



Universität Hamburg

DER FORSCHUNG | DER LEHRE | DER BILDUNG

Faculty/Department

**Mathematics, Informatics, Natural Sciences /
Department of Earth Sciences**

Seminar/Institute

Institute of Geophysics

The Universität Hamburg invites applications for a Research Associate for the project “Exploring the conditions for occurrence of volcanic lightning” in accordance with Section 28 subsection 3 of the Hamburg Higher Education Act (Hamburgisches Hochschulgesetz, HmbHG). The position commences on 1.2.2018 or as early as possible thereafter.

It is remunerated at the salary level TV-L 13 and calls for 75% of standard work hours per week¹. The fixed-term nature of this contract is based upon Section 2 of the Academic Fixed - Term Labor Contract Act (Wissenschaftszeitvertragsgesetz, WissZeitVG). The term is fixed for a period of 3 years

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 Equality Act (Hamburgisches Gleichstellungsgesetz, HmbGleIG).

Responsibilities:

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

Specific Duties:

The project is a collaborative research project between the Ludwig-Maximilians Universität München (Dr. Corrado Cimarelli, Department für Geo- und Umweltwissenschaften) and the Universität Hamburg (Prof. Dr. Matthias Hort, Institut für Geophysik). The project includes two PhD positions, one located in Munich and one in Hamburg. Each doctoral student will work on an own subproject in a research-driven environment. The subproject in Hamburg focusses on quantifying eruption dynamics at Sakurajima volcano, Japan, by means of Doppler radar, electromagnetic, and electrostatic field measurements. Those data will be used to improve our understanding of the circumstances producing volcanic lightning. Using numerical model simulations we will try to improve our understanding of the processes leading to volcanic lightning. The associate will have the opportunity to pursue further academic qualifications, in particular a doctoral dissertation

Requirements:

A university degree in a relevant field, such as Geophysics, Meteorology, or Physics with an interest in Earth Sciences. The project requires very good team work ability, high motivation and very good English skills. Knowledge in volcanology, experiences in conducting field work as well as programming skills (preferably in Fortran, MatLab, Python) for data processing and

¹ Full time positions currently comprise 39 h/week

conducting numerical simulations are highly desired. A driving license is required. Selected applicants will be invited to an interview.

Severely disabled applicants will receive preference over equally qualified non-disabled applicants.

For further information please contact Prof. Dr. Matthias Hort. Applications should include a cover letter, curriculum vitae, and copies of degree certificate(s) as well as two letters of recommendation. Application will be reviewed starting 8th of January 2018 until a suitable candidate has been found. Please send applications to: Prof. Dr. Matthias Hort, Bundesstr. 55, 20146 Hamburg, Germany, either by regular mail (documents will not be returned) or E-Mail: matthias.hort@uni-hamburg.de.



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