

The Cluster of Excellence “Precision Physics, Fundamental Interactions and Structure of Matter (PRISMA++)” at the Johannes Gutenberg University Mainz addresses the basic questions about the nature of the fundamental building blocks of matter and their importance for the physics of the universe. It consists of renowned research groups that work primarily in the areas of astroparticle, high energy, nuclear, hadron physics as well as precision physics with ultra-cold neutrons and ion traps.

One of the key initiatives of the Cluster is the PRISMA Detector Laboratory (<https://prisma.uni-mainz.de/en/prisma-detector-lab/>), providing expertise and infrastructure for the development, construction and testing of state-of-the-art particle detectors, with a particular focus on tracking detectors and time-projection-chambers, photodetectors, fast electronics and scintillator and fluorescence detectors.

The detector laboratory is offering a three-year

Detector Innovation Fellowship

to pursue an independent, innovative detector research project. The successful candidate will have full access to the detector laboratory infrastructure and a project budget of 50'000 EUR.

We require a Ph.D. in experimental (astro-)particle, hadron, nuclear or atomic physics and significant experience with detector research and development. Salary and benefits are in accordance with German standards (TV-L E14, approx. 61,600 – 70,000 EUR p.a.).

Candidates are invited to propose an independent research project furthering detector technologies fitting to the portfolio of the cluster and making use of the infrastructure of the detector laboratory. The project should have connections to the experiments pursued by the groups in PRISMA++ but also have a scope beyond a single experiment. Applications will be judged by the qualifications and potential of the candidate as well as the quality and potential impact of the research project.

Please direct any questions and your application (cover letter, CV, project description of max. 5 pages and list of three references in a single pdf file) to Sebastian Böser and Niklaus Berger (dif@uni-mainz.de) until March 31st 2026.

The Johannes Gutenberg University Mainz aims at increasing the percentage of women in academic positions and strongly encourages women scientists to apply. The university is an equal opportunity employer and particularly welcomes applications from persons with disabilities.