As an important research- and teaching-oriented center of the Third Military Medical University and a National Key University in China, the College of Basic Medical Sciences (CBMS) is dedicated to pursuing research in the basic medical and life sciences, to developing new innovations in medical education, and to attracting and cultivating talent from around the world. After more than two decades of progress, CBMS is now among the top basic medical science colleges in China.

Yuzhang Wu
Director, CBMS

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This feature was produced by the Science/AAAS Custom Publishing Office and supported by CBMS. Materials that appear in this feature were commissioned, edited, and published by the Science/AAAS Custom Publishing Office and were not reviewed or assessed by Science’s Editorial staff.
Introducing CBMS: Leading Medical Research and Education for 20 Years

Chongqing, one of the four municipalities directly under the central government, is famous for three millennia of rich culture and history in the fertile valley in southwestern China and has a population of more than 30 million people. It is also home to the highly regarded Third Military Medical University (TMMU) and the College of Basic Medical Sciences (CBMS).

Over the past 20 years, CBMS has become known for its groundbreaking basic research and innovative medical education. Founded in 1992, CBMS has morphed from a simple teaching unit into a powerhouse of medical research and scientific training. In 2011, when Yuzhang Wu became the director of CBMS, the institution began another transformation, through which “research-based education” would become a cornerstone of the institution’s mission.

Growing Basic Research

Shortly after its foundation, CBMS received one of the first research grants awarded by the National Natural Science Foundation of China (NSFC). Since then, its researchers have secured more and more competitive research grants year after year. This year alone, CBMS has received nearly 40 million yuan (US$6.5 million) in funding from the central and local governments.

A significant portion of the funding growth is specific to immunology research, Wu’s area of expertise. CBMS’ Institute of Immunology is a designated State Key Discipline (SKD) and receives direct support from the central government. The institute also serves as the immunology command center for the People’s Liberation Army of China (PLA), providing strategic support and advice.

Other areas of research showing significant expansion include the Department of Anatomy and the Department of Histology and Embryology, which are both part of the Ministry of Education’s Cultivating State Key Discipline Program, aiming to develop more SKDs in top research centers throughout the country. Researchers in these departments study cutting-edge topics in developmental biology, such as brain cell development, vascular biology, and stem cells.

One aspect these departments all have in common is teamwork.

“Chinese culture stresses working in union toward a common goal,” explains Wu, who is leveraging this unique strength of Chinese researchers to stimulate networking, collaboration, and project coordination.

Already the institution’s collaborative efforts, combined with ample funding, have resulted in high-quality publications. “During 2012 alone, CBMS researchers published more than 100 papers in international journals and 15 papers in journals with an impact factor of five or higher,” explains Wu. “This is a gigantic leap in research output compared with 15 years ago, when CBMS researchers only published one immunology paper the entire year.” Patent applications have also risen rapidly since CBMS was granted its first patent in 2000, with nearly 20 applications under consideration in the first half of 2013.

Going forward, CBMS plans to develop a world-class faculty by recruiting young talent and by building interdisciplinary research projects with Chinese scientists and international partners. “Our goal in the future is to increase our research competitiveness—both within China and on the global stage,” says Ji Jian Zhang, associate director of research at CBMS.

Revolutionizing Education

A pivotal force of research competitiveness is the graduate students, and Wu has tasked the institution with providing a “research-based education.” Wu has implemented a number of programs to boost students’ research skills and critical thinking ability, including journal clubs and interdisciplinary co-mentorships.

CBMS is also introducing innovative teaching strategies into the rigid medical education system. “In addition to the textbook knowledge required for board exams, we encourage critical thinking from our undergraduate students,” says Wengang Xiao, associate director of education at CBMS. Wu and Xiao have introduced materials from scientific journals, rigorous debates and discussions, and presentation practices into the classroom. “We ask students to challenge authority, both teachers and textbooks, when it comes to science,” says Wu.

Also bringing in new ideas are the many young professors joining the faculty who have received their training overseas. “Ninety percent of the current faculty have either acquired their Ph.D. or done their postdoctoral research abroad,” says Wu. Moreover, there are currently 28 adjunct professors located internationally who regularly visit CBMS to teach and to advise on research directions.

Over the last 20 years, CBMS has developed into a respected, global medical research institution. With its state-of-the-art research facilities, internationally minded faculty, and revamped educational system, CBMS is poised to solve critical problems in medicine and become one of the top basic medicine and biomedicine research centers in China.
The director of CBMS has grand visions for the institute. As a trained immunologist and a pioneer of epitope-based rational vaccine design, Yuzhang Wu has had a successful research career. He is a winner of the National Outstanding Youth Science Fund and a designated Changjiang Scholar Distinguished Professor for the Chinese Ministry of Education, one of the most prestigious distinctions for Chinese scholars. When he became the director of CBMS in 2011, he immediately saw opportunities to make an impact in three areas: creating an internationally trained faculty, boosting translational research, and revamping pedagogical strategies.

Faculty Training

Previous to Wu’s leadership, CBMS faculty did not follow an international model for research and education. Therefore, Wu began recruiting young researchers from overseas who were “highly motivated and eager to embark on new research directions.” Wu explains that they “have recruited several junior investigators who have a strong work ethic as well as extensive international connections, which has been raising the level of education and research significantly.”

Because these new generations of faculty are still early in their careers, Wu has begun to coach them on how to think strategically and focus more broadly in their field. “Many of these talented young investigators have spent years studying a small part of a larger problem,” he explains. “They’re still learning how to navigate the big picture and how to strategically compete with others.” These skills are even more critical in China where research competition is fierce and pressure for fast success is high.

Interdisciplinary Collaboration and Translational Research

One advantage of CBMS being located in Chongqing is that the culture is known for friendliness and cooperation, which makes it easier for researchers to form collaborations and interdisciplinary projects. To further facilitate this, Wu has taken full advantage of the three large hospitals affiliated with CBMS and implemented a co-mentorship program and a “clinical-basic research salon.” He hopes these programs will facilitate strong translational-research collaborations between the faculty and the hospital’s clinical staff.

Eventually, Wu dreams of incorporating industry into these collaborations. “Integrating with industry will help us commercialize our research findings,” he says. “Although this has been more difficult than forming academic collaborations, we are getting there.” His goal is to reduce the reliance on central government funding and to build a clinically oriented biotechnology base in China.

Innovative Education Strategies

Ultimately, education is the key to producing top-notch researchers, clinicians, and biotechnology leaders, which is why Wu so strongly values education reform. Traditional medical education in China has failed to deliver translationally focused scientists and clinicians. Wu’s reform begins at the undergraduate level, with the goal of changing the focus of education from simple memorization toward critical thinking and understanding. Wu has already implemented a number of classroom strategies to help achieve this goal (see Innovation in Education, page 1268).

In his view, the gap between graduate training in China and in the West is even wider than that of undergraduate education. Many graduate students in China have simply become technicians who run repetitive experiments, rather than scientists in training. His graduate education reform aims to change this by implementing new strategies. Within the new paradigm, graduate students will be expected to independently identify important questions in their field of interest and then address these questions using logical reasoning and up-to-date information from the scientific literature rather than from textbooks.

Wu believes that a shortage of research-focused educators contributes to the lack of this type of education, highlighting the need for better teacher training to raise the standard of education. He encourages CBMS faculty to not only focus on writing scientific research papers but also to develop teaching strategies and publish their experiences in education-oriented journals.

In his first two years, Wu has made great strides in steering CBMS toward becoming an international center with a talented faculty, robust research output, and world-class scientific training. Already, CBMS has moved into a stronger position and is producing quality clinical research. Wu believes the institution’s future is bright, but that fully realizing his dreams will only be made possible by the diligent work of everyone at CBMS.
State Key Discipline: At the Front Line of Immunology

The Institute of Immunology at CBMS leads basic and applied immunology research for the armed forces of China; more importantly, it is designated a State Key Discipline (SKD) and is therefore eligible to receive direct government funding. Scientists at the institute focus on advancing cutting-edge topics—from understanding the mechanisms underlying early immune responses to developing new vaccines.

Understanding and Harnessing Immune System Responses

The body’s immune response is a complex process. The Institute of Immunology has brought together scientists with a broad range of backgrounds to investigate mechanistic questions about the immune system and to find ways of harnessing the body’s immune responses for clinical benefit.

After years spearheading the T cell vaccine development efforts at CBMS, Ying Wan, a principle investigator at the institute, has shifted his attention to dendritic cells and the role microRNAs play in immune response initiation. “We collaborate with research teams at Duke University and the University of California at Berkeley on these interesting topics, providing state-of-the-art research equipment,” says Wan.

Zhiren Zhang, associate head of the institute, began studying inflammation at the Universität Tübingen in Germany. He moved his lab to the Institute of Immunology in 2011 because the “funding situation is better right now at CBMS than in Germany,” explains Zhang. At the institute, his group investigates molecular targets for suppressing excess inflammation.

To fully understand how the immune system fights microbial infection, Wei Liu, principle investigator, uses X-ray crystallography to obtain detailed structural information of the key protein players in an effort to dissect the molecular mechanisms of innate immunity. Prior to joining the institute in 2011, Liu, who has a background in biochemistry, spent nearly a decade at the Karolinska Institute in Sweden studying structural biology.

Combating Disease

One of the most serious chronic infections in China is hepatitis B. “It is estimated that a third of the world’s chronic hepatitis B cases are in China,” says Guohong Deng, principle investigator, whose lab investigates how a patient’s genetic background affects the T cell response to the hepatitis B virus (HBV). Meanwhile, Guilian Xu, a principle investigator also studying virus-host genome interactions, works toward revising the conventional theory that the complement system only acts on innate immunity. Based on genetic evidence, she argues that the system also participates in adaptive immune responses, especially when certain viral infections, such as HBV, are present.

Epigenetic mechanisms also play a role in the immune response to HBV infection, and are the focus of Associate Head Bing Ni’s research. After Ni graduated from the Third Military Medical University, he attended the University of Toronto for his postdoctoral training; however, he decided to come back to CBMS because there are abundant resources for studying “the three most clinically important immunology problems: infection, cancer, and autoimmunity,” Ni explains. His research focuses on epigenetic changes, such as histone modifications, in regulatory T cells.

Understanding immune responses to other pathogens is important to many CBMS researchers. Principle Investigator Xinyuan Zhou, for example, investigates the mechanism of T cell memory using established infection models—lymphocytic choriomeningitis and Listeria infections. “We are looking at ways to enhance T cell memory for treating chronic infection,” says Zhou. Complementing Zhou’s work, another principle investigator, Yongwen Chen, who did his postdoctoral research at Sweden’s Karolinska Institute, is looking at the role of natural killer cells and macrophages in resolving chronic HBV infection.

Advancing Vaccine Development

Yuzhang Wu, director of CBMS and head of the Institute of Immunology, is a pioneer in epitope-based rational vaccine design—stimulating the desired immune response using synthesized peptides that present the “optimal” antigenicity. Under his leadership, the institute has attracted some of the best minds to research and has developed prophylactic and therapeutic vaccines for critical diseases in China.

One such researcher is Li Wang, associate head of the institute. She is looking for ways to modulate specific T cell responses to treat diseases and is “developing therapeutic vaccines for various cancers,” she explains. Wang is trying to attenuate autoreactive T cells in type 1 diabetes in the hopes of slowing down the destruction of insulin-producing cells in the pancreas.

Successful vaccine development also involves understanding how existing vaccines work. Lilin Ye, principle investigator and an expert on immunological responses to vaccines and viral infection, designs new and improved versions of old vaccines. His group’s latest work is focused on developing “mucosal vaccines and therapeutic antibodies against important diseases, such as hepatitis B and avian influenza,” Ye says.

As a well-funded SKD, the Institute of Immunology has enlisted an interdisciplinary team of talented scientists to begin unraveling how the immune system works and to develop ways to design the most effective therapeutics. Given the progress the institute has made thus far, many more avenues for developing vaccines and combating chronic diseases will surely emerge in the future.
Cultivating New State Key Disciplines: Modernizing Basic Medical Sciences

At TMMU, the faculty of CBMS is responsible for the university’s basic medical education, which begins with anatomy and histology lessons. However, CBMS educators go beyond textbook lessons and incorporate their own research into classroom learning. Some of the noteworthy projects being used for medical education at CBMS include the world’s second virtual human project, blood vessel engineering, and nervous system development research. As a result of this high-quality research, the Department of Anatomy and the Department of Histology and Embryology are poised to become the next State Key Disciplines at CBMS.

Chinese Virtual Human Project
CBMS is a leader in the creation of digital human atlases. In the late 1990s, Shaoxiang Zhang, vice president of TMMU and former director of CBMS, led the team of surgeons and computer scientists who developed the Chinese Virtual Human Project (CVHP).

“CVHP is the largest virtual human dataset in the world,” Zhang says. Although released a few years after the U.S. Virtual Human Project (VHP), CVHP has a number of notable advantages. CVHP was made using 0.1 mm slices, compared with the 1 mm slices used for VHP, Zhang explains, “making the CVHP data of much higher resolution.” Additionally, the imaging resolution of each slice is also higher than that of VHP.

“Right now, the utilization rate of CVHP is on par with that of VHP,” says Zhang. Virtual human databases are very useful for medical education, and CVHP is now being licensed by many medical schools in China and abroad. Moreover, the CVHP data is extremely valuable for education and applications in Asia, since there are a number of notable anatomical differences between the Chinese/Asian CVHP body and the Caucasian body used in VHP.

For future applications of CVHP, Zhang explains, they are looking at using the dataset in conjunction “with 3-D printing technology to create artificial human organs for transplantation.”

Blood Vessel Engineering
Anatomical and histological research at CBMS has also brought about innovative discoveries in blood vessel engineering. Dajun Ying, professor emeritus, has been studying blood vessels in the human head since the 1980s. His early work, as a graduate student at TMMU, focused on mapping the capillaries that feed the brain, head, and facial tissues. After moving into the field of biomechanics, he began working on the role of hemodynamics in endothelial cell biology and capillary physiology. Ying then began using molecular biology to understand the signal transduction pathways underlying the action of hemodynamic forces. Currently, he is involved in application-oriented projects such as stem cell-based tissue engineering.

Ying’s innovative attitude has inspired the next generation of scientists, including Chuhong Zhu, head of the Department of Anatomy. Continuing his work from a stint in the University of Minnesota, Zhu engineers artificial cardiovascular tissue using new biomaterials and stem cells. He is constructing tissue-engineered small-diameter blood vessels from captured endothelial progenitor cells in vivo, which enables endothelialization of tissue-engineered blood vessels. Zhu is committed to producing these blood vessels for clinical applications. He also investigates neural regulation of blood vessel physiology and development.

Neural Development
Developmental biology is also a strong focus at CBMS. Professor Emeritus Wenqing Cai was one of the pioneers who introduced immunohistochemistry methods to China in the 1980s. She has trained many scientists at CBMS who are now leaders in developmental biology.

One such person is Lan Xiao, head of the Department of Histology and Embryology, who studied development neurobiology and neuropathology as a postdoctoral fellow at the University of Saskatchewan, Canada. “We are especially interested in the development of oligodendrocytes, the myelin forming cells in the central nervous system,” says Xiao, “because we have found from animal models that oligodendroglia dysfunction or demyelination may be involved in the pathogenesis of psychiatric disorders like schizophrenia.”

Other researchers in the department are looking for therapeutic agents to correct neurodevelopmental defects. Xiaotang Fan, a principle investigator in the same department, is particularly interested in nuclear receptors as therapeutic targets. “The key to successfully applying developmental biology for therapeutic application in neurology is to pinpoint tissue and temporal specificities of potential therapeutic targets,” explains Fan, “because the time window for therapeutic intervention is quite narrow for neurodevelopmental defects.”

Taken together, these research projects have not only advanced the medical education at CBMS, but are also supporting the Department of Anatomy and the Department of Histology and Embryology in their quest to become State Key Disciplines.
A key objective of Director Yuzhang Wu’s vision for CBMS is to reform all levels of the educational system, including physician-scientist training. “Our goal is to train our brightest students to become physician-scientists who can identify important questions and critically investigate the answers,” says Wu. Below is a look at some of the current physician-scientist students’ experiences and accomplishments, which demonstrate how Wu’s plan is being implemented and is improving medical education.

Dali Zhang and Kaiyuan Zhang are both starting their senior year at TMMU. In an immunology course taught by Professor Li Wang last year, Dali Zhang was asked to design his own scientific experiments. He became so interested in the intellectual exercise that he asked if he could carry out the experiments in Wang’s lab over the summer break. Wang agreed to mentor the student’s project because “teaching and learning are mutually beneficial,” explains Wang. “I also gain new insights by discussing different papers’ experimental design and results with my students.” After finishing his summer project, Zhang is now considering either a basic research career or a clinically focused career after he graduates. “I am glad to have had the chance to learn both clinical and basic research skills here,” says Zhang. “In China, we have a unique opportunity to conduct translational research because we have access to a huge patient pool.”

His classmate Kaiyuan Zhang has been working in the lab for much longer, since his freshman year to be exact. Kaiyuan Zhang, who studies molecular neurophysiology with Jun Zhang, principle investigator in the Department of Physiology, cannot hide his passion and excitement when talking about his work on sleep biology and the neurotransmitter orexin. “I am inclined to pursue basic research after graduation because of the happiness it brings me,” says Zhang. “I enjoy using deductive logic and applying the latest techniques to solve important questions.” He is just one of many success stories in Wu’s undergraduate education reform.

Xiaoyun Shang just received his Ph.D. from CBMS this summer. He worked in Director Yuzhang Wu’s lab studying vaccine design. “The most important lesson I have learned here is critical thinking,” says Shang. “There is so much knowledge beyond the textbooks we used in college. I’ve learned the importance of identifying key questions and applying up-to-date technical know-how to answer these questions,” he says. He has accepted a postdoctoral fellowship in the United States, where he hopes to gain additional skills to advance his career in therapeutic cancer vaccine development.

Kaijun Liu is a second-year Ph.D. student in the lab of Shaoxiang Zhang, vice president of TMMU and the project leader for the Chinese Virtual Human Project (CVHP) (see page 1267). Liu also did his undergraduate work at TMMU and has worked in Zhang’s lab since 2005. “Back then, we did not have the innovative education platform put together recently by Director Wu, so there has been some trial and error in the process [of learning to be a critical-thinking scientist],” says Liu, who equates the transition from undergraduate research to studying for a Ph.D. to climbing a mountain. “You see the field more broadly and clearly as you climb,” says Liu, explaining that as he advanced toward completing the degree, he began to see the bigger picture questions in his field. In Zhang’s lab, Liu learned about computer reconstruction and image processing, but has recently become interested in immunology, and now wants to combine these different fields to create new ideas, such as creating a model of the lymph system using the CVHP dataset.

Overall, “the ultimate goal [of this education reform] is to break old habits, the inertia, and the short-sightedness of the traditional medical education,” says Professor Zhongxiang Yao, who has over 25 years of teaching experience. Fundamental changes in guidelines and evaluation systems are necessary to ensure that undergraduate and graduate students can develop a productive career, and CBMS is dedicated to hastening the reform and inspiring the next generation of scientists.
International Talents: Fostering a Global Reach

In recent years, many Chinese universities have significantly stepped up their efforts to bring their science to the international stage. CBMS is one such institution that has been implementing strategies to become more competitive in the global arena. In the last two to three years alone, CBMS has seen an uptick in bidirectional global connections, but staying competitive means being able to recruit a top-notch faculty both locally and abroad.

Helping achieve this talent recruitment goal is China’s “Go West” strategy, which has been encouraging economical, educational, scientific, and technological developments in the country’s western region and providing policy and funding support over the last decade. Given this increased focus on the West, Chongqing—the largest city in China—is poised to become a new center of international outreach.

Professor Xiaowei Chen, who graduated from CBMS several years ago and recently returned from his postdoctoral training at the Technische Universität München in Germany to be the head of the Brain Research Center, says the livability of Chongqing compared with that in major coastal cities allows him to “concentrate on doing science without worrying about money and housing.” This is important for Chen since he feels a strong emotional attachment to the institute and plans to build China’s first marmoset center for large-animal experiments right in Chongqing. Another example is Lilin Ye, a principle investigator who brought his research developing novel therapeutic vaccines to CBMS in 2012 from Emory University in Atlanta in the United States. He moved from the University of Southern California to open his own lab studying how complex information is processed in the brain. Zhou is particularly impressed by the leadership at CBMS and TMMU. "The director of the college works harder than us!" he says. "We can bring bureaucratic issues, such as difficulties navigating complicated procedures, directly to him," and he provides strong support to young investigators at TMMU, says Zhou. “Once he replied by e-mail after midnight, and my problem was resolved before the next day started,” he explains.

CBMS has also set specific recruitment goals to help strengthen its faculty. “We want [to recruit] junior-level talent who are not afraid of challenging the existing paradigms and exploring new theories,” explains Yuzhang Wu, director of CBMS, “rather than transplanting established research groups from overseas.” Wu hopes these free-thinking scientists will bring the scientific cultures from the countries where they were trained to China. Evidence of this can be found in many of the innovative teaching methods and evaluation systems CBMS has implemented in recent years, which have their roots in the places where CBMS researchers have been educated, such as Europe or the United States.

Scientists returning home to China don’t leave their professional lives behind. Maintaining connections and collaborations with scientists outside China is very important to CBMS researchers. “There are no real differences between being located in Chongqing and being in Beijing or Shanghai,” says Chen, “especially in the era of the Internet and frequent air travel.” He still communicates regularly with former colleagues in Munich about collaborative projects.

Another strategy for CBMS in acquiring top talent is recruiting domestically. Jun Zhang, a principle investigator in the Department of Physiology, who specializes in sensory-motor integration, moved from Nanjing University (800 miles east of Chongqing) to CBMS in 2011. Zhang says that “Chongqing, and the surrounding Sichuan region, has always been a resource-rich area in China, and this is also true in terms of scientific research support thanks to ample funding and talent from all over the world.”

More than 1,300 years ago, poets wrote about how quickly one could travel from Chongqing (the “White Emperor Castle”) to Nanjing via the Three Gorges and Yangtze River, in only one day. With today’s technology, the distance between Chongqing and other cities has become virtually nonexistent, making Chongqing a great location to conduct world-class research as well as stay connected to the global community.
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The Vaccine & Gene Therapy Institute of Florida (VGTI Florida) is recruiting outstanding immunologists to establish research laboratories in basic and translational cancer immunology. The important targeted areas of research include immune-based personalized therapeutics development, adoptive T cell therapies, antibody-based strategies, innovative immunity monitoring approaches and vaccine development. Priority will be given initially to established investigators with vigorous research programs investigating cancer vaccines, tumor microenvironment and cell-based immunotherapy. VGTI Florida is one of the internationally recognized research institutes invited to locate to Florida as part of a State-sponsored initiative to enhance biomedical research. Research at VGTI Florida focuses on human innate and adaptive immune response to infectious diseases and cancer.

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- HIV-1 and emerging viral pathogens
- Vaccine development and adjuvants
- Inflammation and diseases of aging

VGTI Florida occupies a new 100,000 sq. ft. state-of-the-art facility in Port St. Lucie, FL, located on the sunny Atlantic coast in a Biotech corridor just north of Palm Beach. Successful candidates (PhD and/or MD) will have a robust extramurally-funded research program and a strong publication record in one of the priority areas described above. The positions have highly competitive salary and startup packages, with access to cutting edge Genomics, Bioinformatics and Flow Cytometry core facilities as well as BSL3/ABSL3 containment facilities within the Institute. For more information, including a description of the Faculty and their research interests, please visit: www.vgtifl.org. Qualified candidates should submit their curriculum vitae, a 2-page description of their proposed research program and the names/contact information of three references by email to: Dr. Richard Jove, President and Director. The email address is search@vgtifl.org. Review of applications will commence immediately, and continue until the positions are filled.

VGTI Florida is an Equal Opportunity Institution committed to recruiting, hiring, and promoting qualified minorities, women, individuals with disabilities, and veterans.

Assistant Professor of Microbiology

The Department of Microbiology invites applications from Ph.D.-level scientists for a tenure-track position at the level of ASSISTANT PROFESSOR. The Department’s 15 faculty members and affiliated units at the University have broad research strengths in microbiology, immunology, immunity and host defense, microbial pathogenesis, virology, microbial physiology, genetics, genomics, environmental microbiology, and biotechnology. We are seeking outstanding candidates taking innovative molecular and cellular approaches to the study of Medical Microbiology. This area is broadly defined and would include the study of viral, prokaryotic and or eukaryotic and prionic pathogens. The successful candidate will have had at least three years postdoctoral experience and will have published several articles in high impact peer-reviewed journals. He/she will be expected to establish a strong, independent, extramurally funded research program and participate in the teaching of undergraduate and graduate courses.

Research facilities include new animal care and BSL III facilities, and competitive salary and start-up funds will be provided. Opportunities exist to establish strong collaborations with faculty in the Five College Area and at Baystate Medical Center.

Applicants should send a curriculum vitae, a statement of research and teaching interests, reprints of recent publications, and at least three letters of recommendation to: Chair of Microbiology Search Committee, 845589, Department of Microbiology, University of Massachusetts, N203 Morrill P3 North, Amherst, MA 01003, microbio-dep@microbio.umass.edu. Review of applications is ongoing, with those received by December 23, 2013, receiving priority consideration. Hiring is contingent upon the availability of funds.

The University of Massachusetts Amherst is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are encouraged to apply. The University seeks to increase the diversity of its professoriate, workforce and undergraduate and graduate student populations because broad diversity is critical to achieving the University’s mission of excellence in education, research, educational access and service in an increasingly diverse globalized society. Therefore, in holistically assessing many qualifications of each applicant of any race or gender we would factor favorably an individual’s record of conduct that includes students and colleagues with broadly diverse perspectives, experiences and backgrounds in educational, research or other work activities. Among other qualifications, we would also factor favorably experience overcoming or helping others overcome barriers to an academic career or degree.
Jawaharlal Nehru Science Fellowships

CALL FOR NOMINATIONS

The Department of Science and Technology has instituted Jawaharlal Nehru Science Fellowship, in order to promote cutting-edge scientific research in centres of excellence in India. Eminent scientist of any nationality desirous of carrying out research in Indian Institutions for a period of 12 months in a three year duration would be enabled by this Fellowship Scheme. Nominations of eminent scientists for the Award of Jawaharlal Nehru Science Fellowships are invited from Heads of Academic/Research Institutions, Presidents/Fellows of Science Academies and global leaders in science.

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The Fellowship would be availed for a duration of 12 months during a period of three years, from the date of offer of the Fellowship Award.

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- Value of the Fellowship is US$ 100,000 for a 12 months period.
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- The selected scientists could choose:
  - Their place of research anywhere in India.
  - Duration (total of 12 months spread over a period of up to three years).
  - Research theme for pursuing their research.
  - Research collaboration in India, if any.

25 Fellowships for the period 2014-17.

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The Host Institutions for the Jawaharlal Nehru Science Fellows would need to provide the necessary infrastructure, furnished housing and administrative support to the Fellow. The Department of Science and Technology (DST), Government of India, would provide Rs 1 million to the host institute to cover the expenses of such support.

METHODOLOGY FOR SELECTION

- Nominations for the Fellowship are solicited through an open call.
- A Search Committee will select and recommend suitable nominations to the Government of India.

HOW TO APPLY

The nominations for the Fellowship may be sent to Secretary, Department of Science and Technology, Technology Bhawan, New Mehrauli Road, New Delhi – 110016 through dstsec@nic.in (please mention "Attention SS Kohli, Director, DST" in the subject of the email). There is no prescribed format for nomination. The nomination letters should be accompanied by a recent and detailed CV of the nominee and expressed willingness to accept the Fellowship, if offered.

Since the Government of India wishes to initiate the Fellowship scheme by January, 2014, early nomination by December, 2013 are solicited. To see further details log on to www.dst.gov.in.
Positions for Post-Doctoral Fellows and Other Lab Personnel

The Texas A & M Institute for Regenerative Medicine is seeking Ph.D. level post-doctoral fellows and other lab personnel for research on adult stem/progenitor cells referred to as mesenchymal stem cells or multipotent mesenchymal cells (MSCs). The Institute is dedicated to research both on the basic biology of MSCs and the therapeutic products they produce. Current research includes development of new therapies for diseases of the eye, myocardial infarction, cancer, diabetes, stroke, epilepsy and traumatic brain injury. The Institute occupies newly renovated laboratories and a series of core laboratories equipped with state-of-the-art instrumentation. It also includes a newly renovated vivarium for small animal experiments. Post-doctoral appointments are contingent on funding and will be for one year with the opportunity to renew for a second and third year. Post-doctoral candidates should have excellent communication skills both verbally and written and a Ph.D. or M.D. degree from a well recognized university. Other lab personnel should have some laboratory experience, preferably with tissue culture instrumentation. It also includes a newly renovated vivarium for small animal experiments. Post-doctoral appointments are contingent on funding and will be for one year with the opportunity to renew for a second and third year. Post-doctoral candidates should have excellent communication skills both verbally and written and a Ph.D. or M.D. degree from a well recognized university. Other lab personnel should have some laboratory experience, preferably with tissue culture of mammalian cells. Salaries and benefits are competitive. Log onto our website at http://medicine.tamhsc.edu/irm/ to read more about our facility.

For requirements and duties of positions listed above as well as completing the application, please visit https://jobs.tamhsc.edu/. The posting number for Postdoctoral Research Associate NOV 14079, Research Assistant NOV 14080, Technician II NOV 14075 and Technician NOV 14081.

The Texas A&M Health Science Center is an AA/EO Employer.

JEFFERSON SCIENCE FOUNDATION

The National Academies is pleased to announce a call for nominations and applications for the 2014 Jefferson Science Fellows program. Initiated by the Secretary of State in 2003, this fellowship program engages the American academic science, technology, engineering and medical communities in the design and implementation of U.S. foreign policy.

Jefferson Science Fellows (JSF) spend one year at the U.S. Department of State or the U.S. Agency for International Development (USAID) for an on-site assignment in Washington, D.C. that may also involve extended stays at U.S. foreign embassies and/or missions.

The fellowship is open to tenured, or similarly ranked, academic scientists, engineers and physicians from U.S. institutions of higher learning. Nominees/applicants must hold U.S. citizenship and will be required to obtain a security clearance.

The deadline for 2014-2015 program year applications/ nominations is January 13, 2014. To learn more about the Jefferson Science Fellowship and to apply, visit the website at: www.nas.edu/jsf

THE NATIONAL ACADEMIES
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Purdue University

Two Faculty Positions in the Department of Botany and Plant Pathology

The Department of Botany and Plant Pathology is seeking applicants for two Assistant Professor tenure track faculty positions in Plant Biology. Both positions are academic year appointments. Successful candidates will be expected to develop internationally-recognized extramurally-funded research programs, interact with diverse faculty, staff and students across campus, demonstrate excellence in their teaching of graduate and/or undergraduate courses, and function as an active member of the department and university faculty.

1. Root/Rhizosphere Biology – closing date 12/15/2013 or until a suitable candidate is identified

Applicants for the Root/Rhizosphere Biology position will have a Ph.D. in the biological or computational sciences and postdoctoral research experience. A complete position description is available at https://ag.purdue.edu/btny/Pages/JobListings.aspx

2. Plant Growth Regulator/Hormone Biology – closing date 1/20/2014 or until a suitable candidate is identified

Applicants for the Plant Growth Regulator/Hormone Biology position will have a Ph.D. in biology, biochemistry, computational biology or a related field and at least two years of postdoctoral research experience and expertise in plant biology. A complete position description is available at https://ag.purdue.edu/btny/Pages/JobListings.aspx

Applicants should submit a letter of application outlining their research interests and describing their philosophical and conceptual approach to a research/teaching position at a land-grant university. Applicants should also include a complete resume and the contact information for three references. These materials should be sent electronically to mowp@purdue.edu. A background check will be required for employment in these positions.

Purdue University is an Equal Opportunity/Equal Access/Affirmative Action Employer fully committed to achieving a diverse workforce.
Princeton Environmental Institute (PEI) and the Department of Civil and Environmental Engineering (CEE) at Princeton University seek outstanding applications for a new faculty position in water science. The position is a tenure-track position at the rank of Assistant Professor, with a preferred start date of September 1, 2014. The successful candidate will have a PhD in an appropriate field and a proven record of innovation and creativity in conducting quantitative research addressing important and emerging topics within the broad scope of hydrological sciences. Areas of interest include: (1) water and climate, (2) water and energy, (3) water and environmental quality, (4) water and ecosystem integrity, and (5) water and food security.

In all cases, it is expected that the candidate would be able to immediately make meaningful contributions to the diverse, interdisciplinary environmental research and teaching mission of PEI and CEE’s Environmental Engineering and Water Resources Program (EEWR). PEI is the interdisciplinary center of environmental research, education, and outreach at Princeton University. PEI’s mission is to advance knowledge and to develop the next generation of leadership by providing outstanding academic programs and opportunities for advanced scholarship, research, and civic engagement. The goal of CEE’s EEWR program is to train outstanding engineers and scientists and to conduct advanced research in areas that are vital to national and international needs in the areas of environmental engineering and water resources. A successful candidate will be expected to complement existing strengths in the program, which include environmental problems in areas such as ecohydrology, land surface - atmosphere interactions including energy and moisture fluxes and their relationship to large-scale climate modeling, remote sensing of environmental variables such as soil moisture and rainfall intensity, carbon mitigation and climate change, subsurface flows & reactive transport, atmospheric dynamics and atmospheric chemistry, the urban environment, and biogeochemistry of contaminated waters.

Applicants should apply online at https://jobs.princeton.edu, requisition number 1300834; and should submit their CV, contact information for five references, and separate statements of research and teaching vision. The statements of research and teaching vision should include the candidate’s sense of the field and his or her vision for advancing in the context of such a position. Evaluation of applicants will begin on January 15, 2014 and continue until the position is filled. Inquiries regarding this position should be addressed to Prof. Kelly Caylor (kcaylor@princeton.edu).

Princeton is an Equal Opportunity Employer and complies with applicable equal opportunity and affirmative action regulations. We strongly encourage applications from underrepresented minorities, women, veterans, and those with disabilities.
The Johns Hopkins Department of Biomedical Engineering invites applications for a tenured or tenure-track faculty position. Hopkins BME has a long history of excellence in scientific discovery and teaching at the undergraduate and graduate levels. The priority research areas targeted by these search are systems biology and synthetic biology, but all outstanding candidates will be given consideration. Biomedical Engineering enjoys the position of a department in both the Johns Hopkins School of Medicine and the Whiting School of Engineering and members of our faculty have laboratories within both schools. There are ample opportunities for inter- and cross-departmental collaboration through a variety of research institutes, centers and informal research teams. The new faculty position will have a primary appointment in the Whiting School of Engineering. Successful applicants will be expected to establish independently funded research programs and participate in undergraduate and post-graduate education and research training.

Please submit via email a curriculum vitae, a research statement, a teaching statement, and the names and contact information of three references to Dr. Elliot McVeigh, Chairman, Department of Biomedical Engineering, bhmfacultysearch@jhu.edu. Applications received prior to January 1, 2014 will receive priority.

Washington University in St. Louis

School of Medicine

Faculty Positions in Molecular Biophysics

The Department of Biochemistry and Molecular Biophysics at Washington University School of Medicine invites applications for a tenured or tenure-track faculty position at the level of Assistant, Associate or Full Professor. Successful candidates will have established a strong record of research and be at the forefront of cutting-edge research in a broad range of topics including membrane proteins, molecular motors, nucleic acids, and protein folding. Strong candidates with a focus on fundamental mechanistic questions or human diseases are encouraged to apply. The candidate’s research should be aimed at addressing fundamental questions related to molecular mechanisms of biological or biomedical relevance. Current research in the department spans a wide range of topics including membrane proteins, molecular motors, nucleic acid/protein interactions, protein structure, enzymeology and signal transduction. Additional information about the department is available at http://www.biochem.wustl.edu. Washington University has a highly interactive research environment with vigorous interdisciplinary graduate and medical scientist training programs. Minority and women scientists are especially encouraged to apply.

Applicants should email their curriculum vitae and a brief description of their research interests to the Search Committee at bmbsearch@biochem.wustl.edu. Applicants should include contact information for three individuals who can write letters of recommendation. The committee will request letters as necessary. Completed applications will be reviewed on a rolling basis, starting immediately. For full consideration, applications should be received by February 1, 2014.

Washington University is an Equal Opportunity Employer. We are committed to the recruitment of candidates traditionally underrepresented on university faculties. Individuals of any race, ethnicity, gender or sexual orientation are encouraged to apply, as are disabled individuals and veterans. The School of Medicine at Washington University is committed to finding solutions to global health problems, including ones that affect minority and disadvantaged populations.
Research Opportunities in Luxembourg.
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Interested in doing scientific research at a high level in an international environment? Our research programme ATTRACT will allow you to set up your independent research team within a research institution in Luxembourg which will offer you attractive career opportunities. Funding up to EUR 2.5 million.

More information about ATTRACT and PEARL as well as the other funding opportunities offered by the National Research Fund Luxembourg can be found on the FNR’s website. Go and see what’s behind on www.fnr.lu/pearl and www.fnr.lu/attract
For an overview on research in Luxembourg, have a look at www.innovation.public.lu

CONFIRMED SPEAKERS INCLUDE:
Martin Ackermann, ETH ZURICH
Luke Alphey, OXITEC
Mary Berbee, UNIVERSITY OF BRITISH COLUMBIA
Nicole Dubs Müller, MAX PLANCK INSTITUTE FOR MARINE MICROBIOLOGY
Katrina Edwards, UNIVERSITY OF SOUTHERN CALIFORNIA
Michael Fischbach, UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
Phil McClean, NORTH DAKOTA STATE UNIVERSITY
June Medford, COLORADO STATE UNIVERSITY
Maria Mercedes Roca, ZAMORANO UNIVERSITY (HONDURAS)
Annalene Newitz, io9
Anne Osbourn, JOHN INNES CENTRE
Steve Quake, STANFORD UNIVERSITY
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Rytas Vilgalys, DUKE UNIVERSITY
Dan Voytas, UNIVERSITY OF MINNESOTA
Michael Wagner, UNIVERSITY OF VIENNA (AUSTRIA)

GENOMICS OF ENERGY AND ENVIRONMENT
Meeting
March 18 - 20, 2014
Walnut Creek, CA
Topics: Microbial genomics, fungal genomics, metagenomics, and plant genomics; genome editing, natural products, pathway engineering, synthetic biology, high-throughput functional genomics, and societal impact of technological advances. State-of-the-art presentations by invited speakers as well as short talks selected from poster abstracts. In addition, tutorials on genomic informatics, data management, and new genomic technologies.
The 9th Annual Genomics of Energy and Environment User Meeting is sponsored by:

Fonds National de la Recherche Luxembourg
INVESTIGATING FUTURE CHALLENGES

The National Institutes of Health (NIH), Department of Health and Human Services (DHHS), in Bethesda, Maryland, the world’s largest medical research facility, seeks applications from exceptional candidates for the position of Postdoctoral Fellow in the Cytokine Immunology and Immunology Section (CIIS) under the supervision of Dr. Thomas A. Waldmann in the Metabolism Branch (MB), Center for Cancer Research (CCR), National Cancer Institute (NCI). This individual will utilize genomic technologies to discover essential genes in T-cell leukemia/lymphoma, define synergies between drugs with the assistance of a high-throughput microarray screen, and perform biochemical studies to define the therapeutic mechanisms underlying drug synergies. Furthermore, the individual will evaluate therapeutic drug combinations directed toward novel molecular targets with the use of murine models of adult T-cell leukemia and Hodgkin’s lymphoma. There will be a special focus on inhibitors of the JAK/STAT pathways to exploit discovery by the CIIS of disorders of the common gamma cytokine, JAK1, JAK3 and STAT5 pathway in human T-cell lymphotropic virus-1 (HTLV-1) associated adult T-cell leukemia (ATL). Agents showing promise in these murine models may move forward into clinical trials.

Applicants should have completed an M.D. or Ph.D. and have a strong record of experience in molecular biology, immunology, oncology, pharmacology, biology or related fields. Interested candidates must have a strong background in molecular or cellular biology and have experience in the use of murine models. Salary is commensurate with research experience and accomplishments.

United States citizenship is not required. Please submit curriculum vitae and three letters of reference via email at: twald@helix.nih.gov or mail to: Thomas A. Waldmann, M.D., Chief, Metabolism Branch, National Cancer Institute, National Institutes of Health, 9000 Rockville Pike, Building 10, Room 4N115, Bethesda, Maryland 20892-1374.

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U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
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Reserve space by December 20, 2013
Ad materials due January 10, 2014
Rate: US$2,995
ASSISTANT PROFESSOR

Freshwater Ecologist

The Department of Biological Sciences at the University of Alabama invites applicants for a full-time (9-month) tenure-track faculty position at the Assistant Professor level. The successful applicant will establish an extramurally funded and internationally recognized research program in freshwater ecology. Preference will be given to applicants with a background in state-of-the-art, quantitative methods serving studies of freshwater ecosystems such as those related to, but not restricted to, food-webs, ecosystem energy and nutrient fluxes, metabolic theory, climate change, ecohydrology and macrosystems ecology. We define ecosystem studies broadly and encourage applications from individuals with a demonstrated record of integrating population- and community-level research with ecosystem perspectives.

The University of Alabama (UA) is near the geographic center of the Mobile River drainage, a true hot-spot for global freshwater biodiversity. Successful candidates will be encouraged to leverage this unique resource to support an innovative research program, and to forge collaborations with the new NOAA National Water Center, which will open on the UA campus in 2014, and the diverse faculty at UA and Dauphin Island Sea Lab with interests in freshwater ecology. Aquatic mesocosm facilities are available near the UA campus at the Tanglewood Biological Station. Teaching responsibilities will include basic undergraduate courses in biology, as well as specialized undergraduate and graduate courses in the successful candidate’s area of expertise.

Applicants must have a Ph.D., postdoctoral training, and demonstrated research productivity. Queries regarding additional details should be addressed to the chair of the search committee: Dr. Alexander D. Huryn at huryn@bama.ua.edu.

To apply, go to https://facultyjobs.ua.edu, complete the online application (Job # 0808674), and upload (1) an application letter with a list of three to five references (including contact information); (2) CV; (3) statement of research interests and goals; and (4) statement of teaching interests and philosophy. Consideration of applications will begin January 15, 2014, and will continue until the position is filled. Prior to hiring, the final candidate will be required to pass a pre-employment background investigation. The anticipated start date is August 16, 2014.

Additional information about the Department of Biological Sciences and this available position can be found on our website at http://bssc.ua.edu.

The University of Alabama is an Equal Opportunity/Equal Access Employer and actively seeks diversity among its employees.

2013 Shenzhen University Oversea Recruitment

Shenzhen University (SZU) was founded as a public university in 1983 with the accreditation of the State Council of the People’s Republic of China. There are many famous scholars in SZU. Currently, there are 1,500 teachers on campus and about 60% of them have obtained Phd. Now, SZU has 2 Academicians of Chinese Academy of Sciences, 3 Academicians of Chinese Academy of Engineering, 2 members of “1000-Talents Scheme”, 6 scholars who have won awards from the National Science Foundation for Distinguished Young Scholars, 4 scholars who have won awards from the “Chang Jiang Scholars Program”, 3 members of New Century Millions of Talents Project at national level and 3 chief scientists in the National 973 Academic Program. SZU, thirsty for talents, warmly welcomes numerous outstanding elites to join us as distinguished professors, associated professors or lecturers.

A. Distinguished professor
1) Eligibility: Candidates of the national “1000-Talents Scheme”, “1000-Young Talents Scheme”, “Outstanding Youth”, “Chang Jiang Scholars Program” and “100-Talents Scheme” of the CAS, professors or associated professors from overseas famous universities and outstanding scholars having fundamental academic influence.
2) Remuneration: It is yearly payroll for a distinguished professor, about RMB500,000-1,200,000. SZU will provide support in scientific research expenses and laboratory construction fee for a distinguished professor as well as constructing his academic research team. Especially, Shenzhen local government will give scientific research expenses of RMB2,000,000 – 5,000,000 to a candidate who study such subjects as science, engineering and medicine and are eligible for the Peacock Program or Shenzhen High-Level Talent Program.

B. Professor, associated professor, lecturer and Liyuan Scholar Plan
(1) Professor, associated professor and lecturer
SZU warmly welcome oversea scholars who have achieved a Phd degree or have experiences of post-doctoral research and are competent for our positions of professor, associated professor and lecturer. Excellent candidates will be engaged as professors or associated professors directly by SZU according to their academic achievements.
Remuneration: the minimum annual salary is RMB310,000 for a professor, RMB250,000 for an associated professor and RMB180,000 for a lecturer.
Any professor, associated professor and lecturer could apply for Liyuan Scholar Plan, Peacock Program or Shenzhen High-Level Talents Program. If any person achieved any of the above plans, he could apply to Shenzhen Government for different subsidies by relevant plan.

(2) Liyuan Scholar Plan
Any teacher could apply for this plan. There are three levels for this plan, such as “Liyuan Leading Scholar”, “Liyuan Outstanding Scholar” and “Liyuan Excellent Youth” respectively.
1) Three-level scholars: Liyuan leading scholar will be awarded to full-time teachers as a top-leader in his academic area. Liyuan outstanding scholar will be awarded to full-time teachers, aged under 45 and having 3 years’ working experiences. Liyuan excellent youth will be awarded to young scholars aged under 35 who had gotten Phd and had one year’s academic research experience in relevant research institutions.
2) Award standards: SZU will provide a living allowance for Liyuan leading scholars in 5 years, including two levels, RMB500,000 per year. At the first level and RMB150,000 per year at the second. SZU will give a living allowance to Liyuan outstanding scholars in 3 years, RMB1100,000 per year. SZU will give a living allowance to Liyuan excellent youth in 9 years at the most, RMB1100,000 per year.

C. Shenzhen Oversea High Level Talents Policy
1) Candidates: oversea experts or oversea scholars. There are three levels for this plan, Level A, B and C respectively.
2) Remuneration: candidates will receive an award of RMB850,000-1,500,000. Candidates whose research program is in such subjects as science, engineering and medicine respectively could enjoy scientific research expenses from RMB200,000 to 5,000,000. Talents at Level A could apply for scientific research expenses of more than RMB50,000,000.

Contact Us
For more information, please visit http://www.szu.edu.cn. If you’re interested, please send your CV and relevant materials to any of the following email addresses:
Miss Liyun liyun@szu.edu.cn, 0086-755-26536111
Miss Gaoying gaoying@szu.edu.cn, 0086-755-26535295
Mr. Renqiang szursc@sina.cn, 0086-755-26535295
BIOMOLECULAR NMR SPECTROSCOPY Position at the University of Minnesota

The Department of Biochemistry, Molecular Biology & Biophysics at the University of Minnesota invites applications with a Ph.D. or M.D. degree in Biochemistry, Chemistry, or related fields to apply for a tenure-track/tenured position at the ASSISTANT, ASSOCIATE, or FULL PROFESSOR level. The successful candidate is expected to develop a creative and vibrant research program in Structural Biology and Biophysics in association with the Minnesota NMR Center (website: http://www.nmr.umn.edu/). The Center consists of several high-field spectrometers including a 900, 850, two 700, and two 600 MHz spectrometers equipped with cryogenic probes. In addition, two solid NMR spectrometers are equipped with MAS and static NMR probes.

Preference will be given to scientists focusing on structural analysis of biomacromolecules relevant to any area of cellular biophysics and applications are encouraged from investigators studying human physiology or pathology, signaling systems or membrane proteins. Candidates must be able to teach undergraduate and graduate level Biophysical Chemistry and Biochemistry courses.

Applicants must apply online at website: employment.umn.edu. Click on Search Postings, and enter 187414 into the requisition number field. Applicants should attach a cover letter, curriculum vitae, and a detailed description of the proposed research. Review of complete applications will begin immediately and continue until the position is filled. More information concerning the Department and this position can be found at website: http://www1.umn.edu/nmr. The University of Minnesota provides equal access to and opportunity in its programs, facilities, and employment without regard to race, color, creed, religion, national origin, gender, age, marital status, disability, public assistance status, veteran status, sexual orientation, gender identity, or expression. The University supports the work-life balance of its faculty and especially encourages applications from women and members of underrepresented groups.

The Illinois Natural History Survey (INHS) is soliciting applications for a two-year POSTDOCTORAL RESEARCH ASSOCIATE. Scientists whose research interests fit within those of the Illinois Natural History Survey are encouraged to apply. A salary of $42,000 per year with benefits is provided, as well as a $5,000/year research stipend. Applicants should submit curriculum vitae and Research Proposal. The Research Proposal is limited to three pages, not including references, and should address the research plan proposed for the two-year postdoctoral position. In advance of the application deadline, applicants must identify and contact a research sponsor at the INHS (website: http://www.inhs.illinois.edu/opportunities/postdoc-sponsors/list/who is willing to host the Postdoctoral Associate. Preference will be given to applicants who can develop a strong research plan that merits additional and continued external funding. Research plans that build on existing INHS research strengths by adding new directions or new analytical techniques are encouraged.

Applicants should have completed a Ph.D. by the start date of the position (expected before December 31, 2014) and within the last five years. In addition to the Research Proposal and curriculum vitae, applicants should arrange for two letters of recommendation to be sent. Applications must be sent electronically to e-mail: hroffice@inhs.illinois.edu by January 31, 2014.

BIOENGINEERING TENURE-TRACK PROFESSOR

The School of Engineering at UC Merced invites applications from distinguished scholars for a position at the either the ASSISTANT (tenure-track) or ASSOCIATE/FULL (tenured) level in Bioengineering at the newest University of California campus in Merced, California. The research emphasis is in areas such as renewable biofuels, and includes: biological modeling, biosensors, tissue engineering, and preclinical biomedical imaging. To apply or for more information, please visit our website: http://jobs.ucmerced.edu/n/academic/position.jsf? positionId=4996.