

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 1400 people are employed at HZDR. For additional information please visit: <https://www.hzdr.de>.



The Institute of Resource Ecology is seeking to recruit a

**Post-Doctoral Fellow (m/f) (9 months)
for the ERC project – Towards the Bottom of the Periodic Table (TOP) -
supported by European Research Council**

The position will be available immediately (preferably from 01/04/2022). The employment contract is limited to 9 months and will end by 31/12/2022. The salary is based on the collective agreement TVöD-Bund. The place of work is 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.

In the framework of the TOP project, we study the electronic and local structures of *f*-electron systems (lanthanides/actinides) by several synchrotron methods: EXAFS, HERFD-XANES, RIXS, XES and X-ray diffraction techniques. TOP covers the following areas: synthesis of actinide and lanthanide systems; characterization by laboratory and synchrotron methods; electronic structure calculations.

For further information please visit:

<https://www.hzdr.de/db/Cms?pOid=55416&pNid=787&pLang=en>

You will lead the development of the RIXS, XRS and XES methods on lanthanides/actinides with a help of electronic structure calculations and participate in ongoing research programmes at the synchrotron. You will receive the support from team members for engineering, technical and software tasks.

Requirements:

You should hold a PhD in physics, chemistry, material science or related fields. Experience with synchrotron radiation and background in X-ray techniques is highly desirable together with very good skills in instrumentation (X-ray spectrometers, in-situ cells, spectroscopy instrumentation), data analysis and data treatment. Previous experience with electronic structure calculations is an advantage.

Kindly submit your completed application (including cover letter and CV) to kristina.kvashnina@esrf.fr by **27 February 2022**.

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.