

## STI – PhD in Mechanics of Soft and Biological Matter Laboratory

We are excited to invite a passionate and motivated PhD student to join our lab on **non-equilibrium dynamics in in-vitro cell culture systems**. The Mechanics of Soft and Biological Matter Laboratory (MESOBIO) at the Institute of Mechanical Engineering, EPFL, focuses on gaining a fundamental understanding of biological and living systems as well as soft and active materials. We have one available position for a PhD student, focusing on experimental work to understand how mechanical environments lead to pattern formation and phase transition behaviors in in-vitro systems. This position will be highly complementary to ongoing theoretical and computational modeling of biological systems, advancing the fundamental principles governing tissue morphogenesis. Applications will be reviewed until the position is filled.

We welcome applications from candidates with different backgrounds. Preferred skills and qualifications for successful candidates include:

- Bachelor's and/or Master's degree in Bioengineering, Biology, Biophysics, Mechanical Engineering, or Materials Science and Engineering.
- Proven research experience in monolayer or organoid systems.
- Expertise in high resolution microscopy applied to biological samples.
- Prior experience with substrate patterning and/or modulation of substrate stiffness.
- Strong skills in quantitative image analysis on biological systems, including segmentation analysis.
- Excellent communication skills in English, both written and spoken.
- Self-driven and open minded with a strong willingness to explore interdisciplinary research.

We offer a highly competitive salary commensurate with previous experience, accompanied by comprehensive social benefits. All students will have access to state-of-the-art computation and experimental facilities, enabling cutting-edge research opportunities, and they will also have the opportunity to participate in collaborations within multidisciplinary projects

Interested candidates are requested to prepare their application as **a single PDF file**, including a cover letter (maximum 1 page), describing research interests and demonstrating how your background and previous experiences align with the direction of our group, and a comprehensive CV, providing detailed information about your academic and professional background and skills, accompanied by contact information for three references. The application should be directly submitted to Professor Sangwoo Kim ([sangwoo.kim@epfl.ch](mailto:sangwoo.kim@epfl.ch)) with the subject line, "Name: Application for PhD Position". For additional information regarding the position, please feel free to reach out to Professor Sangwoo Kim.