

## Call for 2016 GSI-ONACPR Fellowship Applicants

**Research Laboratory:** GSI Helmholzzentrum für Schwerionenforschung GmbH

**Division/Group:** CBM

**Supervising scientist:** Dr. Walter F. J. Müller, Email/Phone: w.f.j.mueller@gsi.de/

**Research Field:** *Data Acquisition*

**Position:** Postdoctoral Research in heavy-ion physics

**Research Area:**

The Compressed Baryonic Matter (CBM) Experiment at the future Facility for Antiproton and Ion Research (FAIR) in Darmstadt/Germany is designed for the study of heavy-ion collisions at extremely high reaction rates. The detectors are read out by a free-streaming (triggerless) front-end electronics which provides a time stamp for each signal. The raw data is transferred via optical links to FPGA based processing units where data is re-formatted and forwarded to a high-performance cluster, where an online track- and event reconstruction and selection is performed.

**Specific Requirements:**

The candidate should have experience in design and operation of modern data acquisition systems, including the development of large scale firmware designs for FPGAs. After a job training period, he should take over responsibility for the FPGA firmware development of the experiment.

**Work Place:** Darmstadt

**Earliest Start:** December 2016

**Language Requirement:** (please note that we require for all candidates proven records of English, e.g. CAE certificate)

**Further Remarks:**