The University of Rostock, Faculty of Mathematics and Natural Science, Institute of Physics, subject to budgetary regulations, would like to fill the following position starting January 1, 2020 for three years.

**Doctoral Researcher (m/w/d)**

(EG 13 TV-L, part-time employment with 20 hours/week, limited for 3 years, qualification as PhD)

Imaging of electrons at atomic level is an essential challenge of modern science. Such a capability could open new horizons in material engineering, chemistry, electronics and photonics. The main goal of this doctoral project is to develop both experimental and theoretical tools to enable this possibility. The experimental techniques utilized involve high harmonic generation in bulk solids, photoelectron spectroscopy, attosecond streaking and will be implemented with synthesized light fields. The candidate joins a team of experienced researchers in the area of ultrafast physics, attosecond physics and solid-state technology.

The task includes experimental research and the development of theoretical concepts.

The University of Rostock offers a broad spectrum of study programs to more than 15,000 students. It is divided into nine faculties, which are cross-linked by the Faculty of Interdisciplinary Research. The Faculty of Mathematics and Natural Science comprises four research institutes.

**Requirements:**
- University degree in physics or other subjects suitable for the task (Master or similar)
- experiences in experimental research, including laser physics, solid state or atomic physics
- strong interest in basic research
- ability to work independently as well as in a team and in new subject areas
- very good knowledge of English
- experience in ultrafast science (ultrafast techniques) or simulations of scattering phenomena of electromagnetic waves with matter is an advantage

**We offer:**
- a multi-faceted, diverse and challenging occupation in a university which is rich in tradition but at the same time innovative, modern and family-friendly and situated in a lively city at the Baltic Sea
- employment in accordance with the provisions of the public sector's wage agreement (TV-L, MV)
- the possibility to accomplish a PhD degree
- a salary according to 13 TV-L/13 Ü if the personal and tariff prerequisites are fulfilled

**Further information**

The limitation of the term of employment complies with § 2 (1) WissZeitVG.

The University of Rostock is committed to its university leadership guidelines.
Equal opportunity is an essential part of our human resources policy. In case of equal qualification, applications from severely disabled people or the equivalent people are explicitly welcome. The University of Rostock seeks to increase the proportion of women in research and teaching and particularly encourages female applicants to apply for this position. Applications from foreign scientists and people with migration background are welcome.

On request, the Personnel Council can be brought in. Please add a formless request to your application.

We are looking forward to your application. Please send your informative documents by November 20th, 2019 by email and subject „Advertisement W 85/2019“ to bewerbungen.personal@uni-rostock.de. Only applications, which are send to this email-address, in time and as one single pdf-document, will be considered in the selection process. The protection of your personal data is very important to us. Therefore, your data are collected, processed and used as part of the application process and in accordance with the data protection rules. We point out, however, that the transmission of your email to us is not encrypted.

Please note that the Federal State of Mecklenburg-Vorpommern does not reimburse application and travel costs.

For further questions, please contact:

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Administration            Frau Barth, Tel. 0381/498-1312