



The **Particle Physics** group of **Prof. Markus Schumacher** at the **University of Freiburg** has an opening for a

### **Postdoctoral Researcher**

in the area of federated distributed computing for High Energy Particle Physics experiments on **1<sup>st</sup> April 2023 or later**.

Our group has long-standing experience and expertise in advancement and operation of WLCG Grid compute and storage infrastructures within the ATLAS Collaboration and the WLCG, and in general F&E projects for federated HPC and HTC computing.

The successful candidate is expected to participate in the development and validation of novel technologies to dynamically incorporate heterogeneous compute resources into fully occupied clusters. The main focus will be the continuing development of an accounting ecosystem for opportunistically used resources in federated compute clusters. Our open-source accounting system called AUDITOR is implemented in RUST and PYTHON and is publicly available on GitHub: <https://github.com/ALU-Schumacher/AUDITOR>

Applicants should hold at least a Master degree in computer science, physics or related fields and preferably already possess experience in Grid/Cloud computing and/or virtualization techniques. Experience with CI, open-source development and knowledge of PYTHON and RUST is advantageous.

Applications, including a CV, a short description of the research experience and interests, copies of certificates of degrees, and the names and contact addresses of two persons to be contacted for letters of reference, should be sent in one pdf-file via email until **28<sup>th</sup> February 2023** to [michael.boehler@physik.uni-freiburg.de](mailto:michael.boehler@physik.uni-freiburg.de)

The appointment will be initially for a period of two years, with the possibility of an extension. The payment scale is determined according to the public service category TV-L E13.

More information can be obtained from  
Dr. Michael Böhler [michael.boehler@physik.uni-freiburg.de](mailto:michael.boehler@physik.uni-freiburg.de)  
Prof. Markus Schumacher [markus.schumacher@physik.uni-freiburg.de](mailto:markus.schumacher@physik.uni-freiburg.de)

Candidates are selected in accordance with the provisions of the AGG (Allgemeines Gleichbehandlungsgesetz - German General Equal Treatment Act). Applicants with disabilities (Schwerbehinderte Menschen) will be given preferential consideration in case of equal qualification. We are particularly pleased to receive applications by women for the position advertised here. Information on the handling of personal data can be found at <https://uni-freiburg.de/en/data-protection-applications/>.