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Professors or Assistant Professors (Tenure Track) of Energy Science and Technology or Chemical/Process Engineering

The Department of Mechanical and Process Engineering (www.mavt.ethz.ch) at ETH Zurich invites applications for the above-mentioned positions.

Successful candidates must demonstrate outstanding accomplishments and future potential in an area of energy science and technology or chemical and process engineering. In addition, exceptional candidates from any field within the domain of mechanical and process/chemical engineering will also be considered. The Department of Mechanical and Process Engineering is committed to world-class interdisciplinary and cutting-edge research that spans from fundamental to applied science and from the atomic to the system scale. The new professors are expected to provide inspiration and leadership in research, contribute proactively to both undergraduate and graduate level teaching, establish an independent research profile while advising doctoral students and mentoring scientific staff, and add to the diversity of the academic community. Generally, at ETH Zurich undergraduate level courses are taught in German or English and graduate level courses in English. Successful candidates should hold a PhD or equivalent degree in mechanical engineering, process/chemical engineering or a related field at the beginning of employment.

Assistant professorships have been established to promote the careers of younger scientists. ETH Zurich implements a tenure track system equivalent to other top international universities. The level of the appointment will depend on the successful candidate's qualifications.

Please apply online: www.facultyaffairs.ethz.ch

Applications should include a curriculum vitae, a list of publications and projects, a statement of future research and teaching interests and a description of the three most important achievements. The letter of application should be addressed to the President of ETH Zurich, Prof. Dr. Lino Guzzella. **Submissions will be reviewed starting on 1 December 2018, but applications are welcome until the positions are filled.** ETH Zurich is an equal opportunity and family friendly employer and is responsive to the needs of dual career couples. We specifically encourage women to apply.

Professor or Assistant Professor (Tenure Track) of Experimental Fluid Mechanics

The Department of Mechanical and Process Engineering (www.mavt.ethz.ch) at ETH Zurich invites applications for the above-mentioned position.

The successful candidate must demonstrate an outstanding record of research and teaching accomplishments in experimental fluid dynamics and show clear potential that he or she can establish an exceptional research programme with a significant experimental component in this field. Topical areas may range from micro-scales (micro-fluid dynamics, molecular fluid-surface interactions) to macro-systems (environmental and industrial flow problems) and broader engineering applications such as energy-related issues, with a strong link to fundamentals. Teaching duties include the participation in both introductory and advanced courses in fluid dynamics both for students in mechanical and process engineering and other non-engineering disciplines at the bachelor level (in German or English) and master level (in English). Apart from a PhD (or equivalent) degree in mechanical engineering or a closely related discipline, the new professor should have demonstrated the capability to work on interdisciplinary projects and to collaborate with professionals from other fields. Furthermore, the willingness and ability to interact with colleagues inside and outside of ETH Zurich is a prerequisite.

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Professors or Assistant Professors (Tenure Track) of Mechanical and Process Engineering

The Department of Mechanical and Process Engineering (www.mavt.ethz.ch) at ETH Zurich invites applications for the above-mentioned positions.

Successful candidates must have outstanding accomplishments and future potential in an area of mechanical and process engineering. The following topical areas or combinations thereof are of particular interest: (i) engineering mechanics: all areas including theory, numerics, experimentation and their applications, (ii) manufacturing: all related disciplines ranging from digitalisation to engineering design to additive manufacturing, advanced laser technologies and novel materials systems and (iii) digitalisation in production: all areas including the development of "smart processes", new algorithmic strategies such as deep learning, artificial intelligence and internet of things. In addition to the above areas, exceptional candidates in any field within the domain of mechanical and process/chemical engineering will also be considered. The Department of Mechanical and Process Engineering is committed to promoting interdisciplinary and cutting-edge research – covering the full range from fundamental to applied – and working to meet societal challenges. The new professors are expected to provide inspiration and leadership in research, contribute proactively to both undergraduate (in German or English) and graduate level (in English) teaching, establish an independent research profile while advising doctoral students and mentoring scientific staff and add to the diversity of the academic community. Successful candidates should hold a PhD or equivalent degree in mechanical engineering, process/chemical engineering or a related field at the beginning of employment.

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Professors or Assistant Professors (Tenure Track) of Computer Science (Security, Software Engineering and Programming Languages)

The Department of Computer Science (www.inf.ethz.ch) at ETH Zurich invites applications for full professorships and/or assistant professorships (tenure track) in computer science with focus on several aspects of Cyber Security, Software Engineering, and Programming Languages.

- Foundations of Cryptography
- Privacy
- Programming Languages/Software Engineering
- Security of IT Infrastructure
- Software Security
- Trustworthy Software

Please apply for only one of the above areas as all applications will be jointly reviewed.

Applicants should be strongly rooted in computer science, have internationally recognized expertise in their field and pursue research at the forefront of computer science. Successful candidates should establish and lead a strong research program. They will be expected to supervise doctoral students and teach both undergraduate and graduate level courses (in German or in English). Collaboration in research and teaching is expected both within the department and with other groups of ETH Zurich and related institutions.

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Please apply online: www.facultyaffairs.ethz.ch

Applications include a curriculum vitae, a list of publications with the three most important ones marked, a statement of future research and teaching interests, the names of three references, and a description of the three most important achievements. The letter of application should be addressed to the **President of ETH Zurich, Prof. Dr. Lino Guzzella**. **The closing date for applications is 5 December 2018.** ETH Zurich is an equal opportunity and family friendly employer and is responsive to the needs of dual career couples. We specifically encourage women to apply.

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