



# Max-Planck-Institut für Dynamik und Selbstorganisation

Max Planck Institute for Dynamics and Self-Organization



At the department Dynamics of Complex Fluids headed by Prof. Dr. Stephan Herminghaus we seek to fill

## Postdoctoral Positions (m/f)

within a research group working in the field of

## Experimental Biophysics.

The Max Planck Institute for Dynamics and Self-Organization at Göttingen, Germany, is an international research institute. It performs both experimental and theoretical fundamental scientific research and currently employs about 300 people.

### The research

The research group “Physics of Soft and Living Matter” headed by Dr. Oliver Bäumchen has established a variety of experimental methods including force spectroscopy, lab-on-a-chip and advanced optical microscopy techniques. Experimental facilities as well as travel funds will be available.

The successful candidates will design and conduct force measurements on living cells. We seek to understand how flagella functions, e.g. motility and surface adhesion, are regulated by light. In particular, we aim at capturing the principles of the light-switchable adhesion of photoactive microbes to surfaces – from photoreception, signal transduction to the adhesion-mediating proteins. We employ a highly innovative micropipette force sensor technique and work in close collaboration with experts from biology regarding the genetic and metabolic control of microbial functionalities.

### Your profile

We are looking for excellent, enthusiastic and self-motivated researchers with good communication skills to join our research team. The researchers should have PhD in physics, biophysics or related disciplines and a solid background as well as interest in active matter physics and / or biophysics.

Expertise regarding experimental techniques and data analysis are required, programming skills (e.g. Matlab) are highly desirable. Fluency in both written and spoken English is required; German is an asset.

### Our offer

We are offering excellent working conditions in a highly international and interdisciplinary research environment. The postdoctoral positions are limited to two years. Salary and working hours are in accordance with the funding guidelines of the Max Planck Society for scientists. Working hours are fulltime; salary is E13 TVöD-Bund. Furthermore, we offer opportunities regarding work life balance as well as health promotion services. The starting date is flexible, but should start as soon as possible.

The Max-Planck Society is committed to increasing the number of individuals with disabilities in its workforce and therefore encourages applications from such qualified individuals. Furthermore, the Max Planck Society seeks to increase the number of women in those areas where they are underrepresented and therefore explicitly encourages women to apply.

### Your application

To apply, please follow this link with the reference no **MPIDS-W031**:

[https://s-lotus.gwdg.de/mpg/mpsf/perso/mpids\\_w031.nsf/application](https://s-lotus.gwdg.de/mpg/mpsf/perso/mpids_w031.nsf/application)

and submit a CV, a motivation letter, a list of publications and contacts of two referees. Applications received before **31st of December 2018** will be given full consideration.

Written applications will not be sent back.

Please contact

Dr. Oliver Bäumchen  
[oliver.baeumchen@ds.mpg.de](mailto:oliver.baeumchen@ds.mpg.de)

should you have further questions.

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