



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 Sciences, Institute of Geophysics invites applications for a

RESEARCH ASSOCIATE (POSTDOC) IN SEISMOLOGY

- SALARY LEVEL 13 TV-L -

The position in accordance with Section 28 subsection 2 of the Hamburg higher education act (Hamburgisches Hochschulgesetz, HmbHG) commences on at the earliest on **01.03.2020**.

This is a fixed-term contract in accordance with Section 2 of the academic fixed-term labor contract act (Wissenschaftszeitvertragsgesetz, WissZeitVG). The initial fixed term is three years. The contract provides for a maximum extension of up to three years depending on the associate's achievements during the first stage. Providing that a position is available and that requirements have been fulfilled, the associate may apply for temporary civil servant status in accordance with Section 28 subsection 2 HmbHG. The position is full-time and comprises 39 hours per week (40 for civil servants).

RESPONSIBILITIES:

Duties include teaching and research in the respective department or institute. Research associates may also pursue independent research and further academic qualifications as well as acquire teaching experience. These duties are intended to promote academic achievement. Therefore, at least one-third of set working hours will be made available for the associate's own academic work.

SPECIFIC DUTIES:

We are looking for a postdoctoral researcher who is enthusiastic to work on research related to ambient seismic noise analysis. Depending on the candidate's background and research interests, various potential projects are available. These include:

- understanding the generation mechanisms of ocean-generated seismic noise, with a focus on the generation of Love waves, either through observational or numerical approaches.
- characterizing ocean wave state using land-based observations of seismic noise, including the use of analog seismograms from the past century.

- improving the accuracy of ambient noise-based subsurface monitoring methods by taking into account the uneven illumination by noise sources.
- participating in seafloor seismology projects using the ocean bottom seismometers of the University of Hamburg.

The position includes teaching duty of up to 4 hours of teaching per week during semester times. The candidate is expected to participate in academic service at the institute.

REQUIREMENTS:

A university degree in a relevant subject plus doctorate. The successful candidate must have either completed, or be in the process of completing, a PhD in a relevant subject area such as seismology, acoustics, physics or similar fields.

Good knowledge of English and good written and oral communication skills are essential for presenting results at workshops and international meetings, and preparing papers for submission to international journals. Previous experience in programming is expected, preferably in Python.

The University aims to increase the number of women in research and teaching and explicitly encourages qualified women to apply. Equally qualified female applicants will receive preference in accordance with the Hamburg act on gender equality (Hamburgisches Gleichstellungsgesetz, HmbGleiG).

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

For further information, please contact Celine Hadziioannou or consult our website at <https://www.geo.uni-hamburg.de/en/geophysik>.

Applications should include a cover letter, a tabular curriculum vitae, a statement of research interest, contact information for two referees, and copies of degree certificate(s). Please send applications as a single pdf file by email to: celine.hadziioannou@uni-hamburg.de. The applications deadline is on November 15th, 2019. Evaluation of the applications will begin immediately until the position is filled.

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.