



Call for 2014 DESY-ONACPR Fellowship Applicants

Research Laboratory: DESY
Division/Group: FH/FLA
Supervising scientist: Prof. Dr. Jens Osterhoff
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Research Field: *Plasma-wakefield acceleration*
Position: Postdoctoral Researcher in theoretical plasma-accelerator science

Research Area:

The field of electron acceleration in plasma wakes has seen a remarkable progress in the recent years. Nowadays, accelerating gradients > 10 GV/m can be readily achieved using either intense laser pulses or particle beams as wake drivers. Catalyzed by this development, DESY established the FLASHForward research programme for the novel acceleration techniques exploiting the synergetic combination of conventional and new technology at the FLASH accelerator. FLASHForward aims at producing high-quality electron beams from a beam-driven plasma-wakefield concept utilizing controlled electron-injection techniques with the grand goal to apply these beams for the realization of a plasma-boosted free-electron laser.

For more information please see:
<http://flash.desy.de/accelerator/>

Specific Requirements:

The successful candidate is becoming part of the FLASHForward team and is supposed to advance the theoretical foundation and understanding of the planned experiments. In particular, we are looking for a researcher with:

- a doctoral degree in physics or a related field
- a background in theoretical laser-, plasma- and/or accelerator science
- a good understanding of computational and numerical techniques required for particle-in-cell simulations
- the ability to work in a team
- good communication skills
- a strong motivation

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.
Application Code: DESY/2014/13
Further Remarks: