

The German Center for Neurodegenerative Diseases (DZNE) is a center of excellence within the Helmholtz Association that performs translational research on Neurodegenerative Diseases. The center includes nine high-performing sites in Berlin, Bonn, Dresden, Göttingen, Magdeburg, Munich, Rostock/Greifswald, Tübingen and Witten.

Within the area of population research we have

Research positions (f/m) in Neuro Image Analysis – Code 1229/2014/2

Description: Population Health Sciences at the DZNE aims to investigate causes and preclinical biomarkers of neurodegenerative diseases, and to study normal and pathological brain structure and function over the adult life course. To this end the team, led by Prof. Monique M.B. Breteler, Director of Population Health Sciences of the DZNE, is currently establishing the Rhineland Study, a prospective population based cohort study that will include up to 30,000 people aged 30 years and over. The study facilities will encompass 3 recruitment centers equipped with state-of-the art apparatus including dedicated 3T MRI scanners (Siemens Prisma), advanced bio-banking facilities and large data storage and computational resources.

All study participants will undergo extensive phenotyping. This encompasses repeated and detailed brain imaging, including structural (T1, T2, T2*) and functional imaging (DTI, perfusion and BOLD imaging). A subset of the cohort will additionally be followed with 7T imaging and possibly PET imaging. We are looking for enthusiastic and ambitious researchers who will contribute to the further development of neuro image analysis in the framework of the Rhineland Study.

Qualifications and experience: The qualified applicant should have a PhD in neuro image analysis, cognitive neuroscience, computer science or related field and a strong research background in large-scale neuroimage processing or population neuroimaging. Applicants should have experience with existing tools for large-scale analysis of neuroimaging data (e.g. with SPM, FSL, AFNI, etc), relevant programming experience (e.g. with MATLAB, Python), and proficiency in mathematics and statistics (R, SPSS). Working experience in epidemiological research or large-scale clinical studies is highly desirable.

Demonstrable interest in quantitative research, strong analytical skills, ability for independent and critical thinking, and excellent communication and writing skills in the English language are a prerequisite. Creative, highly motivated and team-oriented candidates who dare to take initiative and enjoy working in a fast-growing, dynamic research environment in an internationally oriented biomedical institution, are strongly encouraged to apply.

We offer a scientific position with a long-term perspective. The position is initially limited to two years with the possibility of extension.

For further information, please contact Prof Monique M.B. Breteler (rhinelandstudy@dzne.de).

Employment, payment and social benefits are determined by the Public Sector Collective Agreement (Tarifvertrag für den öffentlichen Dienst). Job location is Bonn, Germany. Common language at work is English. The DZNE is an equal opportunity employer. The DZNE especially welcomes and encourages disabled individuals to apply.

Interested candidates should send their applications including CV with full publication list, the names and contact information of three references, and a summary of research interests in a single file to: application@dzne.de References may be taken up as part of the candidate selection and prior to interview. Applicants who do not wish referees to be contacted without prior notice and consent should make this explicitly clear on their application.