

The ELI 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 commissioned near Prague, Czech Republic. ELI will be delivering ultra-short, ultra-intense laser pulses lasting typically a few tens of femtoseconds (10-100 fs) with peak power projected to reach 10 PW. It will make available time synchronized sources ranging from IR to hard X-rays for multi-disciplinary applications in physics, medicine, biology, material science etc.

The research group RP2 (Laser driven X-ray sources) is expanding and recruiting physicists in relevant fields for implementation and further development of the sources (plasma betatron or inverse Compton source).

In our team we therefore have the following position available:

## **POSTDOC/SENIOR RESEARCHER**

### **Laser driven X-ray sources from relativistic electron beams**

**The candidate is supposed to work predominantly on the following topics:**

- development of an X-ray source based on laser driven relativistic electrons, its diagnostics, and application experiments
- participation in implementation and verification of the source driven by a 10Hz 1 PW laser at ELI Beamlines facility
- further research and development of the sources and application experiments

#### **Requirements:**

- PhD in physics or related field.
- experience with laser-driven X-ray sources
- good knowledge of spoken and written English is necessary
- ability to lead an relatively independent research programme

#### **Job conditions:**

- the opportunity to participate in this unique scientific project
- career growth, professional education
- competitive and motivating salary
- 5 weeks of holiday and other employee benefits

Applications, containing CV, cover letter, contacts of references, and any other material the candidate considers relevant, should be sent to Mrs. Jana Ženíšková ([jana.zeniskova@eli-beams.eu](mailto:jana.zeniskova@eli-beams.eu), +420 601 560 322).