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The globalization of universities and science in Southern China

Universities in southern China are taking the lead in an array of reforms aimed at making academic centers and scientific collaboration more international and more dynamic. Leaders of universities across southern Guangdong Province are expanding award schemes designed to recruit researchers and scientists who have obtained advanced degrees or taught in the United States or Europe. These measures are increasing openings for scholars trained abroad, and are helping globalization of university faculties and joint scientific research. In the process, China is strengthening its position as a world power in science. By Kevin Holden

As the new millennium unfolds, reform-minded leaders of Chinese universities and academies, and of independent scientific institutes, are all pushing for research discoveries and applications that will bolster China’s rise in diverse spheres of science.

These leaders—many of whom have received advanced degrees in the United States or Europe—likewise support making collegial and scientific collaboration more international and dynamic.

This trend is gaining momentum in southern China’s Guangdong Province and is creating new openings for scientists trained abroad.

For centuries, coastal Guangdong has been China’s main portal for contact with the West—everyone from Italian astronomers to British tea traders ended their seafaring passage from Europe at one of the province’s harbors—and the region is moving to expand these intercontinental connections.

Capped on one side by the South China Sea and by mountains to the north, Guangdong features the palm-tree-lined megacities of Guangzhou and Shenzhen along the Pearl River Delta, one of the planet’s most densely populated regions.

Zhuhai, a smaller seaside outpost opposite the former Portuguese colony of Macau, hosts China’s biggest science and technology exhibition every 2 years. Daya Bay, a boating resort in eastern Guangdong, holds a massive nuclear power complex.

On the island of Hainan, just off Guangdong’s coast, China is constructing its most technologically advanced spaceflight center—the first spaceflight complex to be open to international visitors.

Although Guangzhou, the provincial capital, has been the academic center of southern China for hundreds of years, Shenzhen—a sleepy checkerboard of coastal villages when the People’s Republic was founded nearly 6 decades ago—is now experiencing a construction boom in terms of new colleges.

Guangdong’s simultaneous moves to expand universities and to attract scholars worldwide to conduct research or teach at these academic centers are rapidly boosting progress across a spectrum of scientific areas.

Guangzhou is now a key center of south China for hundreds of years, Shenzhen—a sleepy checkerboard of coastal villages when the People’s Republic was founded nearly 6 decades ago—is now experiencing a construction boom in terms of new colleges.

Guangdong’s simultaneous moves to expand universities and to attract scholars worldwide to conduct research or teach at these academic centers are rapidly boosting progress across a spectrum of scientific areas.

Guangzhou’s universities are magnets for scholars trained abroad

In Guangzhou, which has been an export powerhouse in terms of manufactured goods since the launch of China’s market-oriented reforms more than three decades ago, academic leaders are ramping up campaigns to “import” scholars who can help shape the transition to a knowledge-based economy.

At Guangzhou’s Sun Yat-sen University, President Luo Jun is using an assortment of talent schemes, along with perks like access to one of the world’s fastest supercomputers, to attract scientists worldwide to the university’s School of Advanced Computing, School of Engineering, and School of Life Sciences.

The university was founded by Sun Yat-sen, the Hawaiian-educated leader of the 1911 revolution that toppled 2,000 years of imperial rule and gave birth to the Republic of China. Sun, a medical scholar who became the first president of the new republic, envisioned a rejuvenated China guided by “science and democracy,” and he promoted ever-closer ties with the West.

These days, the university he created is transforming itself into an international center for the life sciences and engineering, partly by forging partnerships with American schools: Sun Yat-sen University has teamed up with Johns Hopkins University to create the Medical Research Center for Clinical and Translational Research, and with Carnegie Mellon University to launch the Joint Institute of Engineering.

The university recently received international attention after a group of 16 scientists based at the Key Laboratory of Gene Engineering published the results of a controversial experiment in which they genetically modified single-cell human embryos to repair the human β-globin (HBB) gene in a procedure aimed at preventing a serious blood disorder (www.sciencemag.org/content/348/6234/486.full).

Some scholars argue that the Chinese scientists have crossed an ethical line by editing the human genome, but others welcome China’s comparatively liberal regulation of this area of experimentation, which allows genetics researchers to push the scientific envelope.

Meanwhile, Sun Yat-sen University and other academic centers across Guangdong are competing...
“Over 95% of the current faculty members are Chinese scholars returning from abroad.”

— Chen Shiyi

South University of Science and Technology

“South University of Science and Technology of China is also making a huge effort to increase the level of globalization by recruiting more high-quality non-Chinese professors and international students to its campus,” Chen says.

Many new academic centers launched across China, he adds, are becoming testing grounds for reforms aimed at connecting universities and students through a global network of partnerships.

At South University, which has woven a web of collaboration with 18 world-leading universities, Chen says, “The goal is to provide the opportunity for every student to take part in an international exchange.”

A new Chinese-Danish college in Guangdong

South University is also co-founding a new college in a unique union with the University of Copenhagen in Denmark and with Shenzhen-based BGI, one of the world’s leading genome research institutes.

The new BGI Genomic College will recruit scientists and students globally, says Wang Jun, executive director of BGI.

Wang says the experimental structure of the new college, in contrast with China’s traditional universities, will foster innovation across the life sciences, and will feature cutting-edge research in medicine, biology, genomics, and bioinformatics.

BGI—which is part research institute and part genomics applications developer—has already launched satellite research groups in Europe and the United States and aims to move its talent from city to city, continent to continent, to promote scholarly collaboration.

This worldwide rotation of talent will allow scientists to understand different cultures and approaches to research.

BGI was set up as an independent research institute in 1999 in order to represent Chinese scientists in the Human Genome Project (www.genome.org/10001772), and recently signed an agreement with the Bill and Melinda Gates Foundation to collaborate on genetics studies tied to global health and agricultural breakthroughs envisioned as part of the United Nations Millennium Development Goals (www.un.org/millenniumgoals).

The leaders of BGI, which was founded in the Chinese capital, say they opted to move the institute’s headquarters to Shenzhen due to the city’s openness to international trends and thinking.

Shenzhen was a sparsely populated region of rice paddies with a tightly guarded, barbed-wire border with British-ruled Hong Kong during the isolationist rule of Chairman Mao Ze-dong. It was transformed into China’s first “special economic zone,” aimed at integrating the country into the global market, after Mao’s successors began jettisoning the chairman’s most radical policies.

Shenzhen, now one of the globe’s fastest-growing cities, is also seeking ever-closer economic, academic, and cultural ties with post-colonial Hong Kong.

And as Shenzhen adopts components of Hong Kong’s capitalist-model economy and open, international education system, it has begun competing with the former British outpost to build China’s biggest stock market, attract biotech startups, and recruit leading scientists.

South China’s global collaboration in visual computing

The Shenzhen Institutes of Advanced Technology, part of the Chinese Academy of Sciences, have tapped...
2015 FALL MEETINGS

Molecular Basis of Aging and Disease / September 14-18
Adam Armitage, Jing-Dong Jackie Han, Brian Kennedy, Jan Vlij
Abstract Deadline: June 26

Tumor Immunology and Immunotherapy / September 21-25
Xuetao Cao, Olivera J. Finn, Shimon Sakaguchi, Laurence Zitvogel
Abstract Deadline: July 3

Mitochondria / October 12-16
Xiaodong Wang, Andrew Dillin, Paolo Bernardi
Abstract Deadline: July 24

CSHA/ISSCR Joint Meeting – Stem Cells: from Basic Biology to Disease Therapy / October 19-22
Hengkui Deng, Andrew Elenbaas, Gordon Keller, Duanqing Pei, Kathrin Plath
Abstract Deadline: July 31

Biological Rhythms / October 26-30
Carla Green, Michael Hastings, Joseph Takahashi, Hiroki Ueda, Han Wang
Abstract Deadline: August 7

Bacterial Infection and Host Defense / November 2-6
Kanya Honda, Sam Miller, Craig Roy, Feng Shao, Jörg Vogel
Abstract Deadline: August 14

Targeting Cell Death Mechanisms for the Treatment of Human Diseases / November 9-13
Junying Yuan, Jiahua Han, Douglas Green, Dormago Vucic
Abstract Deadline: August 21

Development and Pathophysiology of Respiratory Systems / November 16-20
Paul Noble, Min Wu, Nan Shain Zhang
Abstract Deadline: August 28

CSHA/AACR Joint Meeting - Big Data, Computation and Systems Biology in Cancer / December 1-5
Andrea Califano, William C. Hahn, Satoshi Miyano, Xuegong Zhang
Abstract deadline September 11

New Advances in Optical Imaging of Live Cells and Organisms / December 7-11
Guoqiang Bi, Wenbing Gao, Arthur Konnerth, Akihiko Kusumi
Abstract Deadline: September 18

For the most updated information, please visit our website at www.csh-asia.org
Jinan University is the first overseas Chinese university founded by the government in China, and the key comprehensive “211 Project” university under the Overseas Chinese Affairs Office of the State Council. It has 15 post-doctoral research stations, 4 national key disciplines, 8 key disciplines of the Overseas Chinese Affairs Office of the State Council, 20 Guangdong Province Level-I key disciplines, and 4 Guangdong Province Level-II key disciplines. There are four campuses of Jinan University located in three cities, Guangzhou, Shenzhen and Zuhai, covering a total area of 1,461,300m².

The Institute of Photonics Technology of Jinan University is founded in 2009. It specializes in research into fundamental research and development in the fields of advanced photonic devices, fiber sensor techniques, high-speed optical communications, microwave photonics and micro-nanophotonics. The institute has an excellent research team consisting of the winner of “National Science Fund for Distinguished Young Scholars”, the Recruitment Program of Global Youth Experts, the New Century Excellent Talents and so on. Open research positions for lecturers and postdoctoral researchers are available now.

I. Requirement
1. Lecturers: having the Ph.D in the domestic or overseas high-level university, or research institutes, with excellent academic records. We encourage applications from candidates with backgrounds in microwave photonics, optical communication and fiber sensor technology. Candidates with oversea study and work experience are highly desirable.
2. Postdoctoral researchers: having the Ph.D in the domestic or overseas university, or research institutes. A strong expertise in optical communication, fiber sensing, microwave photonics, Bio-photonics, polymer photonics, micro-nano photonics, and being under the age of 35, are required.

II. Salary and benefits
Refer to the relevant documents of the university on the talent introduction, and the specific is negotiable. For the postdoctoral researchers, an annual salary for each successful applicant is valued at RMB130,000 (before tax). During the postdoctoral period, an extra RMB 50,000, RMB 30,000 and RMB 30,000 bonus will be rewarded for each success winner of the National Science fund, the provincial and ministerial fund, or each SCI indexed 1-level publication, respectively.

III. Application procedures
Applications including a full CV and photocopies of published academic papers should be sent to Prof. Guan (head of our institute) by E-mail: tguanbo@jnu.edu.cn.

Contact information
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The Soochow University Institutes for Translational Medicine (SU-ITM) is a new research establishment with a mission to accelerate the advancement in strategies for patient care and healthy improvement through bridging strong university-wide foundation in basic research with clinicians, patients and pharmaceutical industry. SU-ITM strives for its excellence in translating discoveries from basic research in immunology, stem cells and cancer into prophylactically and therapeutically novel strategies and new products by soliciting expertise in various research enterprises across all campuses of Soochow University and affiliated hospitals. Through developing close ties with Suzhou Industrial Park, Suzhou municipal government, Jiangsu provincial government and the Yangtze River Delta region, SU-ITM is anticipated to contribute to the social need and prosperity rising locally and nationally. SU-ITM will focus on unmet medical needs of autoimmune, metabolic and degenerative disorders, and cancers. Excellent research platforms have been established for the SU-ITM mission in precision medicine, strategies of stem cell and regenerative medicine, immunological therapies, and novel diagnostic techniques. SU-ITM seeks outstanding scholars to fill academic positions at different levels to strengthen the research programs in cancer, immunology, stem cell biology, and drug discovery with strong emphasis on translational research. Qualified applicants should have a doctoral degree (Ph.D., M.D./Ph.D., or an equivalent) and received minimally 3 years of post-doctoral training. A good publication record is required. SU-ITM offers generous start-up funding, newly renovated laboratory space and state-of-the-art research equipment and facilities. SU-ITM has an outstanding research environment including adjacent Suzhou Cold Spring Harbor meeting facility, excellent opportunities to collaborate with colleagues at Soochow University and affiliated hospitals as well as other institutes in nearby Shanghai metropolitan (25 min by train). Excellent recruitment package including relocation fees, competitive stipend and social benefits will be offered. Soochow University is highly experienced in assisting application for national scholar programs such as Thousand Talents Program and Young Thousand Talents Program.

Interested applicants should forward their curriculum vitae, a statement of research proposal, 3-5 exemplary publications, and 2-3 recommendation letters to Dr. Yufang Shi, the Dean of Soochow University Institutes for Translational Medicine (shiyufang2@gmail.com) or Dr. Bingxue Shang (bingxueshang@suda.edu.cn), Soochow University Institutes for Translational Medicine, Soochow University, 199 Ren Ai Road, Suzhou Industrial Park, Suzhou 215123, China.

1. Disciplines Required
Those to be recruited should major in one of the following disciplines: Mechanical Engineering, Material Science & Engineering, Electrical Engineering, Controlling Science & Engineering, Information & Communication Engineering, Textile Science & Engineering, Costume Design & Engineering, Business Administration, Management Science & Engineering, Design Art, Computer Science & Technology, Finance Engineering, English Language & Literature, PE Sociology, Civil Engineering and Architecture.

2. Recruiting Posts
2.1 Innovation Teams (full-time or flexible-time)
AHPU is of great interest to recruit these excellent innovation teams which have already gained some significant achievements in fields related to AHPU’s disciplines. The teams are expected to manifest remarkable potential of innovation with significant breakthrough in related core technologies.

2.2 Leading Academics (full-time or flexible-time)
Leading academics include: members of Chinese Academy of Science, members of Chinese Academy of Engineering; academicians or research teams of internationally renowned academic institutes; heads of 863 Projects; winners of Top 1000 National Talents Program; the National Science Fund for Distinguished Young Scholars, or the National Famous Teachers Award; the Yangtze Scholars; Professors or the like in renowned universities or institutes overseas; nominees of National Hundred, Thousand & Ten Thousand Talents Project.

2.3 Specially-appointed professors (full-time or flexible-time)
The said professors are those with a doctoral degree conferred by renowned universities overseas, doctors of renowned universities overseas, or professors in 985 or 211 Project universities, or researchers in the Institutes under Chinese Academy of Science.

2.4 Specially-associate appointed professors (full-time or flexible-time)
The said professors are those with a doctoral degree conferred by renowned universities overseas, doctors of renowned universities overseas, or associate professors in 985 or 211 Project universities with a doctoral degree.

3. Salary and Allowance
Those who are enrolled by AHPU will be provided with 500,000 to 2,000,000 RMB for house purchase, 150,000 to 500,000 RMB for accommodation, and 2,000,000 to 10,000,000 RMB as research funding. All these privileges are offered depending on the enrollee’s previous academic achievements, and spouses will be assigned to appropriate posts according to their national backgrounds. The salary and allowance for innovation teams can be negotiated.

4. Recruiting Procedures and Contact Information
4.1 Recruiting procedures
Applicants should email their application forms to the email box of the Personnel Office and those of corresponding colleges (please see the column of “Personnel Recruitment”). The email subject should be in the format of “Global Talent + Applicant’s Name – University – Discipline – Title (Doctor; Professor or Team in a specific field).”

4.2 Contact information
This recruitment information is permissible effective.

Look forward to your joining AHPU!

Contact Person: WANG Zhong-jiang, WANG Ji-long
Contact Department: Personnel Office, Personnel Department, Anhui Polytechnic University
Contact Telephone: +86 0553 2871214
Contact Email: 2006ncs@sina.com
Website: www.ahpu.edu.cn
Young 1000 Talents Global Recruitment Program  
South University of Science and Technology  
Shenzhen, China  
http://www.sustc.edu.cn

The South University of Science and Technology in Shenzhen, China (SUSTC) is seeking outstanding candidates for the “Young 1000 Talents Global Recruitment Program” sponsored by the Central Government of China. Applications are invited for all major scientific and engineering disciplines. Successful applicants will be appointed to the faculty of SUSTC at a level commensurate with each applicant’s background and experience, from assistant, or associate to full professor. SUSTC offers a generous salary and startup package for “Young 1000 Talents Program” recipients, including: a) starting salaries from 350,000 to 600,000 RMB for appointments at different ranks; b) a living subsidy of up to 1.75 million RMB over 3-5 years; c) a start-up fund of up to 9.5 million RMB; d) two fully paid research assistants; and e) housing accommodation in an on-campus apartment of 100-150 m².

Applicants should have a Ph.D. degree in a relevant science and engineering field and three years or more of post-doctoral research or work experience. Applicants must have a proven track record of high-quality scientific publications. They must also have excellent communications skills and are capable of teaching classes in English. Those interested are invited to apply through the job website at http://talent.sustc.edu.cn/en/enindex.aspx. For additional information, please contact: Ms. Jing Long, phone: +86-755-88010968; email: 1000plan@sustc.edu.cn, talents@sustc.edu.cn.

SUSTC was founded in 2011 in the southern city of Shenzhen, the epicenter of China’s economic miracle and ingenuity over the past 35 years. Situated on a tranquil and picturesque campus of rolling hills and wandering creeks, SUSTC is widely known as a pioneer for higher education reform and innovation in China. With an outstanding faculty trained globally, SUSTC is making great strides toward its goal of building a world-class institution of higher education and cutting-edge research with broad societal impacts. The successful candidates will have great opportunities to contribute to the advancement of science and technology in an increasingly global economy.
The Chinese Academy of Sciences has similarly attracted Western scientists who are co-powering progress in such fields as “electric vehicles, integrated circuits, pharmaceutical development, and computer science.”

— Hui Huang

**Featured Participants**

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Kevin Holden, a writer based on the east coast of China and the west coast of the United States, covers advances in science and technology across the Pacific Rim.

DOI: 10.1126/science.opms.r1500155

**Nuclear reactors and neutrino experiments at Daya Bay**

Due east along Guangdong’s coastline, one of the region’s most sophisticated technological projects, the Daya Bay Nuclear Power Complex, is also the stage for a cutting-edge experiment in high-energy physics: measuring the proportion of electron antineutrinos from the nuclear reactors that morph into other types, or generations, of these leptons as they speed through space.

Ghost-like particles that were first created in the instant following the Big Bang, antineutrinos and their partner neutrinos travel at close to the speed of light and are notoriously difficult to observe as they move through space, passing through planets, star systems, and galaxies with scant interactions with other forms of matter.

But Daya Bay’s nuclear reactors produce billions of trillions of electron antineutrinos every second, emitted by neutrons during a process called “beta decay,” and scientists have finally been able to measure their metamorphosis as they pass through a series of detectors positioned outside the reactors.

Physicists from south China’s Shenzhen University, Dongguan University of Technology, the Chinese University of Hong Kong, and the University of Hong Kong, along with counterparts from the Lawrence Berkeley National Laboratory in California, are all part of the Daya Bay collaboration measuring this antineutrino transformation with increasing precision.

Many of the Chinese researchers leading the Daya Bay experiment have been trained in the United States or Europe, and the Chinese Academy of Sciences is now searching for international experts in particle physics to work on similar experiments in the future.

Kam-Biu Luk, a professor of physics at the University of California, Berkeley and a visiting professor at the University of Hong Kong, heads the United States’ participation in the China-based neutrino experiment. The Daya Bay project, which is being co-led by China and the United States, “is one of the most productive experiments in particle physics [being] carried out by an international collaboration,” he says.

The success of Daya Bay “has captured the attention of the international community of particle physics,” adds Luk.

Chinese breakthroughs in understanding these fundamental particles, like its progress in human spaceflight, Luk says, “demonstrate the capability and potential of China in science and technology, which are on the rise.”

“With the steady decline in supporting basic science in the Western world,” Luk predicts, “China could well be the future Mecca for particle physics.”

“Change is happening so fast,” Deussen notes, “that individuals and systems can hardly follow.”

Hui Huang, the Canadian-educated director of the Visual Computing Center, says the Chinese Academy of Sciences has similarly attracted Western scientists who are co-powering progress in such fields as “electric vehicles, integrated circuits, pharmaceutical development, and computer science.”

These scholars, she adds, are helping transform southern China into a globally linked hub for new frontiers of research in science and technology.

The Chinese Academy of Sciences has similarly attracted Western scientists who are co-powering progress in such fields as “electric vehicles, integrated circuits, pharmaceutical development, and computer science.”

— Hui Huang

the national Thousand Talents program to attract a circle of scholars including German computer scientist Oliver Deussen into the new Visual Computing Research Center. Deussen, one of the world’s leading experts on modeling three-dimensional urban scenes, architecture, natural objects, and biological processes, has developed a sophisticated series of software packages to render these subjects in videos, computer graphics, or animations.

Based at Germany’s University of Konstanz and recently nominated for an American Academy Award for scientific achievement, Deussen is now working with his Chinese colleagues at the visual computing outpost on everything from transforming human models into animation characters to creating abstract renderings of architectural works or even entire city sectors.

“In my area of visual computing, which includes computer graphics, image analysis, and data visualization, the Chinese Academy of Sciences [has been] able to gather top international scientists,” Deussen says. A new research group that combines these international scientists with their Chinese colleagues is already making significant contributions to the field of visual computing, he adds.

One of the primary challenges facing researchers in southern China, he says, is government pressure to make internationally recognized advances in their field at hyper-speed.

Kevin Holden, a writer based on the east coast of China and the west coast of the United States, covers advances in science and technology across the Pacific Rim.
**Director of Clinical Cancer Genetics**

Roswell Park Cancer Institute, an NCI-Comprehensive Cancer Center in Buffalo, NY, invites applications for the position of Director of Clinical Cancer Genetics. Candidates are sought with M.D., M.D./Ph.D. or Ph.D. degrees at the Associate or Full Professor level. The successful applicant will work in a leadership position with our Center for Personalized Medicine in the use of genetic sequencing and epigenetic data to guide clinical treatment, to identify at-risk populations and to define genetic biomarkers in clinical trials that will be part of the new Clinical and Translational Science Center. Ideal candidates will have a proven track-record in funded research programs involving clinical genomic- and epigenomic-based approaches such as next-gen sequencing to identify and characterize cancer-related driver mutations, genes, expression signatures and/or genetic components relating to cancer initiation, progression and/or treatment response. Applicants will be highly collaborative, eager to develop “team science” and involved in translational projects with applications to clinical samples, thereby strengthening the mission of the Comprehensive Cancer Center Genetics Program, the Center for Personalized Medicine and the Institute.

America’s first cancer center founded in 1898 by Dr. Roswell Park, the mission of the Roswell Park Cancer Institute is to provide total care to cancer patients, conduct research into the cause, treatment, and prevention of cancer, and to educate the public and the next generation of researchers who study and treat cancer. Over its long history, Roswell Park Cancer Institute has made fundamental contributions to reducing the cancer burden and has successfully maintained an exemplary leadership role in setting the national standards for cancer care, research and education. The campus spans 25 acres in downtown Buffalo and consists of 15 buildings with about 1.6 million square feet of space. A new hospital building, completed in 1998, houses a comprehensive diagnostic and treatment center. In addition, the Institute built a new medical research complex and renovated existing education and research space to support its future growth and expansion.

Applicants for this position must have a distinguished record of scientific achievement, demonstrated leadership skills, a productive research program recognized at the national and international level, and a commitment to education and mentorship of students and faculty. Please submit a CV, a letter of interest addressing research, educational, administrative and leadership goals and vision, and contact information on three referees to Irwin H. Gelman, Ph.D., John and Santa Palisano Chair of Cancer Genetics, Roswell Park Cancer Institute, Elm & Carlton Streets, Buffalo, NY 14263, care of Amy Troutman at amy.troutman@roswellpark.org.

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Vice President for Princeton Plasma Physics Laboratory
Princeton University seeks nominations and applications for the position of Vice President (VP) for the Princeton Plasma Physics Laboratory (PPPL). Princeton University manages and operates PPPL under contract with the U.S. Department of Energy (DOE), and funding for the Laboratory comes primarily from the Office of Fusion Energy Sciences within the DOE Office of Science. As one of the 10 National Laboratories owned by the DOE Office of Science, PPPL employs a staff of approximately 450 to conduct a leading program in fusion energy research and plasma science, funded at approximately $90M per year.

Reporting to the Provost, the Vice President (VP) is responsible for representing the university’s interests with respect to the contract, including all aspects of oversight, financial and contractual issues, relations with the DOE, and other matters associated with the management and operation of the laboratory. The VP oversees the performance of PPPL in science, operations and strategic planning, and serves on the PPPL Management Group Board of Directors, the entity of Princeton University having corporate responsibility for the laboratory. The VP, the PPPL Director (who reports to the VP) and the DOE Site manager work together to ensure a transparent and effective Contractor Assurance System. An important additional responsibility is to identify and support opportunities for collaborative research and other activities between PPPL and the main campus. The VP also represents Princeton University on relevant associations, such as the Brookhaven Science Associates Board of Directors, and the Council of Presidents of Universities Research Association.

Princeton is seeking a candidate with a proven record of scientific or technical accomplishment and success in leading and managing complex scientific programs or organizations. Prior experience with and understanding of the operations and expectations of the DOE are highly desirable. Ability to communicate effectively with staff, researchers, and government officials is essential. The responsibilities of the Vice President for PPPL constitute approximately 50% of a full-time position.

Applications should be submitted to http://jobs.princeton.edu

Nominations may be sent to:
Pablo G. Debenedetti, Dean for Research
91 Prospect Avenue
Princeton University
Princeton, NJ 08540
dfr@princeton.edu

To receive full consideration, nominations and applications should be received by July 31, 2015.

Princeton University is an Equal Opportunity Employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability status, protected veteran status, or any other characteristic protected by law.

Two Faculty Positions in Evolutionary Genomics
The Department of Biology at Texas A&M University invites applications for two tenure-track Assistant Professor positions in evolutionary genomics, starting in the fall of 2016.

We will consider candidates pursuing innovative research in any area of evolutionary genomics, including empirical, theoretical or computational approaches applied to any taxonomic group. The criteria for selection will be uniqueness, creativity and excellence in research and scholarship. We require all candidates to have a Ph.D. and strongly encourage applications from candidates who will increase the exposure of our students to a diverse culture. Successful candidates will be expected to develop externally funded research programs and to teach undergraduate and graduate courses. The Department of Biology (www.biology.tamu.edu) is part of an interactive and collegial research environment, offering a modern infrastructure and competitive startup packages. The broader Texas A&M research community includes a number of exciting interdepartmental programs, such as the new Ecology and Evolutionary Biology Doctoral Program (ecb.tamu.edu), the Texas A&M Institute for Genome Sciences and Society (genomics.tamu.edu), and the Genetics Interdisciplinary Graduate Program (genetics.tamu.edu).

Applicants should email a letter of intent, curriculum vitae, statements of research and teaching interests, and should arrange to have three letters of recommendation sent to evossearch@bio.tamu.edu. Review of applications will begin September 1, 2015. Questions regarding this search should be directed to Dr. Adam G. Jones, chair of the search committee, at evossearch@bio.tamu.edu.

Texas A&M University is an Equal Opportunity/Affirmative Action Employer that is dedicated to the goal of building a culturally diverse and pluralistic faculty and staff who are committed to teaching and working in a multicultural environment. We strongly encourage applications from women, minorities, veterans, individuals with disabilities, and the LGBTQ community. In addition, the University is responsive to the needs of dual career couples.
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Faculty Positions at the Indian Institute of Science Education and Research Bhopal

The Indian Institute of Science Education and Research (IISER) Bhopal (www.iiserb.ac.in) offers various degree programmes in Biological Sciences, Chemistry, Earth and Environmental Sciences, Engineering Sciences, Mathematics, and Physics.

IISER Bhopal (www.iiserb.ac.in) seeks candidates for faculty positions at all levels in the Departments of Engineering Sciences & Earth and Environmental Sciences. The Institute is also looking for Post-Doctoral Fellows in the above departments.

Areas
- Engineering Sciences (www.iiserb.ac.in/engr): Various areas of Engineering Sciences including but not limited to Computer Science, Electronics and Communication, Material Science, and Electrical, Chemical, and Mechanical Engineering.
- Earth and Environmental Sciences (EES) (www.iiserb.ac.in/ees): Various areas of EES including but not limited to Geochemistry (Stable and Radioactive), Atmospheric Sciences (Dynamics and Chemistry), Structural Geology, Sedimentology, Geophysics, Paleontology, Soil and Water Sciences, Oceanography, Remote Sensing and GIS.

Eligibility criteria, recruitment procedure, pay/perks, and a format of the application form are accessible online via http://www.iiserb.ac.in/ofa

Applicants residing in India should send hard copies of the applications in the prescribed format to:

Dr. Ramya Sunder Raman
Head, Department of Earth and Environmental Sciences & Head, Engineering Sciences
IISER Bhopal, Bhopal Bypass Road, Bhauri, Bhopal 462 066, Madhya Pradesh, INDIA
Email: hod_ees@iiser.ac.in; hod_engr@iiserb.ac.in
Phone: +91 755 6692 369

Applicants residing abroad may submit their application via e-mail to hod_engr@iiserb.ac.in or hod_ees@iiserb.ac.in, as the case may be, with a copy to dofa@iiserb.ac.in

Asian School of the Environment, National Univ. of Singapore, Singapore

Young and research-intensive, Nanyang Technological University (NTU Singapore) is the fastest-rising university in the world’s Top 50 and ranked 39th globally. NTU is also placed 1st amongst the world’s best young universities.

Four Faculty Positions

The Asian School of the Environment (ASE) at NTU Singapore seeks to hire faculty for four professor-level positions (rank commensurate with experience) as part of a terrestrial and marine initiative in Southeast Asia. ASE, a new interdisciplinary School, focuses on Asian environmental challenges integrating Earth systems, environmental life sciences, ecology, and the social sciences to address key issues of the environment and sustainability. Strong interdisciplinary links between ASE and the Singapore Centre on Environmental Life Sciences Engineering (SCELSE), the Earth Observatory of Singapore (EOS) and the Complexity Institute provide an excellent community for tackling large, cutting-edge research questions. Successful candidates will also contribute to development and execution of new undergraduate programmes.

1. Aquatic Chemistry (open professor rank)

We seek a creative and cutting edge aquatic chemist who focuses on environmental sustainability of natural systems and who has an interest in addressing research questions in Southeast Asia. Research interests may include but are not limited to, natural and anthropogenic contaminants of fresh water systems, nutrient cycling and the carbon cycle, redox chemistry using tools such as stable isotopes and water sediment interactions amongst other areas.

2. Environmental Organic Chemistry (open professor rank)

We seek a creative and cutting edge marine chemist focusing on environmental sustainability of natural systems and who has an interest in addressing research questions in Southeast Asia. Research interests may include but are not limited to, organic contaminant fate and transport, synthesis and processing of organic molecules in the environment, stable isotope techniques to evaluate the sources, sinks and cycling of organic matter in aquatic or marine environments.

3. Environmental Microbiology (open professor rank)

We seek a creative and cutting edge microbiologist exploring microbial diversity and activity in natural systems and their implications on ecosystem functions and services. The successful applicant should have a clearly defined interest in addressing research questions in Southeast Asia. Research interests may include but are not limited to, microbial physiology, environmental virology, bacterial genetics and diversity, microbial-host interactions using tools such as genomics and metagenomics amongst other areas.

4. Biogeochemistry (open professor rank)

We seek a creative and cutting edge biogeochemist investigating biological, chemical and geological processes on socially relevant time-scales in wetlands, rivers, soils or oceans. The successful applicant should have a clearly defined interest in addressing research questions in Southeast Asia. Research interests may include but are not limited to, global carbon and nutrient cycling, ocean-atmosphere interactions, and microbial or organic biogeochemistry amongst other areas.

The candidates are expected to:
- Establish a world-class research programme
- Play a leading role in the formation of the new Asian School of the Environment
- Enhance the new School’s visibility as an international leader in education and research in Environmental Earth System Science
- Teach undergraduate and graduate classes in Environmental Earth System Sciences
- Actively collaborate with NTU faculty and researchers with existing strengths in Earth Systems Science and Environmental Life Sciences

Applications, including the applicant’s experience/philosophy of research, teaching, a CV, and contact information for two professional references should be sent to Chairman, Search Committee, NTU at ASE-EnvSc@ntu.edu.sg.

Review of applications will begin in August 2015 and will continue until the positions are filled. NTU offers highly competitive salaries and on-campus housing. A start-up package will be available. NTU is an equal opportunity employer.

More information can be found at:
- www.ae.ntu.edu.sg
- www.eosobservatory.sg
- www.scelse.sg
- www.complexity.ntu.edu