As a University of Excellence, Universität Hamburg is one of the strongest research universities in Germany. As a flagship university in the greater Hamburg region, it nurtures innovative, cooperative contacts to partners within and outside academia. It also provides and promotes sustainable education, knowledge, and knowledge exchange locally, nationally, and internationally.

The Faculty of Mathematics, Informatics and Natural Sciences, Department of Earth System Science, Institute of Geophysics, invites applications for a

**RESEARCH ASSOCIATE FOR THE PROJECT “3G-GWD: GRAVITATIONSWELLEN-TELESKOP DER 3. GENERATION. TEILPROJEKT 5”**

- SALARY LEVEL 13 TV-L -

The position in accordance with Section 28 subsection 3 of the Hamburg higher education act (Hamburgisches Hochschulgesetz, HmbHG) commences on 01.02.2021.

This is a fixed-term contract in accordance with Section 2 of the academic fixed-term labor contract act (Wissenschaftszeitvertragsgesetz, WissZeitVG). The term is fixed until June 30th, 2023. The position calls for 50% of standard work hours per week**.

**RESPONSIBILITIES:**

Duties include academic services in the project named above. Research associates may also pursue independent research and further academic qualifications.

**SPECIFIC DUTIES:**

This position is in the context of the BMBF joint project "3G-GWD: Gravitational Wave Telescope of the Third Generation". Seismic Newtonian noise is among the many unwanted contributions in the data used to detect and analyze gravitational waves. The ambient seismic noise wavefield – in absence of any earthquakes – has a significantly different composition at the surface and at depth. This is particularly relevant for the future Einstein Telescope, which will be built at several hundred meters below the surface. The aim of this project is to characterize and compensate the ambient seismic noise at depth, through a combination of seismic measurements with a unique geometry, and machine learning techniques.

This position is embedded in a collaboration with the “Quantum Universe” Cluster of Excellence and the Gravitational Wave Detection group at the University of Hamburg, as well as with the Seismology group at the University of Münster.

* Full-time positions currently comprise 39 hours per week.
REQUIREMENTS:

A university degree in a relevant field. The ideal candidate holds a Master’s degree in geophysics, acoustics, physics or similar, with a strong background in wave propagation. Candidates should have strong analytical skills, as well as experience in programming and signal processing. Experience in the field of ambient noise seismology and knowledge in machine learning are a definite advantage.

Good written and oral communication skills in English are required for publishing research and for presenting results at international meetings.

Qualified disabled candidates or applicants with equivalent status receive preference in the application process.

For further information, please contact Prof. Dr. Dirk Gajewski (dirk.gajewski@uni-hamburg.de) or Prof. Dr. Celine Hadziioannou (celine.hadziioannou@uni-hamburg.de) or consult our website at https://www.geo.uni-hamburg.de/en/geophysik.html.

Applications should include a cover letter, a tabular curriculum vitae, and copies of degree certificate(s). Please send applications by 01.12.2020, as a single PDF document and including contact information for two references, to: celine.hadziioannou@uni-hamburg.de.

Please do not submit original documents as we are not able to return them. Any documents submitted will be destroyed after the application process has concluded.