ETH zürich

Professor / Assistant Professor (Tenure Track) of Data-Driven Design and Manufacturing

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

→ The department is committed to promoting interdisciplinary and cutting-edge research – covering the full range from fundamental to applied – and seeks to expand its expertise in the area of data-driven engineering science with particular emphasis on applications in manufacturing and design. Candidates with a strong background in mechanical and process engineering from the following topical areas or combinations thereof are of particular interest: i) digitalization in production and industry 4.0, covering all areas including the development of smart machines and processes; ii) all areas of manufacturing and related disciplines ranging from data-driven approaches on the level of manufacturing execution and enterprise resource planning systems to the application of data science in manufacturing engineering; iii) new algorithmic strategies using deep learning, artificial intelligence, and internet of things as applied to manufacturing and design; iv) digital twins and data-driven simulation, optimization and automation of engineering design processes as well as of manufacturing systems and fabrication lines, and data-driven modelling of manufacturing and related processes.

→ Candidates are expected to provide inspiration and leadership in research, contribute proactively to both undergraduate (in German or English) and graduate-level teaching (in English), establish an independent research profile while advising doctoral students and mentoring scientific staff, and add to the diversity of the academic community. Candidates must hold a Ph.D. or equivalent degree in mechanical engineering, process/chemical engineering, or a related field by 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 that of 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, a description of the leadership philosophy, three key publications, and a description of the three most important achievements. The letter of application should be addressed **to the President of ETH Zurich, Prof. Dr. Joël Mesot. The closing date for applications is 30 November 2022.** ETH Zurich is an equal opportunity and family-friendly employer, values diversity, and is responsive to the needs of dual-career couples.