PhD position in hadronic physics with electron scattering

What is the position?

The Institute for Nuclear Physics (KPH) at Johannes Gutenberg University Mainz (JGU) invites applications for a PhD position in experimental nuclear physics. The successful applicant will contribute to the construction and commissioning of MAGIX, under construction at the new MESA facility, and participate in data collection and analysis for experiments at MESA and/or MAMI.

Additionally, you will be strongly encouraged to join simulation and hardware development efforts for the ePIC detector at the electron-ion collider (EIC), a next-generation QCD facility planned for Brookhaven National Laboratory.

The position is fully funded with competitive salary and benefits (E13 TV-L at 75%). The initial appointment is 3 years and will begin as soon as possible. If you have a preferred start date, please indicate it in your cover letter.

Why should I apply?

KPH is home to cutting-edge labs and facilities for nuclear and hadronic physics research, including the MAMI and MESA electron accelerators. You will have the opportunity to participate in all stages of a nuclear physics experiment, from commissioning and calibration to data taking and analysis. KPH and JGU provide a stimulating environment for study and research, with access to professional development, specialized training, and international collaborations. Come do great science in the beautiful city of Mainz!

Who can apply?

You must hold a Master's degree in physics by the time of hire, ideally in nuclear or particle physics. Responsibilities will require data analysis, Monte Carlo simulations, and programming (ROOT, C++, Python, GEANT4); previous experience in some/all of these areas is highly advantageous.

How do I apply?

Send the following documents in a single PDF file to tkutz@uni-mainz.de with the subject line "MAGIX PhD 2025":

- Cover letter
- Curriculum Vitae
- Brief statement (maximum 2 pages) of research experience and interests
- Transcript of Master's courses

Additionally, you should arrange for two confidential letters of recommendation to be sent directly to the same email address. Complete applications will be considered until the position is filled. For full consideration, please submit by May 1, 2025.