

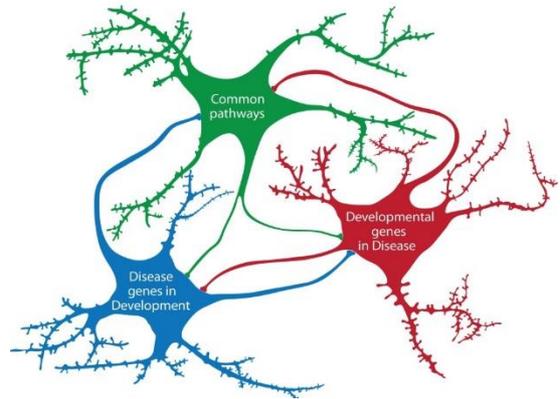
PhD student position in Mechanobiology/ Neurobiology

offered by

RTG 2162

“Neurodevelopment and CNS vulnerability”

in Erlangen, Germany



This PhD position at the interface between neurobiology and biophysics/bioengineering is available immediately in the group of Prof. Kristian Franze at the Max Planck Zentrum für Physik und Medizin. The lab combines cutting edge biophysical and cell and molecular biological approaches to understand the influence of physical cues on the functioning and malfunctioning of the nervous system.

You will investigate mechanical changes of CNS tissue during ageing and demyelinating diseases using atomic force microscopy, test how alterations of mechanical signaling activity may contribute to the onset and progression of neurodegenerative diseases, and illuminate underlying mechanotransduction pathways.

The successful candidate should hold a MSc in cell or neurobiology, biophysics, bioengineering, or a related subject. Requirements are high levels of enthusiasm and curiosity; a particular background is not necessary. Experience in programming would be an advantage. Motivation to work in a multidisciplinary environment is fundamental to this position. An ability to independently take responsibility over his/her own project as well as good teamwork and communication skills are expected. If you chose our lab, you will be part of a multidisciplinary team with great atmosphere.

The doctoral researcher will be part of the DFG-Research Training Group 2162 “Neurodevelopment and CNS Vulnerability”, which provides a structured curriculum and a wide range of scientific and soft-skill training.

Informal enquires regarding the position should be made to Kristian Franze:
kristian.franze@fau.de.

How to Apply

A) Please submit as a single pdf file:

- (1) Letter of motivation
- (2) Curriculum vitae
- (3) Transcript of Records
- (4) Summary of Research Experience and Master Project
- (5) List of publications

B) Two letters of reference:

to be sent directly by the referees to:

grk2162@fau.de; Subject: GRK2162-PhDstudent/YOUR NAME

Please submit applications via email: grk2162@fau.de

Application closing date is December 1, 2020.

Start date: PhD projects start in early 2021.