

Max-Planck-Institut für Dynamik und Selbstorganisation

Max Planck Institute for Dynamics and Self-Organization



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 280 people.

For the newly established independent research group of Dr. David Zwicker we seek to fill a

PhD position (m/f) in Biological Physics

We are looking for excellent, highly motivated early-career researchers to join this research group. We offer excellent working conditions in a highly international research environment.

The research of the independent Max Planck research group focuses on understanding how biological organisms organize fluid-like material. For instance, we investigate the fundamental physics of liquid-like droplets driven by non-equilibrium chemical reactions. Such active droplets can divide spontaneously and form mono-disperse emulsions, which is important in structuring biological cells. We also aim to understand how our sense of smell can distinguish such a remarkable variety of different chemicals. In particular, we investigate the airflow during inhalation and the absorption of odor molecules in aqueous mucus to understand how such physical processes affect the sense of smell. In both projects, we combine analytical insight from simple systems with detailed numerical simulations to arrive at holistic descriptions valid for realistic systems.

The PhD candidate should have a Master's degree (or comparable) in physics, applied mathematics, or in a related field. The ideal candidate has a background in statistical/biological physics, soft matter, or dynamical systems. Programming skills are highly desired.

The PhD position is limited to three years and will be open from February 1, 2018. The salary and working hours are in accordance with the funding guidelines of the Max Planck Society for junior scientists. The salary is 2/3 of E13 TVöD-Bund. In close collaboration with the Georg August University, a structured PhD program is offered in the graduate program of the Physics Department, or in the graduate program on the Physics of Biological and Complex Systems.

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. 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.

To apply please follow this link with the reference no. MPIDS-W008:

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and submit a cover letter, your CV, your publication list as well as contact information of two references. Your cover letter should briefly describe your past and current research interests and state why you are interested in joining our group. Applications received before January 15th 2018 will be given full consideration. Interviews will continue until the position is filled. Please contact David Zwicker (david.zwicker@ds.mpg.de) should you have further questions.

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Postdoctoral position (m/f) in Biological Physics.

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The Postdoctoral candidate should hold a PhD degree with a background in theoretical physics, applied mathematics, or a related field. The ideal candidate should have experience in biological/statistical/soft matter physics or dynamical systems. Fluency in English and programming experiences are requirements.

The Postdoctoral position is limited to two years with the possibility of extension. Earliest starting date is February 1, 2018. Salary is in accordance with the German state public service salary scale (E13 TVöD-Bund) and the accordant social benefits by the Max Planck Society.

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