

In the Faculty of Mathematics and Natural Sciences,  
in the research group Experimental Elementary Particle Physics

for the next possible date, limited until 30.09.2024,

a position as

**Research Associate (Post-Doc)**

with 100 % of the collectively agreed working hours

(Part-time is possible, please indicate in your application if you are also or only interested in part-time employment)

to be filled.

Salary: E 13 TV-L

Professional and personal requirements for employment:

- Completed university studies and doctorate in computer science, physics or related fields.
- Experience with the Linux operating system and distributed systems
- Experience in handling very large data sets and processing data effectively
- Programming skills in C++, GO, Python and/or other programming languages.
- Experience with Docker and/or other container technologies is helpful
- Very good knowledge of English

Tasks and Requirements:

The experimental particle physics group at the University of Wuppertal is involved in the ATLAS experiment at CERN (Switzerland) and has been involved in processing large amounts of scientific data delivered by the experiment for many years. The processing takes place at more than 100 data centers worldwide. In this context, The Bergische Universität operates one of the so-called Tier 2 centers of the ATLAS experiment and is heavily involved in the university's Pleiades computer (<http://pleiades.uni-wuppertal.de>). In the next phase of the experiment, data volumes will increase into the exabyte range, which will significantly increase the demands on the centers. This will also result in significantly higher demands on the experiment's software.

They contribute to the new or further development of central software components of the ATLAS experiment, so that these can also fulfill the future requirements and the experiment can also work successfully in the next years.

The work is carried out within the framework of the BMBF joint project "Federated Computing for the ATLAS and CMS Experiments at the Large Hadron Collider in Run-3". Close collaboration with colleagues at CERN and in working groups at other universities and institutes is a prerequisite for the success of the project.

This is a qualification position in the sense of the Wissenschaftszeitvertragsgesetz (WissZeitVG), which can be filled to support the following scientific or artistic qualification: Acquisition of professional experience in the implementation of the BMBF collaborative project "Federated Computing for the ATLAS and CMS Experiments at the Large Hadron Collider in Run-3". The duration of the employment contract will be appropriate to the scientific qualification sought.

**Reference number: 21325**

Applications (including cover letter, curriculum vitae, proof of successful completion of studies, references, proof of severe disability as PDF file, if applicable) are generally only possible via the online portal of the University of Wuppertal: <https://stellenausschreibungen.uni-wuppertal.de>. Incomplete applications cannot be considered!

Contact person for the cover letter is Prof. Dr. Christian Zeitnitz.

Applications from people of any gender are welcome. Women will be given preferential consideration in accordance with the State Equality Act of North Rhine-Westphalia (Landesgleichstellungsgesetz NRW), unless reasons relating to the person of a co-applicant prevail. The rights of people with a severe disability to be given preferential consideration in the event of equal suitability remain unaffected.

**Application deadline: 3 January 2022**