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 Geosciences, Institute of Geophysics invites applications for a

**RESEARCH ASSOCIATE FOR THE PROJECT “ARTIFICIAL INTELLIGENCE DE-NOISING (AID)”**

- 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 01.05.2020.

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 28.02.2023. 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:**

Development, testing and analysis of denoising algorithms for active and passive seismic data based on convolutional and recurrent neural networks.

**REQUIREMENTS:**

A university degree in a relevant field. Knowledge of seismic wave propagation, seismic data processing, imaging and inversion. Programming skills, particularly in Python. Experience in the use of machine learning techniques is an advantage. Knowledge of machine learning libraries such as Tensorflow and PyTorch are a plus. Fluent English, spoken and written, and good communication skills are mandatory. German language knowledge is helpful.

* Full-time positions currently comprise 39 hours per week.
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 consult our website at https://www.geo.uni-hamburg.de/de/geophysik.html.

Applications should include a cover letter, a tabular curriculum vitae, and copies of degree certificate(s). Please send applications by 27.03.2020 to: Prof. Dr. Dirk Gajewski, Institut für Geophysik, Bundesstrasse 55, D-20146 Hamburg.

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.