



The University of Bonn is an international research university that offers a wide range of degree programs. With 200 years' worth of history, some 38,000 students, over 6,000 employees, and an excellent domestic and international reputation, Bonn University is among Germany's leading universities.

The ATLAS group at Physikalisches Institut invites applications for a

### **Postdoctoral Researcher (Physicist or Electrical Engineer) in Detector Development**

Starting date: April 1<sup>st</sup>, 2021. The contracts will initially have a fixed duration of two years with an option for extension.

The successful candidate will work in the ATLAS Pixel Detector group. The group is playing a leading role in the upgrade of the ATLAS detector at CERN's LHC through its involvement in the development and construction of the ITk Pixel Detector. This includes development and testing of prototypes of the ITk Pixel readout chip, the construction of multi-chip pixel modules and the development of the serial powering concept. In addition to validating this novel powering concept with full-size prototypes we have taken responsibility for the manufacturing of some mechanical parts, the assembly of modules and the integration of loaded local supports during the production of the ITk Pixel Detector, in particular the 'Outer Barrel'-section. With the new lab building "Forschungs- und Technologiezentrum Detektorphysik", the institute provides excellent laboratory space and offices with the most recent equipment. Different R&D groups with expertise on a wide range of technologies will work closely together. In addition, the accelerator ELSA provides the opportunity for in-house test beam.

#### **Job description**

The successful candidate is expected to take charge of the setup and commissioning of the Outer Barrel assembly lines and take a leading role in the preparation for the site qualification for production. The work will include the integration of all required off-detector components for testing loaded local supports like power supply units, cooling system, detector control and data acquisition system as well as integration tooling for modules and services into the assembly lines. Active participation in the relevant ATLAS meetings and contributions to the development of the electrical QC procedures for serial powering chains on loaded local supports are expected, as well.

#### **Qualifications**

Applicants should hold a Ph.D. in experimental particle physics (with strong background in detector physics) or in electrical engineering and should have experience in the assembly of particle detectors.

#### **How to apply**

Applicants should send a single pdf file including motivation letter with statement on the preferred start date, scientific CV, publication list and names and contact details of two referees (position, professional address, and e-mail) to Nicole Felde ([felde@physik.uni-bonn.de](mailto:felde@physik.uni-bonn.de)).

The contract will initially be limited to 2 years duration with extension possible. The salary scale will be 100% E 13 according to the German TV-L salary scale.

**Application deadline:** 28<sup>th</sup> February 2021

More information about the position can be obtained from Prof. Dr. Klaus Desch ([desch@physik.uni-bonn.de](mailto:desch@physik.uni-bonn.de)). The University of Bonn is committed to diversity and equal opportunities. It is certified as a family-friendly university. It aims to increase the proportion of women in areas where women are underrepresented and to promote their careers in particular. It therefore urges women with relevant qualifications to apply. Applications will be handled in accordance with the Landesgleichstellungsgesetz (State Equality Act). Applications from suitable individuals with a certified serious disability or similar are particularly welcome.