DEAN OF THE COLLEGE OF SCIENCE
National Taiwan University

The candidate should be a full professor of any nationality, while being elected and served as the Dean of the College of Science. Nomination would come from a minimum of fifteen full-time faculty members, who should hold at least lecturing status at the College of Science. Required Application Materials: Candidate nomination statement for deanship, academic and professional background of the candidate, or related field. Experience, publication list, written agreement to accept nomination. Deadline of submission: March 31, 2011. Inquiries: e-mail: linghy@ntu.edu.tw (Head Secretary, College of Science, National Taiwan University). Website: http://homepage.ntu.edu.tw/~cos/html/deanE.htm.

ASSISTANT/ASSOCIATE PROFESSOR (Computational Biologist) Department of Biological Sciences—Required Qualifications: Ph.D. or equivalent degree (A.B.D. candidates will be considered, but must have Ph.D. by May 2011); successful track record of productive research. Additional Qualifications Desired: Computational biologist who investigates fundamental biochemical, cellular, developmental or evolutionary questions; areas of interest should include, but not limited to: biomolecular dynamics and structure-based drug design, proteomics, systems biology and interaction networks, metabolomics, bioinformatics, evolutionary genomics, and metagenomics analyses. Responsibilities: Establishes a vigorous, extramurally funded research program; contributes to undergraduate and graduate teaching; contributes to the development of a center of excellence in Comptutational Biology at LSU. Title and rank will be commensurate with the final candidate’s credentials and experience. An officer of employment contingent on a satisfactory pre-employment background check. Application deadline is February 28, 2011 or until a candidate is selected. We encourage applications from women and minorities. Apply online at website: http://www.busysystemcareers.lsu.edu. Position #000266.

POSTDOCTORAL RESEARCH FELLOW

Full-time postdoctoral positions are available at Baylor College of Medicine, Department of Molecular and Human Genetics and Huffington Center on Aging. Our research goals are to advance our knowledge on the fundamental mechanisms of aging, and provide promising pharmaceutical targets to improve healthy lifespan. The focus of the laboratory is to study reproductive senescence and fat metabolism, and their complex interactions during aging, using a combination of worm genetics with proteomics, lipidomics, and label-free nonlinear Raman imaging approaches. For more information, refer to website: http://www.bcm.edu/genetics/index.cfm?pmid=17712. We are seeking highly motivated candidates with strong background in protein and lipid biochemistry, a genetics, developmental biology, or cellular imaging. To apply, please send your curriculum vitae, a brief research statement, and contact information of three references to Dr. Meng Wang by e-mail: wmweng@bcm.tmc.edu.

The Linda Cric Institute for Down Syndrome (LCI) at the University of Colorado School of Medicine invites applications at the ASSISTANT PROFESSOR level in the areas of basic, translational or clinical research, in Down syndrome. Applicants must have a Ph.D. and/or M.D. degree, or their equivalent, and appropriate and sufficient postdoctoral research experience. Nomination and dependent research program and funding obtained. They must commit the vast majority of their research effort to Down syndrome. Applicants must apply online at website: http://www.jobsatu.edu, refer to job posting 812208.

ASSISTANT PROFESSOR (Neurophysiology/ Tenure-track position) Department of Biological Sciences—We are seeking a qualified candidate for a nine month, open rank, tenure-track faculty position. We seek applicants from highly qualified individuals investigating small non-coding RNAs, with specific emphasis on the role of non-coding RNA in the response to cellular stress and disease. The successful applicant will be expected to develop an extramurally funded research program, and commit to teaching excellence at both the undergraduate and graduate levels. A Ph.D. or equivalent degree in molecular biology or biochemistry is required. Applicants applying at the rank of Assistant Professor should have postdoctoral research and teaching experience, and a strong publication record. Applicants for Associate or Full Professor must have a demonstrated history of research productivity and a strong record of external funding. Please send curriculum vitae, statements of research and teaching philosophy, and contact information for three references to: Kenneth Murray, Department of Biological Sciences, Florida International University, Miami, FL 33199. Electronic applications are encouraged and should be sent to e-mail: kmurray@fiu.edu. Florida International University is an Equal Opportunity Educator and Employer.

POSTDOCTORAL FELLOWSHIP

The College of Science invites applications for the position of POSTDOCTORAL FELLOWSHIP in the areas of molecular biology, cell biology or biochemistry. The position is for one year, with the possibility of renewal for a second year. The successful applicant will have a Ph.D. in molecular biology, cell biology, or biochemistry and will be expected to conduct independent research in the laboratory. Applications from individuals with experience in molecular biology or biochemistry are encouraged. Please send a curriculum vitae, a brief research statement, and contact information of three references to: Dr. Robert L. Renn, Department of Biological Sciences, Louisiana State University, Baton Rouge, LA 70803. Applications should be submitted by March 1, 2011. An offer of employment is contingent on satisfactory pre-employment background check. The successful applicant will be expected to develop an extramurally funded research program, and commit to teaching excellence at both the undergraduate and graduate levels. A Ph.D. or equivalent degree in molecular biology or biochemistry is required. Applications from women and minorities are encouraged. Applicants should apply online at website: http://www.jobsatu.edu, refer to job posting 812208.

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ASSISTANT PROFESSOR (Neurophysiology/ Tenure-track position) Department of Biological Sciences—We are seeking a qualified candidate for a nine month, open rank, tenure-track faculty position at the Assistant Professor level in Neurophysiology. Required Qualifications: Ph.D. or equivalent degree; successful track record of productive research; two years of postdoctoral experience. Additional Qualifications Desired: Neurophysiologist working at the cellular or systems level to address fundamental questions in neuroscience; areas of interest include, but are not limited to, the physiological aspects of sensory systems, motor systems, or neuroethology. Researchers utilizing non-mammalian model systems and those who would appreciate joining a large, diverse, and interactive faculty are especially encouraged to apply. An offer of employment is contingent on a satisfactory pre-employment background check. Application deadline is February 28, 2011 or until a candidate is selected. Apply online at website: http://www.busysystemcareers.lsu.edu. Position #018316.

RNA BIOLOGIST—Florida International University (FIU). The Department of Biological Sciences at FIU invites applications for a nine month, open rank, tenure-track faculty position. We seek applications from highly qualified individuals investigating small non-coding RNAs, with specific emphasis on the role of non-coding RNA in the response to cellular stress and disease. The successful applicant will be expected to develop an extramurally funded research program, and commit to teaching excellence at both the undergraduate and graduate levels. A Ph.D. or equivalent degree in molecular biology or biochemistry is required. Applicants applying at the rank of Assistant Professor should have postdoctoral research and teaching experience, and a strong publication record. Applicants for Associate or Full Professor must have a demonstrated history of research productivity and a strong record of external funding. Please send curriculum vitae, statements of research and teaching philosophy, and contact information for three references to: Kenneth Murray, Department of Biological Sciences, Florida International University, Miami, FL 33199. Electronic applications are encouraged and should be sent to e-mail: kmurray@fiu.edu. Florida International University is an Equal Opportunity Educator and Employer.

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**FIX THE SYSTEM, NOT THE WOMEN**

**REMOVING BARRIERS TO SUCCESS**

Despite a wide range of initiatives to support women scientists in their careers, considerable barriers remain, as shown in a recent report by AAAS/L’Oréal. We examine what issues still need addressing in order to break down the remaining hurdles. By Julie Clayton

Like many graduate students, Ruth Brown, wonders what lies ahead. She had to work hard to pay for her undergraduate studies, and now has just one year left at a university in Sheffield until her Ph.D. grant funding runs out and she has to submit her thesis. It may be the start to a long, successful career in scientific research. But still the way ahead seems so full of hurdles that the uncertainty has Ruth considering leaving scientific research altogether.

“The main problem in science is that there’s not much job security,” she explains. “You have to apply for each contract, and you feel that you are constantly fighting for your own job.”

Ruth is especially concerned about the short-term nature of future contracts—a series of postdoctoral positions in different labs, during which she must work to secure a much-coveted, and more long-term, university lectureship (similar to an assistant professorship in the United States). Her career progression would be far from automatic. And Ruth is aware that competition will intensify at each stage. Even if she succeeds through one or more postdoctoral positions, a long-term appointment may still prove elusive.

If Ruth does decide to quit research, she will be one of a huge number of women scientists who have trained to the Ph.D. level and then left academia.

This departure of women from scientific careers is well known in both Europe and North America and is frequently referred to as a "leaky pipeline." The issue was recently highlighted in the 2009 report by the National Research Council on "Gender Differences at Critical Transitions in the Careers of Science, Engineering, and Mathematics Faculty," which showed that despite enormous gains ensuring equal opportunities for women scientists, there remain stark differences between the numbers of men versus women who reach top positions in science (http://scim.ag/fjXUnq). Based on two national surveys of research university departments and faculty in the United States in 2004, for example, 45 percent of those earning a Ph.D. in the biological sciences were women, whereas only 26 percent of applicants for tenure-track appointments were female. Is this due to lack of job security, as Ruth fears, or are there other reasons why there are so few women applying for senior level positions?

“Women are making the choice not to apply, but we don’t know why. My hunch is a lot has to do with women trying to figure out which setting will allow them to integrate their professional and family lives.”

**GENDER BIAS**

One issue, which received wide attention following a report from MIT in 1999 (A Study on the Status of Women Faculty in Science at MIT, http://scim.ag/e5thdn), was that too few women were gaining faculty appointments due to gender bias. In other words, hiring panels—which tended to consist mostly of men—were favoring male candidates over female candidates.

However, institutions across the United States have since taken steps to ensure that women are involved in selection and hiring of faculty to protect against women candidates being judged unfairly. It seems to have had the desired effect, in that the 2009 “Gender Differences” report found no evidence of gender bias in faculty hiring, according to Claude Canizares, professor in experimental physics at MIT, who co-chaired the report’s panel. Indeed, women are very successful at winning faculty positions, so long as they get as far as entering the applicant pool.

Canizares believes that the difficulties facing women scientists are deep-rooted. “It is my personal speculation that academic careers are less attractive to women than men because of family issues, lack of job security, their biological clock, and the time to tenure takes longer now compared to... continued »

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**UPCOMING FEATURES**

- Faculty: Moving Up The Academic Ladder—February 11
- Postdocs: Recovering From Career Mistakes—March 18
- Cancer Research: Emerging Fields—March 25
two decades ago,” he explains. “These concerns are different to the issue of gender bias which U.S. universities have worked hard to reduce.”

Joan Girkus, special assistant to the dean of faculty at Princeton University and member of the “Gender Differences” report committee, agrees. She believes “women are making the choice not to apply, but we don’t know why. My hunch is a lot has to do with women trying to figure out which setting will allow them to integrate their professional and family lives.”

The difficulty of balancing life and a scientific career is an issue commonly raised by women researchers who leave academia. The 2010 AAAS/L’Oréal survey “Barriers for Women Scientists” (http://scim.ag/hPAt8n), in which more than 1,300 men and women across the United States took part, identified the difficulty of having and raising children as a major barrier for women scientists, along with the challenges of finding funding and the experience of gender bias. Other barriers cited included the lack of access to mentors and role models. In regards to overcoming barriers for career progression, women appeared to be more likely to rely on other people, such as friends or family, mentors, and teachers, while men had a tendency to go for less personal resources in the form of grants/fellowships and corporate support.

These findings reflect the situation on both sides of the Atlantic, according to Rachel Tobbell at the United Kingdom Resource Center (UKRC), a government-funded body working to promote gender equality in science, technology, engineering, and mathematics by providing advice, tools, and resources. “This [survey] could be about the U.K.—it’s very similar,” she says.

For example, she highlights the dilemma women face during their pre-tenure years—a limited window of time to start a family, given the knowledge that by the age of 42 only a very small percentage of women are able to conceive naturally. “It’s a watershed time. There is a lot of pressure during that part of your life. It’s a time when a lot of young scientists are working in a very insecure environment, competing for short-term contracts and limited grant funding. Women just can’t see how they can do science and have a family. Men are less put off—they do not have the same biological clock pressure. By the time they are at lecturer level men are in the majority.” In addition, Tobbell notes that men are more willing to work in a competitive environment.

Another problem facing many women is lack of confidence, and hence a reluctance to put themselves forward for a promotion. “Women are more likely to deselect from an application, whereas men are more willing to have a go and risk rejection. Women are more likely to look at a job description and see the parts they do not fulfill,” Tobbell observes.

So what can be done about this myriad of problems facing women in research?

Strategies such as mentoring can make an enormous difference. With help and advice from UKRC, the United Kingdom’s Biochemical Society has established a mentoring program for women biochemists, pairing together experienced senior women scientists with more junior women at other institutions, in order to provide encouragement, advice, and practical help. Ruth Brown is one of the first groups of mentees who began a yearlong effort with a mentor at the University of Leeds. It is this program that has kept Ruth on track to complete her Ph.D. “I got to the point where I wasn’t sure I wanted to continue. It was the mentoring program which made me want to carry on,” she says.

Ruth also looks upon her mentor as a role model: “If you see someone senior and they’re willing to talk to you then you believe you can get there,” she adds. Ruth’s mentor encouraged her to apply for travel funds to attend a conference, and to network. The reward for Ruth is increased confidence—so much so that she has volunteered to represent students and chair meetings for her department’s Postgraduate Staff-Student Committee—something that she would not have considered before.

INSTITUTIONAL STRATEGIES

For the past 10 years, the U.S. National Science Foundation’s ADVANCE program has supported universities across the United States by providing a broad portfolio of activities that support women scientists, including mentoring.

Other institutions have their own programs. At Princeton, for example, faculty and staff who have children are eligible for up
to $5,000 per year for pre-school childcare support and maternity leave. Faculty can apply for travel support to conferences for dependents, and new faculty who are the primary parent responsible for childcare can have time off from teaching. Graduate students have parallel programs. And to encourage more women to apply for faculty positions, Princeton also has a policy extending tenure-track positions by an extra year following the birth or adoption of a child—an approach now popular with other universities across the United States. This enables scientists to produce more publications that they might otherwise have achieved after taking time out with young dependents before being assessed for permanent appointments. Girgus, who has overseen this transition to a more family-friendly environment, believes that Princeton is now more attractive to women scientists. Being a female professor now “feels more like part of the norm,” she says.

Such initiatives, however, are aimed mostly at the two ends of the academic ladder—graduate students and faculty—so there is still a large group of women in between who are not receiving such targeted support. According to Girgus, it is the women postdoctoral researchers who are least addressed by current policies and practices. “It’s the postdocs who miss out. Although some universities do have administrators to address the needs of postdocs, the short-term nature of their employment and relatively little structure for central university support makes it harder to create career programs aimed at postdocs,” Girgus points out.

In the United Kingdom, universities are encouraged to create female-friendly policies by the Royal Society’s Swan Charter Awards. A university can apply for a Bronze Award by creating a plan for changes that support women scientists, a Silver Award for implementing these plans, and a Gold Award for producing evidence that the changes are having an impact.

Other parts of Europe, however, are lagging behind. In the Netherlands, there are very few women in senior scientific positions and attitudes among male-dominated establishments are slow to change, according to Simone Buitendijk, professor in Women’s Health and Midwifery Studies at the University of Amsterdam Medical Center.

“It’s such a pervasive part of our society that women don’t play the role that men do in industry or in government. We’re making very slow progress.” What’s missing, she believes, is awareness of the importance of gender diversity—not just for achieving equality for women, but the understanding that gender diversity brings much wider benefits, such as different approaches to problem solving and to decision making which can make teams, departments, and companies more successful in a competitive marketplace. A greater awareness about gender diversity would, she argues, provide a stronger incentive for institutions to change.

Buitendijk is one of a panel of scientific experts who recently took part in GenSET, a project that aims to introduce change at scientific institutions across Europe so as to achieve a balanced representation of women in all areas. Key to the GenSET philosophy is that gender equality in science improves scientific quality. It is not just a women’s career issue but a societal issue, and that through gender diversity, the entire workforce has the potential to be more creative and productive. The European Union supports the project as part of a broader Science in Society program that aims to enhance the success of Europe’s scientific workforce.

“The European Commission thinks GenSET is great because it’s a new voice from the scientific community for the scientific community,” notes leader of the GenSET consortium, Elizabeth Pollitzer.

Over 100 European institutions have become partners to GenSET, including the London School of Economics, the Spanish National Research Council, and the European Science Foundation. Another is the University of Tromsø, Norway, which has become the first institution to fully adopt GenSET’s guiding principles, coordinated by Curt Rice, pro rector of the university and a theoretical linguist who also specializes in scientific leadership. Each of the university’s six participating faculty will be translating these principles into action, and will receive mentoring by GenSET during the process.

Getting commitment for change at the highest ranks is critical, according to Buitendijk. “We need deans and CEOs to understand the issues and then persuade those below them.”

However, for institution leaders to be convinced to take action on gender diversity they may first need convincing about the personal benefits of such action, according to Nicole Grobert at the University of Oxford, who coordinates the U.K. arm of a European-wide project known as Diversity. “The personal benefit is a key to the initiative,” says Grobert. She emphasizes too that these changes do not require massive resources. “It’s about a change of mindset and not creating additional workloads for people.”

Graduate student Ruth Brown has yet to make her final decision about whether or not to stay in academic science. If she does decide to leave the lab, she feels well equipped for a career in a different area of the science enterprise. One area she is considering is management consulting where she can apply the skills she has learned in analytical thinking, data presentation, and writing. So even if her decision is a loss to research, she still has the potential to make an important contribution to the broader scientific arena.

Julie Clayton, a freelance science writer and journalist, works out of Bristol, United Kingdom.

DOI: 10.1126/science.opms.r1100099

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The expertise for this position includes a strong foundation in cell biology, stem cell research or quantitative microscopy, ideally (but not necessarily) coupled with an understanding of the principles and applications of secondary ion mass spectrometry. Working in close coordination with the current Director, the successful applicant will begin to assume responsibility for an NIH P41 funded National Resource for Imaging Mass Spectrometry (http://www.nrims.hms.harvard.edu/) that currently includes two NanoSIMS instruments and a dedicated support team. Other responsibilities include research, teaching and the supervision of graduate students and postdoctoral fellows. This work will be enhanced by the opportunity to work with a superb community of collaborating biologists and physicians at Harvard Medical School, its affiliated Hospitals and MIT who are engaged in state-of-the-art biomedical research.

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Chair, Search Committee
c/o Ms. Lindsay Clinton
BWH Genetics Division
New Research Bldg., NRB 458B
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Boston, MA 02115

Brigham and Women’s Hospital/Harvard Medical School are Equal Opportunity/Affirmative Action Employers actively committed to increasing the diversity of our faculty: women and members of underrepresented minority groups are therefore strongly encouraged to apply.

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Cures don’t just happen.
They demand collaboration. Dedication. Enthusiasm. Teamwork.

The Gatsby Charitable Foundation invites applications for Research Group Leader positions to be held at the Sainsbury Laboratory at the University of Cambridge.

The positions are open to applicants of any nationality. The Gatsby Charitable Foundation intends that the positions will be awarded across a broad range of seniority, but applicants would typically have postdoctoral experience in a field related to the overall scientific focus of the Laboratory in plant development and in computational modelling of development. Applicants should be able to provide strong evidence of their potential to become independent scientific group leaders. Applicants who currently hold a permanent post in a University or other Research Organisation are welcome to apply.

Funding will initially be provided for five years, with a possible extension for a further five year term, with no overall limit on number of extensions. The laboratory has excellent core facilities, including growth room, glasshouse and computing facilities, Group Leaders will be provided with an annual research grant exceeding £250,000 per annum in addition to their salary. Once in post, group leaders will be eligible to apply for research grant funding from other sources.

Applications should be submitted electronically as PDF files and include a full CV, a research proposal for the initial five year period as group leader, and the names of at least three referees. Further guidance and details about the laboratory can be obtained by e-mailing Sainsburylab@cam.ac.uk. Completed applications should be sent by e-mail to Sainsbury.applications@admin.cam.ac.uk.

Applications can be submitted at any time. Applications will be peer reviewed by the Gatsby Charitable Foundation at least three times annually.

POSITIONS OPEN

Research Group Leader, Sainsbury Laboratory, Cambridge University

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Applications can be submitted at any time. Applications will be peer reviewed by the Gatsby Charitable Foundation at least three times annually.
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Center for iPS Cell Research and Application (CiRA),
Kyoto University
Director: Shinya Yamanaka

CiRA invites applications for a tenure track faculty position (Principal Investigator) at the Associate or Full Professor level. Applicants with expertise in stem cell biology, regenerative medicine, or relevant researches are encouraged to apply.

1. Vacancies
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2. Work Place
   CiRA, Kyoto University, Japan

3. Job Descriptions
   Applicants are expected to contribute to the research categories listed below.
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   (2) Establishment of various disease-specific iPS cells and development of their clinical application
   (3) Pre-clinical study for cell therapy utilizing small- or medium-sized mammals.
   (4) Other research utilizing iPS cells

4. Job Conditions
   [Salary] In accordance with Kyoto University Regulations
   * Faculty title will be decided according to one’s career.
   [Starting Date] From April 1st, 2011 (or as soon as possible after this date)

5. How to Apply
   Applicants should deliver CV, list of research achievements, a brief summary of scientific achievements and research plan to the postal address listed below by February 28, 2011. Please see our website for details and download the forms. (Applying by e-mail is not acceptable.)

Please refer to our website for details: http://www.cira.kyoto-u.ac.jp/e/employment.html

Contact: Dr. Tetsuya Ishii
Head of the Research Management Office
Center for iPS Cell Research and Application (CiRA),
Kyoto University
(53 Kawara-cho, Shogoin, Sakyo-ku, Kyoto, Japan 606-8507)
E-mail: collaboration@cira.kyoto-u.ac.jp

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For application, please send resume and cover letter with job code in the subject of email to: InfoNNST@novonordisk.com.

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Using immunology and cell biology expertise to actively participate in and contribute to the novel drug R&D for the treatment of inflammatory disorders.
Requirements:
- Ph.D. in Immunology, Cell Biology, or relevant biological areas
- >2 years of postdoctoral experience is preferred and a good track record in areas mentioned
- Above Experience in inflammatory disease research is preferred
- Experience with monoclonal antibody technology is a plus

Senior Scientist/Principal Scientist in Molecular Biology [Job code: BRCMB0131]
Lead effort on antibody discovery/generation via phage display or other display platforms; Strategic and scientific activities related to the discovery and design of recombinant antibody.
Requirements:
- Ph.D. in Molecular Biology or relevant biological science
- A proven track record of either antibody library construction or display technologies such as phage, yeast or E.coli display
- Experience with automation and high throughput screening is a plus

Senior Scientist/Principal Scientist in Molecular Biology [Job code: BRCMB0133]
Play a direct role in developing and optimizing mid-scale protein expression in mammalian cells, using both transient and stable systems to support pre-clinical (non-GMP) studies for target validation and protein therapeutic research.
Requirements:
- Ph.D. in Molecular Biology, Biochemistry or relevant biological science
- 2-5 years experience in mammalian protein expression and cell culture scale-up
- Proven hands-on experience with transient transfection and stable cell line development
- Expert knowledge of state-of-the-art wave-bag and other scale-up technologies
- Experience with high throughput cell culture is a strong plus

Senior Scientist/Principal Scientist in Protein Chemistry [Job code: BRCPC0161]
Purify and characterize various proteins at laboratory to pilot scale to support therapeutic protein drug R&D, and actively participate in discovery of new and improved therapeutic proteins or antibodies against inflammatory diseases.
Requirements:
- Ph.D. in protein chemistry, biochemistry or related discipline with >2yrs of post-doc training
- A thorough understanding and solid hands-on experience on protein engineering, refolding purification, characterization and assay development.
- Excellent track record of research in at least one of the following fields: biochemistry, immunology, inflammation.

Senior Scientist/Principal Scientist in Protein Chemistry [Job code: BRCPC0163]
Provide expertise and scientific support in protein characterization and analytical development in a dynamic and diverse team. Be responsible for designing experiments, managing projects and supervising research associates.
Requirements:
- Ph.D. in chemistry, biophysics, biochemistry or related discipline with >2yrs of post-doc training.
- In-depth understanding of the biological, biophysical and chemical properties of protein therapeutics and monoclonal antibodies.
- Demonstrated familiarity and proficiency with protein characterization technologies including but not limited to MALDI-TOF and LC-MS.
- Hands-on experience with chromatographic and electrophoretic techniques RP, IEC, SEC, CE, CIEF and 2D electrophoresis is a strong plus.
Research Position at ICYS, NIMS, Japan

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

In the ICYS, we offer a special environment that enables young scientists to work independently based on their own idea and initiatives. All management and scientific discussions will be conducted in English. An annual salary between 5.03 and 5.35 million yen (level of 2009) will be offered depending on qualification and experience. The basic contract term is two years and may be renewed to one additional year depending on the person’s performance. A research grant of 2 million yen per year will be supplied to the ICYS researcher.

All applicants must have obtained a PhD degree within the last ten years. Applicants should submit an application form, which can be downloaded from our web site, together with a resume (CV) and a list of publications. A research proposal on an interdisciplinary or integrated area related to the materials science should also be submitted. The application letter should reach the following address via e-mail or air mail by March 31, 2011. Visit our website for more details (http://www.nims.go.jp/icys/newicyss/).

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

GRANT FOR POSTDOCTORAL POSITIONS IN SWEDEN

This grant enables researchers with doctorates (PhDs or equivalent) to work at Swedish higher education institutions or research establishments. The programme spans two years. Research areas:

• Natural Sciences
• Engineering Sciences
• Medicine and Health
• Humanities
• Social Sciences
• Educational Sciences
• Artistic research and development

Call for applications opens mid January, Submission deadline is February 24, 2011.

Further information at www.vr.se

Director
Center for Genome Research and Biocomputing

Oregon State University seeks a dynamic and innovative individual to lead the Center for Genome Research and Biocomputing. The Center facilitates the development, application and training in computationally intensive, genome-enabled research, has over 100 faculty members, and provides core services and biocomputing facilities relative to genome research. The position offers a unique opportunity to develop a campus vision for integrating genome-enabled research and biocomputing with advances in fundamental and applied life sciences.

The Director will provide leadership for genome-enabled sciences, oversee the facilities, functions, and staff of the center, and maintain an independent research program.

Applicants must possess a Ph.D. or equivalent in a relevant area, demonstrate an outstanding record of research accomplishment, and display a broad knowledge of genome-enabled science and an ability and willingness to interact with scientists applying genomics to any discipline. Applicants must have a compelling vision for the future of the field and demonstrable leadership potential.

For details of the position and to apply visit http://oregonstate.edu/jobs. Posting #0006779. Apply by March 1, 2011 for full consideration. Include a cover letter with a brief description of research and other relevant experience, a current CV, and contact information for three references. Contact Dan Arp, dan.j.arp@oregonstate.edu or 541-737-1297 with questions.

University of Illinois College of Medicine at Peoria

Associate Professor (Tenured)

The Department of Cancer Biology and Pharmacology at the University of Illinois College of Medicine at Peoria seeks qualified candidates for the position of Associate Professor (tenured). Candidates should have a Ph.D. and/or M.D. degree, a strong publication record, and be actively engaged in an established, extramurally funded laboratory program in the area of cancer/cellular biology or molecular genetic research. Preferred applicants will have experience in a cancer research field. Successful applicants should also have teaching/mentoring experience in directing students, postdoctoral fellows, residents and/or junior faculty in research. Department provides highly competitive salary, benefits and lucrative startup package. Additionally, a 20,000 square foot dedicated research building with state-of-the-art laboratories is targeted for completion in 2011. The Department has a strong collaborative research environment in which laboratory space, expertise and equipment are freely shared, and many additional collaborative opportunities in basic and clinical research are available within the University.

For full consideration, please respond by March 15, 2011 by submitting curriculum vitae and the names and addresses of three references to: https://jobs.uic.edu/default.cfm?page=job&jobID=5950.

The University of Illinois is an Affirmative Action/EQUAL Opportunity Employer.
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 Director, Office of Science Policy, Planning and Communications (OSPPC). Reporting to the NIMH Director and Deputy Director, the OSPPC Director has primary responsibility for the process of developing and implementing the Institute’s Strategic Plan. The OSPPC Director also is responsible for the effort to analyze and evaluate the Institute’s programs, for developing reports and responses to requests for information, crafting and interpreting policy, and ensuring that NIMH messages and findings are disseminated widely. The OSPPC Director reports to the Director, NIMH. Working closely with the Director and other senior leadership at NIMH, the OSPPC 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).

Applicants must have a Ph.D., M.D., or equivalent degree in the biomedical sciences, with broad research experience in one or more of the Institute’s research areas. In addition, experience and demonstrated ability in communications and public relations outreach, administration and management of a major research program, as well as broad familiarity and working knowledge of the relevant areas in the scope of the OSPPC is important. Applicants should be known and respected within their profession as distinguished individuals of outstanding 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: Chair, NIMH OSPPC Director Search Committee at NIMHsearch@mail.nih.gov or at 6001 Executive Blvd, Room 8235, MSC 8969 Bethesda, MD 20892-9669 (for express or courier delivery use Rockville, MD 20852). Review of applications will begin on January 31, 2011, 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.

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The National Institute of Environmental Health Sciences (NIEHS) of the National Institutes of Health is seeking exceptional candidates for the position of Scientific Director for its Division of Intramural Research (DIR). The Scientific Director sets the priorities of the intramural research program and advises the Director on the scientific direction of the NIEHS. The NIEHS supports and conducts research to understand biological and chemical processes and the contribution of environmental agents to human disease and dysfunction, including mechanisms of environmentally associated diseases (www.niehs.nih.gov). Areas of research include but are not limited to Molecular Pharmacology and Toxicology, Molecular Genetics, Structural Biology, Signal Transduction, Neurobiology, Molecular Carcinogenesis, Reproductive and Developmental Toxicology, Comparative Medicine, Epidemiology, Respiratory Biology, Biostatistics and Clinical Research.

For the complete advertisement, go to Careers and Training, Jobs at NIEHS at www.niehs.nih.gov or e-mail collinsonj@odi.nih.gov.

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The Bioinformatics Branch is seeking a Staff Scientist with a strong background in bioinformatics and a lively interest in methods and epidemiologic applications to participate in team-oriented research on a large study of clean-up workers exposed to petroleum products, chemicals and other environmental hazards following the BP/Deepwater Horizon oil spill in the Gulf of Mexico. The position is ideal for a person with proven experience in applications to environmental epidemiology and interest in working collaboratively to assess potential human health effects of this recent environmental disaster. The position offers opportunities for collaboration with other ongoing projects in biostatistics and epidemiology and for investigator-initiated methodology research related to inference in epidemiologic studies. For the complete advertisement, go to Careers and Training, Jobs at NIEHS at www.niehs.nih.gov.

For additional information concerning the position, contact the Bioinformatics Branch Chief, Dr. Clarice Weinberg, at weinber@niehs.nih.gov, or phone 919-541-4927. For information concerning biostatistics and epidemiology branch research projects and publications, see http://www.niehs.nih.gov/research/ats/neihs/abs/bb/index.cfm or www.niehs.nih.gov/epi.
Program Leader in Cancer Genetics and Genome Sciences

The Hollings Cancer Center and the Medical University of South Carolina (MUSC) are excited to announce an opening for a senior level faculty leader to develop and lead a new Program of Cancer Genetics and Genome Sciences. As Program leader this individual will have a significant leadership role in the Hollings Cancer Center, and also be expected to promote a campus wide genetics program, involving multiple other disciplines. Responsibilities will be provided for additional recruitment into newly constructed laboratory space. Candidates should have a national reputation in cancer genetics; a solid record of collaborative, peer-reviewed funded research; and evidence of leadership ability.

In 2009, The Hollings Cancer Center received designation by the National Cancer Institute; and with its state-of-the-art clinical; research; and shared resource facilities; including new research space to house the genetics faculty, it has a strong culture of promoting translational research. Charleston, South Carolina, located along the Atlantic coast, is a jewel of a city rich in history, culture and arts, and access to beaches and outdoor recreational opportunities. The region offers a superb, family-friendly quality of life.

Interested individuals should email their CV, a summary of future research plans, and three references to:

Dr. Andrew Kraft or Dr. Dennis Watson
Hollings Cancer Center
Medical University of South Carolina
MSC 250955
Charleston, SC 29425
campbetb@musc.edu

MUSC is an Equal Opportunity Employer;
promoting workplace diversity.

Facility Position(s) in Cancer Genetics and Genomics

The Hollings Cancer Center and The Medical University of South Carolina (MUSC) are excited to announce openings for junior to mid level faculty with a strong research focus on Cancer Genetics or Genomics. Candidates should have solid experience and training in cancer genetics or genomics, demonstrated ability to carry out translational and/or basic research, and a growing record of collaborative, peer-reviewed publications and research funding.

In 2009, The Hollings Cancer Center received designation by the National Cancer Institute; and with its state-of-the-art clinical; research; and shared resource facilities; including new research space to house the genetics facility, it has a strong culture of promoting translational research.

Charleston, South Carolina, located along the Atlantic coast, is a jewel of a city rich in history, culture and arts, and access to beaches and outdoor recreational opportunities. The region offers a superb, family-friendly quality of life.

Interested individuals should send their CV, a summary of future research plans and the name of three references to:

Dr. Andrew Kraft or Dr. Dennis Watson
Hollings Cancer Center
Medical University of South Carolina
PO Box 250955
Charleston, SC 29425
campbetb@musc.edu

MUSC is an Equal Opportunity Employer, promoting workplace diversity.

The Biological Sciences Department at California State University San Marcos is recruiting for two tenure-track positions: (1) An Assistant Professorship in Microbiology, and (2) An Assistant Professorship in Cell and Molecular Biology. Both positions begin in fall 2011 (contingent upon funding). Applicants must have a Ph.D. or equivalent degree in the biological/biochemical sciences with training and research in microbiology or cell and molecular biology. Post-doctoral research experience and some type of previous teaching experience are preferred.

Successful applicants will have a strong commitment to undergraduate education and a demonstrated ability or potential to effectively instruct undergraduate and graduate students. They will develop an externally funded, independent research program involving CSUSM undergraduate and Master’s students. Teaching duties may include: a lower-division cell/molecular biology course, upper-division courses in molecular biology, genetics, or microbiology, and advanced undergraduate/Master’s-level courses in the candidate’s area of expertise.

Review of applications for each position will start on February 15, 2011 and will continue until the position is filled. All applications must include the following: letter of application, curriculum vitae, statement of teaching philosophy, statement of research interests, reprints of three representative publications, and three letters of recommendation. Applicants should specifically indicate which position they are applying for and send both hard copy and electronic application materials to: Catalina Huggins, Department of Biological Sciences, California State University San Marcos, San Marcos, CA 92096-0001; E-mail: chuggins@csusm.edu. For further information, contact the Molecular Cell Biologist Search Chair Dr. Matthew Escobar (mescobar@csusm.edu) or the Microbiologist Search Chair Dr. Denise Garcia (dgarcia@csusm.edu).

CSUSM is an Affirmative Action/Equal Opportunity Employer strongly committed to equity and diversity, and seeks a broad spectrum of candidates in terms of race, sexual orientation and identity, gender, age, and disability or veteran’s status. The university is particularly interested in candidates who have experience working with students from diverse backgrounds and a demonstrated commitment to improving access to higher education for under-represented groups. CSUSM was recently named one of the Colleges most friendly to junior faculty by the Collaborative on Academic Careers in Higher Education.

DIVERSITY

TEMPLE UNIVERSITY SCHOOL OF MEDICINE offers opportunities for faculty in the following basic science disciplines:

- Bone/cartilage biology
- Cancer biology
- Cardiovascular biology
- Developmental biology
- Drug abuse and addiction
- Drug combination studies
- Gene therapy
- Growth regulation
- Immunobiology
- Molecular biology
- Molecular microbiology and pathogenesis
- Molecular pharmacology
- Musculoskeletal biology
- Neural plasticity and repair
- Neuroendocrinology
- Neuroimmunology
- Neuroimmunology
- Neuro-ontology
- Neurodegeneration
- Neuropharmacology
- Platelet biology
- Signal transduction
- Stem cell biology
- Structural biology
- Thrombosis and hemostasis
- Vascular biology
- Viral oncology

Positions may be available in any of several basic science departments and/or research programs and institutes.

The School of Medicine consists of 7 basic science and 18 clinical departments and a variety of multidisciplinary research programs and institutes. There are approximately 750 medical students, 135 graduate students, 450 full-time faculty members, and 1700 adjunct faculty members. It is affiliated with Temple University Health System, a major health care provider in the Delaware Valley.

To submit curriculum vitae or to request further information about a faculty position, please contact the Senior Associate Dean for Faculty Affairs, Temple University School of Medicine, 3500 North Broad Street, Room 1111K, Philadelphia, PA 19140.

Further information about Temple University School of Medicine is available at www.temple.edu/medicine

School of Medicine
TEMPLE UNIVERSITY

Temple University is an affirmative action/equal opportunity employer and strongly encourages applications from women and minorities.
Research Leader Tumor Immunology

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 Position
Roche Glycart AG, a 100% affiliate of Roche Pharmaceuticals, is active in the research, development of new engineered antibody-based products for the treatment of cancer and autoimmune disease. We offer a stimulating and truly international environment. Roche Glycart AG is located in Schlieren/Zurich.

Lead Scientific and Drug Discovery Projects focusing on the characterization and optimization of a new generation of engineered, antibody-based molecules for cancer immunotherapy.

• The position is based at the Oncology Discovery and Translational Area at Roche Glycart in Schlieren, Zurich and projects will be conducted in collaboration with additional groups at Roche Glycart, both in the Discovery and in Translational Medicine areas, as well as with additional Roche research and development functions globally and with academic institutions.

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.

• We are seeking candidates with a PhD in immunology and ample postdoctoral research experience in tumor immunology, with a strong tumor immunology scientific background and track record, being an active and recognized member of the international tumor immunology research community and having excellent written and verbal skills in English

• The candidate should have experience with animal work (mice) and be proficient with state-of-the art immunoprofiling techniques to characterize tumor infiltrating lymphocytes and antitumoral immune responses

• You have a high degree of self-motivation, flexibility and are able to independently conduct experiments. You are also inquisitive and strive for continuous process improvement. In addition you interact effectively with a truly multinational team of scientists.

Job ID No.: 367740
Contact HR: W. Kinzy, Phone: +41 61 687 94 03

The next step is yours. To apply online for this position visit www.careers.roche.ch

THE SCIENCE of POSSIBILITY

Vertex creates new possibilities in medicine to cure diseases and improve people’s lives.

We work with leading researchers, doctors, public health experts and other partners who share our vision for transforming the lives of people with serious diseases, their families and society.

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www.vrtxjobs.com
Villanova University’s College of Liberal Arts and Sciences invites applications for a Mendel Science Experience Post-doctoral Fellow (see www.villanova.edu/arts/college/facstaff/search.htm). The Fellows program is designed to enhance the College’s teaching of science to non-science majors through the Mendel Science Experience program and to foster the professional development of recent Ph.D. recipients on a career path leading to faculty positions. Positions are 50:50 teaching and research. Fellows will team teach a non-science-majors course with their faculty mentor as well as upper level undergraduate or graduate-level (M.S.) courses, will conduct research in collaboration with the faculty mentor, and will have opportunities to supervise undergraduate research. The position begins in August 2011.

Applicants should contact mentors (Dr. Robert Curry, Biology, www.homepage.villanova.edu/robert.curry/ or Dr. Anthony Lagalante, Chemistry; www3.villanova.edu/anthony.lagalante/) prior to submitting applications, as the applications must include information on the nature of the relationship between the mentor and post-doc.

Applications must include a curriculum vitae, official transcripts of all undergraduate and graduate work, and a cover letter that includes: a statement of career goals, a personal professional development plan, a proposal for teaching that indicates collaboration with the potential faculty mentor, a proposal for teaching that includes a Mendel Science Experience course for non-science-majors and an upper level course (possibly taught with the faculty mentor) for science, and names and contact information for three references. Applicants must apply online at https://jobs.villanova.edu. Review of applications will begin on 14 February 2011, the search will remain open until the position is filled.

Villanova is a Catholic university sponsored by the Augustinian order. An AA/EEO Employer, Villanova seeks a diverse faculty committed to scholarship, service, and especially teaching, who understand, respect, and can contribute to the University’s mission and values.

College of Pharmacy

Faculty Positions in Pharmaceutical and Biomedical Sciences

The Department of Pharmaceutical and Biomedical Sciences at the University of Georgia, Athens invites applications for two full-time, tenure-track faculty positions at the ASSISTANT PROFESSOR levels in the areas of Medicinal Chemistry or Biopharmaceutics (apply for position #65178) and Pharmacology/Physiology or Chemical Biology (apply for position #65179). Qualified candidates should possess a Ph.D. or Pharm.D./Ph.D. or equivalent degree with relevant training in the areas of emphasis as the focus of their graduate education and research training. Excellent communication skills and the ability to teach at the undergraduate, professional and Ph.D. levels are required. Each successful applicant is expected to have or to develop a dynamic, extramurally funded research program in an area identified above.

To be assured of full consideration, applications should be received by March 1, 2011. Interested qualified applicants should submit a letter of application, a curriculum vitae, a research plan and have three confidential letters of recommendation sent to: Chair, Search Committee, Department of Pharmaceutical and Biomedical Sciences, R. C. Wilson Pharmacy Building, University of Georgia, Athens, GA 30602-2352. Applicants may also apply on-line to: pbsearch@rx.uga.edu.

The University of Georgia is an Equal Opportunity/Affirmative Action Employer. Applications from qualified women and minority candidates are encouraged.
Faculty Positions
Department of Neurobiology

The Department of Neurobiology, established as part of the unprecedented research expansion at the University of Massachusetts Medical School, has assembled a group of outstanding faculty using invertebrate model systems to investigate the genetic and molecular mechanisms of brain function. This group is unique in that it crosses many boundaries in the use of invertebrate systems to study central and interrelated areas in neuroscience including learning and memory, neuronal plasticity, sensory transduction, glial cell biology and circadian rhythms. The Department of Neurobiology augments an already existing interdisciplinary Program in Neuroscience. The laboratories for the Department are housed on one floor of a new state-of-the-art, 340,000 square feet research building. We now solicit applications for additional tenure-track positions at all levels. We seek individuals of outstanding potential or demonstrated excellence who are using genetic model organisms including mouse, zebrafish, C. elegans, Drosophila, or less conventional invertebrate species (e.g., Apis mellifera and Tribolium castaneum), to study the nervous system. Specific areas of emphasis include, but are not limited to, cellular and molecular neuroscience, developmental neuroscience, brain physiology, and behavior. The positions are highly competitive with regard to startup funds, laboratory space, and salary. Rank will be commensurate with ability and experience.

Applicants should upload a cover letter, CV, research statement and publication list to https://academicjobsonline.org/ajo/jobs/638. To expedite the review process, applicants should invite three individuals who are familiar with your work and potential for success to upload their recommendation letters to https://academicjobsonline.org. Please refer any questions regarding the search to:

Dr. Marc Freeman
Chair of Faculty Search Committee
Associate Professor of Neurobiology/HHMI
University of Massachusetts Medical School
364 Plantation Street
Worcester, MA 01605-2324
marc.freeman@umassmed.edu

Visit Neurobiology at: http://www.umassmed.edu/neurobiology/

An Equal Opportunity/Affirmative Action Employer. Women and under-represented minorities are especially encouraged to apply.
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Opportunities Away From the Bench

Webinar

Want to learn more about exciting and rewarding careers outside of academic/industrial research? View a roundtable discussion that looks at the various career options open to scientists across different sectors and strategies you can use to pursue a nonresearch career.

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Participating Experts:
Dr. Lori Conlan
Director of Postdoc Services,
Office of Intramural Training and Education
National Institutes of Health

Pearl Freier
President
Cambridge BioPartners

Dr. Marion Müller
Director, DFG Office North America
Deutsche Forschungsgemeinschaft
(German Research Foundation)

Richard Weibl
Director, Center for Careers in Science and Technology
American Association for the Advancement of Science

Produced by the
Science/AAAS Business Office.
**WORKSHOPS**

The CEPH and the Centre National de Génotypage
in association with
the European Sequencing and Genotyping Infrastructure
are pleased to announce

**The 4th Paris Workshop on Genomic Epidemiology**

**Dates: May 30, 31 & June 1, 2011**

The Paris Workshops on Genomic Epidemiology are held every two years to introduce researchers to new methodologies that underpin large-scale genomic studies of diseases and other applications in the life sciences, particularly in the context of on-going research funded by the EU. The last two years have witnessed the emergence of powerful new sequencing methodologies with vast consequences for systems approaches in biology. The inclusion of these into epidemiological scale studies allows the rapid identification of biological markers underlying many diseases. This workshop will discuss progress in these and other technologies for biomolecular analysis, and their applications in research and clinical settings. Solutions will be presented for the accumulation, handling and interpretation of huge data sets, including the identification of rare and common genetic variants associated with disease, functional evaluation of genetic variation, understanding of gene networks and epigenomic phenomena in health and disease, pharmacogenomics, gene-gene and gene-environment interactions. Examples of the application of these technologies for epidemiological scale studies in different disease areas will be presented.

The 4th Paris Workshop inaugurates a major new EU initiative, The European Sequencing and Genotyping Infrastructure (ESGI). The ESGI groups major European genome centres into a single infrastructure designed to increase European access to the most recent genomic technologies. ESGI platforms and access modalities will be presented at the meeting.

**Confirmed speakers:** Gonçalo Abecasis (U. Michigan, USA), David Balding (U. College London, UK), David Bentley (illumina, USA) Alvis Brazma (EBI, UK), Anne-Cambon Thomsen (UMR Inserm, France), Bill Cookson (Imperial College London, UK), Ivo Gut (CNAG, Spain), Margret Hoehe (MPI-MG, Germany), Richard Houlston (ICR, UK), Norbert Hübner (MDC, Germany), Maneesh Jain (Life Technologies, Sweden), Achillefs Kapanidis (U. Oxford, UK), Peter Laird (U. Southern California, USA), William LaRochelle (Roche, USA), Liang Liming (Harvard, USA), Kerstin Lindblad-Toh (Broad, USA), Yukihide Momozawa (U. Liège, Belgium), Mats Nilsson (U. Uppsala, Sweden), Shaun Purcell (MGH, USA), Mark Ratain (U. Chicago, USA), Kathryn Roeder (Carnegie Mellon, USA), Sascha Sauer (MPI-MG, Germany), Daniel Schaid (Mayo Clinic, USA), Harold Swerdlow (Sanger, UK), Ann-Christer Syvänen (U. Uppsala, Sweden), Jenny Taylor (U. Oxford, UK), Mathias Uhlen (KTH, Sweden), Hubert Vidal (Inserm/Inra, France), Hugh Watkins (U. Oxford, UK), Dan Weeks (U. Pittsburgh, USA), John Whittaker (GSK, UK), Kurt Zatloukal (Med. U. Graz, Austria).

**Organisers:** Ivo Gut, Mark Lathrop, Sascha Sauer and Dan Weeks

**Sponsors:** CEPH, CNAG and European Commission FP7 projects: ESGI (Infrastructure), READNA, CAGEKID (large-scale collaborative projects)

Further information and registration: [http://www.cng.fr/workshop2011](http://www.cng.fr/workshop2011)

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**POSITIONS OPEN**

**ETH**

Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

**Professor of Computer-Aided Chemistry**

The Laboratory of Physical Chemistry of the Department of Chemistry and Applied Biosciences at ETH Zurich (www.chab.ethz.ch) invites applications for above mentioned position.

Research is done preferably in the area of modeling the behavior of (bio)chemical systems at the atomic, molecular, and supramolecular level on a physico-chemical basis. Strong methodological, algorithmic, and computational activities, including practical applications, are desirable. Collaboration with experimental groups at ETH as well as teaching in all areas of physical and computer-aided chemistry is encouraged. The new professor will be expected to teach undergraduate level courses (German or English) and graduate level courses (English).

Please address your application together with a curriculum vitae and a list of publications to the President of ETH Zurich, Prof. Dr. Ralph Eichler, no later than March 15, 2011. With a view towards increasing the number of female professors, ETH Zurich specifically encourages qualified female candidates to apply. In order to apply for this position, please visit: [www.facultyaffairs.ethz.ch](http://www.facultyaffairs.ethz.ch)


**FACULTY POSITION in Systems Biology**

The Center for Study of Biological Complexity (CSBC) at Virginia Commonwealth University (VCU, website: http://www.vcu.edu/csbc) invites applications for a full-time tenure-track position in Systems Biology. The appointment will be at the rank of ASSISTANT, ASSOCIATE, or PROFESSOR. Senior level applicants will have an established track record of research and extramural funding. We are looking for an innovative investigator with a strong research background in Systems Biology and/or Bioinformatics. Preference will be given to individuals applying next generation sequencing or other high throughput technologies and bioinformatics and computational tools to the study of microbial systems, although applications in all areas of systems biology will be considered.

The successful applicant will have a Ph.D. or the equivalent Doctoral degree and relevant experience. He or she will develop research programs in microbial genomics, pathogen-host interaction, and synthetic biology. He or she will take advantage of the CSBC’s recent investments in functional genomics, next generation sequencing, high performance computing, and related technologies. He or she will be expected to maintain a strong independent research program and to form new interactive and interdisciplinary projects in collaboration with the CSBC’s core facilities. Interested candidates should apply to: Dr. Jagjit S. Yadav, University of Cincinnati Medical Center, Cincinnati, OH 45267, USA. Telephone: 513-588-4806; e-mail: jagjit.yadav@uc.edu.

Virginia Commonwealth University is an Equal Opportunity/Affirmative Action Employer. Women, minorities and persons with disabilities are encouraged to apply.

**POSTDOCTORAL FELLOWS**

**Microbial Pathogenesis**

Two postdoctoral positions are available to study species of Mycobacterium and other bacterial pathogens for mechanisms of host-pathogen interaction using systems biology, immunology, and bacterial genetics approaches. Candidates should have a Ph.D. degree and experience in bacterial pathogenesis using modern -omics approaches and/or bacterial genetics. Salary will be commensurate with relevant skills. Interested candidates should apply to: Dr. Jagjit S. Yadav, University of Cincinnati Medical Center, Cincinnati, OH 45267, USA. Telephone: 513-588-4806; e-mail: jagjit.yadav@uc.edu.

The Department of Health Sciences in the College of Public Health at East Tennessee State University invites applications for an ASSISTANT PROFESSOR position. Job Summary: teaching undergraduate and graduate courses in Pharmacology I and II and upper division Human Anatomy. Knowledge, Skills, and Abilities: Previous teaching experience in Anatomy & Physiology I and II and Human Anatomy. Minimum Qualifications: Ph.D. in related field required. All applicants should submit curriculum vitae, cover letter, teaching philosophy and history (Teaching Philosophy), and a description of research interests and goals (Other Document) at the website: https://jobs.etsu.edu/applicants/Central?quickFind=51458. Affirmative Action/Equal Opportunity Employer.

**FACULTY POSITION in Cardiovascular Physiology**

The Penn State Heart and Vascular Institute is recruiting an outstanding scientist in any area of cardiovascular physiology, to have a tenure-track appointment in the Department of Cellular and Molecular Physiology at The Pennsylvania State University College of Medicine. Applications are encouraged from individuals at the ASSISTANT, ASSOCIATE, or FULL PROFESSOR rank. However, applicants should have a strong commitment to research as demonstrated by a strong extramural funding and publication record. Although all aspects of cardiovascular physiology are of interest, we encourage applicants with a background in vascular biology. A strong research program in vascular biology would significantly enhance the research mission of the Heart and Vascular Institute through synergistic interactions with existing research programs in diabetes/obesity, heart failure, hypertension, and peripheral vascular disease. The intention is to recruit an exceptional scientist who will interact with the existing cardiovascular community at the College of Medicine and Heart & Vascular Institute at Hershey Medical Center. Questions regarding the position can be directed to the Chair of the Search Committee (Dr. Sean D. Stocker, e-mail: sstocker@hmc.psu.edu) but applicants must submit curriculum vitae and brief statement of research plans to e-mail: cemphysiosearch@hmc.psu.edu. Penn State is committed to Affirmative Action/Equal Opportunity and the diversity of its workforce.

**FACULTY POSITION in Civil and Environmental Engineering**

**Duke University**

**Pratt School of Engineering**

The Department of Civil and Environmental Engineering at Duke University is seeking an extraordinarily qualified candidate for a target of opportunity hire. The thrusts of the Department include environmental nanotechnologies and fluid mechanics, hydroecology, hydrometeorology, and water resources, and sustainability. Candidates working on the areas pertaining to (i) interactions between the variability in the hydrological cycle and climate; (ii) the consequences of such interactions for water resources, energy, and ecosystems; and (iii) the development of novel engineering solutions for adapting to their effects on society are especially encouraged to apply. The position is open at all ranks. The successful candidate is expected to be involved in Duke’s broader efforts in water resources, hydrology, climate, ecology, and related interdisciplinary areas. Opportunities to collaborate in cross-disciplinary initiatives with the Center on Global Change, Center for Theoretical and Mathematical Sciences, Center for Nonlinear and Complex Systems, Duke Global Health Institute, the Nicholas Institute on Environmental Policy Solutions, the Nicholas School of the Environment, and the Sanford School of Public Policy are available. Qualified candidates must have a Ph.D. in engineering or related physical sciences. Letters of application (including names and contact information of at least three potential references, curriculum vitae, description of research and teaching interests as a single PDF file) should be submitted and attached electronically to e-mail: cee-faculty-search@duke.edu with subject ‘CEE hydrology search’. The application review process will commence on January 25, 2011, and will continue until the position is filled. Duke University is an Affirmative Action/Equal Opportunity Employer that is committed to increasing the diversity of its faculty.

**POSTDOCTORAL ASSOCIATE POSITION**

Department of Human Genetics

University of Pittsburgh

A Postdoctoral Associate position is available in the laboratory of Dr. M. Ilyas Kamboh for a qualified person with a Ph.D. and/or M.D. degree with training in genetic epidemiology/statistical genetics, including application of methods in genome-wide association studies, sequencing, and bioinformatics. Please send curriculum vitae and arrange to send three reference letters to e-mail: jnorbut@pitt.edu. University of Pittsburgh is an Equal Opportunity/Affirmative Action Employer.