The Faculty of Physics offers a part-time research position preferably starting May 1st, 2020 (up to E13 TV-L, non-permanent position)

Your Tasks

The Faculty of Physics at the University of Bielefeld is inviting applications for a PhD position in lattice QCD. The successful candidate will work in the research group of Prof. Endrödi, within the Collaborative Research Center SFB TR211 “Strong-interaction matter under extreme conditions”. The PhD project will focus on lattice QCD thermodynamics in the presence of background electromagnetic fields. The inspiring environment and the broad scientific network of the Collaborative Research Center (Bielefeld and partner universities in Frankfurt and Darmstadt) offer an excellent field of work.

The main tasks include:

- development of new lattice techniques and running numerical simulations (ca. 70 %)
- evaluation and interpretation of data including analytical calculations (ca. 20 %)
- involvement in writing publications and presentation of scientific results at conferences (ca. 5 %)
- participation in workshops and events, e. g. in lattice QCD, quantum field theory, software development and supercomputer (ca. 5 %)

The successful candidate will profit from the inspiring environment and the broad scientific network of the Collaborative Research Center (Bielefeld and partner universities in Frankfurt and Darmstadt), including a solid training and regular workshops in topics ranging from lattice QCD, quantum field theory to high-performance computing techniques and software development. Participation at these events is expected.

Your Profile

We expect

- completed or well-advanced master degree or equivalent in Physics
- documented knowledge of quantum field theory and QCD
- experience with programming and numerical methods
- ability to work well in a team
- good knowledge of English in written and spoken form
- interest in the broad research topics of the Collaborative Research Center (see the CRC web page)

Preferable qualifications

- good presentation and moderation skills

Remuneration

Salary will be paid, depending on personal qualification, up to Remuneration level 13 of the Wage Agreement for Public Service in the Federal States (TV-L). As stipulated in § 2 (1) sentence 1 of the WissZeitVG (fixed-term employment), the contract will end after three years. In accordance with the provisions of the WissZeitVG and the Agreement on Satisfactory Conditions of Employment, the length of contract may differ in individual cases. The employment is designed to encourage further academic qualification. The position is advertised as 65 % part-time job. In individual cases, this percentage may be reduced on request, as long as this does not conflict with official needs.

Bielefeld University is particularly committed to equal opportunities and the career development of its employees. It offers attractive internal and external training and further training programmes. Employees have the opportunity to use a variety of health, counseling, and prevention programmes. Bielefeld University places great importance on a work-family balance for all its employees.

Application Procedure

For full consideration, your application (including a CV, a motivation letter and one letter of recommendation) should be received via either post (see postal address below) or email (a single PDF) document sent to gudrun@physik.uni-bielefeld.de by April 8, 2020. Please mark your application with the identification code: wiss20066. Please do not use application portfolios and send only photocopies of original documents because all application materials will be destroyed at the end of the selection procedure.

Further information on Bielefeld University can be found on our homepage at www.uni-bielefeld.de. Please note that the possibility of privacy breaches and unauthorized access by third parties cannot be excluded when communicating via unencrypted e-mail. Information on the processing of personal data is available at https://www.uni-bielefeld.de/Universitaet/Aktuelles/Stellenausschreibungen/2019_DS-Hinweise_englisch.pdf.

Postal Address

Universität Bielefeld
Fakultät für Physik
Herrn Prof. Dr. Gergely Endrödi
P.O. Box: 10 01 31
33501 Bielefeld
Germany

Contact

Name: Prof. Dr. Gergely Endrödi
Phone: 0521 106-2610
Email: endrodi@physik.uni-bielefeld.de