

The **Institute of Experimental Physics** at Universität Hamburg's **Faculty of Mathematics, Informatics and Natural Sciences (MIN)** invites applications for a member of staff as a

**Physicist
(Head of Detector Laboratory)**

for research and development of applications in particle physics

—Salary level 13 TV-L—

The position commences as soon as possible and is being offered permanently either full-time (39 hours per week) or part-time.

The Institute of Experimental Physics on the DESY campus in Hamburg-Bahrenfeld is known for cutting-edge research in an international environment in the fields of particle physics (Large Hadron Collider physics—LHC; neutrino physics), particle astrophysics, accelerator research and development, and photon research. The specialist group on high energy physics actively contributes to the data analysis, operation, and expansion of the CMS experiment at CERN's LHC. In the detector laboratory, scientists pursue R&D on X-ray-proof silicon sensors; design, simulate, and characterize various types of silicon sensors; and train students in particle detection.

Among the detector lab's current research projects are the further expansion of the CMS pixel detector, the study and enhancement of the radiation hardness of silicon crystals and sensors (RD50 and AGIPD collaborations), the development of SiPMs (silicon photo multipliers) and their applications in calorimeters used in high energy physics (CALICE collaboration) as well as detectors for medical applications (Endo TOFPET US-EU FP7 health project).

In joint projects, the groups of the Institute of Laser Physics closely collaborate with the experimental and theoretical physics research groups at DESY.

Responsibilities:

- heading the detector lab with approximately 20 measuring workstations, including their respective supervisors
- technical and scientific planning of the detector lab, including development, design, and operation of measuring systems
- supporting scientists and students working in the detector lab (simulation, support in interpreting measurement series)
- substantial participation in the expansion program of the CMS detector (developmental work)

Requirements:

- a university degree in physics or technical physics; postdocs welcome
- proven experience and expertise in measuring techniques as well as in electronics and detector design and construction
- solid understanding of readout electronics and data acquisition systems
- experience in data analysis and simulation as well as in statistical methods

- leadership and management skills that meet the demands of operating and expanding a detector lab and heading research projects; we expect an exceptional degree of responsibility and reliability
- ability to work in a team as well as individually
- proficiency in written and spoken English
- experience with TCAD simulation tools (or the like) is an advantage

The Free and Hanseatic City of Hamburg promotes equal opportunity. In the field in which this position is being offered, men remain underrepresented with respect to the Hamburg Equality Act (Hamburgisches Gleichstellungsgesetz, HmbGleiG). We thus aim to increase the number of men in research and teaching and explicitly encourage men to apply. Equally qualified male applicants will receive preference.

We explicitly encourage persons with an immigrant background to apply.

Equally qualified severely disabled applicants or applicants with equivalent status will receive preference.

For further information, please contact Prof. Erika Garutti via email at:
erika.garutti@physik.uni-hamburg.de

Applications, preferably in English, should include a cover letter, curriculum vitae, and copies of degree certificate(s).

The application deadline is **12.05.2016**. Please send your complete application including the reference number to:

Universität Hamburg
Stellenausschreibungen
Kennziffer: 606/3
Mittelweg 177
20148 Hamburg

Email: Bewerbungen@verw.uni-hamburg.de



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