The Mu3e experiment aims to search for the process $\mu \rightarrow eee$ with a branching ratio sensitivity down to 10^{-16}. To this end, we are currently commissioning a high-precision, high-rate capable detector based on high-voltage monolithic active silicon pixel sensors and a scintillating fibre and tile hodoscope at the world's most intense DC muon beam at PSI in Switzerland.

The institute of nuclear physics at the Johannes Gutenberg University Mainz is building and operating the data acquisition and GPU-based filter farm for Mu3e. We are looking for two

Ph.D. Thesis Students

to join our group. The successful candidates will be involved in the commissioning and operation of the data acquisition and filter farm and analyze first data. In parallel we prepare the second phase of the experiment, where the data acquisition has to deal with twenty-fold increased rates. We require a masters degree (or equivalent) in physics, programming skills and a keen interest in electronics; experience with FPGAs and or GPUs is of advantage. We offer work in a small international collaboration on cutting-edge electronics. The positions are for 3 years. Salary and benefits are in accordance with German standards (TV-L E13, 75%).

Please direct any questions and your application (cover letter, CV, list of two references in a single pdf file) to Prof. Dr. Niklaus Berger, niberger@uni-mainz.de.

Johannes Gutenberg University Mainz cares about equal opportunities for male and female scientists, qualified women are especially encouraged to apply. Handicapped applicants will be given preference to others of equal qualification.