



Call for 2014 DESY-ONACPR Fellowship Applicants

Research Laboratory: DESY
Division/Group: FLC
Supervising scientist: Dr. Jenny List
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Research Field: *Experimental Particle Physics*
Position: Postdoctoral Research in Experimental Particle Physics

Research Area:

Detector development for polarimetry at future lepton colliders:

Polarised beams are a key ingredient of the physics programme of the future e+e- colliders like the International Linear Collider. In order to fully exploit its physics potential, the polarisation has to be measured with a precision 2-5 times better than ever achieved before. The baseline technology for detecting the Compton-scattered e+/e- in the Laser-Compton polarimeters are Cherenkov detectors. A substantial increase in precision could be expected from employing silicon pixel detectors instead, if the specific requirements of polarimetry, which differ significantly from vertex detector or photon science applications, can be met.

For more information please visit: <http://www-flc.desy.de/flc/>

Specific Requirements:

- PhD in particle physics
- Strong experience in R&D for particle physics detectors, ideally either with Cherenkov detectors or Silicon pixel detectors
- Working knowledge of C++, root, Geant4
- Very good communication skills (in discussions with colleagues, oral presentations and scientific writing)
- Willingness to work with students

Work Place: Hamburg
Earliest Start: November 2014
Language Requirement: fluent in English (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/2014/10
Further Remarks: