The Erlangen Center for Astroparticle Physics (ECAP) at the Friedrich-Alexander-University University Erlangen-Nürnberg (FAU) is seeking outstanding individuals for a

Postdoctoral researcher position (dosimetry)

The postdoctoral position is set in the project NitroFlash, a technology transfer project funded by the German Federal Ministry of Research. The project is a close collaboration between ECAP and the Helmholtz-Research Center DESY.

The aim of NitroFlash is the development of a detector for integrated online dosimetry in the timing range of FLASH radiation therapy pulses towards a commercially available product. FLASH radiation therapy is a cancer treatment with ultra-high dose rates and short treatment times, currently under study at the PITZ accelerator at DESY. The work will be carried out jointly by ECAP, DESY, and Berthold Technologies GmbH & Co. KG.

The postdoctoral position is open for an initial period of 2 years at 100% TVL-13 employment at the FAU. The main location of work is at the Photo-Injector Test facility at DESY in Zeuthen (PITZ, near Berlin).
The work will entail coordinating, preparing and performing the large sequence of test measurements of the detectors, which will be developed jointly by DESY and ECAP. The postdoctoral scholar is also expected to join operation of the accelerator with its ultimately wide parameter range.

Candidates are expected to have an excellent university degree in physics (or very closely related field) with a PhD or equivalent degree. Candidates should have prior experience in accelerator physics or detector development. An excellent command of the English language is required, knowledge of German is of advantage.

Further inquires about the position and work at DESY can be obtained from Dr. Matthias Gross (matthias.gross@desy.de).

Applications, including a Statement of Interest, CV, and contact information of reference persons should be sent to Prof. Dr. Anna Nelles, preferably using this application link:
https://faubox.rrze.uni-erlangen.de/preparefilelink?folderID=2JriFB3KwVxmq1KYL3tcu

Initial candidate selection will begin on January 1st 2024.
A start date in April 2024 is envisioned.