



UNIL | Université de Lausanne
Department of Plant Molecular Biology
Biophore Building
CH-1015 Lausanne

PhD position: Plant mechanobiology

Employment: Fixed term (maximum duration 5 years).

Workplace: Department of Plant Molecular Biology (DBMV), Faculty of Biology and Medicine, University of Lausanne (Dorigny), Switzerland.

Starting date: March. 2023 (negotiable).

Project description: In our research, we aim to understand the implications of mechanical heterogeneities in plant development. We undertake interdisciplinary questions combining genetics and developmental biology with quantitative, biophysical (extensometer, micro-indentation, Atomic Force Microscopy) and computational (MorphoGraphX and modeling) tools. The primary interest of the lab is to understand how the mechanical heterogeneities emerge and how they contribute to the robustness of stems in *Arabidopsis*, and woody plant species.

Environment: Research in the Department of Plant Molecular Biology focuses on the elucidation of molecular mechanisms in plant development, abiotic stress response and biotic interactions. It hosts eight internationally recognized research groups. As part of the Faculty of Biology and Medicine, the Department has access to a number of state-of-the-art technology platforms, including genomics, proteomics, imaging, and bioinformatics core facilities. We are also collaborating with the Swiss Federal Institute of Technology Lausanne (EPFL).

Required: MSc degree or equivalent. The ideal candidate has a background in plant cell and molecular biology, or physics or computational biology. Good command of English (no French skills required).

Application: Please send a motivation letter, curriculum vitae, copy of university degrees/transcripts*, and a list of at least two referees familiar with your qualifications to: Dr. Mateusz Majda, subject: "PhD application (December call)" (Mateusz.Majda@unil.ch).

Further information: visit <https://majdalab.com> or mail Mateusz.Majda@unil.ch

Deadline: Jan. 15, 2022.

*Copy of the university degrees/transcripts is not required before the invitation for interview.