



Facility for Antiproton and Ion Research



Helmholtzzentrum für Schwerionenforschung GmbH

GSI Helmholtzzentrum für Schwerionenforschung in Darmstadt is one of the leading particle-accelerator laboratories for science. In the next few years, the new FAIR (Facility for Antiproton and Ion Research), 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 conduct excellent science.

The GSI Target Laboratory is looking for a

**Postdoctoral Researcher (Physicist, Chemist or Material Scientist) (all genders) –
Tenure Track
Posting ID: 23.39 6260**

The Target Laboratory is one of the scientific-technical infrastructure departments of GSI and FAIR and a world-leading laboratory for the production of customized targets and stripper foils for accelerator-based research and accelerator applications. The department also provides support and advice to scientific and technical staff members of GSI and FAIR in related topics, and collaborates with target laboratories worldwide.

The position is focused on the development and the construction of a set-up for the reduction of highly enriched rare-earth isotopes for the production of targets and ion source materials for experiments with heavy ions. A close collaboration with experimental groups and the participation in experiments with the manufactured targets and ion source materials is desired.

Your Tasks:

- Investigation on reduction processes of rare-earth isotopes.
- Analyzing the requirements on rare-earth isotopes for ion-source operation and heavy-ion experiments.
- Conceptual design and construction of suitable set-ups for material preparation for target and ion-source application.
- Cooperation with experimental groups within GSI and within GSI-collaborations.
- Supporting the daily work of the target laboratory.

Your Qualification:

- PhD in experimental physics, material science or chemistry.
- Several years of experience of independent work in a physical or chemistry laboratory.
- Preferably, experience in the design and the construction of chemical-physical set-ups.
- Preferably, experience in handling of small amounts of material.
- Good knowledge in the fields of material properties, physical vapor deposition techniques and vacuum technology.
- Good knowledge in physical analytical methods.

- Good command of spoken and written English and a good command of the German language; fluency in German (oral and writing) will be required latest for a successful tenure track evaluation.

We are looking for a person with an independent and responsible approach to work, that feels comfortable to work independently but also has a high level of team spirit and enjoys cooperative teamwork

We offer an interesting and challenging tenure-track position in an international environment. The position is initially limited to five years. After successful evaluation, the position will become permanent.

Salary and benefits are based on the collective agreement for public employees (TVöD Bund) effective at GSI.

GSI supports the vocational development of women. Therefore, women are especially encouraged to apply for the position.

Handicapped persons will be preferentially considered when equally qualified.

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

For further information please contact Dr. Bettina Lommel ([b.lommel\[at\]gsi.de](mailto:b.lommel@gsi.de)).

If you find this position interesting, please send all application documents (a CV, a list of publications, including a commented selection of the three most significant ones, a research interest and achievements statement, names of at least two colleagues willing and able to provide qualified assessments of the candidate) stating the **Posting-ID 23.39 6260** above until **16.06.2023** to:

[bewerbung\[at\]gsi.de](mailto:bewerbung[at]gsi.de)

or to:

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