



PHOTO INJECTOR.

DESY, Zeuthen location, is seeking: PhD students (f/m) for PITZ in Zeuthen

DESY

DESY is one of the world's leading research centres for photon science, particle and astroparticle physics as well as accelerator physics.

The Photo Injector Test Facility PITZ in Zeuthen (near Berlin) develops high brightness electron sources for Free Electron Lasers (FELs) like FLASH and European XFEL. The main focus of the research program at PITZ is on further improvement of pulsed high brightness photo injectors and on developments towards future high brightness CW electron sources. We also work on beam driven plasma acceleration for particle and astroparticle physics.

The position

- Work in one of the world-leading international groups of physicists and engineers for the development of photo injectors
- Work topics are preferably characterization of different kinds of photocathodes inside high gradient guns, thermal emittance studies and space charge dominated photo emission, alternatively 6D phase space characterization, or generation and application of ultra short bunches with low charge, or studies on accelerator based THz production
- Perform numerical simulations and compare with data from experiments done with the PITZ accelerator.
- Participate in the shift operation of PITZ for accelerator R&D

Requirements

- Excellent university degree in physics or engineering
- Knowledge of accelerator physics and accelerator technology
- Experience in beam dynamics simulations and numerical methods is useful
- Good knowledge of English is required and knowledge of German is of advantage

For further information please contact Dr. Houjun Qian, +49-33762-7-7191 (houjun.qian@desy.de).

The position is limited to 3 years.

Salary and benefits are commensurate with those of public service organisations in Germany. Classification is based upon qualifications and assigned duties. Handicapped persons will be given preference to other equally qualified applicants. DESY operates flexible work schemes. DESY is an equal opportunity, affirmative action employer and encourages applications from women. Vacant positions at DESY are in general open to part-time-work. During each application procedure DESY will assess whether the post can be filled with part-time employees.

We are looking forward to your application quoting the reference code preferably via our electronic application System: Online-Application

Deutsches Elektronen-Synchrotron DESY

Human Resources Department | Code: MDO010/2017

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Deadline for applications: 31 January 2018

www.desy.de