

Max-Planck-Institut für Dynamik und Selbstorganisation

Max Planck Institute for Dynamics and Self-Organization



MAX-PLANCK-GESellschaft

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 independent Max Planck Research Group of Dr. Karen Alim we seek to fill a

Postdoctoral position (m/f) in Biological Physics.

We are looking for excellent, highly motivated early-career researchers to join our research team. We offer a highly international, interdisciplinary and collaborative environment in exceptional research setting.

Our interdisciplinary group combines experimental and theoretical methods to investigate how an organism grows to form a desired structure and pattern. Understanding the morphogenesis of an organism, the collective self-organization of cells that gives rise to a functional structure is at the heart of decoding life. We aim to identify the rules of development by studying the physical principles underlying the formation and adaptation of biological organisms. Currently we focus on the question of how fluid flows transport and store mechanical and chemical signals and thereby enable decision and development of a living system. Our experimental model system is the network-forming 'smart' slime mold *Physarum polycephalum*. The organism is renowned for its complex behavior despite its simple make-up rendering it an intriguing model system. The candidate will have considerable freedom to shape his/her own problem and possibly do theoretical work.

Profile

The Postdoctoral candidate should hold a PhD degree in experimental physics or biology. The ideal candidate should have experience with biological systems and quantitative data analysis. Fluency in English and programming experiences are essential as is the desire to immerse in interdisciplinary research.

Our offer

The Postdoctoral position is limited to two years with the possibility of extension. Earliest starting date is May 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.

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.

Application

To apply please online https://s-lotus.gwdg.de/mpg/mpsf/perso/mpids_w014.nsf/application with the reference no. MPIDS-W014 and submit a cover letter, your CV, publication list as well as contact information of two references. Your cover letter should briefly describe your past and current research interests and why you are interested in joining our group. Applications received before February 28th 2018 will be given full consideration. Please contact Karen Alim (karen.alim@ds.mpg.de) for further questions.

MPI for Dynamics and Self-Organization

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