PRISMA

JOHANNES GUTENBERG UNIVERSITÄT MAINZ

Electronics Engineer in the PRISMA Detector Laboratory

The **Faculty 08 – Physics, Mathematics and Computer Science –** is welcoming applications for

an Electronics Engineer (m/f)
for the Detector Laboratory of the Cluster of Excellence PRISMA
(EG 13 TV-L)
reference number: 7617-08-st

to start as soon as possible. The initial position is temporary, until 30.04.2019.

The Cluster of Excellence PRISMA (www.prisma.uni-mainz.de) deals with fundamental questions concerning the nature of the elementary building blocks of matter and their significance for the physics of the Universe. The participating research groups work in an international environment in the fields of astroparticle, particle and hadron physics as well as nuclear chemistry and precision physics with cold neutrons and ion traps. The task of the PRISMA Detector Laboratory is to support the experimental developments within the cluster by realizing detector hardware and electronics as well as by exploiting new technologies. The Detector Laboratory comprises three main areas: electronics, photon detectors, and TPC and tracking detectors.

Your tasks:

Working closely with the other members of the team, you will:

- develop novel electronics for the operation and readout of detectors
- simulate and develop high-speed data transmission systems
- design Printed Circuit Boards (PCB) and coordinate the production and the assembly
- help with the purchase and the operation of new technical equipment
- offer training courses and tutorials for users of the Detector Laboratory on an occasional basis

Your profile:

Candidates are expected to have a degree (Diplom, Master) in Electronics Engineering, Computer Science, Physics (or equivalent) and a very good knowledge in one or more of these topics

- Electronic Design Automation (EDA) programs and suites (simulation, development and layout of discrete electronics circuits and systems)
- Low noise analog electronics
- Digital electronics with application in Field Programmable Gate Array (FPGA)

The position requires a good knowledge of English, including technical. In case of limited knowledge of German you will have the opportunity to improve your language skills.

Experience with the development of electronics for physics experiments and with projects in the scope of international collaborations is advantageous.

We offer:

An independent and varied job with direct applications in cutting-edge research projects. In addition, we offer continuing education opportunities and good career options.

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Applications from senior candidates are welcomed.

Disabled applicants will be given preference if equally qualified.

For further information, please contact
Dr. Andrea Brogna (andrea.brogna@uni-mainz.de).

Please submit your written application including the usual documents and **stating the identification number: 7617-08-st** no later than **27.11.2017** to the **Abteilung Personal – PA 2 - der Johannes Gutenberg-Universität Mainz, 55099 Mainz.**

Job advertisements and further information also at: www.uni-mainz.de/personal/