Postdoctoral Researcher (f/m/d) in (Astro-)Particle Physics

Job description: The Institute of Experimental Particle Physics (ETP) at KIT invites applications for a postdoctoral position (f/m/d) in (Astro-)Particle Physics. Our group has long-standing experience in rare-event searches and is a member of the XENON and DARWIN collaborations searching for Dark Matter. Your task will be to develop and build a mobile detector unit to measure the neutron flux in the underground laboratory LNGS in Italy. As a first step, this includes a thorough investigation of different detection technologies based on detailed simulations. You will design and optimize the detector system and lead its construction and test measurements at KIT. Together with colleagues at LNGS, you will set up and commission the detector system in the underground lab. This project is funded by the German Federal Ministry of Education and Research (BMBF) and is closely linked to our research activities in Dark Matter search.

Qualification: You are an enthusiastic experimentalist holding a master degree (university or equivalent) in physics and have completed a doctorate in particle/astroparticle physics or a related field with relevant experience. Work experience with neutron measurements or data acquisition and electronics of particle-physics experiments is highly welcome. A background in software development, notably with GEANT, is advantageous.

We offer: The position is embedded into the Dark Matter group at ETP which is part of the KIT Center Elementary Particle and Astroparticle Physics (KCETA) with theoretical as well as experimental research groups involved in e.g. IceCube, Pierre Auger Observatory, KATRIN, XENON, DARWIN, CMS, and Belle/Belle II. We offer an attractive and modern workplace with access to the excellent facilities of KIT, diverse and responsible tasks, and a wide scope of advanced training options.

Salary: The remuneration occurs on the basis of the wage agreement of the civil service in TV-L.

Institute: Institute of Experimental Particle Physics (ETP)

Contract duration: Fixed-term for 2 years

Starting date: As early as possible, not before April 1st, 2021

Application up to: February 28th, 2021. Later applications may be considered until the position is filled.
Contact person in line-management:
For further information and technical details please contact Prof. Dr. Kathrin Valerius (kathrin.valerius@kit.edu, phone: +49 721 608 29014).

Application:
Please send your application including a cover letter, your CV, and all certificates in electronic form (preferably as a single pdf file) to the contact person. In addition, please arrange for two letters of reference to be sent directly to kathrin.valerius@kit.edu.

We prefer to balance the number of female and male employees. Therefore, we kindly encourage female applicants to apply for this job.

Recognized severely disabled persons will be preferred if they are equally qualified.

KIT is certified as a family-friendly university (familienfreundliche Hochschule) and offers part-time employment, leaves for family-related reasons, dual career options, and individual coaching for family-work balance.