

The Cluster of Excellence *livMatS* develops completely novel, bioinspired materials systems that adapt autonomously to various environments and harvest clean energy from their surroundings. The intention of these purely technical – yet in a behavioral sense quasi-living – materials systems is to meet the demands of humans with regard to pioneering environmental and energy technologies. The societal relevance of autonomous systems and their sustainability will thus play an important role in their development. The research program of *livMatS* is characterized by highly interdisciplinary collaboration between researchers from a broad range of fields including engineering, chemistry, physics, biology, psychology, the humanities, and sustainability sciences.

### **Project Description:**

The SoftLab is looking for you!

The newly established Laboratory for Soft Machines at IMTEK is recruiting two Research Assistants in the framework of the two *livMatS* projects METAINFLATE and SNAPVALVE. Both projects aim at harnessing the nonlinear mechanical response of soft structures and metamaterials to embed functionality in soft robots.

### **Expected candidate profile:**

- You have the equivalent of a Bachelor's degree in STEM
- You are familiar with CAD design (e.g SolidWorks) and 3D printing (FDM, SLA)
- You have basics in Solid Mechanics, Fluid Mechanics and Electrical Engineering
- You have enthusiasm for solving technical problems independently
- Good knowledge of English or German is required
- Familiarity with Python or MATLAB is favorable

### **Please hand in:**

- a short motivation letter (up to 500 words), in which you detail your qualifications regarding the profile as stated above, as well as your reasons why you are interested in this specific project
- a CV in bullet points

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