

The Helmholtz Centre Potsdam – GFZ German Research Centre for Geosciences is the national research centre for Earth sciences in Germany. With approx. 1260 employees, the GFZ is conducting interdisciplinary research on the “System Earth” and the influence of humans on the planet. As a member of the Helmholtz Association, it is part of Germany’s largest science organization.

For Section 2.3 “Geomagnetism” we invite applications for a/n

## **PhD student (m/f)**

**Job Vacancy No. 0898**

This position is part of a joint project with the Mathematics Institute of the University of Potsdam. Data-based models (reconstructions) of the past geomagnetic field are powerful tools to study the geodynamo process generating the Earth’s magnetic field or to estimate the past shielding against solar wind and galactic cosmic rays. The aim of the project is to develop a new reconstruction of the Holocene geomagnetic field with particular focus on uncertainties and the influence of a priori assumptions. The project, lead by Prof. Matthias Holschneider (University of Potsdam) and Dr. Monika Korte (GFZ), will also include a post-doctoral researcher, and the two project scientists are expected to collaborate closely at both institutes.

### **Your responsibilities:**

- assess and update age-depth models of a global compilation of paleomagnetic sediment records
- investigate mathematical methods to account for correlated age errors in the modelling method
- write, implement and test computer programs to derive the model in the team
- present results at international conferences and in scientific publications

### **Your qualifications:**

- Masters degree (or equivalent) in physics, geophysics or mathematics
- experience or strong interest in statistical methods
- good computer skills to fulfill programming tasks in a Linux environment
- good command of spoken and written English language

<b>Starting date:</b>	1 <sup>st</sup> September 2018 or by agreement
<b>Fixed term:</b>	3 years
<b>Working hours:</b>	part-time 75% (currently 29.25h/week)
<b>Salary:</b>	The pay scale grouping will be into pay group 13 TVöD-Bund (Tarifgebiet Ost) provided that all tariff related and personal requirements are met.
<b>Location:</b>	Potsdam

You can expect a very diverse and challenging job in an international work environment that is characterized by exciting research projects. The compatibility of work and family life is of particular concern to the GFZ. Therefore, it offers the opportunity for flexible working time and workplaces. Moreover, there is a kindergarten located on the research campus.

The GFZ is a partner with Geo.X ([www.geo-x.net](http://www.geo-x.net)), and as such it is well connected with other geoscience institutions in Potsdam und Berlin. Geo.X forms the largest regional cluster of geoscientific expertise in Europe and offers excellent opportunities for cooperation and development.

Please submit your application by **15<sup>th</sup> June 2018**.

Equal opportunity is an inherent part of our personnel policy. Therefore we are particularly welcoming applications from qualified women. Severely disabled persons will be given preferential treatment in the case of equal qualification.

We will retain your application documents for at least three months, even if the application is not successful.

If you have any questions regarding this job offer, please feel free to call Ms Buge at +49 (0) 331-288-28878.