

Professor / Assistant Professor (Tenure Track) of Micro-  
and Nanoengineering for Health  
ETH Zurich

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Posted Dec. 13, 2024, set to expire Feb. 28, 2025

<b>Job Title</b>	Professor / Assistant Professor (Tenure Track) of Micro- and Nanoengineering for Health
<b>Department</b>	The Department of Mechanical and Process Engineering <a href="https://mavt.ethz.ch">https://mavt.ethz.ch</a>
<b>Institution</b>	ETH Zurich Zurich, , Switzerland
<b>Date Posted</b>	Dec. 13, 2024
<b>Application Deadline</b>	Feb. 28, 2025
<b>Position Start Date</b>	Mar. 1, 2025
<b>Job Categories</b>	Assistant Professor Professor
<b>Academic Field(s)</b>	Mechanical Engineering Bioengineering (all Bio-related fields)
<b>Job Website</b>	<a href="https://ethz.ch/de/die-eth-zuerich/arbeiten-lehren-forschen/faculty.html">https://ethz.ch/de/die-eth-zuerich/arbeiten-lehren-forschen/faculty.html</a>
<b>Apply Online Here</b>	<a href="http://www.facultyaffairs.ethz.ch">http://www.facultyaffairs.ethz.ch</a>
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<b>Job Description</b>	

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.

Micro- and nanoengineering are key drivers in healthcare development. Indeed, micro- and

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nanoengineered materials, such as functionalized drug formulations and implants, and devices, such as for sensing and imaging, can play a crucial role in enhancing the effectiveness and safety of patient treatment, making diagnoses and therapies more efficient and reliable.

The focus of the professorship should strike a balance between fundamental research on micro- and nanoengineering and technology development and their translation related to health applications (exemplified but not limited to functional materials for health, physical, chemical and biochemical sensing, or related imaging, design and monitoring of organ-on-chip technologies). The professorship should also address translational challenges related to engineering scale-up, fabrication, processing, design, system integration, and reliability, leading to clinical studies. It will have access to ETH Zurich technology platforms for material science, fabrication and device integration.

The new professor is expected to establish an ambitious, world-class research program in the field of micro- and nanoengineering for health. We encourage applications from engineers from the entire spectrum from functional materials, medical devices to imaging and biomedical engineering. Candidates should demonstrate a core area of scientific expertise and solid theoretical foundation with a desire for translational and innovation. Experience in the collaboration with clinical partners will be highly valued.

Successful candidates should hold a PhD degree or equivalent in engineering and have an outstanding international record of research accomplishments on the above topics. They will actively participate in undergraduate (in German or English) and graduate (in English) student teaching. This activity will primarily lie within the ETH's B.Sc in Mechanical Engineering and M.Sc. programmes «Mechanical and Process Engineering», «Micro and Nanosystems» and «Biomedical Engineering». The ability to lead a research group is expected.

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.

ETH Zurich is an equal opportunity and family-friendly employer, values diversity, and is responsive to the needs of dual-career couples.

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

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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, a description of the three most important achievements, and a certificate of the highest degree. The letter of application should be addressed **to the President of ETH Zurich, Prof. Dr. Joël Mesot. The closing date for applications is 28 February 2025.**

### Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

**Contact** Prof. Dr. Joël Mesot  
The Department of Mechanical and Process  
Engineering ([www.mavt.ethz.ch](http://www.mavt.ethz.ch))  
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