

The **Institute of Cellular Neurosciences** at the **University of Bonn** Medical School, Germany invites applications for a

PhD studentship

A neuroscience PhD studentship in the field of synaptic structural dynamics is available in the laboratory of Prof. Christian Henneberger. The three-year position is part of a larger effort to understand how structural plasticity and turnover of synapses and remodelling of nearby astrocytes are coordinated and what their role for synapse and circuit function and behaviour is.

The specific aim is to reveal the relationship between synaptic structural plasticity and turnover and the remodelling of perisynaptic astrocytic processes in vivo, and to identify the relevant signalling cascades and the consequences of their disruption. The project relies on an extensive experimental toolset for monitoring synaptic and astrocytic structure and its dynamic changes using multiphoton fluorescence microscopy and for manipulating astrocyte morphology. In addition, a broad spectrum of imaging approaches and electrophysiological methods is available to dissect this further. Therefore, applicants should ideally have experience in some of these techniques. Further information about our research, research methods and recent publications can be found at <https://henneberger-lab.com/>.

The prospective PhD student will work closely with other groups within the hosting institution and enrol in the neuroscience graduate school BIGS Neuroscience (<https://big-neuroscience.de/>). The PhD student will also benefit from the substantial local expertise in studying synaptic signalling and extensive local and international collaborations (e.g. within the SFB1089 <http://sfb1089.de/>). The dynamic neuroscience community of Bonn, which comprises more than 40 groups focusing on fundamental neuroscience research and its application in the treatment of neurological disorders, will provide further excellent opportunities for training (Bonn Center of Neuroscience, <https://bonn-neuroscience.de/>).

The position is available from the 1st of May 2022 on. The contract initially runs for three years. The salary will be according to the German salary scale (65% TV-L E13). The University of Bonn is an equal opportunities employer.

The University of Bonn is committed to diversity and equal opportunity. It is certified as a family-friendly university. It aims to increase the proportion of women in areas where women are under-represented and to promote their careers. It therefore urges women with relevant qualifications to apply. Applications will be handled in accordance with the Landesgleichstellungsgesetz (State Equality Act). Applications from suitable individuals with a certified serious disability and those of equal status are particularly welcome.

Applicants should have a Master of Science or equivalent academic degree. Applicants are expected to submit a cover letter, CV, list of publications and indicate at least two referees.

Applications should be sent by email only to: Christian Henneberger (christian.henneberger@uni-bonn.de)