

Job advertisement

21/Sa28

At the University of Greifswald's **Institute of Physics**, Atomic and Molecular Physics Working Group, in the Faculty of Mathematics and Natural Sciences there is a job vacancy expected to be available **for earliest possible appointment**, subject to budgetary regulations, for a part-time (65 %)

Research and Teaching Assistant

in the field of Penning-trap mass spectrometry. The fixed-term contract ends on 30 June 2024. Payment will be made according to pay group 13 *TV-L Wissenschaft*.

The position is part of the BMBF-funded project 'High-Precision Mass Measurements of exotic radionuclides with SHIPTRAP', which plans to perform mass measurements of actinides and transactinides with the Penning-trap setup SHIPTRAP at the GSI Helmholtz Centre in Darmstadt, Germany. The work will focus not only on elucidating the nuclear structure of the heaviest elements, but also the development of future technologies and novel methods for Penning-trap mass spectrometry with increased sensitivity and highest precision, in particular with regard to corresponding experiments at the FAIR facility, which is currently under construction. The work will be performed on the premises of the GSI Helmholtz Centre at Darmstadt, and will be supervised at GSI by Prof. Dr. Michael Block.

Job Description:

- Performing mass measurements on actinides and transactinides at GSI with the Penning-trap setup SHIPTRAP
- Help in the design and assembly of Penning-trap mass spectrometers on the basis of ion traps (in particular Penning traps) and in their technical and methodical further development (with regard to e.g. novel detection methods and corresponding data acquisition and evaluation)
- Presentations of work and results via talks/posters at collaboration meetings and at conferences
- Preparation of publications in scientific journals
- Cooperation in the preparation of reports and application for further research funds

Job Specification:

- Successfully completed advanced university degree (*Diplom*, Master or equivalent) in physics
- Good command of English (oral and written)

Further **knowledge and competence**, that will be taken into account when filling this vacancy:

- Advanced knowledge of mass spectrometric methods and ion-trap techniques
- Experience in the field of electronics
- Knowledge in the field of computer programming (C++, LabVIEW)
- Experience with CAD programming

The position is open to all persons, irrespective of gender.

The University would like to increase the proportion of women in areas in which they are underrepresented and thus applications from women are particularly welcome and will be treated with priority if they have the same qualifications and as long as there are no clear reasons which make a fellow applicant more suitable.

According to § 68(3) PersVG M-V, the Staff Council will only be involved in staff matters of the academic or artistic staff on request.

Please only submit copies of your application documents as they cannot be returned. Unfortunately, application costs (e.g. travel expenses for interviews) will not be reimbursed by the State of Mecklenburg-Vorpommern.

For questions please contact Prof. Dr. Lutz Schweikhard (lschweik@physik.uni-greifswald.de) and/or Prof. Dr. Michael Block (block@uni-mainz.de).

Applications comprising all usual documents should be sent with reference to the job advertisement number **21/Sa28** by **12 September 2021**, preferably **via email** (one PDF file), to:

**Universität Greifswald
Institut für Physik
Herrn Prof. Dr. Lutz Schweikhard
Felix-Hausdorff-Str. 6
17489 Greifswald**

email: lschweik@physik.uni-greifswald.de