



Population Health Sciences at the German Center for Neurodegenerative Diseases (DZNE) in Bonn is looking for a

Postdoctoral Researcher “Climate Change & Health”

The aim of this project is to investigate the impact of ambient temperature and humidity exposure on health.

Your profile: Candidates preferably have a PhD in epidemiology, medicine, applied statistics, computational biology or other relevant discipline, and experience in the field of high-dimensional data analysis. Working experience in epidemiological research or large-scale observational studies is desirable. For further requirements, please visit our web page or contact us via email through the address stated below.

Your tasks: Using extensive existing data on physiologic parameters (incl. metabolomic data; lipidomic data; serum virus antibody titers; microbiome data; cytokine profiles), you will derive biomarkers, physiological patterns & mechanistic pathways that are influenced by ambient temperatures and humidity. Next, you will evaluate the potential health impact of those biomarker profiles & pathways by investigating their relationship with health phenotypes, in particular structural & functional markers of brain health (brain MR data, cognition data). You will analyze the data and prepare manuscripts for publication in peer-reviewed journals and maintain contact with our external collaborators. Additionally, we expect you to actively contribute general conduct and further development of the Rhineland Study.

About us: We collaborate with investigators from other health-related research institutes across Germany on analyzing the impact of extreme weather on cardiovascular, metabolic and cognitive functions and mental health. This is part of a large-scale cross-disciplinary research program “Helmholtz-Initiative Climate Adaptation and Mitigation” (HI-CAM) that was established by the Helmholtz Association to help develop tenable solutions for global warming and to evaluate the impact of climate change on health.

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. You will use available geocoded daily temperature and humidity exposure data and link those to individual participant data

We offer interesting and challenging work on the forefront of health research. You will be working in a highly interdisciplinary and international team to help direct the efforts of the Rhineland Study to address pressing health issues related to aging. Common language at work is English. You will obtain special skills and knowledge for your scientific qualification at DZNE.

If interested, please send your application, including a motivation letter, a CV, a publication list 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
job ID: 1706/2019/12
contact: population-research@dzne.de