



The location Zeuthen is seeking:

Postdocs (f/m/diverse) for the Photo Injector Test Facility 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. More than 2400 employees work at our two locations Hamburg and Zeuthen in science, technology and administration.

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 physics.

The position

- Work in one of the world-leading international groups of physicists and engineers for the development of photo injectors
- Perform numerical simulations to support the accelerator R&D program at PITZ or to optimize subcomponents of the photo injector towards applications of high brightness electron beams for FELs, OR perform numerical simulations and experimental studies on accelerator based THz generation
- Develop innovative concepts and techniques for the diagnostics of high-quality laser and electron beams
- Follow up problems occurring during accelerator operation and find solutions with technical experts
- Participate in the shift operation of PITZ for accelerator R&D

Requirements

- Excellent university degree in physics or engineering with PhD
- Extensive experience in beam dynamics simulations with space charge dominated beams as well as in numerical methods
- Very deep knowledge of accelerator physics and accelerator technology
- Very good knowledge of English is required and knowledge of German is of advantage

For further information please contact Dr. Mikhail Krasilnikov +49-33762-7- 7213 (mikhail.krasilnikov@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 via our application system: www.desy.de/onlineapplication

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Deadline for applications: 2019/01/31