



PhD Position at Georg-August-University Göttingen in the FIDIUM project and ATLAS-Experiment

There is one opening for a

PhD position (pay scale E13 TV-L) (m/f/d)

(part-time, currently 26.5 hours per week, compared to full-time, currently 39.8 hours per week). The employment is initially for a period of three years.

The position is in the research group on experimental particle physics at the University of Göttingen in high-performance and grid computing. The main focus is to support the working group in its contribution to the BMBF project Federated Infrastructures (FIDIUM). The project will open up local HPC resources for use via the local Tier 2 center GoeGrid and thus indirectly integrate them into the World-Wide LHC Computing Grid (WLCG). This refers in particular to the North German High Performance Computer (HLRN) as well as the National High Performance Computer (NHR). Furthermore, methods of caching and data management are to be further developed for the data lake scenario. Initially, these developments will mainly be used for the ATLAS experiment. Within the scope of this employment, extensive load tests in the production environment of ATLAS are to be carried out on the developed systems, which will serve as a meaningful evaluation of the available resources.

The successful candidate will be expected to participate in the supervision of students, in the operation of the GoeGrid cluster in Göttingen and in the research activities of the participating groups. The group has experience in the operation and monitoring of computer clusters, grid resources in the context of WLCG.

The prerequisite for employment is a completed scientific university degree in physics, computer science or in another relevant field (diploma or master's degree). Knowledge of English, software and programming skills in modern programming and scripting languages are expected. Experience in system administration and grid computing, knowledge of German and previous experience in experimental particle physics are desirable.

Applications with the usual documents should be sent by **05 April 2022** to:

Prof. Dr. A. Quadt
II. Institute of Physics
Georg-August University Göttingen
Friedrich-Hund-Platz 1
37077 Göttingen, Germany
aquadt@uni-goettingen.de

For more information contact aquadt@uni-goettingen.de.

The University of Göttingen aims to increase the proportion of women in areas where women are underrepresented and therefore explicitly invites qualified women to apply. The University has set itself the goal of employing more severely



disabled people. Applications from severely disabled persons will be given preference if they are equally qualified.

Notice:

We would like to point out that submitting an application constitutes consent under data protection law for us to process your applicant data. You can find more details on the legal basis and use of data in the [information sheet on the General Data Protection Regulation \(DSGVO\)](#).