Faculty of Science

The Faculty of Science (www.mnf.uzh.ch) of the University of Zurich and the Department of Information Technology and Electrical Engineering (www.ee.ethz.ch) at ETH Zurich invite applications for a

Full Professor of Neurocomputation

to join the multidisciplinary Institute of Neuroinformatics (INI) and complement and extend its vigorous research activities.

We seek innovative candidates with a strong record in research and teaching who will strengthen our interests in experimental and theoretical approaches to neural computation, brain architectures and behavior.

Neurosciences are driven by modern experimental tools such as high-throughput electron microscopy, optogenetics, in-vivo imaging, electrode arrays, CRISPR, etc. However, to advance our understanding of brain functions, neuroscience also needs theory that is either validated or rejected by experiments. The INI is looking for outstanding candidates who can bridge the gap between theories of neural circuits and modern experimental approaches. By strengthening the role of technology and theory in neuroscience, INI wants to contribute to the discovery of important principles about brain function and subject these principles to stringent tests. The successful candidate will present a scientific vision on neural information processing and computation that closes the loop with experimental research of neuronal circuits and behavior.

The University of Zurich and the ETH Zurich provide generous research support, including dedicated funds for personnel and running expenses, and competitive start-up packages. The University of Zurich, the ETH Zurich, and the city of Zurich also offer a stimulating cultural environment and are family-friendly.

Application packages should include a motivation letter, a full curriculum vitae, a vision statement of research and teaching interests outlining major unsolved problems and how they could be tackled and the 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 to http://www.mnf.uzh.ch/PBD by 15 June 2016. A brief questionnaire will have to be filled out at the beginning of the upload process. For further information, please contact Prof. Dr. Michael Schaepman at Michael.Schaepman@geo.uzh.ch or Prof. Dr. Richard Hahnloser at rich@ini.ethz.ch.

The University of Zurich and the ETH Zurich are equal opportunities employers.
Recognized as a world leader of genomic research in pediatric cancer, the Computational Biology department at St. Jude Children's Research Hospital is currently seeking exceptional and creative scientists for multiple FACULTY positions. We are seeking investigators to lead multidisciplinary research programs of systems biology, cellular image analysis and genetics/epigenetics by integrating dry- and wet-lab computational methods development with wet-lab experiments. Early career investigators interested in contributing to a culture of excellence at St. Jude are particularly encouraged to apply. This search is also open for mid-career or senior investigators with a strong record of independent research.

As part of a significant expansion from a research program to an academic department, the newly established Computational Biology department occupies 28,700-square-foot of laboratory and office space. Computational Biology investigators have access to dedicated departmental shared resources established for BIG data analysis and functional validation. They include priority access to a high-performance computing facility, a core wet lab available to support dry lab faculty, an engineering team for high throughput data analysis and a genomics laboratory for developing new sequencing technologies and assays. The research environment at St. Jude is highly interactive with collaborative opportunities across all basic research and clinical departments, as well as access to institutional shared resources managed by Ph.D.-level scientists.

We offer very competitive packages, including generous startup funds, computing resources, equipment, laboratory space, personnel support and potential institutional support beyond the start-up phase. A faculty position at the Assistant, Associate or Full Member level may be considered. Successful applicants must hold a Ph.D. degree, have at least three years of relevant postgraduate experience or a demonstrated track record of developing novel, high-impact computational methods. Interested applicants should send via email a curriculum vitae, a 2-3 page summary of research interests, and the names of three references to: ComputationalBiologyRecruitment@stjude.org

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**Research Assistant Professor of Systems Pharmacology and Translational Therapeutics**

The Department of Pharmacology at the Perelman School of Medicine at the University of Pennsylvania seeks candidates for an Assistant Professor position in the non-tenure research track. The successful applicant will have experience in the field of mass spectrometry and biochemical chemistry. Responsibilities include playing a key role in running the Translational Biomarker Core of the Center of Excellence in Environmental Toxicology. This will involve the maintenance of instrumentation, the conduct of research, and the participation in both routine and collaborative studies with other Center Investigators. Applicants must have a Ph.D. degree and have demonstrated excellent qualifications in research.

A demonstrated record of excellence in studies that leverage interdisciplinary approaches to the study of environmental science is required. Candidates with a record of innovative and collaborative research in mass spectrometry and biochemical chemistry are encouraged to apply. Applicants must have a Ph.D. together with postdoctoral experience and a strong publication record.

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.

Apply online at: http://www.med.upenn.edu/apps/faculty_ad/index.php/g/d4292
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Jefferson Science Fellowship

The National Academies of Science, Engineering, and Medicine is pleased to announce a call for nominations and applications for the 2017 Jefferson Science Fellowship (JSF) 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 and international development objectives.

Fellows 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. As part of their assignments, Fellows may also have the opportunity to travel to U.S. embassies and missions overseas.

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 2017-2018 program year applications/nominations is October 31, 2016. To learn more about the Jefferson Science Fellowship and to apply, visit the website at:

www.national-academies.org/jsf

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AAAS Congressional Fellow, Senate Committee on Health, Education, Labor and Pensions
Current: Radiologist, Sutter Health, and Adjunct Clinical Associate Professor, Stanford Medical School

Application deadline: November 1.
To learn more and apply visit go.stpf-aaas.org/science1.html
1. Register for a free online account on ScienceCareers.org.

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6. Download our career booklets, including Career Basics, Careers Beyond the Bench, and Developing Your Skills.

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10. Read relevant career advice articles from our library of thousands.

Visit ScienceCareers.org today — all resources are free.
The Ames Laboratory respects, appreciates, and encourages diversity. We support scientific programs that are appropriately prioritized, budgeted, and scheduled by the Chief Research Officer. Applications must be submitted through this website. Nominations and inquiries should be sent to CROSearch@ameslab.gov. Position description available at: https://www.ameslab.gov/sites/default/files/CRO-Position-Description.pdf. To guarantee consideration, applications must be submitted by July 1, 2016.

The Ames Laboratory respects, appreciates, and encourages diversity. We especially seek candidates who are interested in contributing to the diversity of our research environment. Ames Laboratory/Iowa State University is an Affirmative Action/Equal Opportunity Employer. Iowa State University does not discriminate on the basis of race, color, age, ethnicity, religion, national origin, pregnancy, sexual orientation, gender identity, genetic information, sex, marital status, disability, or status as a U.S. veteran. Inquiries regarding non-discrimination policies may be directed to Office of Equal Opportunity, 3350 Beardshear Hall, 515 Morrill Road, Ames, Iowa 50011, Tel. 515-294-7612, email coooffice@iastate.edu.

Smithsonian Tropical Research Institute
Three Post-Doctoral Fellowships for Tropical Microbial Ecologists

The Smithsonian Tropical Research Institute (STRI), with generous support from the Simons Foundation, is pleased to announce a new research initiative to understand the roles played by microbiomes in tropical forests. This initiative is intended to expand dramatically our understanding of the identity, distribution, and function of tropical terrestrial microbiomes. As part of this initiative, we are accepting applications for three postdoctoral fellowships. The fellowships are for three years, and each includes a stipend, travel and research funds, and relocation expenses to Panama.

Candidates should propose their own research projects related to this initiative. The proposed research should incorporate genomic and metagenomic approaches and complement one or more existing strengths at STRI, including forest ecology, evolutionary biology of mutualisms, soil biology and biochemistry, behavioral ecology and evolution, and plant physiology [see www.stri.si.edu]. The positions will be based at STRI, and proposed research should be based primarily at facilities in Panama, although comparative studies involving other sites may be included if strongly justified.

Applications should consist of a single PDF containing a cover letter, a research proposal, a complete curriculum vitae, and the names and contact information of three referees. The research proposal should not exceed five single-spaced pages plus references and include a research budget. Please also include up to three significant reprints as separate files. Applications should be addressed to Adriana Bilgray, Office of Academic Programs (BilgrayA@si.edu). For inquiries contact Dr. William Wcislo, Deputy Director for Research (WcisloW@si.edu). Review of applications will begin 15 August 2016 and continue until positions are filled.

STRI is an Equal Opportunity Employer and is committed to diversity in its workforce. Appointments are made regardless of nationality.

EMBL Australia Group Leaders
Accelerate your research career – fully funded research positions for 5 years

• Form and lead your own independent research group
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• Designed for high potential, early-career scientists who are dedicated to research excellence
• Excellent salary package, including (where required) arrangements for relocation, travel, work permits and visas for the successful candidate and their family
• Position includes funding for a research team and generous annual research budget
• Based at new world-class life and medical research facilities at the Australian Regenerative Medicine Institute at Monash University
• Unique opportunity to join an innovative, growing organisation

EMBL Australia enables research groups to have access to the complementary facilities and expertise at EMBL and a growing network of groups at other national participating institutions in a dynamic, collaborative, internationally focused network. We encourage scientists interested in rapidly accelerating their research career in a highly supportive environment to apply. During the course of their tenure, applicants will be encouraged to apply for prestigious fellowships and grants to expand their research program.

Group Leaders in Tissue Engineering and Organoid Biology with joint appointments to the Australian Regenerative Medicine Institute (ARMI) at Monash University and CSIRO (up to 2 positions)

ARMI is the national headquarters of EMBL Australia, hosts the Systems Biology Institute - Australia and and is the Monash University headquarters of Stem Cells Australia.

The Commonwealth Scientific and Industrial Research Organisation (CSIRO) is Australia’s paramount publicly funded industrial research organization.

We seek applicants with research interests in broad aspects of tissue engineering which could include but are not limited to organoid and organ on a chip technology, decellularized tissue scaffolds, bioactive biomaterials and biointerfaces that simulate the cellular microenvironment at the micro and nanoscale, functional biomaterials and advance manufacturing (3D scaffolds), and synthetic and biological matrices for tissue engineering and transplant development.

ARMI currently has 16 research groups, and a total of 230 researchers, students and support staff from 21 different countries. Its location on the Monash University campus offers a highly stimulating biomedical research environment allowing Institute researchers to work closely with other university research organisations including the Monash Institute for Medical Engineering (MIME) and Biomedical Discovery Institute (BDI) and CSIRO, one of Australia’s leading multidisciplinary research organisations. The vision promoted at ARMI is to exploit and connect the multidisciplinary of its groups, aligning their complementary capacities around key research pipelines; Heart and muscle development and regeneration, immunity and Regeneration, Stem cells and Regeneration and Neural regeneration.

CSIRO currently delivers impact through 9 Business Units including Manufacturing which is co-located with Monash University. The Manufacturing Business Unit which has approximately 750 researchers, students and affiliates includes our Biomedical Manufacturing Programme which houses over 150 multi-disciplinary researchers and students at sites in Melbourne and Sydney. Using our leading science and technical expertise, we are working on next generation therapies to treat diseases, new ways to deliver drugs, advanced medical materials and devices and drug discovery. CSIRO collaborates with all of Australia’s leading universities, including Monash and a range of companies, both national and international and has a track record of translating research to the marketplace.

Both CSIRO and ARMI aim for a representative gender balance at all levels of staff. Therefore we strongly encourage women to apply.

More details are available at www.armi.org.au

EMBL Australia

The EMBL Australia Partner Laboratory is based on the EMBL model, with distributed, highly integrated research nodes focusing on complementary aspects of biological research. Currently there are three nodes at Monash University with a total of four research groups, at the University of New South Wales, with two groups and in South Australia, at SAHMRI, with three groups. EMBL Australia also oversees the EMBL Australia Bioinformatics Resource, based at Melbourne University and SBI Australia, based at Monash University. More details at www.emblaustralia.org

To apply for a position
Please email (in English) a cover letter clearly outlining a summary of current and future research interests, a CV and 3 written references, to: sandra.fernandes@emblaustralia.org Incomplete applications cannot be considered.

Applications close: 29th July 2016

Interviews will be held in Australia and are likely to be in November 2016

The anticipated commencement date is mid/late 2017.
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Expressions of interest are invited from established researchers to build a research program focused on Cardiovascular Science at the Australian Regenerative Medicine Institute at Monash University (http://www.armi.org.au/). Applications in all areas of Cardiac and Vascular Biology and disease are welcome, but we are particularly interested in those researchers focused on regeneration and stem cell biology or tissue engineering as applied to cardiovascular diseases.

Candidates for this Associate Professorial or Professorial level position must have a PhD and/or MD, evidence of sustained competitive funding, and an outstanding publication record of quality peer reviewed science. Successful candidates will be expected to maintain a vigorous research program that addresses fundamental questions in the broad field of cardiovascular biology. Candidates with a focus on clinical research and with research expertise that complements those of current investigators at the Institute are of special interest. Clinician scientists are particularly encouraged to apply and an option for a clinical appointment may be available within Monash Heart to appropriate candidates.

The Australian Regenerative Medicine Institute currently has 14 research groups, and a total of 230 researchers, students and support staff from 21 different countries. Its location on the Monash University campus offers a highly stimulating biomedical research environment allowing Institute researchers to work closely with other university research organisations including the Monash Institute for Medical Engineering (MIME) and Biomedical Discovery Institute (BDI) and CSIRO, one of Australia’s leading multi-disciplinary research institutions. The vision promoted at ARM is to exploit and connect the multi-disciplinarity of its groups, aligning their complementary capacities around key research pipelines; Heart and muscle development and regeneration, Immunity and Regeneration, Stem cells and Regeneration and Neural regeneration.

Of particular importance for this position is the establishment of the Victorian Heart Hospital (VHH) on the Monash University Campus. The VHH will enable world class research and education in addition to specialised clinical care with key features including an expanded medical and cardiovascular health research program that builds upon the current activities of both Monash University and the Monash Cardiovascular Research Centre.

The successful applicant will have access to the state-of-the-art clinical and basic science research facilities planned for this hospital and have significant opportunity to shape the research environment of the hospital precinct as it emerges.

An increasing focus on translational research is an integral part of the Institute’s research mission, and individuals that have a demonstrable ability to integrate clinical and basic science elements into a successful translational research program will be highly sought after. The successful candidate will be expected to strengthen the Institute and Monash’s profile and research networks both from an internal and external perspective, engaging with the wider cardiovascular research community, locally, nationally and internationally.

The successful applicant will have access to state-of-the-art technological core facilities within the university, which include but are not restricted to flow cytometry, advanced molecular preclinical and clinical imaging facilities, light-based micro-imaging and state-of-the-art animal facilities.

Further details are available from:
Prof. Peter Currie, Director, peter.currie@monash.edu

To Apply: Applicants should submit an expression of interest including a cover letter, curriculum vitae, a list of publications (indicating ten most significant publications), a statement of previous research achievements, a research plan (maximum 8 pages/font 12) and a list of at least three reference persons, all in a pdf binder. Your complete submission, referenced “ARMI Research Group Leader in Cardiovascular Research” should be sent to sandra.fernandes@monash.edu by 29th July 2016.

We look forward to receiving your application!

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**Postdoctoral Fellow Position**
Rush University Medical Center, Chicago IL USA.


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**DIRECTOR FOR THE THOMAS JEFFERSON NATIONAL ACCELERATOR FACILITY (JEFFERSON LAB)**

Jefferson Science Associates, LLC (JSA) invites nominations and applications for the position of Lab Director for the Department of Energy’s Thomas Jefferson National Accelerator Facility (Jefferson Lab) in Newport News, Virginia. The JSA Board seeks a strong and visionary scientific leader with effective management skills and who enjoys stature among peers in the scientific and lab communities.

The successful candidate will be responsible for leading and managing all Lab initiatives and activities in support of a world-class research facility, including its strategic and long-range planning and its building of a comprehensive external relations program to serve and promote the interests of the lab and its users. Reporting to the JSA Board, the Director is the Chief Executive Officer of Jefferson Lab and is responsible for the Lab’s 700-plus staff and total annual budget of approximately $100 million.

Jefferson Lab (www.jlab.org) is a national laboratory for nuclear physics research. As a user facility for scientists worldwide, its primary mission is to conduct basic research to advance the understanding of the fundamental constituents of the atomic nucleus and their interactions. The tools for probing the structure of the nucleus are the Lab’s Continuous Electron Beam Accelerator Facility (CEBAF) and the advanced particle-detection and ultra-high-speed data-acquisition equipment in four experimental halls. The lab is now completing a major, $338 million upgrade of the electron accelerator from 6 GeV to 12 GeV with addition of the fourth experimental hall to specifically investigate exotic structures. The international user community includes over 1,500 scientists over half of whom are actively involved in the Lab’s experimental program.

JSA (www.jsaalle.org) is a joint venture comprised of the Southeastern Universities Research Association (SURA) and Pacific Architects and Engineers (PAE). JSA was created specifically to manage and operate Jefferson Lab for the Nuclear Physics User Community, so its members can continue to conduct innovative research. SURA is the university consortium that propelled Jefferson Lab into the forefront of nuclear and hadronic physics as well as in superconducting radiofrequency technologies. PAE is a global leader in providing enduring support for the essential missions of the U.S. government, its allied partners and international organizations.

Nominations, applications, and inquiries should be directed to: Donald Geesaman, Chair; Director Search Committee; c/o SURA; 1201 New York Avenue, NW; Suite 430; Washington, DC 20005 or to directorsearch@sura.org. For timely consideration, submit an outline of qualifications and accomplishments and a curriculum vitae by 15 August 2016. Candidate must be willing and able to obtain a federal security clearance. Hugh Montgomery will continue to lead the lab until a suitable candidate is identified.

JSA is an Equal Opportunity, Affirmative Action Employer.