



The Strategic Helmholtz Alliance "Physics at the Terascale" (<http://www.terascale.de>) is a research network supported by the Helmholtz Association and comprises the research centres DESY and FZ Karlsruhe, 17 German universities and the Max-Planck-Institut für Physik. Within the framework of the worldwide investigation of the fundamental properties of matter using accelerators at the highest energies, the Alliance will sustainably concentrate and advance the expertise and strengths of the participating institutes.



Scientist

The Analysis Centre of the Helmholtz Alliance "Physics at the Terascale" at DESY, Hamburg site, is seeking a scientist to join the Statistics Tools group of the centre.

The Analysis Centre supports physicists at German institutes working on analyses at ATLAS, CMS and ILC. The centre contains three main branches: Monte Carlo Generators, Parton Distribution Functions and Statistics Tools. A major goal of the statistics tools group is to provide support and education for all kinds of statistics-related tasks and questions in high-energy physics data analysis.

The successful candidate is supposed to strengthen the activities of the group by

- contributing to the development of statistics tools,
- implementing existing tools into software frameworks like ROOT,
- taking part in the organisation of meetings, workshops and schools and
- helping to provide user support and web documentation.

The candidate is also expected to carry out research within one of the Alliance projects for about 50 % of his or her time.

The position requires

- a Ph.D. in physics,
- interest and experience in the development of statistics tools and
- programming, software maintenance and analysis experience (e. g. C++, Fortran, ROOT).

The position is initially limited until 30 June 2012, the nominal end of the Helmholtz Alliance funding period. For further information please contact Dr. Thomas Schörner-Sadenius (Thomas.Schoerner@desy.de).



GEORG-AUGUST-UNIVERSITÄT
GÖTTINGEN

Physicist

"Detector Development with the ATLAS Experiment"

The University of Göttingen offers a full-time position for a research assistant/post-doc (salary level TVL E13) beginning as soon as possible. The position is available for an initial period of two years with a possible extension by two years.

The post-doc will be member of the recently formed particle physics group to work on the ATLAS experiment at the Large Hadron Collider at CERN. The ATLAS experiment is designed to search for physics phenomena responsible for electroweak symmetry breaking and to study a variety of subjects related to physics at the TeV scale. The successful applicant is expected to participate in the supervision of students, in the start-up of the new particle physics group in Göttingen, in the research activities of the group and to play a leading role in detector development in the context of the Helmholtz Alliance, in particular in the ATLAS pixel detector upgrade.

For further information please contact Prof. Arnulf Quadt (aquadt@uni-goettingen.de).



Physicist

"Physics Data Analysis with the CMS Experiment"

The applicant is expected to contribute to physics data analysis within the CMS experiment, and to the Visual Physics Analysis project being developed at the RWTH Aachen. The position is funded by the Helmholtz Alliance "Physics at the Terascale" for a period of 3.5 years.

For further information please contact Prof. Martin Erdmann (+49-241-8027317, erdmann@physik.rwth-aachen.de).



Physicist

"Physics Data Analysis with the ATLAS Experiment"

The Faculty of Physics at LMU Munich has an immediate opening for a physicist on the search for signals of new physics beyond the Standard Model within the ATLAS experiment. The LMU ATLAS group is contributing to the muon spectrometer, Grid computing and the preparation of the data analysis. The appointee is expected to establish a strong research programme involving diploma and Ph.D. students with particular emphasis on searches for Higgs Bosons or supersymmetric particles and to contribute actively to a successful start-up phase of the ATLAS experiment.

The position is partially funded by the Strategic Helmholtz Alliance "Physics at the Terascale" and the salary follows the standard for public employment (TVL E13). The position is vacant and initially limited to two years with the possibility of an extension. Candidates should hold a Ph.D. in experimental particle physics.

For further information please contact Prof. Dorothee Schaile (dorothee.schaile@physik.uni-muenchen.de).



Two Physicists/Engineers

The Heidelberg ASIC Laboratory located in the Kirchhoff-Institut für Physik at the Ruprecht-Karls-Universität Heidelberg will extend its scope to support scientists and Ph.D. students in the area of analogue and mixed-signal VLSI component and system design and test. The institute has openings for two Physicists/Engineers for the design of integrated microelectronics, in particular analogue and mixed-signal circuits. An excellent knowledge of state-of-the-art design and simulation tools is required as well as experience in the design and testing of complex electronic circuits employing ASICs and FPGAs. Practical experience in electronic circuit design and construction is required. Both positions are located in the existing ASIC laboratory for microelectronics. They are immediately available and will be limited until 30 June 2012.

For further information please contact Prof. Karlheinz Meier (meierk@kip.uni-heidelberg.de).

Applications (preferably by email) including a letter of application, CV, academic record as well as a list of publications and the names of three persons who can provide further information about the candidate should be addressed to:

Prof. Ian Brock (Scientific Manager of the Helmholtz Alliance)

DESY, Notkestraße 85, 22607 Hamburg, Germany (Ian.Brock@desy.de).

For all positions, salary and benefits are commensurate with those of public service organisations in Germany. Handicapped persons will be given preference to other equally qualified applicants. DESY and the universities are equal opportunity, affirmative action employers and encourage applications from women.

Closing date for all applications is 31 December 2008.