



ULTRAFAST LASER.

DESY, Hamburg location, is seeking: Senior Laser Scientist (f/m)

DESY

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

The Ultrafast Optics and X-rays Group develops novel sources such as high-gradient accelerators, free-electron lasers and high-energy, few-cycle electromagnetic sources spanning from THz to high-harmonic frequencies. These sources require custom high energy (greater than 1J) picosecond to femtosecond laser systems operating at greater than 1 kHz pulse Repetition rate which we also develop in house. Our current program includes development of cryogenic and non-cryogenic systems based on a variety of materials. To expand these activities we are looking for a senior researcher to lead all aspects of research, development, design and construction of such laser systems while keeping an eye open for new technological possibilities.

The position

- Direct research, development, design and construction of high-energy and high-power lasers
- Expand understanding of laser materials and their use in laser amplifiers
- Expand on laser architectures for high-energy and high-power lasers
- Investigate new manufacturing technologies for amplifier gain elements

Requirements

- PhD in Physics or Electrical Engineering with experience in the areas of diode-pumped solid-state laser systems, ultrafast lasers, fiber lasers, optics or similar experience
- More than 5 years of industrial and/or academic experience in ultrafast laser science
- Excellent scientific knowledge base with analytical and experimental skills
- Ability to lead an active research and development group in the area of novel high-energy and high-power lasers

For further information please contact Prof. Franz Kaertner +49-40-8998-6350 (franz.kaertner@desy.de)

The position is limited to 2 years, but has the potential to become permanent. 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. There is a bilingual kindergarten on the DESY site.

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: FSMA018/2018
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Deadline for applications: 4 April 2018

www.desy.de