

## Assistant Professor (Tenure Track) of Methods and Technologies for Molecular and Cellular Systems Engineering

→ The Department of Biosystems Science and Engineering ([www.bsse.ethz.ch](http://www.bsse.ethz.ch)) at ETH Zurich invites applications for the above-mentioned position. The Department is located in Basel, in the heart of the BioValley area, providing excellent opportunities for collaboration within this strong life science research community at the academic, clinical and industrial levels. The Department's main research focus is the understanding, modelling, and engineering of biological systems, which generates numerous opportunities for interactions across the biomedical research landscape.

→ The Department is seeking outstanding candidates developing innovative methods to advance biosystems science and engineering. Building upon current achievements in the field of living therapies, such as molecular, gene and cell therapies and tissue regeneration, the next generation of these therapeutic modalities will include the capacity to precisely manipulate individual cells, tissues, organs, and ultimately whole organisms. Such manipulation will be performed in a dynamic fashion in response to real-time molecular and cellular cues and will possibly lead to fully personalized treatment strategies.

The successful candidate will have expertise in key areas of this multidisciplinary field, such as systems and synthetic biology, material science, molecular systems engineering, or micro- and nanotechnology. Methods of interest include directed evolution and protein engineering, precise genome editing, targeting and delivery of bioactive compounds, assembly or disassembly of cellular systems and tissue, or development of responsive biomaterials and scaffolds and biophysical tools for micro-/nanotechnology. Furthermore, expertise in techniques for quantitative imaging such as optical and fluorescence imaging and label-free imaging are of interest. We particularly encourage applications from candidates developing methods with an explicit promise of innovative solutions for molecular and cellular medicine, and precision or personalized health. Methods that help to rationally assess and manipulate molecular and cellular behaviour are of special interest, for example the targeted delivery of biomolecules to cells and tissue.

At the assistant professor level, commitment to teaching and the ability to lead a research group are expected. The future assistant professor will teach in their area of expertise at the graduate level (courses in English).

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.

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

→ Applications should include a curriculum vitae, a list of publications, a statement of future research and teaching interests, a description of the leadership philosophy, and a description of the three most important achievements, and the names of three references. The letter of application should be addressed **to the President of ETH Zurich, Prof. Dr. Joël Mesot. The closing date for applications is 8 January 2023.** ETH Zurich is an equal opportunity and family-friendly employer, values diversity, and is responsive to the needs of dual-career couples.