

The Institute of Mineralogy invites applications for the position of a

**Research Assistant – Ph.D. student (m/f/d)
in Geosciences
(Salary Scale E13 TV-L, 66%)**

starting 1st of May 2023 or later. The position is limited to 3 years.

Project description

This project aims to reconstruct marine environments and the geodynamical evolution of continental landmasses on early Earth. Major and trace element systematics of banded iron formations provide unique information about the depositional environment and determine the impact of terrestrial and submarine sources on ancient seawater chemistry. Additionally, Hf-Nd isotope compositions will be used to determine elemental fluxes from emerged continents into marine environments. This project establishes Hf-Nd isotopes in marine chemical sediments as novel geochemical proxy for weathering and erosion processes on Precambrian continents. In particular, the results pinpoint the time in Earth's history when landmasses were firstly emerged above sea level.

Responsibilities and duties

- Development of an own research profile in (isotope) geochemistry
- Sampling, physical and chemical sample preparation as well as major, trace element and isotope analyses
- Publication of results in internationally renowned journals
- Presentation of results in national and international conferences
- Support in teaching activities and co-supervision of BSc. & MSc. theses

Employment conditions

To qualify for the position, applicants should hold a MSc. (or comparable) degree in geosciences, chemistry or of another related topic. You should have a background in (low-temperature) geochemistry and ideally already experience in clean laboratory environments and with (MC-)ICPMS analyses.

The geochemistry group in Hannover is specialised in trace element and isotope analyses in a variety of different geo-environments. Research areas include solar system formation, magma evolution and the co-evolution of Earth's oceans and atmosphere. While the latter low-temperature applications are of specific importance for this project, we also develop new protocols of isotope analyses which are performed on two Neptune (Plus) MC-ICP-MS and one Element XR either via purified solutions or in situ with femtosecond laser ablation.

Leibniz University Hannover considers itself a family-friendly university and therefore promotes a balance between work and family responsibilities. Part-time employment can be arranged upon request.

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Leibniz
Universität
Hannover

The university aims to promote equality between women and men. For this purpose, the university strives to reduce under-representation in areas where a certain gender is under-represented. Women are under-represented in the salary scale of the advertised position. Therefore, qualified women are encouraged to apply. Moreover, we of course welcome applications from qualified men. Preference will be given to equally-qualified applicants with disabilities.

Please send your application including a curriculum vitae, MSc. certificate, a list of 2-3 referees, and your letter of motivation until 15th of January in electronic form to

Email: s.viehmann@mineralogie.uni-hannover.de

or alternatively by mail to

Dr. Sebastian Viehmann
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<http://www.uni-hannover.de/jobs>

For further information, please contact Sebastian Viehmann (email: s.viehmann@mineralogie.uni-hannover.de)

Information on the collection of personal data according to article 13 GDPR can be found at <https://www.uni-hannover.de/en/datenschutzhinweisbewerbungen/>.