



The ELI (Extreme Light Infrastructure) Project is an integral part of the European Union plan to build the next generation of large research facilities. ELI-Beamlines as a cutting edge laser facility is currently being constructed in Prague, Czech Republic; its commissioning is scheduled for end of 2015. ELI-beamlines will be delivering ultrashort, ultraintense laser pulses lasting typically a few femtoseconds (10-20 fs) with some laser

systems reaching peak power up to 10 PW. It will make available time synchronized laser beams over wide range intensities for wide range of interdisciplinary applications in physics, medicine, biology, material science etc. The high laser electric field intensities of the laser pulse will be also used for generating secondary sources of e- and p+.

More details about this exciting project can be found on www.eli-beams.eu

In our team we are looking for a suitable candidate for a position:

APPLIED PHYSICIST – Development of diagnostics for laser-plasma interaction experiments
The suitable candidate will be involved in:

- Acquiring knowledge of the diagnostic needs of a wide range of laser-plasma experiments involving multiple high-power (up to PetaWatt) laser pulses, and secondary sources of high energy particles and photons.
- Liaising with relevant international laboratories to acquire an up-to-date view of how these diagnostic needs are currently met
- Developing and maintaining, in coordination with technical staff, an appropriate set of diagnostics to facilitate laser-plasma experiments on the ELI Beamlines facility, e.g. to include large field detection of particles and x-rays for plasma backlighting, or Warm Dense Matter diagnosis.
- Fielding and testing relevant diagnostics in experiments at external laboratories collaborating with ELI-Beamlines during the build-up phase of the facility
- Exploring future diagnostic needs and design solutions of the multi-PW regimes which will be accessed on ELI Beamlines at later stages

Requirements:

- Candidates are expected to hold a PhD in physics or engineering, or, equivalently, to have 3 years of research experience after the primary degree
- Research experience in either plasma physics or optics would be preferred
- Expertise in development of diagnostics is desirable
- Creative mind and attention to detail
- Good working knowledge of English
- Excellent organizational skills
- Willingness to travel according to the requirements of the post

We offer:

- The opportunity to participate in this unique scientific project
- Career growth, professional education
- Competitive and motivating salary
- 5 weeks of holidays and other employee benefits
- Pleasant work environment
- The position may (subject to a later decision) become permanent job position

Applications should be sent to Mrs. Mirka Svobodová, HR Project Manager (mirka.svobodova@eli-beams.eu, +420 733 690 901). Please include the following text in your cover letter, to allow us to process your personal details:

I agree that, according to the decree 101/2000 coll.(Czech Republic), my personal details sent to FZU AV CR, v.v.i. , Na Slovance 2, 18221 Praha 8, Czech Republic can be used for the purpose of obtaining employment and management of database of employment candidates. This permission is given for the period of one year and can be at any time withdrawn by giving a notice in writing.