

The ELI (Extreme Light Infrastructure) Project is an integral part of the European 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 peak power projected to reach of up to 200 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<sup>-</sup> and p<sup>+</sup>. In our team we are looking for a suitable candidate for a position:

## APPLIED PHYSICIST - RADIOLOGICAL PROTECTION

### The suitable candidate will be involved in:

- Evaluation of the radiation fields expanded from the source-target interactions in the different beam-lines and operation regimes.
- Design and optimization of beam dumps and shielding structures through the development of Monte Carlo simulations.
- Close and active cooperation with both experimental and radiation protection groups and with the collaborating Institutes (Helmholtz-Zentrum Dresden-Rossendorf, Germany and University of Messina, Italy).

### Requirements:

- PhD in physics with curriculum in nuclear, particle or radiation physics, or PhD in nuclear engineering or at least three years of research experience in the above reported fields.
- Excellent knowledge of at least one of the following transport Monte Carlo codes: FLUKA and/or GEANT4, preferably in the field of radiological protection in medium-high energy plants.
- Knowledge of more than one transport code is an advantage.
- Knowledge of material processing and shield manufacturing is an advantage.
- Good team working skills
- Ability to solve problems, good communication and organization skills
- Readiness to travel abroad and to spend significant periods in the collaborating Institutes
- Fluency in English

### 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

Applications should be sent to Mrs. Mirka Svobodová, HR Project Manager ([mirka.svobodova@eli-beams.eu](mailto:mirka.svobodova@eli-beams.eu), +420 733 690 901 +420 266 052 547). 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.*