

# Cutting-edge Research for a Changing World



Helmholtz-Zentrum  
**hereon**

## PhD Candidate

Reference code: 50089803\_2

Commencement date: 01.03.2022 or as soon as possible

Work location: Hamburg

Application deadline: 08.01.2023

The Climate Service Center Germany (GERICS), a scientific organisational entity of the Helmholtz-Zentrum Hereon, invites applications for a PhD Candidate Position in the BMBF Junior Research Group on "Co-creating Climate Services for Care Economy and Caring Society" (CoCareSociety), in the frame of the BMBF FONA Junior Research Groups on Global Change: Climate, Environment and Health. The position is limited to 3 years and is intended to complete with a PhD. The place of employment is Hamburg.

GERICS develops science-based prototype products and services in support to government, administration and business in their efforts to adapt to climate change. It builds up a national and international network structure in order to integrate existing competences and knowledge, and to link various actors within the complex area of climate change.

The goal of the CoCareSociety project is to understand the interrelations between climate change, long-term care, health, and well-being of the elderly, and their energy efficiency in the living environment and how changes can be induced in the interconnected systems to maximise health-climate-energy nexus outcomes for co-creating a friendly, climate-resilient, affordable, sustainable society for the future society.

This research position will support the identification of interrelationships between health and long-term care, climate, and energy behaviours to advance the knowledge in the interdisciplinary research fields of healthy and sustainable ageing society.

Equality of opportunity is an important part of our personnel policy.

### Your tasks

- apply the statistical analysis for extracting reliable information about causation from natural experiments
- apply quantitative methods and econometrics to identify health-climate-energy interconnections
- prepare and analyse data from the open-access database, and data from the existing projects to identify the Interconnections among health, elderly long-term care, well-being and health, care economy, energy use, energy use in housing, and climate change
- carry out analysis such as meta-analysis, natural experiments, modified generalized additive model, time series analysis, environmentally extended multi-regional input-output (MRIO) model, or individual outage analysis to identify the interrelations between health, climate, and energy efficiency in living environments from the data
- develop future health-climate-energy scenarios to calculate future demands of elderly long-term care based on projected demographic change, and energy demands based on climate change and projected energy price scenarios
- prepare data (e.g. from the open access databases, citizen science platform, existing

### Helmholtz-Zentrum Hereon

The Helmholtz-Zentrum Hereon conducts cutting-edge international research for a changing world: Around 1,100 employees contribute to the tackling of climate change, the sustainable use of the world's coastal systems and the resource-compatible enhancement of the quality of life. From fundamental research to practical applications, the interdisciplinary research spectrum covers a unique range.

### Climate Service Center Germany (GERICS)

The interdisciplinary team at Climate Service Center Germany (GERICS), an institution of Helmholtz-Zentrum Hereon, develops science-based prototypical products and services to support decision makers from politics, economy and public administration in adapting to climate change. GERICS is an independent scientific organizational unit of the Helmholtz-Zentrum Hereon located in Hamburg's center.



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projects) for analysis, and deliver data and model code in accordance with the FAIR criteria

- learn from the stakeholders to better interpret the phenomenon and implications from data analysis results
- write scientific publications
- work in close collaboration with health experts from partners from Germany, Japan, Senegal, Taiwan, Uganda, UK, USA

## Your profile

- MSc/Diploma in Health Economics, Public Health, Medical Statistics, Epidemiology, or disciplines with equivalent level of quantitative content, and prior training in epidemiology is a plus
- experience in time series modelling, and statistical computing using R/Python is desirable and maybe git and github for collaboration
- knowledge in the field of quantitative methods and experience with energy, health and climate data (at least worked with the data from one of the fields)
- interest and willingness to work with energy, health and climate data
- fluency in English, and ideally knowledge of another language from the case study countries (Germany, Japan, Senegal, Taiwan, Uganda, UK, USA), but not a must
- interest in teamwork in an interdisciplinary and international environment
- willingness to learn and personal continuous improvement approach

## We offer you

- multinational work environment with ca. 1,100 colleagues from more than 50 nations
- extensive options of vocational training (i. a. expert seminars, language courses or leadership seminars)
- flexible working hours and various models to ensure the compatibility of family and career
- excellent infrastructure, including a scientific in-house library as well as modern work spaces
- remuneration according to the standards of the collective wage agreement TV-AVH including further social benefits
- free employee advice - Employee Assistance Program (EAP)
- PhD Buddy Program
- Welcome Office, guest accommodation

Interested?

Then we are looking forward to receiving your comprehensive application documents (cover letter, CV, previous publications or thesis if applicable, transcripts, certificates, etc.) indicating the reference number code no. 2022/KG 16 until 08.01.2023.



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**Severely disabled persons and those equaling severely disabled persons who are equally suitable for the position will be considered preferentially within the framework of legal requirements.**