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Eidgenössische Technische Hochschule Zürich Swiss Federal Institute of Technology Zurich

Professor in Environmental Organic Chemistry

The Department of Environmental Sciences (www.env.ethz.ch/index_EN) at ETH Zurich invites applications for a professor position in Environmental Organic Chemistry. The new professor is expected to develop an internationally recognized research program in the field of organic environmental chemistry, with an emphasis on the behavior and fate of organic pollutants in the environment (soils, water, and atmosphere). Research may be focused on persistent organic pollutants, pesticides, on other newly emerging organic micropollutants such as hormones and antibiotics or on biomarkers.

The successful candidate will be expected to teach undergraduate level courses (German or English) and graduate level courses (English) in the field of environmental organic chemistry and the analysis of organic pollutants. Collaboration in research and teaching is expected within the Institute of Biogeochemistry and Pollutant Dynamics and with other groups of the ETH domain and related institutions.

Please submit your application together with a curriculum vitae, a list of publications, a statement of research and teaching interests, and the names and contact information of three possible referees to the President of ETH Zurich, Prof. Dr. Ralph Eichler, Raemistrasse 101, 8092 Zurich, Switzerland, no later than August 31, 2008. With a view toward increasing the number of female professors, ETH Zurich specifically encourages female candidates to apply.



Eidgenössische Technische Hochschule Zürich Swiss Federal Institute of Technology Zurich

Assistant Professor for Assembled Inorganic Materials

ETH Zurich invites applications for an assistant professorship for Assembled Inorganic Materials at the Department of Chemistry and Applied Biosciences (www.chab.ethz.ch/index_EN).

Candidates should demonstrate exceptional potential for developing an innovative research program on the synthesis and detailed functionalization of new inorganic compounds and composites across the nano to macro size domains. Specific areas of interest include the design of individual particles and modification of their surfaces for specific functional properties by chemical bottom-up processes as well as the assembly of functionalized units into hierarchical structures and super crystals. Candidates should furthermore contribute to the teaching program of the Laboratory of Inorganic Chemistry. Courses at Master level may be taught in English.

Assistant professorships have been established to promote the careers of younger scientists. The initial appointment is for four years with the possibility of renewal for an additional two-year period.

Please submit your application together with a curriculum vitae, a list of publications, a list of on-going projects, and a detailed research plan to the President of ETH Zurich, Prof. Dr. Ralph Eichler, Raemistrasse 101, 8092 Zurich, Switzerland, no later than August 31, 2008. With a view toward increasing the number of female professors, ETH Zurich specifically encourages female candidates to apply.



Eidgenössische Technische Hochschule Zürich Swiss Federal Institute of Technology Zurich

Assistant Professor in Applied Mathematics

The Department of Mathematics at ETH Zurich (www.math.ethz.ch) invites applications for an assistant professor position in Applied Mathematics. The vacant position is within the Seminar for Applied Mathematics, SAM (www.sam.math.ethz.ch).

The future professor should have an exceptional research potential in some area of applied mathematics. Particular attention will be given to numerical analysis and computational mathematics, preferably complementing current research directions at the SAM.

The prospective responsibilities of the successful candidate include research and teaching in numerical analysis and computational mathematics for students of mathematics, engineering and natural sciences on all levels. There is the possibility to lead his or her own research group within the SAM. The candidate will be expected to teach undergraduate level courses (German or English) and graduate level courses (English).

Assistant professorships have been established to promote the careers of younger scientists. Initial appointment is for four years, with the possibility of renewal for an additional two-year period.

Please submit your application together with a curriculum vitae and a list of publications to the President of ETH Zurich, Prof. Dr. Ralph Eichler, Raemistrasse 101, 8092 Zurich, Switzerland, no later than September 15, 2008. With a view towards increasing the proportion of female professors, ETH Zurich specifically encourages female candidates to apply.



Eidgenössische Technische Hochschule Zürich Swiss Federal Institute of Technology Zurich

Professor of Mechanics

The Department of Mechanical and Process Engineering at ETH Zurich invites applications for a Professorship in Continuum Mechanics at the Full or Associate Professor level.

The candidate should develop an exceptional research program with a particular emphasis on the development of constitutive equations and implementation on mechanical systems using modern numerical methods for specific applications. Possible focus areas are: Modeling of biological materials, modeling of manufacturing processes, or the combination of nano and continuum mechanics. Teaching duties include the participation in both introductory and advanced courses in mechanics for students of the programs of Mechanical and Process Engineering, Civil Engineering, and Electrical Engineering and Information Technology. Advanced courses focus on the basic principles of continuum mechanics and their application to concrete problems. The new professor will be expected to teach undergraduate level courses (German or English) and graduate level courses (English).

Apart from a PhD degree, the successful candidate must have an excellent track record in research and teaching in the above mentioned field. Furthermore, the willingness and ability to collaborate with colleagues in and outside of ETH Zurich as well as with the industry is a prerequisite.

Please submit your application together with a curriculum vitae and a list of publications to the President of ETH Zurich, Prof. Dr. Ralph Eichler, Raemistrasse 101, 8092 Zurich, Switzerland, no later than September 30, 2008. With a view towards increasing the proportion of female professors, ETH Zurich specifically encourages female candidates to apply.



Eidgenössische Technische Hochschule Zürich Swiss Federal Institute of Technology Zurich



Professor in Experimental Condensed Matter Physics and Head of Laboratory for Neutron Scattering

The Department of Physics at ETH Zurich (www.phys.ethz.ch) and the Paul Scherrer Institute (www.psi.ch) invite applications from candidates who pursue a strong research program using neutron scattering techniques with particular emphasis on modern materials such as strongly correlated electron systems. The new professor will hold the position of Head of the Laboratory for Neutron Scattering at the Paul Scherrer Institute (PSI) in Villigen, in a joint appointment between ETH Zurich and PSI. Teaching at ETH Zurich involves contributions to the physics curriculum at the Bachelor level and advanced courses on condensed matter physics in the Master's program. He or she will be expected to teach undergraduate level courses (German or English) and graduate level courses (English).

The Department of Physics and the Paul Scherrer Institute offer a stimulating environment in experimental, theoretical, and computational condensed matter physics and provide access to first class experimental facilities (Swiss Spallation Neutron Source, Swiss Light Source, and Swiss Muon Source).

Please submit your application together with a curriculum vitae, a list of publications, and a brief statement of present and future research interests to the President of ETH Zurich, Prof. Dr. Ralph Eichler, Raemistrasse 101, 8092 Zurich, Switzerland, no later than September 30, 2008. With a view towards increasing the proportion of female professors, ETH Zurich and PSI specifically encourages female candidates to apply.



Eidgenössische Technische Hochschule Zürich Swiss Federal Institute of Technology Zurich

Professor of Infrastructure Management

The Department of Civil, Environmental and Geomatic Engineering (www.baug.ethz.ch) invites applications for a full professor position in Infrastructure Management. The chair will be expected to provide academic leadership at the highest level in the field of infrastructure management and conservation using methodological and life-cycle oriented approaches. Research activities will focus on the quantitative formulation, application, and further development of engineering models. The interdisciplinary activities require an integrative and communicative person with a proven capacity for productive collaboration with eminent practitioners from the global engineering community.

The chair will be responsible for teaching Bachelor, Master, and Doctoral students in Infrastructure Management comprising the current basic principles and methods of systems engineering, project assessment and management as well as infrastructure and conservation management for both networks and individual objects.

The successful candidate has a PhD, preferably in engineering, as well as an outstanding record of research and practice in Infrastructure Management.

He or she will be expected to teach undergraduate level courses (German or English) and graduate level courses (English).

Please submit your application together with a curriculum vitae, a list of publications, and a list of completed projects to the President of ETH Zurich, Prof. Dr. Ralph Eichler, Raemistrasse 101, 8092 Zurich, Switzerland, no later than September 30, 2008. With a view towards increasing the proportion of female professors, ETH Zurich specifically encourages female candidates to apply.



Assistant Professor of Architecture and Design

The Department of Architecture of ETH Zurich (www.arch.ethz.ch) invites applications for an Assistant Professorship in Architecture and Design.

Teaching duties include the theoretical and methodological foundations, as well as specialist information in the field of architecture and design. It covers the area of integrated building planning with complex construction tasks and its relationship to urban planning. In the framework of courses for bachelor's and master's degrees, the teaching duties involve holding design classes, as well as lectures and seminars focusing on theoretical and methodological aspects of architecture. The research work is related to the further development of the entire field; its results are intended to be fruitful for teaching.

The new professor will be expected to teach undergraduate level courses (German or English) and graduate level courses (English).

The candidate is expected to have completed a degree in architecture and has to have professional experience in planning and implementing high-quality buildings. Teaching experience is desirable, as well as an interest in contributing to the course program and in the further development of educational models. An important aspect is an ability to lead a group of colleagues and an ability and willingness to become involved in concerns and activities of the Department that go beyond the candidate's own specialized field.

This assistant professorship has been established to promote the careers of younger scientists. Initial appointment is for four years, with the possibility of renewal for an additional two-year period.

Please submit your application together with a curriculum vitae, a list of publications, and a list of completed projects to the President of ETH Zurich, Prof. Dr. Ralph Eichler, Raemistrasse 101, 8092 Zurich, Switzerland, no later than September 30, 2008. With a view towards increasing the proportion of female professors, ETH Zurich specifically encourages female candidates to apply.



Professorship in High Power Electronics and the Technology of Electrical Power Systems

The Department of Information Technology and Electrical Engineering (www.ee.ethz.ch/en/home.html) at ETH Zurich invites applications for a full professor position in High Power Electronics and the Technology of Electrical Power Systems. The responsibilities of this position include research and teaching in the area of power electronics converter systems and technologies with the long-term goal of a fundamental transformation of the existing infrastructure for transmission and distribution of electrical energy into a highly stable, highly efficient and extremely secure system, integrating a large share of renewable energy sources and storage capabilities. The focus will be on the theoretical and experimental analysis of high power converter systems and on the physically well-founded, multi-domain modelling and simulation of the circuits, thermal and electromagnetic properties at different levels of abstraction. Further research topics include the technological basics of new concepts for the transmission of very large quantities of electrical power as well as the simultaneous distribution of different energy carriers, i.e. multi-carrier systems.

Candidates must hold a PhD degree and should have established an internationally recognized research record in the area. Furthermore, they should present evidence of their leadership in a research team and of their ability to successfully collaborate with other faculties as well as with the industry. He or she will be expected to teach undergraduate level courses (German or English) and graduate level courses (English).

Applications should include a curriculum vitae, a list of publications, a list of research activities, a research statement, and the names of at least three referees and should be submitted to the **President of ETH Zurich**, **Prof. Dr. Ralph Eichler**, **Raemistrasse 101**, **8092 Zurich**, **Switzerland**, **no later than October 15**, **2008**. With a view toward increasing the number of female professors, ETH Zurich specifically encourages qualified female candidates to apply.



Professor in Biomicro- or Bionanotechnology

Assistant Professor (Tenure Track) in Biomicroor Bionanotechnology

ETH Zurich invites applications for two positions in Biomicro- or Bionanotechnology at the Department of Biosystems Science and Engineering in Basel (www.dbsse.ethz.ch). The future professor is expected to develop a strong and visible research program in the area of Microtechnology or Nanotechnology that is relevant to Systems Biology. Research topics include, but are not limited to techniques for single-cell handling (growth and storage), characterization, and targeted manipulations, fluidic techniques for massively parallel cell assays or tissue engineering, dosage and synthesis of bio-relevant compounds, functional (nano) biomaterials, or nanotechnological approaches to subcellular-resolution analysis and manipulation.

Candidates should have an excellent track record in Biomicro-technology, Bionanotechnology, Biophysics, Bioengineering, or related disciplines. The ideal applicant should have been successful in obtaining support for independent research projects and a strong publication record reflecting innovative, interdisciplinary, and collaborative approaches to important problems in biology or medicine. In addition, the ability to lead a research group and a commitment to teaching are expected. He or she will be expected to teach undergraduate level courses (German or English) and graduate level courses (English).

The positions can be filled either at full professor, associate or assistant professor level, depending on the age, scientific experience, and record of the applicant. Assistant professorships have been established to promote the careers of younger scientists. Their initial appointment is for four years with the possibility of renewal for an additional two-year period and promotion to a permanent position.

Please submit your application together with curriculum vitae, a list of publications, and a statement on future teaching and research activities to the President of ETH Zurich, Prof. Dr. Ralph Eichler, Raemistrasse 101, 8092 Zurich, Switzerland, no later than October 31, 2008. With a view toward increasing the number of female professors, ETH Zurich specifically encourages female candidates to apply.



Professor in Synthetic Organic Chemistry

Professor in Chemical Biology

ETH Zurich invites applications for two faculty positions in Synthetic Organic Chemistry (1) and Chemical Biology (2) in the Laboratory of Organic Chemistry (www.chab.ethz.ch) at the senior level.

The research program of the candidates should focus either on the discovery and development of novel synthesis methods and strategies or on the application of chemical methods to study biological problems. He or she will be expected to teach undergraduate level courses (German or English) and graduate level courses (English) in organic chemistry.

The ideal candidates should have a proven record of successful, internationally recognized research programs, excellence in teaching, and a willingness to collaborate within and outside ETH Zurich.

Please submit your application together with a curriculum vitae, a list of publications, and a statement on future teaching and research activities to the President of ETH Zurich, Prof. Dr. Ralph Eichler, Raemistrasse 101, 8092 Zurich, Switzerland, no later than October 15, 2008. With a view toward increasing the number of female professors, ETH Zurich specifically encourages female candidates to apply.



Eidgenössische Technische Hochschule Zürich Swiss Federal Institute of Technology Zurich

Professor in Heterogeneous Catalysis Engineering

ETH Zurich invites applications for a faculty position in Heterogeneous Catalysis Engineering at the Institute of Chemical and Bioengineering Sciences (www.chab.ethz.ch) at the senior level.

Candidates should demonstrate exceptional potential to develop an innovative research programme in the area of heterogeneous catalysis and be willing to cooperate within and outside ETH Zurich. He or she will be expected to teach undergraduate level courses (German or English) and graduate level courses (English) in chemical engineering and chemistry.

The ideal candidate should have a proven record of a successful, internationally recognized research program, as well as an excellence in teaching.

Please submit your application together with a curriculum vitae, a list of publications, and a statement on future teaching and research activities to the President of ETH Zurich, Prof. Dr. Ralph Eichler, Raemistrasse 101, 8092 Zurich, Switzerland, no later than November 15, 2008. With a view towards increasing the number of female professors, ETH Zurich specifically encourages female candidates to apply.



Eidgenössische Technische Hochschule Zürich Swiss Federal Institute of Technology Zurich

Professor in Integrative Risk Management

The Department of Management, Technology, and Economics at ETH Zurich (www.mtec.ethz.ch) invites applications for a professorship in Integrative Risk Management.

Integrative Risk Management (IRM) is an emerging concept aiming at concurrently managing a portfolio of natural, technical, economical, and social risks for a specific geographic region and/or event. It starts with identifying and understanding risks, leading to a comprehensive risk map and transfers the results to an aggregated risk metrics. IRM selects portfolios of risk-mitigation activities and designs novel collaboration schemes for networks of government, industry and private agents. This allows the evaluation of a mixture of prevention, recovery, and risk transfer actions, resulting in an optimal balance of public and private contributions to risk management, aiming at a more resilient society.

Zurich is one of the major European financial markets with a strong presence of leading reinsurance companies. ETH Zurich just started an initiative to establish a world-leading inspiring nucleus for IRM, which develops, implements, and disseminates knowledge and tools for cross-risk measurement and aggregation. The new chair will have a key role in the IRM initiative and benefit from the strong interest of the finance and insurance sector for close collaboration and interaction between financial practice and academia.

Applicants have a PhD in risk or actuarial science management, mathematics, quantitative finance, sociology, statistical science, or a closely related field, such as economics, or affective computing, which is proofed with an outstanding record of high-quality research with an emphasis on cross-disciplinary approaches to understand complex, adaptive systems. They have experience in risk measurement and aggregation, in design of portfolios of mitigation activities, or in other emerging fields of risk management.

Applicants should have connections to public administration and/or industry and a willingness to establish a network to government agencies, the private sector, and other risk professionals. The candidate should have a strong personality and a capability to inspire students and professionals for path-breaking work in the area of integrative risk management. This may result in the establishment of a new program in integrative risk management at master level. He or she will be expected to teach undergraduate level courses (German or English) and graduate level courses (English). Initiatives to develop novel teaching modules and/or a course in IRM are very welcome.

The professorship is funded by Swiss Re.

Please submit your application together with a letter of intent including a statement of teaching and research philosophy, public service interests and industry collaborations, a curriculum vitae, a list of publications, and a list of three references to the President of ETH Zurich, Prof. Dr. Ralph Eichler, Raemistrasse 101, 8092 Zurich, Switzerland, no later than October 31, 2008. With a view towards increasing the proportion of female professors, ETH Zurich specifically encourages female candidates to apply.

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