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.