The Rheinisch Friedrich-Wilhelms-University of Bonn is an international research university with a broad range of subjects. With 200 years of history, about 35,000 students, more than 6,000 members of staff and an excellent national and international reputation, the University of Bonn ranks among the most renowned universities in Germany and has recently been awarded the title Excellence University.

The Silicon Lab (SILAB) led by Prof. Dr. Jochen Dingfelder and Prof. Dr. Klaus Desch is located at the Research and Technology Center Detector Physics (FTD) and focuses on the development of pixel detectors for high-energy physics experiments, for instance at the research centers CERN in Switzerland or KEK in Japan. Research activities at the SILAB include the HL-LHC Upgrade of the ATLAS pixel detector, the DEPFET pixel detector for the Belle II experiment, the development of monolithic CMOS pixel detectors as well as imaging applications.

We are looking to fill a permanent position as

**ASIC designer (m/f/d) (100%, TV-L 13)**

in the SILAB at the earliest possible date.

**Your tasks:**
- Active participation in the research and development of pixel detectors and corresponding ASIC electronics
- Instructing and providing guidance to members of the chip design group of the SILAB for the development of digital, analog and mixed-signal ASICs
- Organization and planning of large projects in ASIC design
- Preparation of chip submissions
- Development of measurement setups for testing of ASICs and detector systems

**Your profile:**
- University education (master’s degree/diploma) in electrical engineering or physics
- Experience in digital design flow
- Experience with verification of large mixed-signal designs
- Deep knowledge in the application of chip-design software, simulation software and FPGA development software
- Ability to cooperate and to work in a team
- Fluency in English

**We offer:**
- diverse and interesting development activities in the context of large international collaborations,
- opportunities to exploit various technologies (from device physics simulation with TCAD to wafer level post processing) for developing new detector concepts,
- a broad spectrum of applications in high-energy physics, X-ray imaging or medical imaging,
- an excellent environment for the development of detector systems at the FTD,
- opportunities for continuous education,
- occupational retirement scheme (VBL),
- numerous offers for university sports,
- a very good connection to public transport and the possibility to purchase a VRS-large customer ticket or to use low-priced parking offers,
- permanent appointment with remuneration according to salary group 13 TV-L.
The University of Bonn is committed to diversity and equal opportunity. It is certified as a family-friendly university and has a dual career service. It aims to increase the proportion of women in areas where women are underrepresented and to particularly facilitate their careers. Therefore, the University of Bonn strongly encourages applications from qualified women. Applications will be handled in accordance with the State Equality Act (“Landesgleichstellungsgesetz”). Applications from qualified individuals with a certified severe disability and from those of equal status are particularly welcome.

If you are interested in the position with the reference number 3.4/2022/302, please send your complete application documents (curriculum vitae, statement of development/research activities and experience, contacts for reference letters) by January 30, 2023 via the online application form. For further information, please contact Prof. Dr. J. Dingfelder (Tel.: +49-228-73-3532, dingfelder@physik.uni-bonn.de) or Dr. H. Krüger (Tel.: +49-228-73-2996, krueger@physik.uni-bonn.de).