



Call for 2014 DESY-ONACPR Fellowship Applicants

Research Laboratory: DESY

Division/Group: FLC

Supervising scientist: Dr. Frank Gaede

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Research Field: Experimental Particle Physics

Position: Postdoctoral Research in Experimental Particle Physics

Research Area:

Development of track reconstruction algorithms at future lepton colliders. One of the key requirements for the physics program in the future e⁺e⁻ colliders like the ILC is a very high track reconstruction efficiency with excellent momentum and impact parameter resolution. Large hit densities from the beam induced electron-positron pairs pose a significant challenge to the pattern recognition algorithms, in particular for low momentum tracks. Research activities comprise the improvement of existing algorithms with respect to efficiency and CPU time, the development of alignment strategies and the overall optimization of the tracking system for Higgs physics and SUSY scenarios.

Specific Requirements:

- PhD in particle physics
- good knowledge of data reconstruction and analysis techniques in particle physics
- very good programming skills in C++
- strong analytic skills
- good communication skills in English (discussions with colleagues and oral presentations)

For more information please visit:

<http://www-flc.desy.de/flc/>

Work Place: Hamburg

Earliest Start: November 2014

Language

Requirement: proficiency in scientific and casual English (spoken and written), please note that we require for all candidates proven records of English, e.g. CAE certificate or other certificate with the same level.

Application Code: DESY/2014/11

Further Remarks: