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Opportunity for a Master's thesis in biophysics: Live single-cell mass characterization

The Institute for Molecular Systems Engineering (IMSE) at Heidelberg University is looking for a talented and curious master student in physics to carry out an ambitious project in the field of biophysics. The one-year project aims at designing a new experimental setup to measure the total mass and the dry mass of a single cell at the same time. This can be achieved by coupling a Cytomass Monitor, a cantilever-based instrument, with a Digital Holographic (DHM) camera to simultaneously record both phase and fluorescence images. The student will be embedded in a stimulating multidisciplinary and international environment and will have the opportunity to learn about cell culture, physics and data analysis.

If interested please contact:

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Heidelberg, 24th September 2021