Call for 2015 DESY-ONACPR Fellowship Applicants

## **Code: DESY-2015-20**

## **Research Laboratory: DESY**

### Division/Group: FS-LA

### Supervising scientist: Ingmar Hartl Email/Phone: [Ingmar.hartl@desy.de](mailto:Ingmar.hartl@desy.de) +49 40 8998 2863

### Research Field: *Ultrafast optics*

**Position:** Postdoctoral Research in fiber lasers for dielectric accelerators

Accelerating particles with lasers instead of microwaves would allow us to shrink conventional accelerators by a factor of 1000 for a given particle energy. We are working on shrinking a particle accelerator to the size of a chip. For this accelerator on a chip project, novel ultrafast Tm-fiber lasers at 2µm center wavelength will be developed and first acceleration, focusing and electron deflection experiments will be performed.

**Research Area:**

**Specific Requirements:**

Good knowledge of ultrafast laser physics. Experience with fiber lasers using Yb and Tm gain materials. Knowledge in accelerator physics is a plus.

**Work Place:** Hamburg

**Earliest Start:** November/December 2015

**Language Requirement:** (please note that we require for all candidates proven records of English, e.g. CAE certificate)

**Further Remarks:**