

Postdoctoral Position in Experimental Nuclear Physics

Technische Universität Darmstadt and GSI Helmholtzzentrum für Schwerionenforschung GmbH

Deadline for applications: 15/06/2018

Technische Universität Darmstadt and GSI Darmstadt Helmholtzzentrum für Schwerionenforschung GmbH together with the Facility for Antiproton and Ion Research, FAIR invite applications for a postdoctoral research position in the area of nuclear spectroscopy.

GSI is one of the world's leading nuclear science research facilities. In the coming years the new international accelerator facility FAIR (Facility for Anti-proton and Ion Research), one of the largest research projects worldwide, will be built at GSI. Realizing FAIR and the FAIR experiments, with NUSTAR being the largest one, goes in parallel to pursuing a dedicated research program at the current/upgraded GSI facility. This will create unique opportunities to actively contribute to the nuclear spectroscopy experiments at GSI and FAIR.

The successful candidate will be based in the Nuclear Spectroscopy department of GSI conducting research at GSI/FAIR, including realization of experiments, supervision of students, and the dissemination of research results. The department hosts large gamma-detector arrays, such as FATIMA and DEGAS, as well as a broad range of other detectors built for NUSTAR within the HISPEC/DESPEC experiment. A main focus of the present position will be the development and realisation of the analysis software including DAQ control for the experiments. Moreover, the successful candidate will take part in the spectroscopy programme, currently concentrating on studies of the structure of heavy and neutron-rich nuclei close to the $N=126$ line as well as above 208Pb , and will have the opportunity to analyse some of the data taken in the upcoming experiments.

The position is initially for two years with the possibility of extension.

Expected Qualifications

- Ph.D. in experimental Nuclear Physics,
- Experience/ability working at an international facility or in an international collaboration,
- Experience in the analysis procedures and DAQ of nuclear physics experiments.

How to Apply

For immediate consideration, please send your CV, research interest and achievements statement, and names of two referees to Jürgen Gerl (j.gerl@gsi.de).