



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 will be delivering ultrashort, ultraintense laser pulses lasting typically a few femtoseconds (10-15 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](http://www.eli-beams.eu)

For construction of our 1 kHz repetition rate beamline we invite applications for a new group member

### **LASER PHYSICIST - Senior Researcher (REF:ELI-L1-LS01 High power OPCPA)**

The suitable candidate will be responsible for

- Development, installation and testing of high power ultra-short pulse OPCPA amplifier pumped by Yb:YAG thin disk laser;
- close cooperation with other European research centres and commercial companies in developing the new laser technology needed for ELI;
- preparing tender documentation for large scale technology/equipment orders;
- independent scientific research and publishing, participating in conferences.

#### **Requirements:**

- Candidates are expected to have PhD in the broad area of laser physics/quantum electronics/optics/metrology;
- proven record in constructing and operating femtosecond laser systems, or high power laser systems;
- 3 years or more of relevant work experience with ultrashort pulse lasers or similar area;
- experience in OPCPA, high average power second harmonic generation, optical-optical synchronization of laser oscillators and amplifiers to fs accuracy, or calculating pulse compressors will be an advantage;
- excellent organizational skills;
- good working knowledge of the English;
- The following knowledge and experience would be also desirable:
  - Experience working in an large scale research facility setting;
  - Knowledge of Matlab, C/C++, Java or LabView programming ;

#### **Location**

ELI Beamlines, Institute of Physics AS CR v.v.i. , Prague, Czech Republic

#### **Duration**

2-3 years renewable, possibility of extension

#### **Application process**

Applications should be sent to Mrs Mirka Svobodova ([Mirka.Svobodova@eli-beams.eu](mailto:Mirka.Svobodova@eli-beams.eu) +420733690901). Please provide your curriculum vitae and cover letter (in English), as well as the names and contact details (e-mail address and phone number) of two references. Please include the following text in your cover letter, to allow us to process your personal details:

*A 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.*

The deadline for applications is open. Candidates will be reviewed and given initial feedback within about a month and for those that pass initial review reference letters will be sought. Relevant candidates will be invited to interview by phone or videoconference, and final interviews will be held in person.