universität freiburg

Albert-Ludwigs-Universität Freiburg – Physikalisches Institut – 79085 Freiburg

**Physikalisches Albert-Ludwigs-Universität Freiburg**

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Freiburg, den 12.09. 2024

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 1st December 2024 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 R&D projects for federated HPC and HTC computing.

The successful candidate is expected to participate in the development and operations of the HammerCloud (HC) project. HC is a CERN based testing and benchmarking infrastructure, that guarantees that about 190 computing centres worldwide are fully operational and can maintain their data quality. HC is implemented in Python and based on the Django framework. The current deployment has recently been migrated to a docker container infrastructure. The tasks would include development of new tests, data visualization tools, and continuous integration methods. The area of responsibility also includes daily operations of the HC infrastructure in close collaboration with colleagues from CERN IT and the ATLAS experiment.
Participation in the operation of the local computer cluster would be very desirable, as this deepens the understanding of the HC tests used worldwide and thus leads to a better optimisation of the global testing strategy.
Applicants should hold at least a Master degree in computer science, physics or related fields. 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 31th October 2024 to 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

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://unifreiburg.de/en/data-protection-applications/.