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PhD position in Isotope Geochemistry on Climate and Earth Surface Redox- Change in the Paleoproterozoic Era (m/d/f)

Department of Geosciences, Eberhard Karls University of Tübingen

The Isotope Geochemistry Group at the University of Tübingen lead by Prof. Ronny Schoenberg seeks to fill one PhD position to start as soon as possible for a period of **three years with possible extension of 6-9 months**. Salary will follow the German public service scale TV-L E13 at 65%.

The successful applicant will work on an interdisciplinary project including sedimentology, (isotope)geochemistry and paleo-climatology, focusing on the changes in climate and weathering conditions, as well as the redox state of the atmosphere-geosphere-ocean system in the Paleoproterozoic Era. Field work and sampling in South Africa is planned for early 2025, but analytical work on sedimentary archives will commence on existing drill core material. The project requires a wide range of geochemical tools, such as major- and trace element variations, organic and carbonate stable C and O isotope analyses and transition metal (Fe, Mo, W) stable isotope systematics, all of which will be performed at the Department of Geosciences in Tübingen. The Isotope Geochemistry Group hosts a state-of-the-art class 10 to 100 clean-room laboratory with multicollector (Thermo NeptunePlus) and quadrupole (Thermo iCAP-Qc) ICP-MS instruments, with additional instrumentation for isotope geochemical analyses (gas-IR-MS, XRF, ICP-OES, TIMS). The Department of Geosciences at the University of Tübingen is one of the biggest Earth Science Institutions in Germany and provides an enthusiastic and thrilling international work-environment in a new Science Building the Center of Geo-and Environmental Sciences.

Applicants must hold a Master's Degree or equivalent in Geosciences/Geology and provide an excellent understanding of Isotope Geochemistry. Experience in (isotope-) geochemical laboratory work is a prerequisite and operation of plasma or thermal ionization mass spectrometers (multicollector ICP-MS or TIMS) is regarded beneficiary for this ambitious project. Fluency in both spoken and written English is a prerequisite for the communication within our international work group and the publication of results in international journals. Knowledge of German is appreciated but is not a requirement.

The University of Tübingen wishes to enhance the share of employed women in research and teaching. Individuals with disabilities are strongly encouraged to apply and, having the same occupational aptitude, will be preferred. The employment will be handled by the central administration of the University of Tübingen.

Applications should include a letter of motivation, a CV, scans of academic transcripts, and contact details of two potential academic referees. Applications should be submitted electronically no later than the **31st of March 2024** and addressed to Prof. Ronny Schoenberg schoenberg@ifg.uni-tuebingen.de.