

Vacancy Notice No. 96E/2016

A member of the Helmholtz Association of German Research Centers, the HZDR employs about 1,100 people. The Center's focus is on interdisciplinary research in the areas energy, health, and matter. All research is conducted in close collaboration with other members of the Helmholtz Association as well as with universities, non-university affiliated research institutes, and industry.



For additional information please visit: <https://www.hzdr.de>.

The Helmholtz Institute Freiberg for Resource Technology invites applications as

Research Associate (PostDoc) (m/f)

The position will be available as a parental leave replacement from 01 April 2017 until probably 30 April 2018. The regular weekly working time will be 39 hours. The salary is based on the collective agreement TVöD-Bund. The place of work is Freiberg.

Requirements:

- very good PhD in geosciences, geology, mining or physics
- excellent academic knowledge in the fields of mineralogy, geology of mineral deposits, resource exploration and mineral spectroscopy
- strong interest in the development of new spectroscopic methods and related analytical routines
- hands-on experience in programming (e.g. R, Python) for spectral analyses and image analysis for mineral mapping
- strong motivation to join our exploration team and collaborate on other research fields with focus on multi-scale remote sensing based mineral spectroscopy and hyperspectral imaging

Tasks:

- comprehensive analyses of luminescence emission spectroscopy with focus on rare-earth elements (REE) in minerals in collaboration with the Institute of Applied Physics, TU Bergakademie Freiberg
- technological development of excitation spectroscopy and laser-induced fluorescence spectroscopy for REE exploration including definitions of optimized measurement conditions as well as data processing routines
- research in the fields of REE standard characterization and knowledge transfer to natural conditions and samples from well known REE deposits
- cross-validation with other spectroscopic techniques in collaboration with department and institute colleagues
- research presentation and supervision of undergraduate and graduate students related to the department

If you have any questions, please contact Dr. Richard Gloaguen, Tel.: +49 351 260 - 4424 or Mrs. Manuela Wagner, Tel.: +49 351 260 - 4401.

Kindly submit your completed online application (including cover letter, CV, diplomas/transcripts, etc.) by 31 January 2017 via **Online application** <https://www.hzdr.de/jobs>.

The HZDR is committed to equal opportunity employment and we strongly encourage applications from qualified female candidates. We also carefully consider all applications from job candidates with severe disabilities.



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