



Within the area of Population Health Sciences at the German Center for Neurodegenerative Diseases (DZNE) in **Bonn**, we are looking for a

## PhD Candidate in Population Neuroimaging

We are looking for an enthusiastic and ambitious young researcher to join us within the area of Population Neuroimaging.

**Your profile:** Successful candidates hold an excellent degree in medicine, biomedical sciences, cognitive neuroscience or a related discipline, and have working experience in radiology, in particular brain imaging. Experience in epidemiological research or large-scale clinical studies is desirable. For further requirements, please visit our web page or contact us via email through the address stated below.

**Your tasks:** You will investigate preclinical markers of neurodegenerative and neuropsychiatric diseases as well as imaging features of normal and pathological brain structure and function over the adult lifespan. Responsibilities include: participation in and supervision of data acquisition and processing; rating of images for incidental findings; data analysis and preparation of manuscripts for publication in peer-reviewed journals; active participation in national and international conferences.

**About us:** We study determinants and biomarkers of normal and pathological mental and physical health function over the adult life course, with a special emphasis on neurodegenerative diseases and ageing. The research is led by **Prof. Monique M.B. Breteler** and is primarily based on data from the Rhineland Study. This prospective population-based cohort study will include more than 20,000 people aged 30 years and over, run for decades, and emphasizes brain-related outcomes.

Core data collection includes an advanced 1h, high resolution MRI protocol at each examination with extensive structural and functional brain imaging, cognitive and behavioral assessments, cardiovascular investigations, sensory systems assessments, questions on medical history, medication intake, life style, nutrition and mental health, collection of biomaterials, and wide-ranging omics analyses. Data from thousands of participants is readily available. We work with an interdisciplinary team of image analyzers, IT experts and other data scientists to build the relevant image analysis pipelines and perform feature extraction and data analysis.

**We offer** interesting and challenging work in a highly interdisciplinary and international scientific environment. Common language at work is English. We actively encourage and support our employees' personal development and growth. The PhD position will be integrated into the Bonn International Graduate School of Clinical and Population Science and further training in epidemiological, statistical and computational methods will be provided as needed. The position is initially limited to three years with the possibility of extension. Employment, payment and social benefits are determined by the Public Sector Collective Agreement (TVöD-Bund).

If interested, please send your application, including a motivation letter, a CV, transcripts, and two letters of recommendation or references, as a [single PDF-file](#). Review of applications will begin immediately and continue until the position is filled.



web: [www.dzne.de/en/jobs](http://www.dzne.de/en/jobs)  
job ID: 1703/2019/12  
contact: [population-research@dzne.de](mailto:population-research@dzne.de)