



Facility for Antiproton and Ion Research



Helmholtzzentrum für Schwerionenforschung GmbH

GSI Helmholtzzentrum für Schwerionenforschung in Darmstadt operates one of the leading particle accelerators for science. In the next few years, the new FAIR (**F**acility for **A**ntiproton and **I**on **R**esearch) one of the world's largest research projects, will be built in international cooperation. GSI and FAIR offer the opportunity to work together in this international environment with a team of employees committed to ensure each day to conduct world-class science.

For the Material Research Department we look at the earliest possible date for a

**Post-doctoral researcher (m/f/d)
in Material Science and High Pressure Physics
Posting ID: 1600-19.107**

Tasks:

to develop a platform for irradiation experiments under high-pressure conditions at the ion-beam accelerator facilities of GSI and FAIR.

The focus is designing and conducting irradiations of materials pressurized in diamond anvil cells and investigate the link between pressure, temperature, microstructure and beam-induced phase changes by microscopic and spectroscopic techniques.

Qualifications:

- PhD in materials science, physics, mineralogy, geoscience or relevant fields.
- Experience in high-pressure science and handling diamond anvil cells will be highly evaluated.
- Experience in radiation physics, materials characterization methods and involvement at large scale facilities is an advantage.
- Strong research background and hands-on experimental skills.
- Excellent command of spoken and written English.

We are seeking a self-motivated candidate pursuing a scientific career. The candidate should have excellent communication and organizational skills, critical and analytical thinking, and be able to work successfully within a team in an interdisciplinary research environment. The applicants will be expected to have a high-quality scientific record in international journals and to be competitive in obtaining external research funding.

Interested candidates are requested to submit their application (one document in pdf-format) including:

- Motivation letter
- CV with statement of the earliest possible starting date
- List of publications and invited talks
- Name and contact information of at least two referees.

The position is placed in the Materials Research Department. The group has long-term experience in irradiation experiments with GeV ion beams and operates several beamlines as user facility. Research topics include ion-beam induced effects and defects in different material classes as well as using the ions as tool for nanoscience.

The position is limited to a three years appointment. Depending on the performance during the postdoctoral phase, applications for establishing a Junior Research Group funded via

programs such as Helmholtz Young investigator, ERC Starting Grants, Emmy Noether, or Heisenberg programs will be supported.

Salary is equivalent to that for public employees as specified in the collective agreement for public employees (TVöD Bund).

GSI aims at increasing the number of women in scientific positions. Female candidates are therefore particularly encouraged to apply.

Handicapped persons will be preferentially considered when equally qualified.

Information about FAIR and GSI is available at www.gsi.de and www.fair-center.eu.

For further information please contact Prof. Dr. Christina Trautmann via telephone: +0049 6159 71 2716 or by email: c.trautmann@gsi.de .

If you find this position interesting and challenging, please send your full application documents with the **Posting ID** above to the following address by **13. September 2019** to:

GSI Helmholtzzentrum für Schwerionenforschung GmbH
ABTEILUNG PERSONAL
PLANCKSTRASSE 1
64291 DARMSTADT

or by email to: bewerbung@gsi.de