

Job Announcement

Post-doc position (3+1 years) in the NEURONEX collaboration at the Institute for Evolutionary Biology and Ecology

Bonn, 19. Oktober 2021

The workgroup of Prof. Blanke at the Institute for Evolutionary Biology and Ecology would like to strengthen its team with an interdisciplinary thinking applicant, ideally with a background in evolutionary biology, and/or biomechanics, and/or imaging and with a doctoral degree either in the Biological Sciences, Engineering Sciences, or Computer Sciences.

The applicant will work within the international NEURONEX collaboration, an initiative which aims to explore the communication, coordination, and control in neuromechanical systems of animals. Neuronex is an interdisciplinary research group consisting of modelers, engineers, and experimentalists (<https://neuronex.org/projects/23>). Within our subproject, the applicant will study sensory systems on the legs of insects. These sensory systems vary in structure, number, size, relative location, and arrangement to each other and between insect species. The overall aim of this subproject within Neuronex is a screening of sensory system location and arrangement across insects using specimens from natural history collections and freshly collected ones together with high-throughput electron microscopy (SEM) and a number of other imaging methods. We seek to understand, how sensory system configuration is regulated on a macroevolutionary level.

The project is of course open to own ideas of the applicant which can be mentioned in the motivation letter. Given the outline above, it can be expected that research involves the use of histological methods, SEM, TEM, μ CT, and quantitative image analysis. The project can also have a neurophysiological component via collaboration within Neuronex.

The position is paid according to the provisions of the collective agreement for the public service of the Länder (TV-L) within pay group 13 (100%). Experience levels are taken into account. Initially, the duration of the contract is 36 months if the requirements stated above are met. After a successful evaluation of the project, the duration of the contract can be extended for another 12 months.

Apart from a full CV (without photograph and without date of birth; including a list of own publications and contact details of 2 referees), applications should contain a letter of motivation (2 pages or less) detailing your previous research experience. Please also state up to three publications from other workgroups which have substantially influenced your scientific thinking and why.

While detailing your future research, please take into account that you can plan with a considerable research budget. Details will be communicated upon request, inquiries can be made with Alexander Blanke (blanke@uni-bonn.de).

The application (as a **single** pdf file) should be sent to the secretary of the IEZ (secretary@evolution.uni-bonn.de) with the reference "NEURONEX". The **deadline for application** is

November 30th 2021, the estimated **start date is flexible between January and March 2022**. If no suitable candidate is found, the position is open beyond these dates. We regret that the state of North Rhine-Westphalia cannot cover application and travel costs.

Equal opportunities are important to us. The University of Bonn is committed to diversity and equal opportunity. It is certified as a family-friendly university and aims to increase the proportion of women employed in areas where women are under-represented and to promote their careers. To that end, it urges women with relevant qualifications to apply. Applications will be handled in accordance with the Landesgleichstellungsgesetz (State Equality Act). Applications from suitable candidates with a certified disability or equivalent status are particularly welcome.

We look forward to reading your application!

Prof. Dr. Alexander Blanke
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