



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 (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 in this international environment with a team of employees committed to ensuring each day to conduct world-class science.

The CBM (Compressed Baryonic Matter) experiment is one of the major experiments to be conducted at this new facility. CBM will investigate strongly interacting matter by measuring heavy-ion collisions, with the ambitious aim to achieve very high interaction rates. The experimental concept foresees real-time data selection in software, which requires highly performant and efficient algorithms for event reconstruction.

For the CBM department at GSI, we seek at the nearest possible point in time a

**Physicist or Computer Scientist (m/w/d)
as developer for the CBM software framework
Posting ID: 771100-19.141**

We expect:

The successful applicant is expected to take active part in the development of the CBM software framework for simulation, online and offline reconstruction, and analysis. In particular, he will be involved in the migration of the current, task-based system to a message-queue based system suitable to be applied for data analysis in real-time. As such, he/she will part of the CBM software group at GSI. Further work areas are the management of software integration and integrity and the maintenance and further development of web-based tools for collaborative software development.

Your profil:

From the applicant, we expect a PhD in physics or computer science, excellent knowledge of the C++ programming language, good knowledge of current computer architectures, and the ability to work in an international research team, which requires communication skills in the English language. Experience in software development and/or administration for large high-energy nuclear or particle physics experiments is of advantage.

We offer:

We offer to the successful applicant a challenging position at the forefront of nowadays technology, in the context of an international collaboration of about 400 members. The position is limited to a period of four years.

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

GSI promotes the professional development of women and therefore expressly welcomes applications from women.

Handicapped persons will be preferentially considered when equally qualified.

If you find this position interesting and challenging and would like to work in an exceptional, international scientifically excellent environment, please send your application documents with information of your earliest possible starting date and the **Posting ID 771100-19.141** to the following address by **January, 6th, 2020**:

FAIR GmbH
c/o GSI Helmholtzzentrum für Schwerionenforschung GmbH
ABTEILUNG PERSONAL
PLANCKSTRASSE 1
64291 DARMSTADT
or by email to: bewerbung@gsi.de

Grading depending on qualification