



Call for 2014 DESY-ONACPR Fellowship Applicants

Research Laboratory: DESY
Division/Group: FS-DS (Photon Science – Detector Systems)
Supervising scientist: Prof. Dr. Heinz Graafsma
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Research Field: *X-ray Detectors for Free-Electron Lasers*
Position: Postdoctoral Research in X-ray Detector Development (FS-DS)

Research Area:

Development of a large-area Pixel Array Detector for Serial Femto-second Crystallography (SFX) at the European XFEL.

This detector will be based on the revolutionary AGIPD system recently developed in collaboration with PSI (Switzerland).

The PostDoc will work closely with both the application scientists and the electronic designers in order to reach the optimal performance of the SFX-system. This work includes simulations of the experiments, extensive testing of AGIPD systems at photon sources, and intensive interaction with electronic and mechanical engineers.

This work will also form the basis for the next generation of detectors to be developed.

For more information please visit: http://photon-science.desy.de/research/technical_groups/detectors/index_eng.html

Specific Requirements:

A PhD in Physics or Electronics is mandatory.

The successful candidate should have affinity and experience with advanced instrumentation for scientific experiments and ideally be familiar with X-ray experiments at intense sources.

Basic knowledge of solid state physics and electronics is highly recommended, as well as experience with data analysis programs.

Since the person will work in a larger team and interact with many people at different levels, good social and communication (in English) skills are mandatory.

Since a lot of testing and commission will be done at photon sources throughout the world the candidate needs to be able and willing to travel.

Work Place: Hamburg
Earliest Start: November 2014
Language Requirement: please note that we require for all candidates proven records of English, e.g. CAE certificate or other certificate with the same level.
Further Remarks: Chinese language skills are available in the group, both by native Chinese and native Germans.
Application Code: DESY/2014/19