

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 human resources strategy and ensuring professional and ethical working conditions.

The project of the ELI Beamlines research centre ADONIS has been launched from 1st January 2018. The name is an abbreviation derived from the title Advanced research using high intensity laser produced photons and particles. The project will run until the end of October 2022 and is funded by the Operational Program Research, Development and Education from the Excellence Research Challenge.

ELI Beamlines seeks for a suitable candidate for Research Program 5 (Laser plasma and high-energy density physics) as it is expanding and recruiting experimental physicists in relevant fields for implementation, commissioning, operation and further development of the P3 (Plasma Physics Platform) infrastructure.

In our team we therefore have the following position available:

Laser Plasma Interaction Scientist

The position can be on the junior or senior level depending on the qualification and past experience of the candidates. Applicants with a strong engineering background are also encouraged to apply.

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

- design, development, installation, and commissioning of diagnostic systems and other technological infrastructure elements related to P3

- develop research activities in either high-energy or high-intensity laser-matter interaction
- participation in the commissioning and user operation phase
- the candidate has sufficient flexibility to work on other urgent tasks coming up

Requirements:

- PhD in physics or related field
- at least 5 years of working experience in a laser-related institution
- past experience in laser-plasma interaction is a plus
- experience in optical engineering aspects is an advantage
- good knowledge of spoken and written English is necessary
- ability to take initiative and perform tasks independently

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>