



C³NS
Communication,
Coordination, and Control in
Neuromechanical Systems
NeuroNex

The lab of Prof. Dr. Ansgar Büschges in the Institute of Zoology at the University of Cologne (UoC) is looking for a doctoral candidate to join the team!

We are looking for a doctoral candidate with a strong interest in sensorimotor processing, neural circuits, and motor control. Your studies will be part of the international and collaborative **NeuroNex** project (<https://case.edu/neuronex/>) aimed at investigating fundamental principles in motor control.

To contribute to this project, you will be combining cutting-edge techniques such as electrophysiology, optogenetics, neuroanatomy, and quantitative analysis of legged locomotion in the fruit fly to unravel how the central nervous system controls flexible and adaptive motor behavior. More specifically, in the context of NeuroNex the Büschges lab will investigate how information from sensory structures in the fly's legs is integrated in the VNC during walking and different behavioral contexts. You will join a highly dynamic research group in the field of motor control with ample experience studying both vertebrate and invertebrate locomotor systems. Prior knowledge and competence in any of these methods, as well as programming or statistics skills are welcome. As a doctoral candidate, you will be associated with the structured graduate programs at UoC (<https://portal.uni-koeln.de/en/doctoral-candidates>), specifically the neuroscience graduate program *Neural Circuit Analysis on the Cellular and Subcellular Level* (<https://rtg-nca.uni-koeln.de>).

The graduate student position (65% TV-L-E13) is presently open and initially limited to three years. The University of Cologne is committed to equal opportunities and diversity. Women are especially encouraged to apply and will be considered preferentially in accordance with the Equal Opportunities Act of North Rhine-Westphalia (Landesgleichstellungsgesetz – LGG NRW). We also explicitly welcome applications from individually challenged people with special needs or of equal status.

If you are interested, please send until May 31st, 2021 your CV and a letter of motivation as one PDF to bueschges-office@uni-koeln.de or the physical address given below – identify your application with “wiss2104-19”.

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