Call for 2016 DESY-ONACPR Fellowship Applicants

## **Research Laboratory: DESY (*Please reference to DESY-ONACPR-2016-9*)**

### Division/Group: FS

### Supervising scientist: Priv. Doz. Dr. Tim Laarmann Email/Phone:

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### Research Field: FEL Science and Technology

**Position:** Postdoctoral Research in FLASH2-Seeding

**Research Area:**

Currently the Free-Electron Laser at DESY in Hamburg (FLASH) operates in the regime of self-amplified spontaneous emission. Due to its start-up from noise, the radiation consists of a number of uncorrelated modes resulting in reduced longitudinal coherence and shot-to-shot fluctuations of the output pulse energy. In the last decade, many schemes were developed to start the FEL process from an external laser pulse, producing a fully coherent FEL pulse for advanced nonlinear spectroscopic applications. DESY is seeking a postdoctoral scientist to take an active role in the implementation of high-gain-harmonic-generation (HGHG) seeding for FLASH2, the second FEL of FLASH.

**Specific Requirements:**

* PhD in Physics, Electrical Engineering or a similar discipline.
* Strong background in one or more of the following research areas: accelerator physics, interaction of intense laser pulses with relativistic electrons, seeding, nonlinear optics, electron beam transport, soft X-ray beamline design.
* Ability to perform self-driven research and coordinate experiments.
* Ability to communicate effectively and to present results both orally and in writing in a multilingual, multidisciplinary research environment.

**Work Place:** Hamburg

**Earliest Start:** December 2016

**Language Requirement:** English

**Further Remarks:** for further information please visit

http://photon-science.desy.de/research/research\_teams/

x\_ray\_femtochemistry\_and\_cluster\_physics/index\_eng.html