

The University Clinic of Neurology, University of Oldenburg, Germany, seeks a highly motivated

PhD student (m/f/d)

for a TV-L 13 position (65 % of full time, 3 years):

Neuroimaging, behavioural, and neurochemical markers of Parkinson's disease progression

This position is embedded in a larger project on healthy aging and neurodegenerative disease at the University of Oldenburg and is funded by an intramural grant from the School of Medicine and Health Sciences.

The successful PhD student will investigate large neuroimaging, behavioural, and clinical data sets available to us, using sophisticated statistical and neuroimaging software installed on the High-performance Computer Cluster in Oldenburg (uol.de/en/school5/sc/high-performance-computing/hpc-facilities). The overarching aim of the project is to determine biomarkers for disease progression and cognitive decline in Parkinson's disease.

This project is a close collaboration between Neurology (Dr. Peter Sörös, Prof. Dr. Karsten Witt) and Anatomy (Prof. Dr. Anja Bräuer) in Oldenburg and Biostatistics at the Helmholtz Centre for Infection Research in Braunschweig (Prof. Dr. Frank Klawonn).

The successful PhD student will also analyze biochemical markers of neurodegeneration in Prof. Bräuer's lab (uol.de/anatomie), participate in the development of novel software tools based on R Shiny together with Prof. Klawonn's group (www.helmholtz-hzi.de/en/research/research-topics/bacterial-and-viral-pathogens/biostatistics/frank-klawonn/), and acquire own MRI data sets of patients and controls in the Neuroimaging Unit, School of Medicine and Health Sciences, University of Oldenburg (uol.de/en/medicine/biomedicum/neuroimaging-unit). The Neuroimaging Unit houses a research-only Siemens Prisma MRI at 3 Tesla with 64-channel head coil.

Applicants are required to have an academic university degree, such as a master's degree in the field of psychology, neuroscience, physics or a related discipline, or a medical degree. A strong research background with experience in neuroimaging analysis (e.g. FreeSurfer, FSL, SPM), statistics (R), and programming (R Shiny, Python) is highly desirable. Excellent skills in written English are important.

Oldenburg is an attractive city with a population of 170.000 in the northwest of Germany, close to Bremen, Hamburg, and Groningen.

In order to increase the percentage of female employees in the field of science, female candidates with equal qualification will be given preference. Applicants with disabilities will be preferentially considered in case of equal qualification.

Applications including a detailed letter of motivation, a complete CV, copies of university diplomas and transcripts, a copy of the B.Sc. or M.Sc. thesis (or other written work), and contact details of two academic referees should be sent to Dr. Peter Sörös: peter.soros@uni-oldenburg.de

or to: Dr. Peter Sörös, Neurology, School of Medicine and Health Sciences, University of Oldenburg, Heiligengeisthöfe 4, 26121 Oldenburg, Germany.

Application by email (one PDF document) is preferred.

Deadline for application: April 30, 2020