

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) (18 months)  
for high energy resolution X-ray absorption and emission spectroscopy on Rossendorf  
Beamline at ESRF**

The position will be available immediately. The employment contract is limited to 18 months. 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.

The Rossendorf Beamline (BM20) is dedicated to actinide science. We study the electronic and crystal structures of *f*-electron systems (lanthanides/actinides) by state-of-the-art experimental methods: EXAFS, XANES, HERFD, RIXS, XES and X-ray diffraction techniques. For further information please visit:

<http://www.esrf.eu/UsersAndScience/Experiments/CRG/BM20>

You will lead the development of the instrumentation – X-ray emission spectrometer – at the beamline, participate in ongoing research programmes, provide the support to external users as local contact and develop your own research program, related to the electronic structure of lanthanide/actinide systems. You will receive the support from team members for engineering, technical and software tasks.

**Requirements:**

You should hold a PhD in physics, chemistry or related fields. Very good skills in instrumentation (X-ray spectrometers, in-situ cells, spectroscopy instrumentation) and a previous research related to the X-ray spectroscopy or/and electronic structure or/and actinide/lanthanide systems are desirable.

Kindly submit your completed application (including cover letter and CV) to [kristina.kvashnina@esrf.fr](mailto:kristina.kvashnina@esrf.fr) by **15 February 2021**.

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.