

The [Department of Geochemistry and Isotope Geology](#) at the Georg-August-University Göttingen is currently inviting applications for a

Doctoral (PhD) position in Isotope Geochemistry (f/m/d)

This is a fixed-term position (3 years) with a starting date as soon as possible. Salary level will be in accordance with the German Tarifvertrag der Länder (TV-L), grade E13 (66%). The project focuses on investigating the state of silicate Earth differentiation at 3.5 Ga using Mo stable isotopes. The overarching aim is to test the validity of existing continental growth models for the first billion year of the Earth. Current challenges include a lack of precise constraints on: 1) the Mo isotopic composition ($\delta^{98/95}\text{Mo}$) of the 3.5 Ga accessible mantle; 2) the behaviour of Mo isotopes during early Earth mantle partial melting; and 3) the effects of early Earth evolved crust formation on the $\delta^{98/95}\text{Mo}$ of the mantle. The PhD student will address these shortcomings using samples from the Kaapvaal Craton (South Africa).

As a PhD student at the Faculty of Geoscience and Geography, the successful candidate will be a member of the [Georg-August University School of Science \(GAUSS\)](#). Applications from abroad are explicitly welcome.

The [Department of Geochemistry and Isotope Geology](#) houses state-of-the-art analytical facilities that are relevant to this project including MC-ICPMS (Neptune Plus), SF-ICPMS (Element2), Q-ICPMS (iCAP-Q), laser ablation (Resonetics Resolution), TIMS (Triton), XRF (Panalytical Axios Advanced), a clean-room suite as well as laboratories for mechanical rock preparation (crushing, milling and mineral separation).

We are looking for highly motivated candidates who meet the following requirements:

- Excellent M.Sc. degree (or equivalent) in Earth Sciences or related fields
 - Background in isotope geochemistry and igneous petrology
 - Scientific creativity, problem-solving capabilities and the ability to work independently
 - Literacy in scientific writing
 - Very good English skills (written and spoken)
- Experience in using state-of-the-art mass spectrometric techniques (in particular MC-ICPMS, SF-ICPMS) and in working in a clean room laboratory environment is desirable.

The University of Göttingen is an equal opportunities employer and places particular emphasis on fostering career opportunities for women. Qualified women are therefore strongly encouraged to apply in fields, in which they are underrepresented. The university has committed itself to being a family-friendly institution and supports their employees in balancing work and family life. The mission of the University is to employ a larger number of severely disabled persons. Applications from severely disabled persons with equivalent qualifications will be given preference.

Only applications submitted via the application platform will be considered in the selection process: <https://obp.uni-goettingen.de/en-us/OBF/Index/74749>. Closing date for applications: January 15, 2025.

Please submit a motivation letter, CV, copies of transcripts of records, copies of academic degree diplomas, abstract of master thesis and contact details of two professional referees as one single PDF file. For further information or enquiries please contact Dr. Rachel Bezard (rachel.bezard@uni-goettingen.de).

Please note:

With submission of your application, you accept the processing of your applicant data in terms of data-protection law. Further information on the legal basis and data usage is provided in the Information General Data Protection Regulation (GDPR).