ELI Beamlines research centre in Dolní Břežany is part of pan-European infrastructure ELI (Extreme Light Infrastructure) representing a unique tool of support of scientific excellence in Europe by making available its capacities to the best scientific teams across the world. The aim of ELI Beamlines is to establish the most intensive laser system in the world and to operate it on a long-term basis. Due to ultra-high performances of 10 PW (1 petawatt = 1,000,000,000,000,000 watts) and concentrated intensities of up to 1024 W/cm², we can offer our users a unique source of radiation and beams of accelerated particles. The so called beamlines will enable groundbreaking research in the area of physics and science dealing with materials, but also in biomedicine and laboratory astrophysics and many other fields. ELI Beamlines is part of the Institute of Physics of the Czech Academy of Sciences, and it was open in 2015.

The Institute of Physics of the Czech Academy of Sciences is a holder of the HR Excellence in Research Award. It is awarded by the European Commission to institutions which put significant effort into improving their HR strategy and ensuring professional and ethical working conditions.

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:

**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

**We offer:**

- the opportunity to participate in this unique scientific project
- competitive and motivating salary
- flexible working hours
- nice working environment
- career growth
- lunch vouchers, pension contribution and 5 sick days
- support of leisure time activities

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, +420 601 560 322).

Information regarding the personal data processing and access to the personal data at the Institute of Physics of the Czech Academy of Sciences can be found on: [https://www.fzu.cz/en/processing-of-personal-data](https://www.fzu.cz/en/processing-of-personal-data)