Open Positions

PhD Fellowship in Physics

The DFG research training group "**Particle Detectors For Future Experiments - From Concept to Operation**" at the University of Mainz, Germany, offers

Several PhD Fellowships

(TVL-13 75% Payscale, 3 years)

for outstanding graduates in an attractive and international research environment, who want to shape the next generation of particle detectors. The positions are available to commence from April 2024 and are tied to working towards a doctorate (PhD). We are offering the fixed-term, positions (75% FTE, TVL-13 Payscale) for three years.

The Johannes Gutenberg University of Mainz is one of the largest Universities in Germany, with more than 31000 students from more than 100 nations. Its physics department is among the leading research institutions in Europe and hosts the federal excellence cluster PRISMA+ with a focus on fundamental physics.

The Graduate Training Group aims at the development of new detector technologies for current and future experiments in astroparticle-, particle- and nuclear-physics. Your tasks as fellow would include the research at the technological frontier of detector physics in the context of experiments that probe fundamental physics, participation at a wide range of dedicated trainings and research stays at our collaborators in Europe, USA and Asia. You will be integrated in high-profile experiments ranging from ATLAS and BES-III over DUNE and ICECube to Project8, JUNO or MAGIX. Our future fellows should have

- a very good master's degree or diploma in physics,
- experience with working in research laboratories with potential first experiences in one or more of the following topics: scintillators, gaseous based detectors, detector electronics, hardware programming,
- substantiated knowledge of nuclear, particle or astro-particle physics is desirable.
- good command of written and spoken English. German language skills would be advantageous but are not a requirement,
- team orientation, good communication and organizational skills, ability to work independently

Are you interested? Then we look forward to receiving your application via email by 26th **January 2024**, in one PDF, to the research training group **particle-detectors@uni-mainz.de**. Applications received before the 26th January will be given full consideration. The review of individual applications will however already start once all documents required have been submitted. Applicants are encouraged to name a principal investigator of the research training group, who could act as supervisor (see www.particle-detectors.uni-mainz.de) or indicate which of the research areas (Photon-based Detectors, Ultra-fast data processing and reconstruction, High Performance Detectors) they would like to join. Your application should include

- a detailed curriculum vitae,
- a letter explaining your motivation for joining our research training group, your research interests and previous research experiences.
- Scans of university degrees including transcripts of records (lists of courses with your grades) in German or English
- Candidates who have obtained their degrees from a university where neither English nor German is the teaching language must prove their language proficiency (B2 level or higher) by a certificate not older than three years.

Please arrange in addition **two signed letters of recommendation** by senior scientists, with institutional letterhead, to be emailed separately to the above address. At least one referee must come from an institution other than your current one. Referees are asked to submit the complete referee form, available at **particle-detectors.uni-mainz.de/application**. All documents may be submitted in English or German. Documents in any other language must be translated and legally certified by the German embassy, consulate or a certified translator.

The Johannes Gutenberg-Universität 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.