

## **Postdoctoral Research Fellow in Neural Circuit Mechanisms of State-dependent Behavior and Decision-Making**

The **Grunwald Kadow Lab** at the Medical Faculty of the University of Bonn is seeking a highly motivated and innovative Postdoctoral Research Fellow to investigate the neural circuit mechanisms underpinning internal state-dependent behavior and decision-making using animal models (i.e. *Drosophila*, mouse). The successful candidate will work on a project that utilizes cutting-edge techniques including in vivo 2-photon imaging, wholebrain light field imaging, genetics including optogenetics, genomics, custom-build behavioral experiments, and neural circuit tracing techniques to understand the neural basis of chemosensory driven behavior. The university of Bonn belongs to the 10 Excellence universities in Germany and collaborates closely with strategic partners such as the Max-Planck-Institute for Neurobiology of Behavior, the DZNE, and the universities of Cologne and Aachen (e.g. iBehave network). The position is thus embedded in an excellent, interdisciplinary and diverse neuroscience research environment with many possibilities of collaboration and training.

### **Responsibilities**

- Conducting experiments using a range of cutting-edge techniques including in vivo 2-photon imaging, wholebrain light field imaging, genetics including optogenetics, genomics, custom-build behavioral experiments, and neural circuit tracing techniques in *Drosophila* and/or mouse models
- Analyzing behavioral and imaging data using a variety of computational tools
- Collaborating with other members of the lab to design and implement experiments
- Presenting research findings at conferences and scientific meetings
- Writing scientific papers and contributing to grant proposals
- Mentoring and training graduate and undergraduate students

### **Qualifications**

A Ph.D. in Neuroscience, Engineering, Physics, Computer Science, or a related field  
Preferably with a strong background in neuroscience, imaging, and/or genetics  
Experience with big data analysis and/or in vivo imaging, genetics including optogenetics, behavioral experiments, and neural circuit tracing techniques is preferred  
Strong analytical and programming skills (e.g., MATLAB, Python)  
Excellent written and verbal communication skills in English  
Ability to work both independently and collaboratively in a team environment

*Recent references: Aimon et al., eLife 2023, Boehm et al., eLife 2022, Siju et al., Current Biology 2020, Kobler et al., Current Biology 2020, Sayin et al., Neuron 2019, Cichy et al., Current Biology 2019*

### **To Apply**

Please submit a cover letter, CV, short summary of your scientific experience and aims, and contact information for three references to [anke.kraemer@ukbonn.de](mailto:anke.kraemer@ukbonn.de). Review of applications will begin immediately and will continue until the position is filled.

The Grunwald Kadow Lab is committed to creating an inclusive environment that supports diversity and equity. We encourage applications from individuals who will help us broaden and deepen our understanding of underrepresented populations. The University of Bonn is an equal opportunities employer. Applications by email only should be send to [anke.kraemer@ukbonn.de](mailto:anke.kraemer@ukbonn.de). For further information please contact: [ilona.grunwald@ukbonn.de](mailto:ilona.grunwald@ukbonn.de) and have a look at our [webpage](#).