Call for 2016 DESY-ONACPR Fellowship Applicants

## **Research Laboratory: DESY (*Please reference to DESY-ONACPR-2016-14*)**

### Division/Group: FS-DS

### Supervising scientist: Heinz Graafsma

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### Research Field: *Detectors for Free-Electron Lasers*

**Position:** *Postdoctoral Research in Detectors for XFELs*

After the successful development of the Adaptive Gain Integrating Pixel Detector (AGIPD) for the European XFEL, we are now developing two new variants of the system. One is a 4-million pixel camera for the Serial Femto-second Crystallography (SFX) consortium; the second is a high-energy version for the High-Energy Extreme Conditions consortium. Both systems will require extensive testing of prototypes and final systems. This testing will be done both in the detector laboratories and at synchrotron and FEL facilities, under real experimental conditions. Deployment at the European XFEL is foreseen for 2017 for the first and 2018 for the second system.

**Research Area:**

**Specific Requirements:**

The candidate should either have a background in X-ray photon science with a strong affinity to instrumentation, or a background in detectors and an affinity to photon science. The candidate will work in close interaction with the electronic and mechanic designers, and closely together with the physicists in charge of project. A strong part of the work will be focused on testing and commissioning the components and systems for the future deployment at the experimental stations. This will require a good understanding of the scientific goals and requirements. Close collaboration with the experimental scientists who will ultimately use the systems is foreseen.

Basic knowledge of electronics and programming is a strong advantage.

**Work Place:** Hamburg

**Earliest Start:** December 2016

**Language Requirement:** (please note that we require for all candidates proven records of English, e.g. CAE certificate) *Spoken English (the working language) is a requirement.*

**Further Remarks:** The work is done in world leading international teams