

The institute Accelerator Physics is looking for:

# Postdoctoral Physicist (f/m) in the field of accelerator physics or related discipline

Reference No.: FG 2017/5

The Institute for Accelerator Physics at HZB operates and develops modern particle accelerators for a variety of applications. Together with the Operations Department and the Institute for SRF – Science and Technology it works on the upgrade of BESSY II to a variable pulse length storage ring - BESSY VSR and the Berlin Energy Recovery Linac Project bERLinPro. Important task for the future is the preparative work for the BESSY III project.

### **Tasks**

- Beam optic measurements and characterization with beam based methods like LOCO and advancements of these methods.
- Development of new and optimized beam optics for the synchrotron light sources BESSY II and MLS using modern simulation tools and methods like MOGA.
- Development of beam optics and lattices for light sources with lowest emittance and flexibility, in particular contribute to BESSY VSR and BESSY III in the areas of beam dynamics and lattice design
- Operation and development of the synchrotron light sources BESSY II and MLS.
- mentoring PhD students

## Requirements

- Degree in physics or related discipline, experienced in the field of accelerator physics, PhD.
- Excellent knowledge and longtime experience in the usage of beam optics, beam dynamics simulation codes, as well as mathematical modelling.
- Extensive experience in the operation of storage rings, especially light sources.
- Broad knowledge in the area of collective effects in electron storage rings.
- Being a team player with excellent English skills in speech and writing.

## What we offer

The salary is based on the Collective Agreement for the German Public Service (TVöD-Bund).

We particularly welcome applications from women. Preference will be given to handicapped applicants provided equal suitability.

# How to apply

Have we sparked your interest? Then we look forward to receiving your application by 23.04.2017.

For German version, please click on the following link: German Version.

Helmholtz-Zentrum Berlin für Materialien und Energie GmbH Hahn-Meitner-Platz 1 14109 Berlin www.helmholtz-berlin.de

1 von 2 09.03.2017 18:00

Helmholtz-Zentrum Berlin für Materialien und Energie (HZB) operates two large facilities for materials research: the neutron source BER II and the synchrotron source BESSY II, which provide deep insights into the structure of materials and the processes within complex systems. Other important focuses of HZB research are thin film photovoltaics and solar fuels. Each year around 3,000 scientists use the HZB infrastructure facilities.

## SCIENCE + CAREER + DIVERSITY = HZB

... is the formula for our successful human resources policy. We offer wide-ranging internal and external training programs for our employees as well as a special support program for young scientists. Our family-friendly workplace policy includes flexible working hours, telework arrangements and holiday programs for employees' children.

### **CONTACT FOR FURTHER INFORMATION:**

Prof. Dr. Andreas Jankowiak, Dr. Markus Ries +49 30 8062 13508, +49 30 8062 17915 andreas.jankowiak@helmholtz-berlin.de, markus.ries@helmholtz-berlin.de

## **IMPPRINT DATA PROTECTION**



INTERNATIONAL APPLICANTS WELCOME!

2 von 2 09.03.2017 18:00