

Job Vacancy No. 34/1/10 D

The [Helmholtz Centre Potsdam GFZ German Research Centre for Geosciences](#) is the national Research Centre for Geosciences in Germany and a member of the [Helmholtz Association](#).

The Department 1 "Geodesy and Remote Sensing", section 1.4 "Remote Sensing" invites applications for a

Postdoctoral position (m/f) in the field of soil spectroscopy.

The successful candidate shall support the scientific preparation of the EnMAP mission. EnMAP (Environmental Mapping and Analysis Program) is a German hyperspectral satellite mission funded by the Federal Ministry of Economics and Technology.

Tasks:

- Elaborate concepts and advanced methodologies for the extraction of quantitative soil parameters by means of hyperspectral remote sensing for global and regional change studies.
- Apply these methodologies to hyperspectral data of different spatial resolutions to bridge the gap between air-borne and space-borne data analysis.
- Analyze capabilities of imaging spectroscopy to derive global terrestrial surface characteristics required to investigate soil surface processes and their drivers as well as geological surface formations resulting from hydrothermal alterations, crustal formation and other processes.

Qualifications:

- PhD in Soil Sciences, Geosciences, Geo-ecology or related disciplines with a strong background in remote sensing and/or NIR spectroscopy
- Thorough knowledge of soil sciences including soil processes, terrestrial ecosystems, and global change issues
- Experience in hyperspectral data analysis is desirable
- Knowledge in mineral identification and geological mapping would be a plus
- Fluency in spoken and written English is a prerequisite

Start:	As soon as possible
Duration:	Limited to 2,5 years (extension likely, subject to funding)
Salary:	EG 13/14 TVöD (depending on qualification)
Contact:	Prof. Dr. H. Kaufmann (charly@gfz-potsdam.de) Dr. Saskia Förster (foerster@gfz-potsdam.de)
Application deadline:	Evaluation will begin 3 weeks after announcement and will continue until the position is filled.

Equal opportunity is part of our personnel policy. The GFZ Potsdam encourages applications from qualified female candidates.

There is a kindergarten service available.

Handicapped applicants will be given preference in the case of equal qualifications.

The position is in principle suitable for a part-time employment.

Please submit your applications, stating the above given code no. **34/1/10 D** to:

Helmholtz-Zentrum Potsdam
Deutsches GeoForschungsZentrum
- Personal- und Sozialwesen -
Telegrafenberg
14473 Potsdam