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Les sciences de l'ingénieur

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ETH

Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

Professor of Systems Neuroscience

Professor of Neurogenetics

The Department of Health Sciences and Technology (*www.hest.ethz.ch*) at ETH Zurich invites applications for the above-mentioned positions.

Professor of Systems Neuroscience: The Department is looking for an outstanding neurobiologist to establish a strong and dynamic research program in the field of systems neuroscience. The research is expected to focus on the molecular and cellular mechanisms of complex functions of the nervous system, both in health and disease. The successful candidate should have an outstanding international reputation and visibility, and a strong track record. He or she is expected to develop an original, interdisciplinary and exciting research program. Solid expertise in molecular and cellular biology at the level of entire organisms, in combination with developmental biology, neurophysiology, neuroimaging and/or behavioral science is expected. Professor of Neurogenetics: Candidates are expected to build a solid and independent research program that studies the relationship between the genome and/or epigenome, and functions of the nervous system, neurodevelopmental processes or behavior, and the underlying molecular and cellular mechanisms, both in health and disease. Strong expertise in genetics and/or epigenetics at the level of whole organisms, a solid background in molecular biology, physiology, behavioral and cognitive neurosciences is required. The successful candidate should have an excellent track record in the field of neurogenetics. Translation to humans and/or clinical applications is a plus.

For both positions, expertise in the design and use of animal and cellular models, and of state-of-the-art in vitro and in vivo methods of analyses are highly desired. Both candidates shall undertake leadership functions in research, including the mentoring of junior group leaders, and participate in teaching at undergraduate and postgraduate level in the fields of neurobiology, cell biology, and biomedical sciences. They are also expected to establish links with the clinic, and contribute to translational research and the transfer of knowledge and technology to the medical field. The successful candidates will teach at the undergraduate (German or English) and graduate (English) level.

The new professors will be member of the Department of Health Sciences and Technology and will strengthen neurosciences in this Department. They are also expected to reinforce cooperation with other strategic research areas in the Department that include medical engineering, movement sciences and sport, as well as food and nutrition. Together with the Neuroscience Centre Zurich and Life Science Zurich, two research and teaching platforms, the Department offers outstanding opportunities to build an interdisciplinary research program and provides multiple technology platforms including genomics, epigenomics and proteomics facilities, animal and human imaging centers, advanced microscopy platforms and animal facilities. Besides direct contact with other groups in the Department, multiple opportunities for interaction with researchers in the Department of Biology, and clinical research at the Medical Faculty of the University of Zurich and at local hospitals are provided through an active and lively academic community, and research consortia such as SystemsX.ch and National Centers of Competence in Research (NCCRs).

Please apply online at *www.facultyaffairs.ethz.ch*

Applications should include a curriculum vitae, a list of publications, and a statement of future research and teaching interest. The letter of application should be addressed **to the President of ETH Zurich, Prof. Dr. Ralph Eichler. The closing date for applications is 31 October 2013.** ETH Zurich is an equal opportunity and family friendly employer and is further responsive to the needs of dual career couples. In order to increase the number of women in leading academic positions, we specifically encourage women to apply.

Bild: Das Titelbild zeigt einen farblich veränderten Ausschnitt aus einer Studie (Boeing) zum Bau einer Raumstation mit einer grossen Zahl von Solarzellen, die Sonnenergie in Elektrizität umwandeln. Die elektrische Energie sollte in Form von Mikrowellen zur Erde gelangen. Die Struktur hätte die Ausmasse einer Kleinstadt.