

**Zeitschrift:** Bulletin / Vereinigung der Schweizerischen Hochschuldozierenden = Association Suisse des Enseignant-e-s d'Université  
**Herausgeber:** Vereinigung der Schweizerischen Hochschuldozierenden  
**Band:** 39 (2013)  
**Heft:** 2

## **Endseiten**

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Eidgenössische Technische Hochschule Zürich  
Swiss Federal Institute of Technology Zurich

## Assistant Professor (Tenure Track) of Chemical Engineering

The Institute of Chemical and Bioengineering Sciences of the Department of Chemistry and Applied Biosciences at ETH Zurich ([www.chab.ethz.ch](http://www.chab.ethz.ch)) invites applications for the above-mentioned position. The successful candidate should demonstrate a strong background in chemical engineering and chemistry and the potential to develop an ambitious, world-class program in emerging areas of chemical engineering with focus on sustainability, risk analysis, and product- and process technology.

Candidates should have a PhD degree in chemical engineering or a related field and have an excellent international record of accomplishments. The new professor should be motivated and committed to teach undergraduate level courses (German or English) and graduate level courses (English) in chemical engineering.

This assistant professorship has 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 and promotion to a permanent position.

Please apply online at [www.facultyaffairs.ethz.ch](http://www.facultyaffairs.ethz.ch)

Applications should include a curriculum vitae, a list of major achievements, a list of refereed publications and a statement of your future research and teaching interests. The letter of application should be addressed to the President of ETH Zurich, Prof. Dr. Ralph Eichler. The closing date for applications is 30 November 2013. ETH Zurich is an equal opportunity and affirmative action employer. In order to increase the number of women in leading academic positions, we specifically encourage women to apply. ETH Zurich is further responsive to the needs of dual career couples and qualifies as a family friendly employer.



Eidgenössische Technische Hochschule Zürich  
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## Assistant Professor (Tenure Track) of Computational Modeling of Materials in Manufacturing

The Department of Mechanical and Process Engineering ([www.mavt.ethz.ch](http://www.mavt.ethz.ch)) at ETH Zurich invites applications for the above-mentioned position. The goal of the professorship is to establish an outstanding, interdisciplinary research program on material aspects in manufacturing processes. A strong focus should be placed on the development of computational material models on different scales as well as on methods for process optimization both of which are closely coupled to real industrial processes.

Prospective candidates should not only provide an outstanding research profile but also industrial experience in the field of mass-production. The candidate should be familiar with the latest computational and experimental methods and tools. He or she should have an outstanding international reputation in at least one manufacturing process and/or in material sciences and/or structural mechanics. The candidate should be able to apply the computational methods to develop innovative manufacturing processes in a systematic manner. They should have a clear vision of the future of innovative materials in production and production systems, including all aspects of manufacturing. Additional prerequisites are a strong motivation and commitment to cooperation with industry, and to undergraduate and graduate student education in the field of manufacturing including project based learning. The professorship will be embedded in the Department's undergraduate and graduate program in Mechanical and Process Engineering and join the different Master programs. The professor will be expected to teach undergraduate level courses (German or English) and graduate level courses (English).

Please apply online at [www.facultyaffairs.ethz.ch](http://www.facultyaffairs.ethz.ch)

Applications should include a curriculum vitae, a list of major achievements and refereed publications, and a statement of future research and teaching interests. 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.



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## Assistant Professor (Tenure Track) of Experimental Geochemistry / Mineral Physics

The Department of Earth Sciences ([www.erdw.ethz.ch](http://www.erdw.ethz.ch)) at ETH Zurich invites applications for the above-mentioned professorship.

The successful candidate is an experimentalist with complementary theoretical background to lead investigations on the structure, physical and chemical properties of natural materials, with innovative applications to Earth and Planetary Sciences. The new professor will develop a dynamic research programme directed at understanding the properties and behaviour of Earth materials from the global to the atomic scale. The programme may include experiments at elevated temperatures and pressures and may be complemented by in-situ observations of natural and experimental materials (e.g. synchrotron and other microbeam methods) and/or theoretical modelling of physical chemistry. Potential fields of research include the physical properties of crystalline substances, the transport properties and physical chemistry of melts and fluids, the kinetics of phase transitions or the characterisation of isotopic fractionations operating from the interior to the surface of planets.

He or she will join the Institute of Geochemistry and Petrology and is expected to initiate cooperative research programmes with other groups at ETH and related institutions. The new professor and his or her research group will contribute to introductory and advanced courses on crystallography, mineralogy and the physical chemistry of materials of the Earth's surface and interior. The professor will be expected to teach undergraduate level courses (German or English) and graduate level courses (English).

This assistant professorship has 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 and promotion to a permanent position.

Please apply online at [www.facultyaffairs.ethz.ch](http://www.facultyaffairs.ethz.ch)

Applications should include a curriculum vitae, a list of publications, a statement of your research and teaching interests and the names of three potential referees. The letter of application should be addressed to the **President of ETH Zurich, Prof. Dr. Ralph Eichler**. The closing date for applications is **30 September 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.



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## Professor of Mathematics

The Department of Mathematics at ETH Zurich ([www.math.ethz.ch](http://www.math.ethz.ch)) invites applications for a position in an algorithmic area of mathematics related to optimization. The duties of the future professor include teaching in mathematics and related areas.

We are seeking candidates with an internationally recognized research record and with proven ability to direct research of highest quality. Expertise and a strong background in optimization and/or computation will be especially appreciated. Willingness to teach at all university levels and to collaborate with colleagues from departments outside mathematics is expected.

Together with the colleagues from the department, the new professor will be responsible for undergraduate courses in mathematics at ETH Zurich for students of mathematics, engineering and natural sciences, and for graduate courses in the programs MSc in Applied Mathematics, MSc in Computational Science and Engineering, MSc in Statistics, and MSc in Quantitative Finance (joint degree with the University of Zurich). The successful candidate will be expected to teach undergraduate level courses (German or English) and graduate level courses (English).

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**Herausgeber und Verlag/Editeur:**

Vereinigung der Schweizerischen Hochschuldozierenden  
 Association Suisse des Enseignant-e-s d'Université  
 Associazione Svizzera dei Docenti Universitari  
 Generalsekretariat: Prof. Dr. Gernot Kostorz  
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 Homepage: [www.hsl.ethz.ch](http://www.hsl.ethz.ch)  
 PC-Konto / ccp 80-47274-7

*Nachdruck mit Quellenangabe gestattet*

**Redaktion/Rédaction:**

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**Layout:**

Grafikbüro ETH, Rämistrasse 101, HG E 39, 8092 Zürich, E-Mail: [grafik@ethz.ch](mailto:grafik@ethz.ch)

**Druck/Imprimerie:**

Druckzentrum ETH Zürich, 8092 Zürich

**Anzeigen/Annonces:**

Generalsekretariat

Preise: Stellenanzeigen/Postes à pourvoir: CHF 250 (1/2 Seite/page), CHF 500 (1 Seite/page),  
 andere Annoncen/autres annonces: CHF 500/1000

**Mitgliederbetreuung, Adressen/****Service membres, adresses:**

Generalsekretariat

Das Bulletin erscheint drei- bis viermal im Jahr und wird gratis an die Mitglieder versandt.  
 Abonnements (CHF 65 pro Jahr inkl. Versand Schweiz) können beim Verlag bestellt werden.  
 Le Bulletin apparaît trois à quatre fois par an et est distribué gratuitement aux membres.  
 Des abonnements sont disponibles auprès de l'éditeur (CHF 65 par an, frais de port compris en Suisse).

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*Herausgegeben mit Unterstützung der Schweizerischen Akademie der Geistes- und Sozialwissenschaften (SAGW)  
 Publié avec le soutien de l'Académie suisse des sciences humaines et sociales (ASSH)*



Mitglied der Schweizerischen Akademie  
 der Geistes- und Sozialwissenschaften  
[www.sagw.ch](http://www.sagw.ch)

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Swiss Federal Institute of Technology Zurich

## Professor or Assistant Professor (Tenure Track) of Building Systems

The Department of Architecture ([www.arch.ethz.ch](http://www.arch.ethz.ch)) at ETH Zurich invites applications for the above-mentioned professorship.

Within the Bachelor programme, the professorship conveys the basics of building systems in a manner geared to meet the needs of architects. Knowledge of efficient and sustainable building systems is taught by introducing various concepts and their architectural implementation. In the Master programme, the acquired knowledge is applied and certain aspects of building systems are explored in greater depth by dealing with specific issues. Along with motivation and proficiency in teaching, the candidate is expected to show commitment to linking design and specialised studies and also to contribute to the doctoral studies programme. The new professor will be expected to teach undergraduate level courses (German or English) and graduate level courses (English).

Research shall further develop the entire subject area. The professorship is geared towards the architectural profession's scope of responsibility, building practice, and the state of development of building technology. Alongside current research focused on Zero Emission Architecture and Building Services Information Modeling, the application of theories to decentralized LowEx systems, constructional practice, and optimizing the operation of technical facilities through innovative systems are also priorities. Taking into consideration the increasingly complex requirements of the construction industry, new architectural strategies are developed and transdisciplinary cooperative alliances are promoted.

Candidates must have completed a university degree, usually possess a doctorate, and have experience in designing and constructing buildings of high quality. Further prerequisites are expertise in the integral planning of diverse projects, knowledge of the building systems trades of significant relevance to architecture (heating, ventilation, plumbing, and energy systems), and the ability to direct interdisciplinary research projects. Research experience is an advantage. The ideal candidate is curious and keenly interested in experimentation, and is engaged in this activity in a commitment towards the development of the discipline.

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Applications should include a curriculum vitae, a list of publications, and a table of completed projects. The letter of application should be addressed to the President of ETH Zurich, Prof. Dr. Ralph Eichler. The closing date for applications is 31 August 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.



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## Assistant Professor of Mathematics

The Department of Mathematics at ETH Zurich ([www.math.ethz.ch](http://www.math.ethz.ch)) invites applications for an assistant professor position in mathematics. Candidates should hold a PhD or equivalent and have demonstrated the ability to carry out independent research work. The new professor will be expected to teach undergraduate (German or English) and graduate courses (English) for students of mathematics, natural sciences and engineering.

This assistant professorship has 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.

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