



Ph.D. position

"Neurobiology and Biomechanics of *Drosophila* flight"

Basic Information

Ph.D. position, starting August 1st, 2021 or later, Stipend of the University of Rostock

Project description

The work group of Fritz Lehmann at the University of Rostock focuses on an integrative approach to investigate the neuronal and biomechanical bases of insect flight behaviors. We use genetic and neuronal tools, behavioral essays, robotics devices and several imaging methods to dissect the flight cascade in *Drosophila* ranging from sensory input to flow control by wing flapping.

The group seeks a Ph.D. student with strong interests in one of the above fields with focus on *Drosophila* flight. The aim of the project is to understand the mechanisms of visual guided flight at various levels. Aerodynamic work can be devoted to animals and robotic setups. The position is open for a wide range of topics and own proposals are highly welcome.

The successful candidate should have:

- A Master degree or equivalent in Neurobiology, Behavioral Biology, Biomechanics or related disciplines
- Strong interest in interdisciplinary research of animal locomotion
- Excellent communication and team-working skills
- Enthusiasm and great commitment to research
- Good command of the English language

We offer:

- A 2-year Ph.D. stipend with the chance of extension
- An exciting and excellent research environment
- Travel opportunities for training and meetings
- Training opportunities in behavioral physiology and robotics

Location

The position is offered by the Department of Animal Physiology at the University of Rostock, Germany. The department resides in a modern, state-of-the-art building together with several biological work groups. Rostock is a lovely, mid-sized town located near the Baltic Sea. It features moderate ambient temperature and offers many opportunities for recreation including swimming, sailing, and hiking.

Application

Applications should submit the following documents:

- a detailed Curriculum Vitae
- a cover letter
- a list of publications (if any)
- an essay describing your motivation, past research experience and future interests
- and names and addresses of at least two referees.

Equal opportunity is an essential part of our human resources policy. In case of equal qualification, applications from severely disabled people or equivalent are explicitly welcome. The University of Rostock seeks to increase the proportion of women in research and teaching, and particularly encourages female applicants to apply for this position. Applications from foreign scientist and people with migration background are appreciated. Please note that application and travel costs are not reimbursed by the Federal State of Mecklenburg-Vorpommern.

Please send these documents with the identifier **PH 12021** and as a single PDF-file to tierphysiologie@uni-rostock.de. The positions will be filled up whenever a candidate is selected. For inquiries and further information please visit our webpage under <https://www.tierphysiologie.uni-rostock.de/> please or send an email to tierphysiologie@uni-rostock.de