

The Helmholtz - Zentrum Dresden - Rossendorf e.V. (HZDR) is a non-profit research organisation and a member of the “Helmholtz Association”. It is jointly funded by German Federal government (90%) and by the state of Saxony (10%). HZDR pursues application-oriented as well as basic research, focussing on the fields of matter, energy, and health. Around 1100 people are employed at HZDR. For additional information please visit: <https://www.hzdr.de>.



The Institute of Resource Ecology is seeking to recruit a

PhD Student (m/f) (3 years)

to work on the project – Towards the bottom of the periodic table (TOP) – funded by the European Research Council. The goal of the project is to advance the fundamental understanding of lanthanide and actinide oxide nanoparticles and to review the real-life processes in which these systems play an important role. More information on the project and team members is available on: <https://www.hzdr.de/db/Cms?pOid=55416&pNid=787>

The position will be available from June 2019. The employment contract is limited to three years. The salary is based on the collective agreement TVöD-Bund. The place of work is Rossendorf Beamline (ROBL) at the European Synchrotron (ESRF) in Grenoble, France. The ESRF is an international science facility and is recognised as one of the top research institutions worldwide, welcoming more than 6 500 scientists every year in fields such as biology, medicine, chemistry, earth and environmental sciences, cultural heritage, materials and surface science, and physics.

ROBL provides unique possibilities to study *f*-electron systems by several synchrotron radiation techniques: EXAFS, XANES, HERFD, RIXS, XES and X-ray diffraction techniques. The PhD student will be engaged in the following areas of TOP: synthesis of actinide and lanthanide systems; characterization by laboratory and synchrotron methods; electronic structure calculations. You will receive the support from team members for engineering, technical and software tasks.

Requirements:

- Master or Diploma in Physics / Chemistry / Material Science / Environmental Science
- High motivation to work in an international team
- Interest in lanthanides/actinides systems or /and in synchrotron radiation techniques
- Fluency in English, good communication and (scientific) writing/reporting skills

If you have any questions, please contact Kristina Kvashnina, tel.: +33 476 88 23 67 (email below) or Andreas Scheinost, tel: +33 476 88 24 62 andreas.scheinost@esrf.fr. Kindly submit your completed application (including cover letter and CV) to kristina.kvashnina@esrf.fr by **12 May 2019**.

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