Facility for Antiproton and Ion Research

Helmholtzzentrum für Schwerionenforschung GmbH

The Ruhr-Universität Bochum is one of Germany's leading research universities, addressing the whole range of academic disciplines. A highly dynamic setting enables researchers and students to work across the traditional boundaries of academic subjects and faculties. To create knowledge networks within and beyond the university is Ruhr-Universität Bochum's declared aim.

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 working in this international environment together with a team of employees committed to conduct excellent science every day. GSI is a member of the Hermann von Helmholtz-Gemeinschaft Deutscher Forschungszentren e.V., the largest scientific organization in Germany, in which 18 participating centers develop solutions and technologies for the world of tomorrow. To this end, they use, among other things, large-scale equipment at which the international scientific community conducts research and generates freely accessible knowledge.

The Ruhr-Universität Bochum – faculty of Physics and Astronomy and the GSI Helmholtzzentrum für Schwerionenforschung invite applications for a

JOINT PROFESSORSHIP (m/f/div; W2) AT THE RUHR-UNIVERSITÄT BOCHUM AND AT GSI DARMSTADT IN EXPERIMENTAL PHYSICS IN THE FIELD OF EXPERIMENTAL EXPLORATION OF HADRONS

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according to the "Jülicher Modell" in Experimental Physics in the field of hadron physics to start as soon as possible.

The future holder of the post will represent the subject in research and teaching. From the research perspective, the professorship is deeply embedded into the NRW excellence network NRW-FAIR. The applicant should demonstrate the ability to develop a productive and vigorous externally-funded research program in the field of experimental hadron physics as well as the enthusiasm and drive to teach and mentor both undergraduate and graduate students. The new professorship should strengthen and/or complement existing activities in the field of hadron physics with a focus on either developing cutting edge charged particle tracking detectors or on developing and applying Machine Learning methods to the operation and physics data analysis of hadronic/particle physics experiments. The successful candidate will mainly focus on the experiments at FAIR (Facility for Antiproton and Ion Research) GSI Darmstadt in Germany, such as CBM, HADES or PANDA. Modern detector technology is also used in the engineering sciences or medicine, and there are already existing alliances in Bochum in this regard.

The successful candidate is also expected to contribute proactively to both Bachelor and Master level teaching, supervision of doctoral students and scientific staff mentoring. Teaching duties will concentrate on the experimental physics curriculum, with a teaching load of at least 2 SWS. Positive evaluation as a junior professor, habilitation or equivalent academic achievement are required. Established qualifications in research and teaching are required.

We expect in addition to a strong commitment to research in hadron physics:

- a strong commitment to academic teaching at undergraduate and graduate levels and to the promotion of young researchers;
- the documented ability to attract external funding;
- readiness to participate in interdisciplinary research and joint research projects at both the faculty and research division at GSI;
- commitment to public outreach activities.

The Ruhr-Universität Bochum and GSI stand for diversity and equal opportunities. For this reason, we favor a working environment composed of heterogeneous teams, and seek to promote the careers of individuals who are underrepresented in our respective professional areas. The Ruhr-Universität Bochum and GSI expressly request job applications from women. In areas in which they are underrepresented they will be given preference in the case of equivalent qualifications with male candidates. Applications from individuals with disabilities are most welcome.

Complete applications including CV, copies of academic certificates, list of publications, list of self-raised third-party funds, and a teaching record as well as a statement of teaching philosophy and a research plan should be addressed to the Director of GSI Prof. Dr. P. Giubellino and the Dean of the faculty Prof. Dr. H. Hildebrandt.

https://www.gsi.de/jobskarriere/stellenangebote/online-bewerbung

not later than **31.05.2024**. Further information can be obtained at https://www.physik.ruhr-uni-bochum.de/ and https://www.gsi.de/start/aktuelles. Information on the collection of personal data at the application process: https://www.ruhr-uni-bochum.de/en/information-collection-personal-data-application-process.

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