

## Stellenbezeichnung: Researcher

Area: Faculty IV: School of Science and Technology | Job scope: part-time | Duration of employment: limited | Posting-ID: 5919



The University of Siegen is a modern university with an international orientation and a focus on interdisciplinary research. It currently has around 15,000 students and covers a range of research fields from the humanities, social and economic sciences to natural sciences, engineering and life sciences. With over 2,000 employees, the university is one of the largest employers in the region and offers a unique environment for teaching, study, research and knowledge transfer.

### We seek:

In the Faculty IV: School of Science and Technology, Department Physik, we are looking for a researcher as of the 01.02.2024 at the following conditions:

- 75% = 29,87 hours
- Pay grade 13 TV-L
- limited until 31.01.2027

### Your tasks:

The tasks for this project are the design and construction of a prototype of a Compton Camera for medical imaging with possible applications in cancer treatment using targeted alpha-particle therapy. Imaging is done using gammas in the energy range above 500 MeV where Compton scattering dominates. Both, the scattered gamma and the Compton electron will be reconstructed in order to locate the gamma source. Your responsibility is to build the Compton Camera and determine its performance. SiPMs will be used for detection of single photons. There is a close collaboration with the department of electrical engineering where a real time image reconstruction will be developed.

### Your profile:

- Master's or equivalent degree in physics or medical physics
- Experience in the field of experimental particle physics, medical physics or detector development
- Willingness to engage in interdisciplinary cooperation
- Ability to work independently as well as part of a team
- Excellent command of written and spoken English

### Our range of services:

- Promotion of own scientific qualification according to the Wissenschaftszeitvertragsgesetz [act on temporary employment in higher education]
- Diverse opportunities to take on responsibility and make a visible contribution in the research environment
- A modern understanding of leadership and collaboration
- Good work-life balance, for example, through flexible working hours, as well as support with child care
- Extensive personnel development program
- Health management with a wide range of prevention and counseling services

We look forward to receiving your application by 12.12.2023.

Please apply exclusively via our job portal (<https://jobs.uni-siegen.de>). We do not consider applications in writing or by e-mail.

### Your contact person:

Prof. Dr. Ivor Fleck  
+49-271-7403628  
[ivor.fleck@uni-siegen.de](mailto:ivor.fleck@uni-siegen.de)

Equal opportunities and diversity are promoted and embodied at the University of Siegen. The advertisement is explicitly addressed to people of all genders; applications from women will be given special consideration in accordance with the State Equal Opportunities Act. We also welcome applications from people with different personal, social, and cultural backgrounds, people with severe disabilities, and people of equal status.

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