



Call for 2014 DESY-ONACPR Fellowship Applicants

Research Laboratory: DESY
Division/Group: PITZ
Supervising scientist: Dr. Frank Stephan
Email/Phone: frank.stephan@desy.de, +49 33762 77338
Research Field: Accelerator Physics
Position: Several postdoctoral positions on the production of high brightness electron beams and on beam driven plasma acceleration

Research Area:

As part of the accelerator R&D program of the Helmholtz Association the focus of the research program at PITZ is the:

- ultimate optimization of high brightness electron beams by generating 3D ellipsoidal electron bunches, and
- beam driven plasma acceleration experiments on the self-modulation of particle beams and on the efficient generation of beam driven plasma wakes.

The positions

- Work in a world-leading international group of physicists and engineers for the development of photo injectors
- Development of innovative concepts and techniques for the diagnostics of high-quality laser and electron beams
- Perform numerical simulations to study and optimize subcomponents of the photo injector with respect to applications of high brightness electron beams for FELs and in plasma acceleration experiments
- Participate in the shift operation of PITZ for accelerator R&D

For more information please visit: <http://pitz.desy.de/>

Specific Requirements:

- Excellent university degree in physics or engineering with a PhD degree
- Knowledge of accelerator physics and accelerator techniques
- Knowledge of laser and incoherent optics and/or plasma acceleration is of advantage
- Experience in beam dynamics simulations and numerical methods is useful

Work Place: DESY Site Zeuthen

Earliest Start: as soon as possible

Language

Requirement: Very good knowledge of English is required and knowledge of German is of advantage. (Please note that we require for all candidates proven records of English, e.g. CAE certificate or other certificate with the same level).

Further Remarks: complete application material includes: application letter, a detailed curriculum vitae in tabular form, grades list from the high school up to the current state of scientific education, name, position and contact data of 2-3 referees, list of publications, research interests

Application Code: DESY/2014/09