The Institute of Molecular Systems Engineering at Heidelberg University is offering a

**Doctoral researcher position (f/m/d)**

75%, three years

The position focuses on research in the field of molecular systems engineering at the interface of mechanobiology and biomaterials. In particular, it is planned to investigate the mechanisms of responsive cell adhesion at the molecular level, e.g. by using AFM and fluorescence microscopy. The project is part of the ERC project PHOTOMECH. We offer a creative and inspiring environment for experimental approaches and interesting research in the field of molecular systems engineering. Moreover, we highly encourage and provide opportunities for new ideas and projects.

**Tasks:**
- Design, planning and realization of experiments for mechanically stimulating cells by photoswitchable molecules
- Data analysis
- Presentations on conferences and publications in peer-reviewed journals
- General tasks in research and teaching in molecular systems engineering
- Planning and execution of collaborations with research partners.

**Your qualifications:**
- Master degree (or equivalent), ideally in (bio)physics, but we are also open for applications from related disciplines
- Interest and experience in working in an interdisciplinary research field
- Creativity and ideas for new and unconventional solutions
- Very good English language skills, very good communication skills
- Strong (self-)motivation, commitment, ability to work independently as well as in a team

The salary corresponds to the level of E 13 TV-L of the German public service salary scale.
Heidelberg University aims at increasing the number of women in research and academic teaching and strongly encourages applications of accordingly qualified women. Women will be preferred, provided equal qualifications and scientific performance.

We also support the employment of severely disabled persons. Therefore, severely disabled persons will be preferred, provided equal qualifications and scientific performance.

Application deadline is **November 15, 2021.**

Please send your application (including CV, motivation letter, certificates, publication list, two reference contacts) to Prof. Christine Selhuber-Unkel (selhuber-unkel@uni-heidelberg.de). If you have any technical questions about the requirements profile and the associated tasks, please contact Prof. Selhuber-Unkel as well.

Heidelberg University stands for equal opportunities and diversity. Disabled persons will be given preference if they are equally qualified. Information on job postings and the collection of personal data is available at [www.uni-heidelberg.de/stellenmarkt](http://www.uni-heidelberg.de/stellenmarkt)