



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.

The "Superheavy Element Chemistry" research department is active in the study of production, nuclear stability and chemical properties of the heaviest elements, entertaining a vibrant research program at GSI Darmstadt as well as at collaborating institutions in Europe and worldwide.

We are looking for a

**Postdoctoral Research Fellow (Physicist, m/f/d)**  
**Posting ID: 1220-19.70**

**The position:**

The position is focused on studies of the production and nuclear stability of the heaviest elements. The SHE Chemistry department operates the gas-filled recoil separator TASCA and its ancillary detection setups. These are equipped with a state-of-the-art digital electronics data acquisition system based on sampling ADCs. The successful candidate will be integrated into the physics program of the department and will also be active in all experimental activities of the department at TASCA and elsewhere.

**Your responsibilities:**

- Developing and applying experimental techniques for decay spectroscopy of heavy elements
- Developing of data analysis methods for the detection of rare events of heavy elements
- Active role in shaping the experimental program of the SHE Chemistry department.
- Active participation in experiments of the SHE Chemistry department at TASCA and in external institutions

**Requirements:**

- PhD in experimental physics, preferably in low-energy nuclear physics
- Professional experience and very good knowledge in scientific programming (e.g., C++, Root, Java, etc.) for experimental data analysis using LINUX and Windows platforms is mandatory
- Good knowledge of modern nuclear radiation detectors and electronics, data acquisition and control systems in nuclear science experiments is desirable
- Good communication skills and a good command of spoken and written English

This is a three-year position. The starting date is January 01, 2020. Salary is equivalent to that for public employees as specified in the collective agreement for public employees (TVöD Bund).

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](http://www.gsi.de) and [www.fair-center.eu](http://www.fair-center.eu).

For further information please contact Prof. Christoph Düllmann - email:  
c.e.duellmann@gsi.de.

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**Applications should include:**

- 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.

If you find this position interesting, please send all application documents by e-mail as a single pdf-file and the Posting ID above by **June 23, 2019** to

**GSI Helmholtzzentrum für Schwerionenforschung GmbH**  
**ABTEILUNG PERSONAL**  
**PLANCKSTRASSE 1**  
**64291 DARMSTADT**

or by email to: [bewerbung@gsi.de](mailto:bewerbung@gsi.de)