

Call for 2016 GSI-ONACPR Fellowship Applicants

Research Laboratory: GSI Helmholzzentrum für Schwerionenforschung GmbH

Division/Group: Helmholtz-Institute Mainz

Supervising scientist: Prof. Dr. F. Maas
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Research Field: *Hadron Physics, hadron structure and spectroscopy*

Position: Postdoctoral Research in the HIM in Mainz

Research Area:

The research area is particle physics concentrating on the region of QCD in the nonperturbative range of several GeV. The PANDA Experiment at the future FAIR facility in Darmstadt will measure antiproton annihilation reactions in the energy range of s up to 30GeV^2 . The physics topics covered range from spectroscopy of charmonium and charmonium like objects as $fXYZ$ -states, glueballs etc., nucleon structure observables hypernuclear spectroscopy and hadrons in media. Our group concentrates on nucleon structure observables like for example electromagnetic form factors in the time like region. In addition, we work on hardware research and development for the electromagnetic calorimeter by developing prototypes and testing them at the 1.6 GeV electron accelerator MAMI in Mainz.

Specific Requirements:

General experience in experiment simulation and analysis techniques. Programming language c++ and experience in a large simulation framework is required. Experience in hardware aspects of detectors like calorimeters is desirable like electronics, general hardware of detectors, data acquisition system etc.

Work Place: Mainz

Earliest Start: October 2016, later start is possible.

Language Requirement: English

Further Remarks: Mainz is a university town with about 200.000 inhabitants in close vicinity to Frankfurt Airport. The Helmholtz-Institute Mainz is an outpost of the Helmholtz-Center GSI on the campus of the Mainz University, which has about 33.000 students with a very international environment.