CHEMISTRY FACULTY POSITION
Drug Discovery Department

Moffitt Cancer Center, an NCI-designated Comprehensive Cancer Center, is seeking applications to join the faculty of the Drug Discovery Department at the ASSISTANT, ASSOCIATE, or FULL PROFESSOR/Member level. Structure-based drug design and focused combinatorial chemistry library approaches are strongly supported by current and developing research infrastructure. Moffitt Cancer Center has outstanding core laboratory facilities and services available including: NMR and mass spectrometry, synthetic and parallel chemistry, structural biology, molecular modeling, high throughput screening, proteomics, and genomics shared facilities. The chemistry laboratories are newly renovated, providing a state-of-the-art environment for synthetic and medicinal chemistry research programs.

Synthetic organic chemists looking for strong collaborations with faculty in cancer biology, targeted therapeutic, tumor metabolism, imaging, tumor virology, and/or immunology are encouraged to apply. Successful candidates must possess a Ph.D. in synthetic organic chemistry or related areas with preferred experience in molecular recognition and/or bioorganic/synthetic/medicinal chemistry. Experience in the design of small molecules that disrupt protein-protein interactions and/or that target non-coding RNAs is desirable but not required.

Candidates for the rank of Assistant Professor/Member must have at least two years postdoctoral experience. Candidates for the rank of Associate Professor/Member must have a proven track record of independent federal funding and research and at least four years experience at the Assistant Professor or equivalent level. Candidates for Full Professor/Senior Member must have a proven track record of independent research and a national/international reputation in their field and at least five years experience at the Associate Professor or equivalent level. Academic rank and salary will be commensurate with experience and qualifications. The Moffitt Comprehensive Cancer Center is affiliated with the University of South Florida and secondary University appointments are available.

Qualified applicants should send curriculum vitae, a synopsis of current and future research programs, and the names and addresses of three or more references to: Dr. Said Sebti, Professor and Chair, Drug Discovery Department, Moffitt Cancer Center, 12902 Magnolia Drive, MRC-DRDIS, Tampa, FL, 33612. Electronic documents (in PDF format) are preferred and should be sent to e-mail: said.sebti@moffitt.org. The selection committee will begin reviewing applications July 1, 2014.

To apply, visit our website: http://www.MOFFITT.org/Careers. REQ: 11928 Moffitt Cancer Center provides a tobacco-free work environment. It is an Equal Opportunity/Affirmative Action Employer and a drug free workplace.

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Contact the Admissions Office, telephone: 800-824-5526 at the New England College of Optometry, 434 Beacon Street, Boston, MA 02115. Additional information at website: http://www.neco.edu or e-mail: admissions@neco.edu.
An Explosion of Bioinformatics Careers

Big data is everywhere, and its influence and practical omnipresence across multiple industries will just continue to grow. For life scientists with expertise and an interest in bioinformatics, computer science, statistics, and related skill sets, the job outlook couldn’t be rosier. Big pharma, biotech, and software companies are clamoring to hire professionals with experience in bioinformatics and the identification, compilation, analysis, and visualization of huge amounts of biological and health care information. With the rapid development of new tools to make sense of life science research and outcomes, spurred by innovative research in bioinformatics itself, scientists who are entered by data can pursue more career options than ever before. By Alaina G. Levine

Today’s bioinformaticists are in for a real treat. With a seemingly endless stream of biological data being generated across sectors, there is high demand for talented, experienced professionals at the crossroads of biology, statistics, and computer science. Scientists who can analyze large amounts of information and present it in a clear manner to decision makers are finding the sky the limit in terms of jobs and career pathways, especially in the big pharma and biotech sectors.

“It’s a fun place to be and an exciting time to be in big data,” remarks Sriram Mohan, professor of computer and software engineering at Rose-Hulman Institute of Technology, who is spending his sabbatical developing bioinformatics software for Avalon Consulting, a data management firm.

And what an immense amount of data it is, due in part to a paradigm shift in the field, from data generation to data analysis, says W. Jim Zheng, associate professor in the School of Biomedical Informatics at The University of Texas Health Science Center at Houston. Now, with so much data being produced because of easier and more cost-effective tools, there is an even greater need for specialists who can make sense of the mountains of information in such a way that is meaningful for scientists and clinicians, and ultimately beneficial to customers and patients.

The increase in job opportunities is also being driven by a change in how bioinformatics is perceived in industry and academia. Previously, “scientists and companies used to look at bioinformatics as a tool,” says Wim Van Criekinge, a professor of bioinformatics at Ghent University in Belgium and chief scientific officer at MDxHealth, a company developing epigenetics-based cancer diagnostics. Bioinformaticists would be called upon to answer a question about data; their role was to run an algorithm on a database that provided that answer. “But the subject has evolved from a service, like histology, to its own research arena… Bioinformaticists are now the motor of the innovation,” he adds. They not only answer the data inquiries, but also, more importantly, determine what questions need to be asked in the first place.

As a result, “there are many opportunities for scientists to pursue a bioinformatics/big data career in the biotech/big pharma industry at the moment,” notes Jared Kaleck, senior director of computational chemistry/biology and formulation development at executive search firm Klein Hersh International.

Discovering Where the Careers Are
To begin to recognize where the jobs are and how the career tracks are accessed, it helps to understand how bioinformaticist positions are organized within different firms. In pharmaceutical and larger biotech companies, big data scientists may find themselves working in one of three different types of organizational structures. In one, all of the big data scientists and bioinformaticists work out of a central core. This large team could be concentrated in research and development (R&D) or information technology (IT) departments, and the scientists work almost like consultants on projects throughout the company, and are lent out as needed.

In a second model, bioinformaticist positions are decentralized, and located within different therapeutic areas. For example, at Johnson & Johnson (J&J), Patrick Ryan leads the epidemiology analytics group. As a clinical informaticist, he develops statistical methods to analyze “observational databases,” such as electronic health records, to map disease patterns in order to better understand “the real-world effect of our medicines, and to develop safety protocols continued>
and mitigate risk for the patients,” he explains. His team is part of an overall epidemiology department that reports to the chief medical officer of J&J. But he notes that the company also has a robust informatics and IT division, whose mission is to “provide technical perspective on how to manage and analyze data.”

The third kind of organizational structure found in big pharma is a hybrid of the other two. Christian Reich, global head of discovery informatics at AstraZenica, shares that his company currently follows this model, although he notes that the trend sees enterprises restructuring themselves to follow one of the other paradigms every few years. His job entails overseeing a principal group of 25 specialists, but other informaticists are sprinkled throughout the company. Similarly at Pfizer, bioinformaticists are embedded in therapeutic units as well as core centers of excellence, says Susan Stephens, senior director of research and development business technology at Pfizer.

Genentech follows a similar mixed model, explains senior director of bioinformatics, Robert Gentleman (who is also a co-developer of the statistical computing and graphics programming language known as R). Bioinformaticists are organized in a core center, but they “integrate with different functional areas,” he says. “They are in one department, but day-to-day they work directly with disease area specialists.”

Depending upon where they are housed in their company, big data scientists can expect to have varying tasks. In R&D, bioinformaticists conduct research on new approaches to analyzing data and help design and possibly even build the analysis tools utilized by scientists throughout the company, says Reich. Here, the idea is to examine existing open-source algorithms to apply them in novel ways, or to create entirely new algorithms that rely heavily on mathematical and statistical expertise. “The goal is to put together a platform so the data analysis can be done easily, and return high-quality results,” he adds.

Bryn Roberts, global head of operations, which includes informatics for Pharma Research and Early Development at Roche, notes that in his company’s hybrid structure, informaticists and data scientists are involved in a wide range of activities. They develop and support software systems; they procure and make external scientific content available and actionable by scientists throughout the company; they implement and maintain workflow systems, such as e-lab notebooks, for both drug discovery and regulated functions; and they support and perform data, image, and text mining and analysis to support scientific decision making.

At Genentech, bioinformatics scientists participate in all levels of the investigative process, from helping to design experiments that will find genetic markers for disease, to leveraging their bioinformatics skills to help find biomarkers that will aid in patient selection.

Elsewhere in big pharma, big data scientists may be tasked to investigate trends in diseases and drug development and discovery, which can involve collaboration with the marketing team. They may also provide quantitative support for business decisions, such as in which therapies firms should invest, says George Teltorist, director of the Center for the Business of Life Sciences at Indiana University.

Contract Research Organizations (CROs) also offer much for those interested in the big data profession. As Dimitris Agrafitosis, vice president of informatics and chief data scientist of Covance, one of the world’s largest CROs, attests, “CROs are becoming the R&D engine of the pharmaceutical industry.” Covance data scientists can expect to be involved in myriad projects across the entire drug development continuum, from biomarker discovery to preclinical development, clinical trials, health economics and outcomes research, and even marketing.

Beyond working in big pharma or biotech, there are also opportunities for data scientists in industry support companies, such as those that produce bioinformatics software and other data analysis tools. Furthermore, bioinformaticists are recruited by health insurance corporations and hospital management organizations.

Even academia has seen an uptick in bioinformatics career opportunities, as the discipline itself is expanding. Zheng recalls a time in the early days of genomics when doing big data research meant scientists had to leave the university lab and head to industry, but the tide has changed. Now, programs like the National Institutes of Health’s Big Data to Knowledge funds academic research in bioinformatics.

Pursuing Big Data Skills

Experts agree that the most successful bioinformaticists (and the ones who land the jobs) are those who have a multitude of skills. But the starting point is always knowledge of life sciences, also referred to as “domain expertise” in the industry. In fact, “the deeper you understand the biology, the better you do your job in this area,” says Zheng. Hiring managers specifically seek out scientists who have doctorates in various areas of life sciences, including molecular and cellular biology, chemistry, genetics, immunology, and epidemiology. At Genentech, Gentleman looks for candidates who possess expertise in the biology of a particular disease.

Additional critical skills are required for big data careers in industry, such as text mining, ontology, data integration, machine learning, and information architecture. A superior “quantitative ability,” as Gentleman calls it, which covers a range of statistical capabilities, is a must, as are overarching computing skills. These include core programming abilities, such as coding in C++ or Java, or scripting..."
Scientist’s choice – University vs. Industry

There are a few key reasons why outstanding scientists should consider joining big pharma like Roche. Dr. Andrew Thomas, Head of Medicinal Chemistry, Neuroscience at Roche in Basel, explains why he joined one of the leading pharma companies a few years ago.

Dr. Andrew Thomas is Section Head Medicinal Chemistry at Roche in Basel.

What is your current role?
I am a member of our Chemistry Leadership Team, Extended Small Molecule Research Leadership Team, global Non Clinical Drug Safety Committee and I’m directly involved in the discovery and development of new medicines for the therapeutic areas of neuroscience ophthalmology and rare diseases. The goal of my team is design and discover molecules that will one day become medicines. One of the main responsibilities of my current role is to ensure that our department retain a reputation as being an employer of choice for the best scientists in our domain by attracting world class talent to join us.

Why did you decide to join Roche?
There are a few key reasons why I joined Roche. First and foremost – I had an immediate strong and authentic affinity to the outstanding scientists I met during my interviews – which continues to this day. Before I interviewed with Roche I was thinking to become a University Professor – but I was convinced by joining Roche I would be able to get the best of both worlds by generating new knowledge, teaching and mentoring students and more important being to directly impact healthcare through the implementation of medicinal chemistry knowledge. These have all been realised – which is why I have decided to stay with Roche.

What can Roche offer to young scientists?
We are able to offer a unique experience – where we provide the future leading scientists a stimulating and truly enriching environment interacting within very experienced teams where our young scientists gain an authentic insight into the leading capabilities of our organisation. Because we attract leading talents they are regarded right from the beginning as competent researchers and our skill is to support them advancing their own hypotheses and trying out new approaches to their research. The development of novel medicines and diagnostics gives them the opportunity to use their skills in complex areas of science, where there is still so much to discover. Industry has the advantage over academia that we focus very efficiently on the direct application of our research results rather than only generating them for others to use which is often the case in academia. We are able to drive this through our focus on creating new knowledge and value through inventions followed by timely publications. In addition the core of our industry is composed of a team of multi-disciplinary and recognized world experts across all key areas. Having access to experts internally is an asset unique to industry as well as our efficient infrastructure that ensures our company runs smoothly so we can focus on our research.

What would you advise job seekers who want to join Roche?
Make personal contact to our recruiters and departmental representatives who are out in the field at career fairs and/or giving scientific seminars around the world. If you are someone who has the passion to be a world class contributor to the discovery and development of new medicines demonstrate your potential early in your career during your formal education which will catalyse you being recognized by Roche employers.

To apply online for positions visit
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The next step is yours.
in PERL or Python, says Van Criekinge. It is vital to be able to navigate operating systems like UNIX and Linux as well as have knowledge of common tools such as Hadoop and NoSQL databases, adds Mohan. Experience in data visualization and building effective user interfaces, as well as familiarity with hardware, buttresses your marketability.

In addition to scientific problem-solving skills, bioinformaticists must have business proficiency. “Bioinformatics is a team sport,” says Stephen Ruberg, distinguished research fellow, advanced analytics of Eli Lilly and Company, and thus project management, team building, and communications experience is a requirement. In fact, “being able to communicate with the other scientists is really the most important skill we look for,” says Gentleman.

Nimbleness and the ability to adapt quickly are also fundamental. “It’s a fast-paced environment,” says Van Criekinge. “You have to have a mindset of constantly using new tools, or you will become obsolete in two years.”

Landing Big Data Jobs
It would be ideal if companies could find candidates who have all of the above skill sets, but sources indicate that that is wishful thinking. More often than not, hiring decisions are made based on the immediate needs of the team, especially given their interdisciplinary nature. “We look for people whose expertise complements the existing group’s skills,” says Roberts. However, just because you lack a specified talent or interest area as noted in a recruitment ad, doesn’t mean you shouldn’t apply anyway. “We share CVs internally all the time,” says Stephens. So even if she can’t bring you in to her group at Pfizer, she may be able to find another team at the company for which you would be a good fit.

In some cases, companies are growing their own talent, as a result of the lack of large numbers of qualified, multi-skilled candidates. At Roche, “we offer continuous training in various areas and encourage our staff to attend conferences, publish, or pursue higher degrees,” says Roberts. Pfizer data scientists have myriad chances to pursue professional development, and are also granted time to try out new techniques, says Stephens, something she refers to as “sandbox opportunities.”

Experience plays a major role in gaining access to jobs. Kaleck highly recommends doing an industrial postdoc or internship, but in absence of these, scientists might consider “bridge” programs, like the Insight Data Science Fellows Program. This fully supported, six-week training opportunity offers postdoctoral fellows the chance to work on real-world problems for the likes of Facebook and Microsoft. This appealed to Vincent Fusaro, whose Ph.D. is in bioinformatics. As a fellow, he gained expertise in databases, Python, machine learning, and data visualization, which helped him land a position as a self-described “data ninja” for Invitae, a genetic information company. Today he is responsible for software engineering, data analysis, and pipeline and product development, among other tasks.

The Expanding Big Data Universe
Data scientists can expect the field to change and evolve in novel ways in the near future. But the bottom line is that “companies are growing their bioinformatics,” says Kaleck. “There are 100% more job opportunities opening up in bioinformatics than ever before,” much of which is driven by an increase in venture capital investment.

Given that big data “is the hottest field on the planet,” says Agraflitis, those who have the requisite skills and expertise often have their pick of opportunities. “I have to fight Google, Amazon, LinkedIn, and hedge funds to hire the top people. They are valuable in any industry.”

In particular, the future of big data in big pharma and biotech sectors is bright and exciting. “Bring your expertise to health care,” says Telford, “and you’ll know you’re going to make a difference, at the patient level and at the societal level.”

Alaina G. Levine is a science writer based in Tucson, AZ.

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Bioinformatics opportunities at the Wellcome Trust Sanger Institute

The Wellcome Trust Sanger Institute (WTSI), based south of Cambridge (http://www.sanger.ac.uk/), is an internationally renowned genomic research centre, funded primarily by the Wellcome Trust. Our mission is to use genome sequences to advance understanding of the biology of humans and pathogens in order to improve human health. The Institute is located on the 100 acre Genome Campus with the European Bioinformatics Institute (EMBL-EBI), the Wellcome Trust Conference Centre and its associated advanced courses and conferences programme; we share a broad vision to develop the Campus as a hub of science including informatics, business, advanced scientific training and cultural activities in the area of genomics and genomics.

Informatics is central to genome science at the WTSI. Our Bioinformatics programme develops and applies methods to process, store and analyse data generated by high-throughput projects. Its principal aims are to infer genomic knowledge through computational analysis and integration of data and to generate resources of lasting value to biomedical research.

We offer a wide range of Bioinformatics opportunities across a broad spectrum of Faculty-led research projects, such as:

- Computational genome biology
- Genome informatics
- Genomics of gene regulation
- Population genomics of molecular phenotypes
- Using outbred genetic variation to understand basic biology
- Vertebrate genome analysis

Working collaboratively in Bioinformatics is important to us at the WTSI. A major collaboration is centred on capacity building in bioinformatics and large-scale data analysis in Africa, including supporting the development of a new data centre in Uganda. More details on these projects and collaborations can be found on our website at: http://www.sanger.ac.uk/research/areas/bioinformatics/#proj

For more details on all of our bioinformatics positions and to submit your CV/apply online please go to https://jobs.sanger.ac.uk.

For more information on working at the Institute and the benefits and facilities available to staff visit http://www.sanger.ac.uk/workstudy/.

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Keck School of Medicine of USC

Emerging Pathogens
TENURE-TRACK FACULTY POSITIONS

Department of Molecular Microbiology and Immunology
USC Institute of Emerging Pathogens and Immune Diseases
Keck School of Medicine
University of Southern California
Los Angeles, California

The Department of Molecular Microbiology and Immunology at the Keck School of Medicine of the University of Southern California in Los Angeles, California, has an ongoing expansion to build upon existing strengths in Microbiology, Virology, and Immunology.

The Department invites applicants for tenure-track Assistant and/or Associate Professor positions with a specific research emphasis on emerging pathogens and immune responses. We are especially interested in candidates whose research addresses biodefense pathogenesis-related, trans-disciplinary, and translational research topics. Creative scientists with a record of achievement and commitment to excellence in both research and teaching are encouraged to apply. Successful candidates will receive generous start-up packages and laboratory space along with access to a new Biosafety Laboratory 3 facility. The Keck School of Medicine has strong research programs in Cancer, Genomics, Immunology, Stem Cells, Neurobiology, and Virology.

Applicants should submit a letter of application, Curriculum Vitae, a statement of current and future research plans, and three letters of recommendation. Please complete faculty application through the USC job website at http://jobs.usc.edu:80/postings/6742 (Requisition ID# 010340).

USC values diversity and is committed to equal opportunity in employment. Women, men, and members of all racial and ethnic groups are encouraged to apply.

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Funding & Support Available

The National Socio-Environmental Synthesis Center (SESYNC), funded through an award to the University of Maryland from the National Science Foundation, is accepting proposals for data-intensive analysis and/or modeling projects that advance socio-environmental synthesis research.

SESYNC has significant modeling, data analysis, and database management expertise to guide and support teams that need assistance with the technical aspects of data mining, processing, integration, analysis, visualization, and/or modeling. Funded projects will gain access to SESYNC’s advanced cyberinfrastructure, including use of and support for scalable cluster computing and substantial storage capacity.

In addition to providing support for meetings and travel to SESYNC, we may cover the costs of the PI’s salary while in residence at SESYNC and/or salary for a research assistant at the PI’s home institution and/or at SESYNC.

The NIH Common Fund supports programs that are expected to have a transformative impact on biomedical research as a whole (http://commonfund.nih.gov). Common Fund Programs are designed through broad community input to address challenges in many disease areas and/or opportunities where entirely new scientific paradigms may be possible. These programs support the development of technologies, tools, methods, and data sets that catalyze further research across the spectrum of the NIH mission. With an annual budget of ~$525 Million, the Common Fund is managed through the Office of Strategic Coordination (OSC), within the NIH Office of the Director, in partnership with NIH Institutes and Centers. Management of these programs requires broad scientific perspective, ability to lead complex scientific projects, and a desire to facilitate research across the community.

The OSC is currently recruiting scientists at the Associate Professor or Full Professor level for up to three positions to lead Common Fund programs in diverse scientific areas. Exceptional Assistant Professors with experience in leading collaborative programs may also be considered. Agreements may be established for two to four years with maintenance of faculty status at home institutions via the Intergovernmental Personnel Act (http://oma1.od.nih.gov/manualchapters/person/2300-334-1/). Scientists with strong leadership skills in any area of biomedical or behavioral research are encouraged to apply, but expertise in the following areas is especially encouraged:

- Biochemistry
- Neuroscience
- Physiology
- Human Genetics
- Persistence of Underrepresented Minorities in Research Careers

More information about the role of OSC Program Leaders may be found http://commonfund.nih.gov/sites/default/files/OSCProgramLeader.pdf. For questions or to apply, contact Dr. Elizabeth Wilder, Director of the Office of Strategic Coordination, NIH, at Elizabeth.Wilder@nih.gov

To apply, submit a CV and a cover letter which addresses the following:

- A statement of interest in the position, referencing specific Common Fund programs and/or those that are being planned (see http://commonfund.nih.gov/planningactivities/overview-planningactivities)
- A description of how your scientific experience and perspective has prepared you for this position
- Examples of leadership experience, particularly with research teams or consortia

Applications will be considered through August 31, 2014 or until the positions are filled. To learn more about other employment opportunities with the NIH, Current Federal applicants or those wanting to apply for federal positions can visit www.usajobs.gov and www.jobs.nih.gov.

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**CAREERS IN BIG DATA**

**University of Pittsburgh**

**NEW FACULTY POSITIONS**

**DEPARTMENT OF INFECTIOUS DISEASES AND MICROBIOLOGY**

The Department of Infectious Diseases and Microbiology at the University of Pittsburgh Graduate School of Public Health invites applications for multiple tenure-track faculty positions at the rank of Assistant and Associate Professor. Applicants must have a Ph.D. or M.D. degree or equivalent.

Successful candidates are expected to develop a highly productive research program in areas of the molecular pathogenesis, virology and immunology of HIV and associated co-infections, and are expected to contribute to the teaching of graduate students. We are seeking early stage or established investigators with strong records of research accomplishment who will complement and expand these departmental research interests. The Department has a highly interactive group of virologists, immunologists and geneticists working on the immunopathogenesis of HIV/SIV and associated coinfections including HCV, KSHV and TB. Priority will be given to those applicants who have established funded research programs or have recently obtained funding to transition into independent research. The positions offer competitive salary, benefits and start-up funds, new laboratory space, access to state-of-the-art core facilities and extensive opportunities for collaboration with faculty at the University of Pittsburgh School of Medicine and Cancer Institute.

Applicants should submit a curriculum vitae, statement of research interests and future plans, and names of three references to: Chair, Biosciences Search Committee, Department of Infectious Diseases and Microbiology, A419 Crabtree Hall, Graduate School of Public Health, University of Pittsburgh, 130 DeSoto Street, Pittsburgh, Pennsylvania 15261 (jmalenka@pitt.edu). Review of applications will commence upon receipt and will continue until the position is filled.

*The University of Pittsburgh is committed to Affirmative Action, Equal Opportunity and the diversity of its workforce.*

**National Cheng Kung University President Search**

National Cheng Kung University (NCKU) is one of the top comprehensive universities in Taiwan and one of the few accredited universities in the “Aim for the Top University Project” sponsored by the Ministry of Education. It now invites nominations for the position of President.

Under the leadership of its current President, Dr. Hwung-hweng Hwang, the University is fast becoming a world-renowned university; his term ends on January 31, 2015. The President Search Committee thus solicits qualified candidates with the vision, integrity, and abilities to be the new president of NCKU.

Nominations are welcome from, or on behalf of, groups and individuals and should be made on the nomination form available online. Please fill out the Nomination Form and either email it to nckusearch@email.ncku.edu.tw or return it via registered mail, postmarked before July 15, 2014, to: NCKU PRESIDENT SEARCH COMMITTEE, 1 University Road, Tainan, Taiwan. The nomination form is available at download at http://proj.ncku.edu.tw/nckusearch/e/document.html.

For further inquiries, please contact the President Search Committee:

Phone: (886)-6-2757575 ext. 50923 or 50921
Fax: (886)-6-2766462
Email: nckusearch@email.ncku.edu.tw
Chair of the Department of Microbiology at the Perelman School of Medicine of the University of Pennsylvania

The Perelman School of Medicine at the University of Pennsylvania invites applications for the position of Chair of the Department of Microbiology. Founded in 1765, the School of Medicine is the oldest and one of the finest medical schools in the United States, and prides itself on leadership in biomedical research, medical education and patient care. Today there are 10 basic science and 18 clinical departments in the School. Penn is rich in tradition and heritage and at the same time consistently at the forefront in creating new knowledge and innovation.

Microbial agents exist in both pathological and physiological relationship to the human organism and population. Infections remain an important cause of human morbidity and mortality, and with the increase in global migration emerging infectious diseases constitute a growing public health threat. Conversely, there is increasing recognition of the interaction between humans and their endogenous microbes and their role in normal and disease states. The mission of the Microbiology Department is to carry out high quality research on the biology, immunology, transmission and pathogenesis of viruses, bacteria and other microorganisms that impact human health and disease.

The Microbiology Department provides the academic home for a highly accomplished and interactive group of investigators whose research spans these domains. Research in the department includes HIV/AIDS, vector-borne viruses, herpes viruses, papillomaviruses, bacterial pathogenesis, airway and gut microbes and the human microbiome. Our faculty also study many areas of immunology, particularly relating to host-microbe interactions, including T cell biology, the regulation of innate and adaptive immunity, tumor immunology and vaccine development. Faculty within the Department interact closely with a broad community of like-minded researchers in a variety of other departments within the Perelman School of Medicine and other Schools within the University of Pennsylvania.

The Chair will provide vision and leadership for the Department. Applicants must have a PhD and/or MD, and a distinguished national/international record of microbiology research. Candidates should possess dynamic leadership skills, administrative expertise, as well as a demonstrated commitment to and record of education and mentorship of students, fellows and faculty. The applicant must have skills suitable to foster strong collaborations among investigators within the Department as well as the larger Microbiology research community on campus, and to promote outreach to clinical disciplines. The candidate should express a clear vision of the future of microbiology, and the role of a basic science department that is part of a renowned academic medical center. The candidate must be qualified for appointment as Full Professor in the Tenure Track of the standing faculty in of the Department of Microbiology in the Perelman School of Medicine.

All interested applicants are invited to submit their curriculum vitae and letter of interest to the attention of Ronald G. Collman, MD, Chair, Microbiology Chair Search Committee, c/o Margaret M. Lizotte, Search Committee Liaison, lizotte@exchange.upenn.edu. Applicants may apply for this position online at: https://www.med.upenn.edu/apps/faculty_ad/index.php/g/d3650

We seek candidates who embrace and reflect diversity in the broadest sense.

The University of Pennsylvania is an EO/E. Minorities/Women/Individuals with disabilities/Protected Veterans are encouraged to apply.

Faculty of Science

The Faculty of Science of the University of Zurich invites applications for a

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The new professor should have broad interests and is expected to establish and lead a strong activity pursuing vigorous research in the area of theoretical condensed matter physics. The successful candidate will find a stimulating environment with state-of-the-art experimental research in a wide field of condensed matter physics and in other related fields (see http://www.physik.uzh.ch/e/research.shtml). The University of Zurich provides generous research support, including earmarked funds for personnel and running expenses, and competitive start-up packages. Switzerland offers excellent opportunities for external funding of research.

In teaching at both undergraduate and graduate level the new professor will stimulate the interest of the students for basic and applied physics research. Undergraduate teaching language is German or English, graduate education is in English.

The position will be filled preferentially at the assistant professor tenure-track level. Applications from outstanding senior candidates will also be considered. The University of Zurich is an equal opportunity employer.

Candidates are invited to submit an application package including curriculum vitae, list of publications and personal conference contributions, outline of current and future research interests, teaching philosophy and names and addresses of three potential referees. Documents should be addressed to Prof. Dr. Bernhard Schmid, Dean of the Faculty of Science, University of Zurich, and uploaded as a single PDF file at www.mnf.uzh.ch/tmp by 31 July 2014. For further information, please contact Prof. Dr. Jürg Osterwalder via osterwal@physik.uzh.ch.

University of Zurich
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Young and research-intensive, Nanyang Technological University (NTU), Singapore, is ranked 41st in the QS World University Rankings 2013 and 2nd globally among young elite universities. It is also the No. 1 Asian university in terms of normalised research citation impact (Thomson Reuters InCites 2012).

NTU offers engineering, science, business, humanities, arts and social sciences, and medicine in its joint school with Imperial College London.

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NTU invites outstanding young researchers and exceptional scholars to apply for appointment as a Nanyang Assistant Professor. Up to 10 appointments will be made.

Successful candidates will receive start-up research grant of up to SGD 1 million (EUR 583K/USD 800K/JPY 81M) and an attractive remuneration package. They will hold tenure track appointments and play lead roles in NTU’s multi-disciplinary, integrative research.

Candidates should be below 40 years of age, within 10 years of obtaining their PhD or equivalent degree in their respective field, possess a few years of post-doctoral research experience, and ready to independently lead their own research groups.

For enquiries, email: nanyangprofessorship@ntu.edu.sg

Applications now open
* Apply online at www.ntu.edu.sg/nap
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Hunting for Talents
NUAA, Jiangsu, China

Nanjing University of Aeronautics and Astronautics (NUAA) is a research-oriented national key university of “211 Project”. It also enjoys a well-balanced development of multiple disciplines in engineering, technology, natural sciences, economy, management and social sciences with the characteristics of aeronautics, astronautics and civil aviation. NUAA is qualified to be “Dominant Discipline Innovation Platform of 985 Project” and to independently recruit and receive international students who are granted the Chinese Government Scholarship. Now NUAA consists of 16 colleges with more than 3,000 staff members and approximately 26,000 degree students.

Academia and education at NUAA represent strong capacity among all the universities in China. It has acquired national status through the quality of its excellence research work, especially in the areas of Aerospace Engineering, Mechanics, Electromechanics, Economy and Management, etc.

NUAA gives a warm welcome to excellent experts, scholars and young students from both home and abroad, who are willing to serve the country, dedicate themselves to the development of aerospace science and make contributions to the industrialization, information technology of China. NUAA will provide teachers and researchers with a good academic environment, satisfactory working and living conditions and a stage on which they can put their talents to good use.

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Opening of the Director’s Position and Faculty Positions in the New Institute of Health Informatics at Peking University

DIRECTOR’S POSITION AND FACULTY POSITIONS

Peking University is establishing a new Institute of Health Informatics that aims to advance research and teaching in all areas of health informatics. Director’s position and several faculty positions at all academic levels are open for application.

Faculty in the new institute can have joint appointments at Peking University’s Medical Center and the School of Interdisciplinary Research. Faculty are expected to develop new methodologies and technologies to manage, query, and analyze clinical data and/or perform innovative analysis to find new patterns and trends that have significant impact on clinical practice or health policy. Faculty are especially encouraged to interact with the university’s nine affiliated hospitals and other health care organizations in China to take advantage of China’s vast clinical resource. Faculty are expected to teach core courses on the curriculum.

The Director, in addition to his/her role as a faculty member, is also expected to lead the institute in world-class research, develop a comprehensive curriculum, recruit faculty members, and establish collaborations with the university’s nine affiliated hospitals and other health care organizations in China.

Candidates should have a doctorate degree and strong research background in a related field. Hiring levels will be commensurate with experience and achievements. Interested applicants please send CV, research statement, teaching statement, five representative publications, and contact information of three references to Ms Siyuan Gong (gongsy@pku.edu.cn), and include a cover letter indicating the position applying to.

Peking University provides competitive salary and funding support for research and teaching. Successful candidates may also be supported by the Peking-Teignhua Center for Life Sciences. The recruitment continues until all the positions are filled.

Faculty Positions available at Hohai University, Nanjing, China

Hohai University invites applications for faculty positions at the assistant, associate, or full professor level in the area of engineering, science, economics, management, liberal arts, and law. Applicants should have a doctoral degree from a prestigious university. For the complete job announcements and directions on how to apply, visit: rsc.hhu.edu.cn or contact the Department of human resource at 86-25-83786205.

Hohai University, founded in 1915, wins its worldwide reputation on the research of Water Science & Civil Engineering & Environment Engineering. It is a National key university of China, and among the universities of the National “211 Project” and Innovation Bases of the National “985 Project”. Hohai University aims to be a research oriented university.
AAAS is here – helping scientists achieve career success.

Every month, over 400,000 students and scientists visit ScienceCareers.org in search of the information, advice, and opportunities they need to take the next step in their careers.

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

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To learn more, visit aaas.org/plusyou/sciencecareers
Chief Editor
Nature Methods

The Nature Publishing Group is looking for a Chief Editor for *Nature Methods*, the leading biomedical research journal devoted to publishing the latest and most exciting advances in life science research methods. The journal covers a wide range of fields including biophysics, structural biology, genomics, proteomics, cell biology, systems biology and neuroscience and publishes technologies in areas such as sequencing, microscopy, mass spectrometry and computational tools.

*Nature Methods* is an interdisciplinary research journal that publishes novel techniques and tools for basic laboratory research in the life sciences, as well as significant improvements to tried-and-tested methods. The journal combines practical, technique-driven subject matter with rigorous peer review standards to ensure that readers are consistently presented with only the most valuable and highest quality methodological research. It provides laboratory researchers with new tools to conduct their research and places a strong emphasis on the immediate practical relevance of the work presented.

The position of Chief Editor is a senior appointment, reporting to the Executive Editor, and is backed by a strong commitment to excellence and investment in resources. This is an exciting opportunity to join the world's leading scientific publishing company and to be involved with the development of a prestigious journal. The Chief Editor is responsible for leading a skilled and enthusiastic editorial team and for developing the editorial content of the journal, both in print and online.

To meet these challenging tasks, the ideal candidate will have intellectual vision, strong leadership qualities, and be able to demonstrate commercial awareness appropriate for a controlled circulation journal with substantial print and online advertising. She or he should have a PhD in a relevant field, have excellent scientific judgment, and a broad knowledge and understanding of basic research in the life sciences.

The ideal candidate will have a strong research background and publication record while previous editorial and/or managerial experience is an additional advantage. A key aspect of the job is interacting with the scientific community and attending international conferences. The successful candidate must, therefore, be dynamic and outgoing, be prepared to travel, and have excellent interpersonal skills.

The position will be based in Nature Publishing Group’s office in New York, and accordingly candidates must be able to demonstrate the right to live and work in this location. The terms and conditions are highly competitive, reflecting the importance and responsibilities of the role.

For further information about *Nature Methods*, please visit [http://www.nature.com/nmeth](http://www.nature.com/nmeth)

To apply, please go to [https://home.ecease.adp.com/recruit/?id=9631521](https://home.ecease.adp.com/recruit/?id=9631521) and submit a cover letter stating your suitability for this post, salary expectations, a current CV, potential starting date, and a statement that encapsulates your vision for *Nature Methods*.

All applicants will be reviewed upon receipt with a close date of June 27, 2014.

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DEPARTMENT OF BIOTECHNOLOGY
MINISTRY OF SCIENCE & TECHNOLOGY
GOVERNMENT OF INDIA

NOMINATIONS/APPLICATIONS FOR THE POST OF DIRECTOR, IN-STEM, BANGALORE

Nominations/Applications are invited for the post of Director on deputation (including short term contract), Institute for Stem Cell Biology and Regenerative Medicine (inStem) [www.instem.res.in], Bangalore, an autonomous Institute under the Department of Biotechnology, Government of India (www.dbtindia.nic.in).

inStem is a state-of-the-art research institute in Bangalore, dedicated to the study of stem cell and regenerative biology. In-Stem emphasizes collaborative research in stem cell biology. inStem’s mandate to allow this cross-disciplinary, multi-pronged approach to research, straddles the divide between clinical and laboratory research in stem cell biology. In trying to answer intractable and challenging questions that face the field, inStem seeks to rewrite the paradigm of the research institute: without barriers and across disciplines.

The applicants should be below 56 years of age. The post carries Pay Scale of Rs.80000/- (Fixed) with usual allowances as per the Govt. of India Rules.

Those applicants from Central/State Governments, research institutes, autonomous bodies etc. are typically expected to be:

1. Holding analogous post or post in HAG + Scale on regular basis in the parent Department.
2. 3 Years service in PB-IV with Grade Pay of Rs.10,000/-; or
3. 5 years service in PB-IV with Grade Pay of Rs.8900/-; or
4. 7 years service in PB-IV with Grade Pay of Rs.8700/-

Essential

1. Ph.D. in Life Sciences or other Allied Sciences/Engineering or M.D. or equivalent
2. Relevant experience in the area of organisational, cellular, molecular, systems biology, or biotechnology, and
3. Excellent track record, proven expertise of guiding research activities in the area of specialization.

Experience in Science – administration will be an asset.

The nomination/application along with detailed curriculum vitae including the date of birth, address for correspondence including telephone no., fax and e-mail address, qualifications acquired, professional and research experience, present position and scale of pay with total emoluments, publication details and a 500 words write-up on the candidate’s vision of inStem, Bangalore for the next ten years may be sent to Smt. Kusum Lata Sharma, Deputy Secretary, Department of Biotechnology, Block-2, CGO Complex, Lodhi Road, New Delhi-110 003, superscribing the cover “Nomination/Application for the Post of Director, inStem” so as to reach her within 30 days from the date of publication of this advertisement. The detailed advertisement and format of application is available at DBT website www.dbtindia.nic.in and at the inStem website www.instem.res.in

The Department reserves the right to relax any of the requirements prescribed above.