Call for 2015 DESY-ONACPR Fellowship Applicants

## **Code: DESY/2015/9**

## **Research Laboratory: DESY**

### Division/Group: FS/ML

### Supervising scientist: Dr. Sasa Bajt Email/Phone: [sasa.bajt@desy.de](mailto:sasa.bajt@desy.de) /

### +49 40 8998 2082

### Research Field: X-ray optics for Extreme Conditions

**Position:** Postdoctoral Research in X-ray Optics/Nanofabrication

The X-ray Optics for Extreme Conditions Group is developing novel X-ray optics to be used with intense, coherent X-ray sources such as state-of-the-art synchrotrons and free-electron lasers. Such sources have opened up new opportunities for breaking barriers in focusing, dispersing, and otherwise controlling X-ray pulses in space and time, which enables exciting new applications in imaging, spectroscopy, and nonlinear optics. We are developing efficient X-ray optical elements to build up the functionalities by controlling the 3D structure of materials over large volumes and on nanometer scales, such as nanofocusing lenses, gratings, pulse compressors, waveplates, and beam splitters.

**Research Area:**

**Specific Requirements:**

We are seeking for a highly motivated Postdoctoral scientist to design, fabricate and test novel X-ray optics at the synchrotron or FEL sources and participate in experiments utilizing these type of optics. The candidate should have a PhD in physics or a related field, experience in X-ray optics design and knowledge in nanofabrication and/or nano-characterization (such as SEM, AFM, TEM, X-ray based techniques). Experience working with synchrotron sources and/or optics is highly desirable. The candidate should have strong interest in X-ray physics or optical sciences, be a team player and have good verbal and written English communication skills.

**Work Place:** Hamburg

**Earliest Start:** December 2015 (or as soon as possible)

**Language Requirement:** Good verbal and written English communication skills

**Further Remarks:**