Division, and overseeing management of the Division’s budget allocation. The Division Director serves as a key member of the Center’s senior leadership team by participating in strategic planning activities for the Center’s scientific and management goals, establishing principles and practices related to referral and review, and directing the implementation of program and management goals by establishing priorities, coordinating activities, and tracking and reporting progress. Applicants may browse the CSR home page at www.csr.nih.gov for additional information on the Center, and are encouraged to learn more about NIH’s plans for enhancing peer review at http://enhancing-peer-review.nih.gov/.

QUALIFICATIONS REQUIRED: Applicants must possess an M.D., Ph.D., or equivalent degree, as well as senior-level research experience in one or more of the following scientific areas: Biobehavioral and social sciences; health promotion and disease prevention; epidemiology and population sciences; and AIDS related research. Candidates should be outstanding communicators, known and respected within their professions as distinguished individuals of outstanding competence, have supervisory and mentoring experience, and experience representing an organization with integrity and diplomacy. Visionary and charismatic leadership characteristics are crucial to attract and nurture outstanding professional staff to best serve the nation’s biomedical scientific mission at the NIH. Applicants should also demonstrate the ability to think strategically, work collaboratively and use a consultative approach to problem solving and decision making.

SALARY/BENEFITS: Salary is commensurate with experience, and a full package of Civil Service benefits is available, including: retirement, health and life insurance, long term care insurance, leave and savings plan (401K equivalent). This position is subject to a background investigation and completion of an annual confidential financial disclosure report.

HOW TO APPLY: A Curriculum Vitae, Bibliography, and the names and contact information of three to five references must be received by November 26, 2008. You are also encouraged to submit a two page letter of intent detailing your interest in this position and your minimum salary requirements. Application packages should be sent to the National Institutes of Health (NIH), Center for Scientific Review, 6701 Rockledge Drive, Room 1117, Bethesda, Maryland 20892 or electronically e-mailed to hanrattk@csr.nih.gov. For further information, please contact Kathleen Hanratty on (301) 435-0639. All information provided by candidates will remain confidential and will not be released outside the CSR search process without a signed release from candidates.
The National Institute of Neurological Disorders and Stroke, National Institutes of Health, Department of Health and Human Services is seeking an imaginative and resourceful clinical neurologist and/or neuroscientist (M.D., Ph.D., or M.D./Ph.D) with a strong background in neurogenetics to lead a national program of human neurogenetics research at the NIH. This position involves coordinating the Institute’s cutting-edge research programs in human neurogenetics, maintaining active communication with the professional and lay communities as well as program staff from other Institutes and agencies, and exhibiting NIH-wide leadership in neurogenetics. The Program Director in Human Neurogenetics is responsible for planning, evaluating, and administering research grant programs in the complex genetics of neurological diseases, as well as Mendelian inherited neurological disorders, and includes large-scale programs in basic, translational and/or clinical research at the NIH. In addition the Program Director will oversee the NINDS DNA repository for complex neurological disorders (http://oct.orei.nlm.nih.gov/Sections/Sections/NINDS/section25.html). The successful candidate will join a highly interactive group of scientists and clinicians directing research programs in neurogenetics, including developmental, neurological disorders. Competitive candidates will be widely respected by their peers for their scientific and managerial or executive accomplishments and expertise. Information regarding NINDS can be found at: http://www.ninds.nih.gov/. The successful candidate will be appointed under the Title 42(f) authority at a salary commensurate with their experience.

QUALIFICATIONS: Applicants should have a Ph.D. and/or M.D. degree in a relevant field of biomedical science and must demonstrate extensive experience in: 1) working both independently and collaboratively in planning, organizing, and conducting human neurogenetics research; 2) serving effectively in leadership and administration of large-scale research programs and; 3) effective communications and collaborations. Prior experience could include, but is not restricted to, genome-wide association studies, next-generation sequencing, identification of genome structural variations that impact clinical endpoints, genetic epidemiology as applied to human genome research, management of laboratory sample repositories, translational studies in neurogenetic disorders, pharmacogenomics, and biomarker development. Relevant experience should include basic and/or clinical neuroscience research in academic or for-profit institutions in one of the above areas.

APPLICATION PROCESS: Provide curriculum vitae, bibliography, and a three-page summary explaining: 1) your vision for human neurogenetics research; 2) your reasons for being interested in the position, and; 3) the specific leadership skills and relevant experience. In addition, up to three letters of professional reference may be required at a later date as the recruitment process progresses. Submit application package to: Dr. Story Landis, Director, National Institute of Neurological Disorders and Stroke, c/o Lisa Reyes, 6001 Executive Blvd., Room 2216, Bethesda, MD 20892-2540. Applications may be sent via e-mail: reyes@ninds.nih.gov. Evaluation will begin October 30, 2008. For information concerning the nature of the job, contact either the Director of Extramural Research: Dr. Robert Finkelstein (rf45e@nih.gov) or the Deputy Director of Extramural Research: Dr. Emmeline Edwards (ee48r@nih.gov).

**Interdisciplinary Scientist GS 405/GS 1320**
National Institute of Neurological Disorders and Stroke

The Anticonvulsant Screening Program (ASP) at the National Institute of Neurological Disorders and Stroke (NINDS) announces a search for an Interdisciplinary Scientist (GS 405/GS 1320). This position is located within the Technology Development Cluster (TDC) of the National Institute of Neurological Disorders and Stroke (NINDS). The ASP is a federally-sponsored effort created to encourage and facilitate the discovery of therapeutic agents for the treatment of seizures and other related neurological disorders. The incumbent functions as the Program Specialist, National Institute of Neurological Disease and Stroke, Anticonvulsant Screening Program, providing assistance with drug procurement, tracking and analysis of compounds proposed as anticonvulsives. The incumbent would (1) work towards drug discovery through evaluation and assessment of pharmacological screening data; (2) evaluate computer tools designed to search, manipulate and extract biological and chemistry related data; (3) use resources, computer tools (i.e. libraries/databases or other areas) that have potential use in therapeutic development to extract and analyze data and provide updated information to the program director, program participants, contractors and other scientists within the Institute; (4) order & receive compounds, prepare shipment test samples for evaluation; (5) collaborate with other clusters and extramural staff in the Institute; (6) perform administrative duties associated with the Program which would require experience in using computer applications and information systems; (7) manage grants and contracts, organize and plan workshops, meetings and presentations to outside scientists and representatives. For detailed information regarding the position description and application, please go to www.usajobs.gov. Application for this position should be sent to: Department Of Health And Human Services, Client Services Division, OHR, OD, NIH, 2115 East Jefferson Street, 1-B-103, MSC-8502, Rockville, MD 20852-8502, Fax: 301-480-2503. Evaluation of applications will begin November 25, 2008. The NINDS is one of the Institutes of the National Institutes of Health, a component of the Department of Health and Human Services.

**Deputy Clinical Director**
National Institute of Neurological Disorders and Stroke
National Institutes of Health

The Division of Intramural Research, National Institute of Neurological Disorders and Stroke (NINDS) is seeking an individual for the position of Deputy Clinical Director in the Office of the Clinical Director (OCD). The OCD provides the clinical and administrative infrastructure for the support of world-class clinical neuroscience research, administers consultative and diagnostic services, and coordinates clinical education programs in the NINDS DIR. The Deputy Clinical Director, under the direction of the Clinical Director, will be responsible for the administrative oversight of the clinical services and education programs of the OCD. The candidate is expected to be actively engaged in clinical research and to direct an independent clinical research program. The candidate must be a board-certified Neurologist with an unrestricted US medical license. The successful candidate will have an established reputation for clinical neuroscience research as well as demonstrated skills in administration of clinical programs. Experience working both clinically and administratively within the NIH intramural program is highly desirable. Appointment will be in the Senior Clinician track. Application for this position should be sent to: Dr. Alan Koretsky, Scientific Director, NINDS, c/o Peggy Rollins, Building 35, Room GA908, NIH, Bethesda, MD 20892-3716. Applications must be received by December 15, 2008. The NINDS is one of the Institutes of the National Institutes of Health, a component of the Department of Health and Human Services.
Investigator Recruitment in Genetic Disease Research

National Human Genome Research Institute

The Genetic Disease Research Branch (GDBR) of the National Human Genome Research Institute (NHGRI) provides unparalleled opportunities for young investigators to develop world-class research programs in genetics and genomics. The Branch is pleased to announce that it is seeking to recruit a new tenure-track investigator to pursue innovative, independent research as part of this group of highly interactive and supportive investigators.

Current GDBR faculty members use a variety of approaches to study the regulation and function of genes involved in normal and abnormal development, focusing on diseases in both humans and model systems. We are seeking to recruit an individual whose research interests and approaches complement those already found within the Branch. Specifically, the ideal candidate will have an interest in developing a research program that integrates:

- Clinical or translational research
- Molecular and genomic approaches aimed at understanding the mechanisms of normal development and disease
- Basic genetic or genomic research

The Branch strongly supports interdisciplinary research, with NHGRI faculty providing mentoring and guidance to individuals interested in developing research programs involving basic, clinical, and translational approaches.

The successful candidate will be able to take advantage of interactions with a highly collegial group of scientists within NHGRI and on the NIH campus as a whole. In addition, the successful candidate will have access to NHGRI’s outstanding core laboratories, as well as the unparalleled resources of the NIH Clinical Center.

Candidates must have a Ph.D., M.D., or equivalent degree, as well as comprehensive, advanced training and a record of accomplishment in one of the targeted areas. This position includes a generous start-up allowance, an ongoing commitment of research space, laboratory resources, and positions for personnel and trainees.

Interested applicants should submit a curriculum vitae, a three-page description of proposed research, and three letters of recommendation through our online application system, at http://research.nih.gov/apply.

Applications will be reviewed starting Monday, December 15, 2008 and will be accepted until the position is filled.

For more information on GDBR and NHGRI’s Intramural Program, please see http://genome.gov/DIR. Specific questions regarding the recruitment may be directed to Dr. William Pavan, the Search Chair, at bpavan@nhgri.nih.gov. Questions may also be directed to Dr. Leslie Biesecker, the GDBR Branch Chief, at leslieb@nhgri.nih.gov.

DHHS and NIH are Equal Opportunity Employers and encourage applications from women and minorities.

NATIONAL HUMAN GENOME RESEARCH INSTITUTE
Division of Intramural Research
U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES | NATIONAL INSTITUTES OF HEALTH | genome.gov/DIR

STAFF SCIENTIST
The Neuro-Oncology Branch, a trans-institute program of the National Cancer Institute and the National Institute of Neurological Disorders and Stroke of the National Institutes of Health, is recruiting a Staff Scientist to work in the area of cancer genomics and/or experimental therapeutics. The successful candidate should have a M.D. or Ph.D. degree, and at least 3 years of post-doctoral training in molecular and cellular biology.

Laboratory projects include the genetic study of primary glial neoplasms and neural and tumor stem cells for the purpose of identifying novel anti-tumor targets, and the development of high throughput screens for small molecule inhibitors of tumor/stem cell-associated signal transduction pathways. Experience in cancer and/or stem cell biology would be desirable.

Please send curriculum vitae, statement of research interests and two letters of reference to:
Karen B. Abraham
Administrator, Neuro-Oncology Branch, National Cancer Institute
MSC 8200, Room 225
9030 Old Georgetown Road
Bethesda, MD 20892-8200
abrahamka@mail.nih.gov

The National Institute of Mental Health, a major research component of the National Institutes of Health (NIH) and the Department of Health and Human Services (DHHS), is seeking exceptional candidates for the position of Deputy Director, Office of the Director (OD). The Deputy Director serves as the second-in-command for the Institute. Working closely with the Director, the Deputy Director assists in the scientific and administrative management of an organization with a budget of $1.4 billion and a staff of approximately 1,300. (http://www.nimh.nih.gov/index.shtml)

The Deputy Director is primarily responsible for implementation of the Institute’s Strategic Plan and management of the daily operations of the Institute. In this sense, the Deputy Director is the chief internal champion and guarantor for the intellectual and administrative environment at the Institute. The Deputy Director is aided in this effort by the Directors of the Institute’s divisions and offices. The Deputy Director also serves as an ambassador and spokesperson for the Institute.

Applicants must have a Ph.D., M.D., or equivalent degree in the biomedical sciences, with broad senior-level research experience and experience in direct administration of a research program. Applicants should be known and respected within their profession, both nationally and internationally, as distinguished individuals of outstanding scientific competence and administrative capability. Salary is commensurate with experience and accomplishments. Experience with NIH administrative policies, procedures, and operations is highly desirable but not essential. Interested candidates should send a letter of interest, including a brief description of research and administrative experience, a curriculum vitae and bibliography, and the names of at least three references to: Director, Office of the Director, NIMH, 6001 Executive Blvd, Room 8235, MSC 9669 Bethesda, MD 20892-9669 (for express or courier delivery use Rockville, MD 20852). Review of applications will begin on November 3, 2008, but applications will continue to be accepted and considered until the position is filled. For questions contact Dr. Thomas Insel, Director, NIMH at tinsel@mail.nih.gov
The College of Geosciences is seeking an exceptional individual as Dean. The holder of this position is the chief executive officer of the College with 110 tenured and tenure-track faculty members, 16 research scientists, 265 graduate students, 489 undergraduate students, and a total research and teaching budget of $84 million. The College of Geosciences seeks to provide an understanding of our changing planet: the solid earth, the oceans, the atmosphere, coupled human and natural systems; and the application of state-of-the-science research to energy, environment and climate change. The College includes the Departments of Atmospheric Sciences, Geology and Geophysics, Geography, and Oceanography and a variety of research units including the Integrated Ocean Drilling Program, the Sea Grant College Program, and the Geochemical and Environmental Research Group. Close collaborations, through programs such as the Center for Atmospheric Chemistry and the Environment and the Sustainable Coastal Margins Program, exist with other colleges across the campus.

**TENURE TRACK FACULTY POSITIONS IN PHYSICS**

Texas A&M University is in the ninth year of a long-range planning process entitled Vision 2020 (http://www.tamu.edu/vision2020/) with the goal of becoming a consensus "top 10" public university. So far, the University has raised over $1.5 billion through a development campaign and has hired faculty for 442 new faculty lines, 26 of whom are in the College of Geosciences.

Bryan-College Station, home of Texas A&M University, consistently ranks as one of the most livable metropolitan areas in the nation. Centrally located among three of the country's 10 largest cities (Dallas, Houston, San Antonio) and just over an hour from the state capital (Austin), B-CS boasts a combined population in excess of 155,000, including the Texas A&M student body. The community has excellent school systems, shopping centers, hospitals, and restaurants. The twin cities are home to a high proportion of professional people and feature many of the advantages of a cosmopolitan center without the disadvantages of a congested urban environment.

The Search Advisory Committee will begin to review applications on November 15, 2008. The review will continue until the position is filled. Applicants should submit a letter of application, 1-2 page narrative summary of experience and administrative philosophy, curriculum vitae and the names and telephone numbers of at least three references. (References will be contacted only after permission is obtained from the candidate.) Applicants should also provide a preferred telephone number and mailing and e-mail addresses.

**PLEASE SEND APPLICATIONS AND NOMINATIONS TO:**

Dr. H. Joseph Newton, Chair
Geosciences Search Advisory Committee
Texas A&M University, College of Science
3257 TAMU, College Station, Texas 77843-3257
Phone: 979.845.8817 | Fax: 979.845.6077
e-mail: jnewton@tamu.edu

Texas A&M University is an Equal Opportunity and Affirmative Action Employer.

The Institute of Physics (http://www.phys.sinica.edu.tw/), Academia Sinica (http://www.sinica.edu.tw/) invites applications for several tenure-track faculty positions in all ranks. The Institute of Physics, with more than forty faculty members, conducts research in (1) Basic and applied research in nanosciences, (2) Non-linear and complex systems, statistical, computational and bio-physics, and (3) Intermediate and high energy physics. The position offers a free and superb research environment, an adequate startup research grant and good opportunities for interdisciplinary collaborations. Applicants should have an outstanding record of research achievements and will be expected to propose and pursue an independent research program. Interested applicants should send a Curriculum Vitae and a list of publications, copies of five major publications, a summary of research achievements, a plan for future research, and three letters of recommendation to Miss Ophelia Huang, Institute of Physics, Academia Sinica, Nankang, Taipei 11529, Taiwan; e-mail: ithuang@phys.sinica.edu.tw; phone: +886-2-27896718. Review of applications will begin as soon as they are received and will continue until the positions are filled. Academia Sinica in Taipei is the most prominent academic institution in Taiwan. While affiliated directly to the Presidential Office, Academia Sinica enjoys independence and autonomy in formulating its own research objectives. Its major tasks are to undertake in-depth academic research on various subjects in sciences and humanities. In recent years, under its superior leadership, Academia Sinica has transformed into a modern research institution. The Institute of Physics, being one of the institutes in Academia Sinica, vows to conduct leading-edge research projects and to pursue excellence in its research programs.
Who we are
At Roche, 80,000 people across 150 countries are pushing back the frontiers of healthcare. Working together, we’ve become one of the world’s leading research-focused healthcare groups. Our success is built on innovation, curiosity and diversity, and on seeing each other’s differences as an advantage. To innovate healthcare, Roche has ambitious plans to keep learning and growing - and is seeking people who have the same goals for themselves.

The headquarters in Basel is one of Roche’s largest sites. It is home to the Corporate Executive Committee, the Pharmaceuticals and Diagnostics Divisions and the global business functions. Roche Basel also covers the entire business chain from research, development and production through to marketing. Over 8,000 people from more than 60 countries work at the site.

Roche is committed to invest into innovative healthcare solutions in disorders of the central nervous system. In order to expand and strengthen our preclinical research efforts in neurological and psychiatric diseases we are looking for experienced and dedicated PhD level scientists to join our CNS discovery department. Open positions are available for candidates with a broad range of expertise and strong commitment to emerging CNS research. Specifically, we are seeking to bring in the following CNS specialists:

00012289  Research Associate/Scientist (Neurobiology)
00012309  Research Associate/Scientist (Neuropharmacology)
00012293  Research Associate/Scientist (Neuroimmunology)
00012292  Research Associate/Scientist (Neuronal stem cell biology)
00012327  Research Associate/Scientist (Pharmacological MRI/MRS in Neurobiology)
00012297  Research Associate/Scientist Neuropharmacology (PET ligand discovery and development)
00010041  Laboratory Head Behavioral Pharmacology
00012366  Postdoc Scientist (Neuroscience, Magnetic Resonance Spectroscopy in animals)

Who you are
You’re someone who wants to influence your own development. You’re looking for a company where you have the opportunity to pursue your interests across functions and geographies, and where a job title is not considered the final definition of who you are, but the starting point.

If you want to find out more about the opportunities, please visit the Roche careers website http://careers.roche.com. Under the corresponding job-ID you will find a detailed description of the positions offered including requirements.
DEPARTMENT OF APPLIED BIOLOGY AND CHEMICAL TECHNOLOGY

Chair Professor of Chemical Technology or Biotechnology

The Department of Applied Biology and Chemical Technology is a multi-disciplinary department with 32 faculty members in the areas of chemistry, molecular biology, biochemical engineering and food science. The Department is currently running three undergraduate degree programmes in Chemical Technology, Applied Biology with Biotechnology and Food Safety and Technology, and a higher diploma programme in Chemical Technology. The Department has about 50 postgraduate research students (MPhil and PhD) and 150 research personnel (postdoctoral fellows, research associates and research assistants). The Department is well equipped with modern equipment and facilities, and has a reputation in the interdisciplinary areas between chemistry and biology, especially in drug discovery and development. Further information about the Department can be found from its website at http://www.polyu.edu.hk/abct.

The University is now inviting applications and nominations for a Chair Professor of Chemical Technology or Biotechnology. The appointee may also be offered a concurrent appointment as Head of Department. The position is tenable immediately.

The appointee will be required to (a) provide academic leadership for programmes related to Chemical Technology or Biotechnology; (b) promote research collaboration and grant-seeking, improving research publication output; (c) facilitate the Department to gain and increase its visibility and international connections; (d) conduct lectures and seminars at undergraduate and/or graduate level; (e) engage in the supervision of research students of the Department (e.g., MPhil and PhD students); and (f) contribute to academic and departmental administration.

If also appointed as Head of Department, the appointee will assume responsibilities for the overall academic leadership, management and administration of the Department. A Head of Academic Department in the University is not a substantive rank but a secondary appointment made by the President of the University for a fixed term of office.

Applicants should have (a) academic qualifications at doctoral level in a relevant academic discipline; (b) an outstanding international reputation in research and scholarship; (c) a strong record in attracting research funding; (d) a demonstrated commitment to excellence in teaching and curriculum development; and (e) proven qualities of leadership and sound administrative experience.

Remuneration

Initial appointment will be made on a fixed-term gratuity-bearing contract. Re-engagement thereafter is subject to mutual agreement. Remuneration package will be highly competitive.

Application

Applicants are invited to send detailed curriculum vitae with names and addresses of two referees to the

The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong (Fax: (852) 2764 3374; E-mail: hrstaff@polyu.edu.hk). The closing date for application is Saturday, 15 November 2008. Candidature may be obtained by nominations. The University reserves the right not to fill this post or to make an appointment by invitation. General information about the University is available on the University’s World Wide Web Homepage http://www.polyu.edu.hk or from the Human Resources Office (Tel: (852) 2766 5294). Details of the University’s Personal Information Collection Statement for recruitment can be found at http://www.polyu.edu.hk/hro/jobnics.htm.

Tufts University

Cummings School of Veterinary Medicine

Professor of Pathology and Chair, Department of Biomedical Sciences

Position: The Cummings School of Veterinary Medicine at Tufts University invites nominations and applications for the position of Professor of Pathology and Chair, Department of Biomedical Sciences. The School is seeking a highly motivated academic leader who will foster intellectual productivity and collegiality among departmental sections that include pathology, infectious diseases, reproductive biology/neuroscience, and hepatic/gastrointestinal physiology. Strengthening the pathology section through strategic faculty recruitment and promotion of innovative academic and corporate life sciences partnerships is a priority. The successful candidate will cultivate an environment of excellence in research, teaching, and clinical service using as a resource the dynamic community of biomedical scholars in the greater Boston area.

Department: The Department of Biomedical Sciences is one of three departments in the School of Veterinary Medicine. Scholarly breadth across faculty members is excellent with areas of emphasis that include NIH funded research programs in infectious diseases, reproductive biology/neuroscience, and hepatic/gastrointestinal diseases. The departmental teaching mission is served through professional and graduate degree course offerings. The Section of Pathology provides diagnostic services in clinical and anatomical pathology to the Veterinary Medical Teaching Hospitals, participates extensively in teaching students at all levels of the curriculum and maintains resident training programs in anatomic and clinical pathology. More information about the department is available at http://www.tufts.edu/vet/biomed/index.html.

Qualifications: Candidates must have a DVM degree (or equivalent) with ACVP board certification (or equivalent) desirable; have a documented record of excellence in research, service and teaching and a demonstrated understanding of veterinary education. Exceptional candidates with other qualifications will also be considered. Effective communication skills with professional, scholarly and corporate leadership are expected.

Application Procedure: Candidates should submit curriculum vitae, a short letter describing their qualifications and administrative philosophy, and the names, addresses, phone numbers, and e-mail addresses of four references. All nominations and applications should be submitted electronically to Dr. Saul Tzipori, Chair, Search Committee at saul.tzipori@tufts.edu. Application review will begin immediately and will continue until the position is filled. For questions, e-mail or call 508-839-7955.

Tufts University is an Affirmative Action, Equal Opportunity Employer. The University is dedicated to the goal of building a culturally diverse and pluralistic faculty and staff committed to teaching and working in a multicultural environment and strongly encourages applications from women, minorities, and individuals with disabilities.

Department of Pharmacology

University of Minnesota Medical School

TENURE/ TENURE TRACK POSITION

(Professor, Associate Professor, Professor)

The Department of Pharmacology at the University of Minnesota invites applications for a tenure/tenure track faculty position (Assistant, Associate or Full Professor). Applicants using molecular, biochemical, cellular or integrative approaches to study problems relevant to pharmacological sciences are encouraged to apply. Qualifications include a Ph.D. in Pharmacology or other basic biomedical science, or an M.D. degree, and relevant postdoctoral research experience. Applicants must have a strong record of research accomplishments, as documented by publications in leading peer-reviewed journals. The successful Assistant Professor candidate will be expected to develop an innovative, competitive research program supported by extramural funding and to participate in departmental teaching activities. Applicants for Associate Professor and Professor positions must demonstrate distinction in published research, evidence of consistent extramural funding, and a commitment to teaching. For additional information about the department, visit: http://www.pharmacology.med.umn.edu.

Interested applicants should apply online at: http://employment.umn.edu/applicants/Central?quickFind=76559 for the Assistant Professor position or at http://employment.umn.edu/applicants/Central?quickFind=76557 for the Associate Professor or Professor position, and attach a letter of interest, curriculum vitae, brief statement of research interests, and contact information for three references.
Multiple Faculty Positions

Worcester Polytechnic Institute (WPI) in Worcester, Mass., is aggressively expanding its graduate research capabilities in the life sciences. The university recently opened the $70 million WPI Life Sciences and Bioengineering Center, which houses the WPI Bioengineering Institute and 30 faculty members from four departments who work in interdisciplinary clusters. WPI now seeks five additional tenure-track faculty members at both senior and junior levels to augment strengths in three multidisciplinary research focus areas: Regenerative Bioscience, Green Energy, and Biophysics.

Candidates should have complementary interests and expertise and be able to work in multidisciplinary teams to address scientific problems and pursue funding. Applicants for professor and department head and associate professor positions will be recognized leaders in their field with a high level of research achievement and a strong record of securing extramural funding. They will take leadership roles in the three focus areas. Applicants at the assistant professor level must have post-doctoral research experience in a relevant field with extramural research funding, or strong promise to obtain funding. All applicants must hold the PhD and have a strong commitment to teaching at the undergraduate and graduate levels.

Applications, as PDFs, should include curriculum vitae, description of research plans, statement of teaching interests, and list of references (with full contact information). The cover letter should indicate how research aligns with the focus areas. Applications will be reviewed on a rolling basis until positions are filled. For more on the WPI Life Sciences Initiative, the departments involved, and detailed position descriptions, visit www.wpi.edu/goto/lifesci. Founded in 1865, WPI is one of the nation’s oldest and most innovative technological universities. Its 14 academic departments offer more than 50 undergraduate and graduate degree programs in science, engineering, management, and the liberal arts, leading to the BA, BS, MS, and PhD.

WPI offers a smoke free environment, competitive compensation and an excellent benefits package. To enrich education through diversity, WPI is an affirmative action, equal opportunity employer. Member of the Colleges of Worcester Consortium.

Biology and Biotechnology • The Department of Biology and Biotechnology invites applications for a tenure-track faculty position at the ASSISTANT PROFESSOR level. Preference will be given to candidates who use molecular approaches and who seek an environment of collaboration across disciplinary lines, particularly in the WPI Life Sciences Initiative. Contact: Professor Eric Overström, Head, Department of Biology and Biotechnology, lifesciences@wpi.edu.

Chemistry and Biochemistry • The Department of Chemistry and Biochemistry invites applications from scientists working at the interface of chemistry and biochemistry for two tenure-track positions: one at the ASSISTANT and one at the ASSOCIATE PROFESSOR level. Extending successful faculty recruitment over the last two years, these positions are part of a strategic plan to expand the department within the WPI Life Sciences Initiative. Contact: Professor José Argüello, faculty-searchCBC@wpi.edu.

Physics • The Department of Physics invites applications for a tenure-track faculty position at the ASSISTANT PROFESSOR level in experimental or theoretical biophysics. The ideal candidate will complement the department research focus in biophysics and related soft-condensed matter and the WPI Life Sciences Initiative. Contact: Professor Germano Iannacchione, Head, Department of Physics, lifesciences@wpi.edu.

Department Head, Biomedical Engineering • WPI invites applications for the position of PROFESSOR AND DEPARTMENT HEAD in the Biomedical Engineering (BME) Department. The BME department head is responsible for the development of the department within the context of the larger Life Sciences Initiative. The department currently has faculty with expertise in the areas of cellular and tissue engineering, biomechanics, biomaterials, bioinstrumentation, and biomedical imaging, and has an ABET accredited undergraduate program with approximately 180 students and a graduate program with approximately 50 students. Contact: Grant McGimpsey, Associate Provost for Research and Graduate Studies ad interim, lifesciences@wpi.edu.
The Institute of Materia Medica (IMM), Chinese Academy of Medical Sciences & Peking Union Medical College, is one of the leading institutes for drug research and development in China, with a focus on the prevention and treatment of major human diseases. IMM emphasizes multidisciplinary approaches to drug discovery, applications of cutting edge biomedical and pharmaceutical technologies, and development of innovative drugs with proprietary intellectual property rights. IMM operates National Research Center for Analysis of Drugs and Metabolites, National Engineering Research Center for the Development of New Drugs, National Center for Pharmaceutical Screening, Key Laboratory of Biosynthesis of Natural Products (the Ministry of Health), and the affiliated Beijing Union Pharmaceutical Factory. More information can be found at http://www.imm.ac.cn/.

We are seeking an outstanding candidate with strong leadership and integrity, a track record in the management of academic research, medical and graduate education. The candidate is expected to be an accomplished scientist in his or her academic field, who demonstrated a strong record of scientific publications in the leading journals, with an advanced degree (at least a Master degree in the related field) and an academic appointment of Associate Professor or above. The candidate should be proficient in English, preferably a Chinese citizen under age of 50 and able to work fulltime. The initial appointment will be four years upon the satisfactory review of the first year tenure, with full benefit of the directorship.

To apply, submit the complete Application Form, a list of publications, awards and prizes, photocopies of diploma and degree certificates, and letters of past and current appointments, and one 2x2 inch passport photo. Application Form can be downloaded from http://www.cams.ac.cn. Deadline for the application is 11-20-2008. Time for the interview will be notified upon review of submitted applications. For submission and contact: Mr. Zhou Changqiang, Department of Personnel, The Ministry of Health; or Ms. Chen Jianhui, Department of Organization, Chinese Academy of Medical Sciences, 9 Dong Dan San Tiao, Beijing 100730, CHINA. Tel:(8610) 6510-5979 or (8610) 6879-2190; Fax: (8610) 6525-6517; Email: zzb@pumc.edu.cn. (The selection notice may be found on the websites of the Ministry of Health, The Health Daily, Science and Technology Daily, www.21wecan.com.cn, and website of the Chinese Academy of Medical Sciences).
Wellcome Trust Sanger Institute PhD Studentships
Registered at the University of Cambridge

The Wellcome Trust Sanger Institute is internationally recognized as one of the world’s leading genome centers. Our programmes are at the forefront of experimental and computational genome research and researchers in these programmes come from all over the globe. Our research programmes emphasise investigation of human genetic variation in health, cancer and other diseases, experimental genetic analysis of gene function in a variety of model organisms, biological studies of human and animal pathogens, and computational interpretation of genomic data.

Progress in biology is increasingly dependent on genomics, thus training in the application of these skills to biological systems analysis is not only rewarding, but will offer many opportunities in the future. Our graduate training programme is well established and has substantial support from the Wellcome Trust. We welcome applications from students who wish to join this exciting phase of our research as we move from genome sequence to genome function.

Highly competitive fully funded four-year studentships (tuition fees and stipend) will be available from October 2009 in the areas of genetics, functional genomics and computational biology. Studentships are open to UK and international students. For a full list of faculty research interests please see: http://www.sanger.ac.uk/Teams/faculty.

For more information about our graduate programme and details on how to apply please visit our website: http://www.sanger.ac.uk/careers/phd/.

Application closing date 13th December 2008. Please note that applying to our PhD programme is free.

Wellcome Trust Sanger Institute Clinical PhD Fellowships
We also provide funding for two Clinical Research Training Fellowships each year as part of the Cambridge Wellcome Trust PhD Programme for Clinicians. For more information please see: http://www.cimr.cam.ac.uk/study/wtclinicians.html.

http://www.sanger.ac.uk/careers/phd/

Working towards diversity through equality

Genome Research Limited is a Registered Charity No. 1021457

International Center for Advanced Renewable Energy and Sustainability
Endowed Professorships in Science, Engineering, Architecture, and Social Science.

Washington University in St. Louis has launched a bold new initiative to address the challenges of energy and sustainability on a global scale. The International Center for Advanced Renewable Energy and Sustainability (I-CARES) (http://icares.wustl.edu) was created in June 2007 to foster research on energy, environment, and sustainability that cannot be done by single investigators alone. I-CARES nurtures collaborations within Washington University and with regional and international partners in order to contribute to rapid progress in addressing the world’s energy crisis. Our goals are to:

- Foster research on the development of renewable fuels and alternative energy sources
- Develop innovative technologies for the mitigation of greenhouse gases with an emphasis on clean coal utilization
- Explore transformational ideas, systems and practices related to energy supply and demand, sustainability, and environmental impact.

I-CARES invites nominations and applications for five endowed professorships. The search is focused on tenured appointments at the rank of full professor, although exceptional candidates will be considered for appointments commensurate with their experience and accomplishments. Applicants should have an internationally recognized research program, a distinguished record of leadership and will be expected to take a proactive role in fostering fruitful cross-disciplinary interactions among departments and schools university wide.

Washington University is a medium-sized, independent research university. The University is counted among the world’s leaders in teaching and research, and draws students and faculty to St. Louis from all 50 states of the USA and more than 120 other nations.

Washington University is an Affirmative Action/Equal Opportunity Employer committed to building a culturally diverse faculty and strongly encourages applications from women and under-represented minority candidates. For more information, please contact Marilyn Roberts at icares@wustl.edu.

Metabolic Engineering, Bioprocessing
Preference will be given to individuals with expertise in the creative use of metabolic engineering and systems/synthetic biology in nano-biotechnology and the development of environmentally benign strategies for the conversion of renewable biomass to chemicals and fuels. See http://eec.wustl.edu/About/facultyopening2.asp for application details.

Ecosystems and Earth Systems Science
Interdisciplinary scholars with expertise in global biochemical cycling, terrestrial ecosystems, carbon dynamics, paleoclimatology, or microbial ecology who are interested in understanding the causes and consequences of anthropogenic alterations to these natural systems. See http://artsci.wustl.edu/About/facultyopeningscsc for application details.

Environmental and Public Policy
Interdisciplinary scholars interested in all aspects of environmental and public policies pertaining to energy, resource use, sustainability, biodiversity, and public health and their impacts on human, economic, political, and social systems. See http://artsci.wustl.edu/About/facultyopeningscsc for application details.

Global Climate and Aerosols, Atmospheric Modeling, Climate Policy; Carbon Neutral Energy Production and Processing
Preference will be given to individuals with expertise in the following areas: global climate data acquisition and multiscale modeling of atmospheric processes, effect of emissions and aerosols on climate change, policy for energy/environmental sustainability and carbon neutral enterprise, green chemistry, and environmentally benign chemical processing. See http://eec.wustl.edu/About/facultyopening2.asp for application details.

Solar Energy Processes and Photovoltaic Materials
Preference will be given to individuals with expertise in the following areas: third generation PVs, organic and flexible PVs, solar energy storage, solar hydrogen production and storage, photocatalytic processes, light-matter interactions at the nanoscale, nanophotonics and plasmonics. See http://eec.wustl.edu/About/facultyopening2.asp for application details.

Sustainable Development and Urban Design, Sustainable Architectural Design
Interdisciplinary scholars and or practitioners whose areas of concentration may include, but will not be limited to: sustainable development and urban design; sustainable landscape architecture; advanced building technologies and sustainable architectural design. http://samfoxschool.wustl.edu/
The University of California, Berkeley
Bowes Research Fellows Program

The newly established Bowes Research Fellows Program at the University of California, Berkeley, is seeking nominations of outstanding young scientists who are interested in establishing an independent research program as an alternative to the traditional postdoctoral experience. The program will provide recent Ph.D and M.D graduates who have demonstrated exceptional promise with the necessary resources to pursue independent research at the frontiers of biomedical and life sciences, free from the need to obtain grant support or the distraction of teaching responsibilities. Fellows will receive funding and space sufficient to maintain a laboratory of two to three members for a term of up to four years. Fellows will also be eligible to obtain outside funding from grants or other sources as they need to expand their programs.

Bowes Fellows will benefit from the mentorship of our faculty, as well as from the exceptional breadth of our scientific resources and the highly interactive nature of our research community. In turn, our community will benefit from the Fellows’ creativity and energy in forging new frontiers in biomedical and life sciences research. Because interdisciplinary interactions are key to innovation, we seek to attract individuals who have broad interests in the life sciences and who have diverse expertise in experimental, theoretical and/or computational approaches.

Candidates must be nominated by their current mentor or by another senior investigator who can provide an in-depth analysis of their accomplishments and future potential. Selected candidates will be asked to submit a brief research plan and to arrange for letters of recommendation. Finalists will be invited to interview on the UC Berkeley campus. Nominations must be received by December 31, 2008 and should be sent to: Matthew Welch, Chair, Bowes Research Fellows Selection Committee, Department of Molecular and Cell Biology, University of California, Berkeley, 301 LSA, Berkeley, CA 94720-3200; welch@berkeley.edu.

The University of California is an Affirmative Action, Equal Opportunity Employer.
The Ohio State University
Tenure-Track Faculty Positions

Departments of Plant Cellular & Molecular Biology and Molecular Genetics

The Department of Plant Cellular and Molecular Biology and the Department of Molecular Genetics, in conjunction with the Plant Molecular Biology/Biotechnology program (PMBB), invite applications for two full-time, tenure-track positions at the Assistant Professor level. These positions are part of the new Translational Plant Sciences emphasis within OSU’s Targeted Investment in Excellence initiative. Successful applicants are expected to develop an outstanding and novel research program and demonstrate a commitment to teaching at the undergraduate and graduate levels.

Applicants with expertise in any area of plant molecular, cellular, and developmental biology are encouraged to apply. Potential areas of emphasis include plant biochemistry, genomics, systems biology, and biotechnology that focuses on fundamental processes related to bioenergy, bioproducts, and carbon sequestration. This research is intended to enhance fuel, food, human health and/or environmental quality through the use of eukaryotic photosynthetic organisms. Departmental faculty members participate in numerous campus-wide programs, centers, and focus groups including PMBB, the Plant Biotechnology Center, the Molecular Plant-Microbe Interaction Group, the Cell Biology Group, the Developmental Genetics Group, the Center for RNA Biology, the Institute for Energy and the Environment, the Arabidopsis Biological Resource Center, and the Mathematical Biosciences Institute. The Ohio State University is the flagship institution of the state’s higher education system. It is located in Columbus, the state capital. Columbus is a rapidly growing and vibrant large city with a village flavor, and has been ranked as one of the country’s best places to live and work. Further information about the departments, PMBB, the university, and Columbus can be obtained at http://www.biosci.osu.edu/.

Candidates with a Ph.D. and suitable postdoctoral experience can submit applications to pbsearch@biosci.osu.edu as a single PDF file that includes a curriculum vitae, a concise (3 pages or less) statement of research plans, a brief description of teaching experience and interests, and names of at least 3 professional references. A PDF is preferred, but paper copies may be sent to Search Committee Chair, Dept. of Plant Cellular and Molecular Biology, Ohio State University, 500 Aronoff Laboratory, 318 West 12th Ave., Columbus, OH 43210-1242. Evaluation of applications will begin November 30, 2008 and will continue until a suitable candidate is identified.

To build a diverse workforce Ohio State encourages applications from individuals with disabilities, minorities, veterans, and women. EOO/AA Employer.

The Santa Fe Institute is pleased to announce
The Omidyar Fellows Program

The Omidyar Fellows Program will aim to attract the brightest and most creative thinkers to spend two to three years as postdoctoral fellows at the Santa Fe Institute (SFI).

Consistent with SFI’s multidisciplinary approach, the fellowship program will draw scholars from across the social, physical and natural sciences. The common denominator among all SFI scientists is intense curiosity, creativity and a desire to delve deeply into the major questions facing science and society.

This new grant renames SFI’s current postdoctoral fellows program, and will enable the Institute to continue to develop its world-class support for scientific research.

Recruitment for 2009 Omidyar Fellows is currently underway.

More information is available at http://www.santafe.edu/postdoc.
Lecturer/Senior Lecturer (Two positions)

Monash University, Melbourne, Australia

School of Biological Sciences
Faculty of Science

The successful applicants will establish a strong independent research program and develop collaborative links with other academic staff in the School. They will also take an active part in undergraduate teaching and supervision of postgraduate students. We would especially welcome applicants with research strengths in global change biology, vertebrate biology (including behaviour), estuarine or marine ecology, animal ecophysiology, plant-animal interactions, or invasion biology.

Remuneration package:
$81,728 – $97,053/$100,117 – $115,440 pa
Level B/Level C (includes employer superannuation of 17%)

Location: Clayton campus Ref No: A099482
Enquiries: Professor John Beardall on +61 3 9905 5630 or email john.beardall@sci.monash.edu.au

Go to www.monash.edu/jobs for position details and application information

Imagine being part of a team that makes a discovery.

POSTDOCTORAL TRAINING IN ORTHOPAEDIC BIOMECHANICS AND BIOMEDICAL ENGINEERING
New Jersey Medical School, UMDNJ, Newark NJ

The Department of Orthopaedics at the UMDNJ-New Jersey Medical School invites recent Ph.D. graduates in Biomechanics and Biomedical Engineering to apply for postdoctoral training in research aimed at improving outcomes subsequent to bone or joint injury and disease.

Trainees will interact directly with clinical and basic science faculty, and have regular opportunities to observe current surgical procedures. Trainees will also participate in didactic training alongside orthopaedic surgical residents in an established Resident Education Program.

Areas of research include the biology and biomechanics of fracture healing, spinal arthrodesis, joint injuries, limb salvage, and total joint replacement.

Applicants must have a recent Ph.D. degree and have a strong commitment to a research career.

Applicants should send a cover letter with CV and the names of three references to: Elizabeth Moran, Ph.D., Professor and Director of Orthopaedic Research, Department of Orthopaedics, UMDNJ, Cancer Center-Room G1200, 205 South Orange Ave, Newark, NJ 07103 or email: strumoje@umdnj.edu. UMDNJ is an equal opportunity and affirmative action employer.

Faculty Position

Molecular Biology Sloan-Kettering Institute

The Molecular Biology Program of the Sloan-Kettering Institute, Memorial Sloan-Kettering Cancer Center (www.ski.edu), has initiated a faculty search at the Assistant Member level (equivalent to Assistant Professor). We are interested in outstanding individuals who have demonstrated records of significant accomplishment and the potential to make noteworthy contributions to the biological sciences as independent investigators. Successful applicants will have research interests that move the Program into exciting new areas that complement and enhance our existing strengths in the areas of maintenance of genomic integrity, regulation of the cell cycle, and regulation of gene expression. Faculty will be eligible to hold appointments in the Gerstner Sloan-Kettering Graduate School of Biomedical Sciences, the Weill Cornell Graduate School of Medical Sciences, as well as the Tri-Institutional MD/PhD Training Program.

Candidates should e-mail their application in PDF format to: molbio@mskcc.org by November 15, 2008. The application should include a CV, description of past and proposed research (3-5 pp), and copies of three representative publications. Candidates should arrange to have three signed letters of reference sent in PDF format to: molbio@mskcc.org. The letters should arrive by November 15, 2008 and should be addressed to Dr. Kenneth Marians, c/o Julie Kwan, Box 135, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, New York 10065. Inquiries may be sent to Ms. Kwan at molbio@mskcc.org or to Dr. Kenneth Marians, Chair, Molecular Biology Program at kmarians@sklranketing.edu. Memorial Sloan-Kettering Cancer Center is an Equal Opportunity Employer. Smoke-free environment.

Faculty Positions

DEPARTMENT OF BIOENGINEERING

The Department of Bioengineering in the Jacobs School of Engineering at the University of California, San Diego is inviting applications for one or more TENURE-TRACK or TENURED FACULTY POSITIONS at the Assistant Professor, Associate Professor or Full Professor levels. Successful applicants will be expected to teach undergraduate and graduate courses in Bioengineering and to establish a vigorous program of high-quality federally funded bioengineering research, particularly research that focuses on genome-scale or systems approaches to biological complexity, understanding the design principles and developing engineering models of living systems, experimental investigations of dynamics of living systems, integration across multiple scales from molecule to organism, and/or applications relevant to regenerative medicine. Exceptional candidates in other areas may also be given consideration.

The Jacobs School of Engineering enjoys close collaborations with the UCSD School of Medicine and the Divisions of Biological and Physical Sciences. Qualified individuals may be eligible for joint appointments. The level of appointment will be based on experience and qualifications. Salary will be based on published UC pay scales. Applicants are asked to submit materials on-line at http://www-bioeng.ucsd.edu/recruit/. Please include a cover letter, curriculum vitae including a complete list of publications, samples of published research and teaching evaluations (if available), the names and contact information of five referees, a statement summarizing research interests and teaching experience, and any leadership activities or contributions to diversity. Please do not include your Social Security Number.

For inquiries, please contact Faculty Search Committee Chair, Department of Bioengineering, 9500 Gilman Drive, Mail Code 0412, La Jolla, CA 92093-0412, or by email to recruit@bioeng.ucsd.edu. Review of applications will begin November 1, 2008 and continue until the position or positions are filled. For applicants with interest in spousal/partner employment, please see the web site for the UCSD Partner Opportunities Program.
Assistant, Associate, and Full Professor Positions in the Department of Molecular, Cellular, and Developmental Biology
University of California, Santa Barbara

The Department of Molecular, Cellular and Developmental Biology at the University of California, Santa Barbara invite applications for three open faculty positions:

- **Endowed Chair** to be filled at the advanced Assistant, Associate, or Full Professor rank. We seek an outstanding established scholar with an internationally recognized research program in any area of molecular, cellular, or developmental biology and/or biochemistry.

- **Professor, Stem Cell and Developmental Biology** to be filled at the advanced Assistant, Associate, or Full Professor rank. We seek an outstanding established scholar with an internationally recognized research program in research areas relating to stem cells and developmental biology.

Applicants should indicate to which position they are applying in a cover letter and should submit curriculum vitae, selected reprints, a brief research plan, and, in the case of the Assistant Professor position, arrange for three letters of reference to be sent to: Faculty Search Committee, c/o Maria Boschee, Department of Molecular, Cellular and Developmental Biology, University of California, Santa Barbara, Santa Barbara, CA 93106-9610. PDF Format preferred: Send to c/o Maria Boschee, mcdb-search@lifesci.ucsb.edu.

Review of applications will begin on January 1, 2009, and will continue until the positions are filled.

The department is especially interested in candidates who can contribute to the diversity and excellence of the academic community through research, teaching and service.

UCSB is an Equal Opportunity Affirmative Action Employer.

FACULTY POSITION / ASSISTANT PROFESSOR
Science and Technology Policy Research
CIRES, University of Colorado at Boulder

The University of Colorado at Boulder seeks to hire an assistant professor for the Center for Science and Technology Policy Research of the Cooperative Institute for Research in Environmental Sciences. Applicants must have demonstrated expertise in science or technology policy research with emphasis on environmental sciences. Specializations of interest include the policy aspects of science, energy, technology, and the human dimensions of climate change, water, and solid earth processes. The successful candidate must have an established interest in interdisciplinary research and teaching, is expected to develop a record of funded research, and must be willing to contribute to both undergraduate and graduate teaching. The position is tenure-track and will be located in any relevant academic department, to be mutually decided upon by the candidate and department. Possibilities include Geography, Political Science, Environmental Studies, Economics, and others.

Requirements: PhD in a relevant field.

To apply: Applicants should send a letter of application, curriculum vitae, a statement on teaching, a statement on research, and three names to be used for letters of reference to http://www.jobsatcu.com, job posting number 805664. Questions can be directed to CIRES Human Resources (Dempsey@CIRES.Colorado.edu). Review of applications will begin November 15 and continue until the position is filled.

The University of Colorado at Boulder is committed to diversity and equality in education and employment.
The Department of Biochemistry invites applications for a tenure track faculty position at the Assistant or Associate Professor level. Areas of interest include, but are not limited to, mechanistic enzymology (e.g. protein structure/function relationships, function of enzymes relevant to biofuel production), the biochemistry of disease (e.g. cancer, metabolism and obesity, epigenetic factors that influence disease), and the function of RNAs in biological systems (e.g. small RNAs that impact gene and protein expression, RNA catalysis), but all applications from well-qualified individuals will be seriously considered. The successful candidate will be expected to develop an internationally recognized scholarly research program, interact with scientifically diverse faculty across campus, and demonstrate excellence in teaching.

The Department of Biochemistry is part of a large and vibrant life science community at Purdue and our faculty participate in interdisciplinary programs in cancer, plant biology, neuroscience, biophysics, genetics, and bioinformatics. Support facilities are available for genomic analysis, metabolomics, protein mass spectrometry, NMR, X-ray crystallography, electron microscopy, image analysis, computation, and transgenic animal work. For more information about our department, see www.biochem.purdue.edu.

Applicants should have a Ph.D., M.D., or D.V.M. degree, at least two years of post-doctoral experience or its equivalent, a strong publication record, the potential to develop a vigorous, extramurally-funded research program, and a commitment to research and teaching excellence. In addition, candidates at the associate professor level must have a track record of academic achievement and significant external funding. Applications should be submitted electronically to biochem-search@purdue.edu and should include a cover letter, curriculum vitae, a two-page summary of research interests, a statement of teaching objectives/interests, and the names and contact information for three references. Screening of applications will begin November 15, 2008 and will continue until the position is filled.

Purdue University is an Equal Opportunity/Equal Access/Affirmative Action Employer fully committed to achieving a diverse workforce.

Neurobiology Faculty Position

The Department of Anatomy and Neurobiology (http://neurobiology.umaryland.edu) is recruiting for a tenured tenure-track faculty position in Neuroscience. We are interested in candidates who use multidisciplinary approaches to understand the function or plasticity of the nervous system. Of particular interest are candidates that complement existing strengths in the Department, including sensory, systems, molecular and developmental neuroscience. Candidates should have a strong history of scholarly activity and preference will be given to those with an independent funded research program.

The Department contains new, state-of-the-art laboratories and core facilities. We offer an outstanding intellectual and collaborative environment with highly competitive salary and recruitment packages. All department faculty are members of the Graduate Program in Life Sciences and the interdisciplinary Program in Neuroscience (http://neuroscience.umaryland.edu).

Candidates should submit the following as one single PDF file to facsearch@umaryland.edu: detailed curriculum vitae, a brief statement of research interests and goals, and names/contact information for three references. For best consideration candidates should submit their application by December 1, 2008 and should be addressed to the attention of: Professor Geoffrey Schoenbaum, Chair of Faculty Search Committee.

University of Maryland, Baltimore is an Equal Opportunity, Affirmative Action Employer. Minorities, women, veterans, and individuals with disabilities are encouraged to apply.

Research and Tenure-track Faculty Positions

Department of Genetics

Applications are invited for open rank research and tenure-track positions in the Department of Genetics at the Louisiana State University Health Sciences Center in New Orleans. The department provides a focus for a vast range of research activities from genetic analysis using vertebrate and mammalian systems, to population genetics. We are currently seeking individuals who will develop an outstanding research program using genetic approaches in a multi-cellular organism to address significant biological or disease-related questions. We are also recruiting in the area of population genetics with an emphasis on Cancer. Current strengths in genetics in the department include recombination and repair, cancer genetics, genetics of deafness, genetics of mucosal immunity, and basic research in Friedreich's ataxia. Regardless of the species/system employed, we seek individuals with research programs that use a genetic approach to provide mechanistic insight into the chosen problem.

The facilities and start-up support provided by the Department are excellent. The development of interdisciplinary programs at Louisiana State University, including the Cancer Center and the Gene Therapy Program affords a rich environment for scientific innovation. These programs also provide excellent core facilities including gene expression profiling, state of the art microscopy including multi-photon confocal and live cell imaging, flow cytometry, bio-informatics, and high throughput genotyping.

The successful candidate must hold a M.D., Ph.D., or a M.D./Ph.D., ability to establish an extramurally supported research program, and must be interested in integrating research with teaching/mentoring. Applications should include a curriculum vitae, a brief description of research accomplishments, a description of plans for future research, and the names and contact information (email addresses) for three individuals that can serve as references. The successful applicant will enjoy excellent space, state-of-the-art core facilities and will interact with a strong interdisciplinary basic science and clinical group. Applicants should send an email including CV to genetics@lsuhsc.edu.

LSUHSC is an Equal Opportunity/Affirmative Action Employer.

ASSOCIATE or FULL PROFESSOR

Genetics/Genomics of Insect Vectors of Disease

This is a 12-month, tenure-track position in the Department of Entomology and Nematology (www.entnemdept.ifas.ufl.edu). Responsibilities include 90% research and 10% teaching. The position is jointly funded by the Institute of Food and Agricultural Sciences and the Emerging Pathogens Institute (http://epl.ifas.ufl.edu). The incumbent will lead an externally funded, internationally recognized research program focused on the genetics of insect vectors of disease that may include molecular genetic studies of insect vector genomes, insect vector/pathogen interactions, and arthropod host and pathogen/symbiont genetic interactions. A strong background with genetics and/or comparative or functional genomics is highly desirable. Ideally, the incumbent is expected to study the genetics/genomics of the Asian citrus psyllid, the vector of the citrus greening pathogen. QUALIFICATIONS: Ph.D. in Entomology, Genetics, Genomics, or other appropriate field. Applicant must be experienced in obtaining extramural funding and in supervising and managing support personnel, students, and program funds.

To ensure full consideration, applications must be submitted by December 15, 2008. A formal review of applications will begin on this date and will continue until a suitable candidate is identified. Applicants must go online (https://jobs.ufl.edu), search for requisition #0800874 and complete the faculty short form. Also attach: (1) a letter of application that includes a description of your professional interests and a brief description of any graduate level courses you wish to teach, (2) curriculum vitae, (3) PDF files of 2-3 of your most important publications. In addition, official transcripts of all college/university work should be sent directly from the granting institution, as well as at least three (3) letters of reference sent directly by the referees to: Search Committee Chair, Dr. Marjorie A. Hoy, Dept. of Entomology and Nematology, POB 110620, Bldg. 970, University of Florida, Gainesville, FL 32611-0620. Please reference (0800874). For additional information: Tel: 352-392-1901 X153, Email: mahoy@ifas.ufl.edu.

Women and minorities are encouraged to apply. The University of Florida is an Equal Opportunity, Equal Access, Affirmative Action Employer.
FACULTY POSITION IN DEVELOPMENTAL BIOLOGY

The Department of Cell and Molecular Biology at Tulane University (http://cell.tulane.edu/) anticipates filling a tenure-track/tenured position beginning July 1, 2009, with open rank (Assistant to Full Professor). Targeted are individuals whose research interests focus on Developmental Biology, with an emphasis in mammalian organogenesis. The Department is undergoing a rebuilding process and has targeted Developmental Biology and Neuroscience as areas for rapid growth. Applicants at the assistant professor level must have a Ph.D., at least 2 years of postdoctoral experience, a strong publication record and show strong potential for obtaining external funding. Senior level candidates are expected to have a strong record of research accomplishments and funding. The successful applicant will be expected to establish a vigorous, independent research program and to participate in graduate and undergraduate teaching. Opportunities exist for research collaborations and participation in the Tulane Cancer Center, the Tulane Primate Center, the Center for Bioenvironmental Research, and the Tulane Neuroscience Program.

Applicants should send curriculum vitae, a brief statement of research interests and three letters of recommendation by December 31, 2008 to:

Dr. YiPing Chen  
Chair, Department of Cell and Molecular Biology  
Tulane University  
6400 Freret Street  
2000 Percival Stern Hall  
New Orleans, LA 70118

Tulane University is an Equal Opportunity/ADA/Affirmative Action Employer and encourages minority and female applicants to apply.

Center for iPS Cell Research and Application,  
Institute for Integrated Cell-Material Sciences,  
Kyoto University  
Director; Shinya Yamanaka

Application Guideline: Principal Investigator

Job Title: Associate Professor or Professor (both as Principal Investigator) at Center for iPS Cell Research and Application, Institute for Integrated Cell-Material Sciences, Kyoto University

Vacancies: A few

Workplace: Center for iPS Cell Research and Application, Institute for Integrated Cell-Material Sciences, Kyoto University (Kawara-cho 53, Shogoin, Sakyō-ku, Kyoto 606-8507, Japan) OR another research facility in the city

Job Description:
1) Research on integrative elucidation of iPS cell induction process utilizing bioinformatics
2) Research on effective differentiation induction from iPS cell to endodermal tissue cell, especially pancreatic cell and hepatocyte.  
3) Research on molecular pathology of various disorders utilizing disease-specific iPS cell
4) Other research aiming at clinical application utilizing advantages of iPS cell

Starting Date: January 2009 or after (Negotiable)

Ending Date: September 30, 2012 (Possibly renewable)

Pay: To be determined in accordance with Kyoto University Regulations. (Annual salary)

Application Docs:
1) CV
2) Lists of acquired research funds, publications, presentations, and patents
3) A brief summary of scientific achievements (3-10 pages)
4) Research plan (3-10 pages).

Please state your research policy and targets at CiRA for the period:

a) until September 2012 and
b) 5 years after that.

* Policy of Research: Please describe the policy of research dividing in two parts, short-term plan for first 4 years (until September 2012) and long-term plan for another 5 years.

Please be advised that your application documents will NOT be returned to you.

Screening Process: Candidates will be screened based on application documents submitted and by an interview (or a series of interviews) as needed. Candidates will be notified of the results in writing.

Notes: If hired:
1) You will be an individual, fixed-term associate professor or professor in accordance with Kyoto University Regulations. It will NOT be definite which post you are to fill at the time of acceptance.
2) Whereas you are likely to be appointed as an associate professor, a professor position is a possibility depending on your credentials. It is also possible to be promoted to professor after hired as an associate professor.
3) The initial term ends on September 30, 2012. You will be assessed by the internal and external evaluation committee several months before then, and in turn, the term could be extended for another 5 years (conceivably 10 years).

You are expected to read the “Message from the Director” posted on the homepage of CiRA’s website carefully prior to submitting your application documents. The above “4) Research plan” should be prepared taking that into account.

Postal Address: Yoshida Konoe-cho 69, Sakyō-ku, Kyoto 606-8501, Japan  
CiRA Support Office, iCeMS, Kyoto University

Please be sure to clearly state “Application for CiRA PI” on the envelope, enclosing the above 4 application documents in it, and mail it to the above postal address by November 30, 2008. Keep in mind that applying by Email is not acceptable.

Contact: Shogoin Kawara-cho 53, Sakyō-ku, Kyoto 606-8507, Japan

Attention: Tetsuya ISHII  
Department of Stem Cell Biology,  
Institute for Frontier Medical Sciences,  
Kyoto University

Phone: 81-75-751-4059  
Email: collaboration@frontier.kyoto-u.ac.jp

Gardner-Fiske Chair in Physiology  
Department of Zoology and Physiology  
University of Wyoming

The Department of Zoology and Physiology at the University of Wyoming seeks applications from highly qualified candidates to fill the Gardner-Fiske Endowed Chair in Physiology. This is a 9-month, tenured FACULTY POSITION. Candidates must have a Ph.D. or equivalent degree in Physiology or a closely related field, an active research program and access to outstanding research facilities, including exceptional large macromolecular Core Facilities that are contiguous with the department. The department has considerable strengths in developmental, cellular, and renal physiology, and neuroscience (funded by a NIH Center grant).

The department is ranked in the Top 10 Zoology departments in the country. The University of Wyoming is located in Laramie, a town that offers a high quality of life, and is surrounded by magnificent mountains that offer outstanding opportunities for recreation.

Interested applicants should send a curriculum vitae, a statement of research and teaching experience, and names of three referees to:  
Endowed Chair Search Committee, Dept. 3166, 1000 E University Ave, Laramie, WY 82071. Fax (307) 766 5625. Website: http://uwyo.edu/Zoology; email: zprequest@uwyo.edu. Review of applications will begin on January 15, 2009 and continue until the position is filled.

The University is a Carnegie Foundation Research/Doctoral Extensive Institution, and is an AA/EEO Employer.
GLOBAL CHANGE BIOLOGIST
ASSISTANT PROFESSOR
University of Denver

The Department of Biological Sciences, University of Denver invites applications for a tenure-track position at the Assistant Professor level to begin September 1, 2009. We are particularly interested in candidates that have global change as a focus of their research. Field-oriented Biologists with interests in ecological and/or evolutionary aspects of this problem and who are studying whole organisms, whether they be uni- or multicellular, are encouraged to apply. The successful candidate will have Ph. D. and postdoctoral experience in the appropriate field. She/he will be expected to develop a funded research program, supervise Ph.D. and M.S. students, supervise undergraduate research projects, and teach undergraduate and graduate courses in areas related to their specialty. All candidates must submit their application through website: https://www.dujobs.org. The application should include: curriculum vitae, and statements of teaching philosophy and research interests. Under separate cover please send two recent publications and three letters of recommendation to: Biological Sciences Global Change Biologist Faculty Search, University of Denver, Department of Biological Sciences, Denver, CO 80208. The review of applications will begin November 26, 2008, and continue until the position is filled. Contact the Department of Biological Sciences (e-mail: rflage@dud.edu) if you have any questions. The University of Denver is committed to enhancing the diversity of its faculty and staff and encourages applications from women, minorities, people with disabilities, and veterans. DU is an Equal Employment Opportunity/Affirmative Action Employer.

FACULTY POSITIONS

The Harvard School of Engineering and Applied Sciences (HSEAS) is initiating a major thrust in the broad area of energy science and technology and invites applications for tenure-track positions in this area. Interested candidates with expertise in applied physics, materials science, applied chemistry, chemical engineering, and environmental engineering with a particular focus on energy-related applications are invited to apply. HSEAS offers a highly interdisciplinary environment that fosters collaboration within SEAS and with other parts of Harvard. The HSEAS effort will be part of a larger University-wide initiative on energy that aims to bring together scholars from Harvard’s various schools (arts and sciences, business, design, government, law, medicine, and public health) to make a significant contribution on energy-related challenges. Candidates should have an outstanding research record and a strong commitment to undergraduate teaching and graduate training. Applicants must have completed a Ph.D. by September 1, 2009. Candidates should send curriculum vitae, a list of publications, a statement of research and teaching interests, and up to three representative papers (ideally as a single PDF document) to e-mail: energy-search@seas.harvard.edu. In addition, candidates should have at least three letters of reference sent to the above address. Alternatively, material may be sent via surface mail to: Energy Search Committee School of Engineering and Applied Sciences Harvard University Pierce Hall 207A 29 Oxford Street Cambridge, MA 02138 Applications will be reviewed as they are received. For full consideration, applications should be received by December 31, 2008. Harvard is an Equal Opportunity/Affirmative Action Employer. Applications from qualified women and minority candidates are strongly encouraged.

CANCER RESEARCH

The University of South Carolina (USC) in Columbia, South Carolina, and the Medical University of South Carolina (MUSC) in Charleston, South Carolina, are jointly seeking applications for a tenure-track position at the rank of ASSISTANT/ASSOCIATE PROFES-SOR on the Columbia campus (website: http://www. sccp.sc.edu). The candidate will have a Ph.D. degree, postdoctoral experience, and research interests in can-cer pharmacology or cell biology, cancer drug discov-ery, or colorectal cancer. The applicant will be expected to develop a strong, NIH-funded research program and participate in professional and graduate education. Candidates hired at the rank of Associate Professor will have a funded research program. Pharmacy faculty are members of the NIH-funded Center for Colon Cancer Research (website: http://www.cccrc.sc.edu), South Carolina Cancer Center, Hollings Cancer Center in Charleston, and Centers for Drug Discovery and Cancer Therapeutics.

Interested candidates should submit curriculum vitae, statement of research interests, and the names of three references to: Dr. Michael Wyatt, Department of Pharmaceutical and Biomedical Sciences, South Carolina College of Pharmacy, University of South Carolina, Columbia, SC 29208 (e-mail: wyatt@sccp. sc.edu). Electronic submission is encouraged. Review of applications will begin on December 5, 2008, and will continue until the position is filled.

The University of South Carolina and the Medical University of South Carolina are Affirmative Action/Equal Opportunity Employers.

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featuring
Katrina Kelner, Ph.D.
Deputy Editor, Science

Society for Neuroscience Meeting
Washington, D.C.
Convention Center
November 18, 2008
6:30–7:30 pm, Room 209

Light refreshments will be served.
ASST./ASSOC. PROFESSOR
Position in Targeted Biomolecules

The University of Texas M.D. Anderson Cancer Center Department of Experimental Therapeutics seeks a highly qualified basic/translational science applicant for a tenure-track appointment as an associate/professor.

The successful candidate will possess demonstrated ability to conduct independent, high-quality translational cancer research with a proven track record of publications and peer-reviewed funding. The position also will be responsible for building a world-class laboratory research program developing tumor cell-targeting biomolecules (i.e., growth factors, antibodies or targeting scaffolds) that can serve as carriers of therapeutic and imaging payloads. This program will be an essential component of the new Center for Targeted Therapy at M. D. Anderson.

Applicants must hold a Ph.D. and/or M.D. in a basic science-related field. The position requires a self-motivated and independent candidate who will establish collaborative interactions with clinicians and translational researchers developing new cancer therapies. Candidates also should be prepared to carry out education and mentoring activities with graduate students and postdoctoral fellows.

The University of Texas M. D. Anderson Cancer Center offers generous startup funds; quality laboratory space; and the opportunity to collaborate with leading scientists in molecular target identification, pharmacology, biological therapy, drug development and clinical testing throughout the department and institution.

Please forward curriculum vitae; contact information for references; and a brief statement including accomplishments, current and proposed research objectives and plans to emerge as a leader in chosen area to: Michael G. Rosenblum, Ph.D., Head of the Search Committee Department of Experimental Therapeutics – Unit 0044, The University of Texas M. D. Anderson Cancer Center, 1515 Holcombe Blvd., Houston, Texas 77030-4009; Email: ETDept@manderson.org.

M. D. Anderson Cancer Center is an equal opportunity employer and does not discriminate on the basis of race, color, national origin, gender, sexual orientation, age, religion, disability or veteran status except where such distinction is required by law. All positions at The University of Texas M. D. Anderson Cancer Center are security sensitive and subject to examination of criminal history record information. Smoke-free and drug-free environment.

VCU
FACULTY POSITIONS IN HUMAN AND MOLECULAR GENETICS AND THE VCU INSTITUTE OF MOLECULAR MEDICINE (VIMM)

VIRGINIA COMMONWEALTH UNIVERSITY (VCU) SCHOOL OF MEDICINE, VIMM, MASSEY CANCER CENTER

Under the new leadership of Dr. Paul B. Fisher, formerly of Columbia University in New York, the Department of Human and Molecular Genetics (HMG) and the VCU Institute of Molecular Medicine (VIMM) in Richmond, Virginia are now undergoing expansion in the areas of cancer, neurodegeneration and infectious diseases. Research that focuses on current genomic discoveries in medicine with an emphasis on translating these findings into improved approaches for diagnosis and treatment of human diseases are areas of high priority for this initiative.

We are seeking experienced investigators whose research programs use hypothesis-based, innovative approaches to address important health-related areas. Priority for Associate and Full Professor positions will be given to researchers that have established research programs with a proven track record of extramural funding. In the case of Assistant Professors, evidence of high productivity and research in areas of current import will be used as barometers for evaluating future potential. Applications are solicited for tenure-track and tenured positions at the Assistant, Associate or Full Professor level in each of the research areas of emphasis, i.e., cancer, neurodegeneration and infectious diseases.

HMG, VIMM, Massey Cancer Center and VCU provide an interactive and collaborative research and educational environment that will facilitate the training of the next generation of research scientists, clinicians and academicians, and will provide a direct conduit for the translation of genetic information from bench-to-bedside. Outstanding state-of-the-art core research facilities with generous start-up and support packages are available for qualified applicants.

Richmond, VA provides an ideal urban living and cultural environment with affordable housing, outstanding school systems and ready access to other metropolitan areas (including Washington, DC, Baltimore, Philadelphia and New York). Moreover, the City of Richmond offers a diverse and rich cultural heritage that engenders a high quality of living for its residents.

Interested candidates should provide by e-mail: a curriculum vitae, a brief description of research interests and future research directions and contact information for three-to-four references, preferably as a single PDF file to:

Ms. Linda Downes-Piazza (ldownes@vcu.edu) Department of Human and Molecular Genetics Virginia Commonwealth University, School of Medicine 1101 East Marshall Street Sanger Hall Building, Room11-015 Richmond, VA 23298-0033

Review of Applications will begin November 1, 2008 and will continue till the positions are filled.

VCU is an EEO/AA Employer. Females, Minorities and persons with disabilities are encouraged to apply.

Smithsonian Institution
Postdoctoral Fellowships in Temperate Forest Ecology

The Smithsonian Institution seeks two postdoctoral fellows in temperate forest ecology as part of the expansion of the Center for Tropical Forest Science (CTFS) into the temperate zone. CTFS coordinates a network of large-scale long-term forest research plots in 16 tropical and 4 temperate countries. The expansion of CTFS into temperate forests is supported by the HSBC Climate Partnership (www.hsbccommittochange.com) and is known as the SI Global Earth Observatory project. Candidates for these 2-year positions are sought in the areas of community and population ecology, climate change biology, and forestry. Positions will involve synthesis and analysis of data on the long-term dynamics of temperate forests and require a strong analytical background. Candidates should have an established record of research and scholarly publication. Review of applications will begin 30 November 2008. Send CV, a statement of research interests, and names of three references to: William Tootle, CTFS Program Manager, Harvard University, 22 Divinity Avenue, Cambridge, MA 02138. Email: william_tootle@harvard.edu.

Smithsonian Tropical Research Institute (STRI) seeks a postdoctoral fellow in watershed hydrology and hydrochemistry. The position, based in Panama, will assist in the implementation of a multi-year monitoring strategy of water and solute fluxes under different land covers. The person will work as a member of a multidisciplinary team on the Panama Canal Watershed Ecosystems Services Project, a project supported by the HSBC Climate Partnership (www.hsbccommittochange.com). Candidates should have field experience in monitoring water and solute fluxes, strong analytical skills, and an interest in model applications. The initial appointment is for one year, potentially renewable for a further two years. A Ph.D. in hydrology, biogeochemistry, environmental sciences, or a closely related discipline is required. Communication skills in Spanish would be an advantage. Review of applications will begin 30 November 2008. Send CV, a statement of research interests, and names of three references to: Ir. Daniela Weber, STRI, Unit 0048, APO AA 34002. E-mail: weberd@si.edu. Direct questions to: Jefferson Hall (HallJe@si.edu).
The University of Michigan Department of Medicine, Division of Infectious Diseases seeks M.D., or M.D./Ph.D., candidates for tenured-track positions at the ASSOCIATE, ASSOCIATE, or FULL PROFESSOR rank to develop and conduct independently funded basic and/or translational research programs in the fields of viral or bacterial pathogenesis. Investigators will join a growing and interactive group of researchers with close ties to both basic science and clinical departments within the University, and joint appointments within graduate departments of the University of Michigan are available. Interested individuals should submit curriculum vitae, summary of research and career goals for junior applicants, and contact information along with the following to Prof. James R. Millam, Recruitment Committee Chair, Department of Animal Science, University of California, One Shields Avenue, Davis, CA 95616; telephone: 530-752-1149; e-mail: jrmillam@ucdavis.edu. Closing: February 1, 2009.

UC Davis is an Affirmative Action/Equal Employment Opportunity Employer and is dedicated to recruiting a diverse faculty community. We welcome all qualified applicants to apply, including women, minorities, veterans, and individuals with disabilities.

POSTDOCTORAL POSITIONS are immediately available in our internationally known research group, which is focused toward understanding the molecular, cellular, and physiological principles of nuclear receptor signaling in normal target cells and endocrine cancers. Successful applicants will utilize state-of-the-art technologies (i.e., established mouse models, lentiviral-mediated gene transfer, microarray, and proteomics) to address important questions concerning nuclear receptor and coregulator function in normal physiological processes and disease states, such as breast and endometrial cancer. Applicants with a strong background in molecular biology and in vivo animal systems are encouraged to apply. Salaries will be at the upper competitive end of the national norm. Applicants should have received their Ph.D. and/or M.D. within the past one to two years and, if necessary, be eligible for an appropriate U.S. visa.

Current curriculum vitae, a brief statement describing prior research and future research goals, and three letters of recommendation (all required before interview) should be sent to Prof. Bert W. O’Malley (Chairman) and Dr. John P. Lydon, Department of Molecular and Cellular Biology, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030-4598 U.S.A.; fax: 713-798-2870 or e-mail: jlydon@bcm.tmc.edu.

MOLeCULAR, CELLULAR, AND INTEGRATIVE PHYSIOLOGY
Department of Physiology and Biophysics
The Department of Physiology and Biophysics seeks tenure-track faculty members with interests in either cardiovascular, endocrine, or neuro-physiology. Applicants must have a doctoral degree, and several years of postdoctoral experience, and should be prepared to carry out independent research and to participate in the teaching activities of the Department. Applicants seeking senior faculty positions should show evidence of maintained RO1 funding. Applicants must be able to teach mammalian physiology to graduate and health professional students, and to develop an advanced graduate-level course in their area of interest. Strengths of the Department include in molecular, cellular, and systems physiology with emphasis in cardiovascular, reproductive, and endocrine science and in neuroscience. Applicants with emphasis in transgenic, stem cell, and disease models of cardiovascular, neuro-physiological disorders are especially welcome. Start date August 16, 2009. Applicants should send curriculum vitae and bibliography, a statement of current research interests, and the names of three references to: Faculty Search Committee, Department of Physiology and Biophysics, M/C 901, University of Illinois at Chicago, College of Medicine, 835 South Wolcott Avenue, Chicago, IL 60612-7342.

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

NATIONAL UNIVERSITY OF SINGAPORE
Department of Chemical and Biomolecular Engineering
The Department of Chemical and Biomolecular Engineering at National University of Singapore invites applications for tenure-track FACULTY positions at all levels. The Department is one of the largest internationally with excellent in-house infrastructure and core competencies in research activities in chemical engineering or related areas and a strong research record with excellent publications are required. Please refer to website: http://www.chbe.nus.edu.sg/ for more information on the areas of interest and application details. Applicants should send full curriculum vitae (including key publications), a detailed research plan, a statement of teaching interest, and a list of names of at least three references to: Prof. Jim Yang Lee, Head of Department (Attn.: Ms. Nancy Chia, e-mail: nancychia@nus.edu.sg).
The Department of Biological Sciences at the Faculty of Science at Kuwait University seeks qualified candidates with a strong commitment to high-quality teaching and research in each of the following fields:

- Population genetics – Full Professor
- Bioinformatics/Genomics – Full Professor
- Plant Systematics – Associate Professor
- Plant Molecular Biology – Associate Professor

**Required Qualifications:**
- Academic rank as specified with publications in the field to justify the rank.
- Ph.D. degree in the area of specialization from a reputable university.
- The applicant’s GPA in first university degree should be 3 points out of 4 or equivalent.
- Research experience and publications in refereed international journals.
- University teaching experience in the specified field.
- Full command of teaching in English.

Benefits include attractive tax-free salary according to rank and teaching experience (Professor’s monthly salary varies from KD. 3242 to 3000, Associate Professor’s salary varies from KD. 2557 to 2315 – KD. 1–$3.40), annual air ticket, a one-time settling-in allowance, housing allowance, free national health medical care, paid mid-term holidays and summer vacations, and end-of-contract gratuity. The University also offers an excellent academic environment and financial research support.

To apply, send by express mail/courier service or e-mail, a completed application form, updated curriculum vitae (including mailing address, phone and fax numbers, e-mail address, academic qualifications, teaching and research experience, and a list of publications in professional journals), three copies of Ph.D., Masters and Bachelor certificates and transcripts (An English translation of all documents in other languages should be enclosed) showing grades attained, a copy of the passport, three recommendation letters, and the names and addresses of three persons well-acquainted with the academic and professional work of the applicant. Applications should be sent within one month of the date of announcement. Applications should be addressed to: The Dean, Faculty of Science, Kuwait University, P.O. box 5969, Safat, 13060, Kuwait. For Enquiries: Fax: +965 4836127; E-mail: biosc@kuc01.kuniv.edu.kw.

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**KUWAIT UNIVERSITY**  
**FACULTY OF SCIENCE**  
**KUWAIT**

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.
**FACULTY POSITIONS IN BIOLOGY**

University of Colorado Denver

As part of an exciting hiring effort to fulfill goals in our College’s strategic plan, the Department of Biology (website: http://www.cudenver.edu/biology) on the University of Colorado Denver campus seeks three tenure-track faculty pending final budgetary approval: ASSISTANT PROFESSOR in environmental toxicology (job #648294 at website: http://www.jobsatcu.com); Assistant Professor in evolutionary genetics (job #666577 at website: http://www.jobsatcu.com); and Assistant Professor in developmental biology (job #647044 at website: http://www.jobsatcu.com). UCD is dedicated to ensuring a safe and secure environment for our faculty, staff, students, and visitors. To achieve this goal, we conduct background investigations for all prospective employees. The University of Colorado is committed to diversity and equality in education and employment.

The Department of Biological Sciences at the University of Denver invites applications for two ENDED CHAIRS.

The Freepost-MacMoran Endowed Chair in Conservation Biology, with a focus on the biology and conservation of terrestrial vertebrates.

The Greater New Orleans Foundation Endowed Chair in Aquatic or Terrestrial Resource Conservation. Position will be at the Assistant or Associate Professor level with a primary assignment of teaching. The successful candidate will be expected to develop a funded research program; an emphasis on educational research is encouraged.

UNTSC is undergoing significant expansion of its Master’s, Physician Assistant, and medical pharmacology course enrollment, with a large increase expected for Autumn 2009. Candidates will be considered for interview up to the closing date of December 31, 2008. We anticipate hiring by spring 2009.

Interested applicants should submit their curriculum vitae, a letter of interest, and the names and contact information for at least three references online at website: http://www.untscjobs.com.

**ASSISTANT or ASSOCIATE PROFESSOR position in microbial ecology.**

Candidates should use modern methods of molecular biology and genetics to answer basic questions regarding the factors that influence the diversity and function of microorganisms in ecological systems. The successful candidate will be an active participant in our Institute of Biodiversity and Interdisciplinary Studies and will be expected to establish an externally funded research program as well as teach courses in microbial ecology, introductory microbiology, and other undergraduate/graduate courses in the biology curriculum. Candidates should have a Ph.D. in microbiology or a related field, postdoctoral experience in community teaching and research. Applicants should be committed to working with diversity. Information about the Department of Biological Sciences can be found at website: http://www.selu.edu/faculty research/depts/index.html.

Experience in teaching and research is required. To apply for this position, please complete and submit an online application, which will include the names and contact information for three references and the following attachments: letter of application, resume, and transcripts (official transcripts required upon employment). Applicants must apply by December 5, 2008, online at website: jobs.selu.edu/applicants/central/quickfind–51093.

**SHULL FELLOWSHIP**

The Smithkline Beecham Shull Fellowship at the Oak Ridge National Laboratory (ORNL) invites applications for the Clifford G. Shull Fellowship. The Shull Fellowship provides an outstanding opportunity for scientists to contribute to and develop expertise in applying neutron scattering methods to forefront problems in physics, chemistry, biology, or materials science and engineering. Applications for Shull Fellowships commencing in 2009 are now being accepted. The fellowship includes a 3-year commitment to research and teaching. Applications must be submitted by December 12, 2008. For more information and to apply, go to website: http://jobs.ornl.gov/index.cfm. ORNL is an Equal Opportunity Employer, committed to workforce diversity. Applicants need not be U.S. citizens.

**FACULTY POSITION, PHYSIOLOGY**

Loyola University Chicago

The Department of Physiology at Loyola University Chicago Stritch School of Medicine (website: http://www.stritch.luc.edu/depts/physio) seeks applicants for tenure-track positions at the ASSISTANT or ASSOCIATE PROFESSOR level. We seek colleagues that will contribute to the strength of the University research programs, in particular the Cardiovascular Sciences Program. We are particularly interested in applicants whose research is focused on cellular and molecular physiology/biochemistry, calcium homeostasis, contractile proteins, or signal transduction. Faculty members are expected to obtain an NIH and/or externally funded research program, have a strong commitment to graduate and medical education, and contribute to our vibrant collaborative environment. Candidates must have a doctoral degree and postdoctoral experience; senior applicants should have a strong record of research productivity and extramural support. Review of applications will commence immediately and applications will be accepted until the positions are filled. Please send PDF electronic copies of curriculum vitae, statement of research interests, and contact information for three potential references to e-mail: physiocruft@luc.edu.

**FACULTY SEARCH CHAIR**

Gregory A. Mignery, Ph.D.

Faculty Search Chair

Department of Physiology
Loyola University Chicago

Stritch School of Medicine

1210 South First Avenue

Maywood, IL 60153-5800

Loyola University Chicago is an Equal Opportunity/Affirmative Action Employer.

**FISH ECologist/Ecological Modeler Postdoctoral**

Oregon State University. Work with interdisciplinary team of scientists to develop and test various models to understand the response of fishes and food webs to hypoxia and physical processes in the Great Lakes and the Gulf of Mexico. Will be expected to work with model output and fisheries acoustic data, write manuscripts, and make presentations at conferences. Ph.D. in fisheries science, aquatic ecology, or related field with a willingness to work with interdisciplinary research teams are required. Familiarity with underwater acoustics and experience with bioenergetics and/or food web models are desired qualifications. To review posting and apply go to website: http://oregonstate.edu/jobs.

Posting #0003437, closing date November 30, 2008. OSU is an Affirmative Action/Equal Opportunity Employer, and has a policy of being responsive to dual-career needs and a commitment to promoting and enhancing diversity.
Tenure-Track Faculty Position  
Pathobiology  
University of Maryland Biotechnology Institute

The Center for Biosystems Research (CBR) invites applications for a tenure-track, research-primary faculty position at the Assistant Professor level in pathobiology. The position will be available by Fall 2009. Current areas of research in pathobiology within CBR include molecular mechanisms of virulence, host defense regulatory pathways, and mechanisms of pathogen transmission. Candidates must have Ph.D. in the biological sciences with demonstrated ability to do exceptional research in pathobiology with relevance to biotechnology. Applicants should have strong research programs that address fundamental and practical problems related to biotechnology. Attractive areas of research include, but are not limited to, studies of pathogens, parasites, vectors and their interactions; receptor-mediated endocytosis and cellular trafficking in host defense; and host repair and regeneration in response to infection.

CBR is one of four research centers of the University of Maryland Biotechnology Institute (http://www.umbi.umd.edu/~cbri/). UMBI’s mission is to conduct groundbreaking research in key areas of biotechnology, to make fundamental discoveries, generate innovative solutions to practical problems, and develop new technologies for commercial application. This position is to be located on the University of Maryland Shady Grove campus in a new 140,000 ft² research facility with capabilities to accommodate diverse research programs requiring bio-containment (BL3), small animals, plant growth needs (growth chambers and greenhouses) and transgenesis (insects and plants). These facilities add to outstanding resources for conducting bioinformatics, X-ray crystallography, NMR spectroscopy and biophysical measurements. UMBI Shady Grove is located in the Baltimore/Washington area. The successful candidate will be engaged with convenient access to the National Institutes of Health, National Institute of Standards and Technology and the U.S. Department of Agriculture research campuses.

The investigator is expected to establish an outstanding, extramurally funded, independent research program, while also interacting cooperatively with other investigators within the setting of an interdisciplinary research institute.

Application Instructions: Please visit www.umbi.umd.edu/jobs (select position number 300037) for application instructions. For full consideration, all candidates must submit current curriculum vitae, summary of research activities, future plan and (3) three letters of recommendation (all in pdf format).

Review of applications will begin December 1, 2008 and continue until position is filled.

UMBI IS AN EEO/ADA/AA EMPLOYER.
RESEARCH ASSOCIATE/POSTDOCTORAL FELLOW. Position available as Research Associate or Postdoctoral Fellow level at Yale Medical School for NEUROSCIENTIST with interest and prior training in pain research, to join multidisciplinary team (physiologists, pharmacologists, cell and molecular biologists, et cetera) studying neuropathic pain. M.D. and/or Ph.D. degree, and prior training including immunohistochemistry and electrophysiology in animal models is essential. Send curriculum vitae, statement of interest, and three letters of recommendation to: Stephen G. Waxman, M.D., Ph.D., Chair, Department of Neurology, LCI 708, Yale University School of Medicine, P.O. Box 208018, New Haven, CT 06520-8018. Qualified women and members of underrepresented minority groups are encouraged to apply. Affirmative Action and Equal Opportunity Employer.

FELLOWSHIP PROGRAM
Smithsonian Institution

GRADUATE STUDENT, PREDOCTORAL, and SENIOR FELLOWSHIPS in animal behavior, ecology, and environmental science; including an emphasis on the tropics; Earth sciences and paleoecology; evolutionary and systematic biology; history of science and technology. Tenable in residence at the Smithsonian facilities. Stipends and tenure vary. Awards are contingent upon the availability of funds. Deadline: January 15. Contact: Office of Fellowships, Smithsonian Institution, Desk S, P.O. Box 37012, L’Enfant 7102 MRC 902, Washington, DC 20013-7012; telephone: 202-633-7070; e-mail: sifo@si.edu; website: http://www.si.edu/research-study.

An Equal Opportunity Employer.

POSTDOCTORAL RESEARCH FELLOW POSITIONS are available in the laboratory of Dr. Catherine Wu at the Cancer Vaccine Center, Dura-Farber Cancer Institute, Harvard Medical School. We are looking for motivated applicants with expertise in the isolation and analysis of antigen-specific human T cells to work on projects in translational immunology to improve our understanding and development of personalized cancer vaccines in collaboration with the Broad Institute.

Requirements. Candidates must have received a Ph.D. and/or M.D. degree within the past three years to be considered. Training in immunology, molecular biology is required. Candidates must have excellent verbal, written, communication, and organizational skills. Applicants should forward their resume and three references to: e-mail: cwu@partners.org.

Maharashtra Association for the Cultivation of Science (MACS) invites applications from Indian nationals for a post of DIRECTOR at the Agharkar Research Institute (ARI), Pune. ARI is an autonomous Institute fully funded by the Department of Science & Technology ( DST), Government of India, specializing in plant, animal, and microbial research including nanobiotechnology. Interested scientists with requisite qualifications and experience may apply in the prescribed proforma available on the website: http://www. aripune.org with detailed biodata, to the: Chairman, Institute Council, c/o Maharashtra Association for the Cultivation of Science-Agharkar Research Institute, G.G. Agharkar Road, Pune – 411 004 on or before 15 December 2008. More details can be had from website: http://www.aripune.org.

ASSISTANT PROFESSOR/ADVANCED ASSISTANT PROFESSOR
HUMAN PHYSIOLOGIST, tenure track. Biolog Department, University of Michigan-Flint. Minimum requirements: Ph.D. or clinical Doctorate with strong background in human physiology. For more information, see website: http://www.umflint.edu/biology/

ASSISTANT PROFESSOR/ADVANCED ASSISTANT PROFESSOR

POSTDOCTORAL POSITIONS
Yale University School of Medicine
Pathogenesis/Immunology

Positions available to study the interactions between pathogens, arthropod vectors, and the mammalian host. Borrelia burgdorferi, Anaplasma phagocytophilum, and West Nile virus will be among the model organisms. Experience in microbial pathogenesis, immunobiology, cell biology, or molecular biology necessary.

Send curriculum vitae and recent publications to: Erol Fikrig, M.D., Investigator, Howard Hughes Medical Institute, Yale University School of Medicine, Department of Pathology, 269 College St, New Haven, CT 06520-8022 or e-mail: erol.fikrig@yale.edu. Yale University is an Affirmative Action, Equal Opportunity Employer. Applications from women and minorities are encouraged.

FACULTY POSITION
INTEGRATIVE SYSTEMS PHYSIOLOGIST

Tenure-track position in the Department of Biological Sciences at California State University, Long Beach starting fall 2009: those utilizing proteomic approaches encouraged. ASSISTANT PROFESSOR preferred; ASSOCIATE PROFESSOR considered. Combine teaching and research with access to state-of-the-art facilities. See website: http://www.csulb.edu/Division/Science/positions/ for details. Review begins on December 15, 2008. CSULB is an Equal Opportunity Employer committed to excellence through multicultural diversity.

POSTDOCTORAL TRAINING in TRAUMA and BURN SCIENCE

The Trauma Research Fellowship Program at the University of North Carolina at Chapel Hill invites applicants from highly motivated Physicians and Scientists interested to build a career in trauma and burn-related problems. Candidates may be Surgeons seeking research training but Physicians from other medical specialties, and Ph.D.s from any discipline interested in basic and translational trauma/burn research are particularly encouraged to apply. The positions are restricted to U.S. citizens and permanent residents. The training faculty is diverse and includes both basic scientists and clinicians from a wide variety of disciplines focusing on trauma and burn-related problems including cell biology, physiology, molecular biology, and immunology. More information and application form can be found at website: http://www.med.unc.edu/surgery/education/fellowships/tranaua-research. Send application, current curriculum vitae, a recent photograph, a personal statement addressing your career interests, and the names of three references to: Suzan deSeres Director of Research Administration Department of Surgery Research Support Office CB #7050 Chapel Hill, NC 27599-7050 Telephone: 919-966-8548 FAX: 919-966-3999 E-mail: sdes@med.unc.edu

The University of North Carolina is an Equal Opportunity/Affirmative Action Employer. Applications from women, minorities, veterans, and disabled persons are encouraged.

CHEMICAL and BIOMOLECULAR ENGINEERING FACULTY OPENINGS
University of Notre Dame

The Department of Chemical and Biomolecular Engineering at the University of Notre Dame is pleased to announce openings for tenure or tenure-track faculty at any rank. A Ph.D. or equivalent degree is required. All research fields are welcome. Applicants should have developed, or show potential for development of, an outstanding research program and possess a strong commitment to graduate and undergraduate education. Applicants should send a curriculum vitae, statement of research and teaching interests, and the names and complete addresses of at least four references to: e-mail: cbeopen@nd.edu.

Please direct any questions to: e-mail: mjm@nd.edu.

Note: Dame is an Equal Opportunity/Affirmative Action Employer.

MATeRIALS SCIENTIST with experience in failure criteria development to work in Washington, D.C. Send resume to: B. Haynes, SAIC, 113 Howard Street, 101, La Plata, MD 20646. Must reference job code 275102.

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