

INSTITUTE FOR MOLECULAR SYSTEMS
ENGINEERING (IMSE)



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Thesis in Mechanobiology: Cell-culture micro-scaffolds for 3D networks

The Institute for Molecular Systems Engineering (IMSE) at Heidelberg University is looking for a talented and curious master student in biology (and related sciences: biochemistry, biotechnology etc.) to carry out an ambitious project in the field of mechanobiology. The project aims to develop novel 3D cell-culture micro-scaffolds, which will alter cell attachment and migration along 3D defined paths. With the use of a Photonic Professional system (Nanoscribe), microarchitectures will be developed in order to study cellular behavior, information transfer and to monitor the entire network activity. The student will be embedded in a stimulating multidisciplinary and international environment and will have the opportunity to learn about cell culture, immunodetection methods, microscopy and data analysis.

If interested please contact:

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