

ELI Beamlines research centre in Dolní Břežany is part of the 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 intense laser system in the world and to operate it on a long-term basis. Due to ultra-high performances of 10 PW and focused intensities of up to  $10^{24}$  W/cm<sup>2</sup>, and we can offer our users unique sources of radiation and beams of accelerated particles. The beamlines will enable ground-breaking 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 opened 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.

In the department 89 (Plasma Physics and Ultra-High Intensity Interactions) we would like to announce an open position:

## Postdoctoral Fellow - Physics of Inertial Fusion Energy (134)

### Description:

The candidate is expected to work on the development of new physics models for high-power laser-matter interaction in the context of laser fusion, such as novel targetry, non-local transport processes of particles and radiation, parametric instabilities, absorption etc. He/she will perform simulations for the preparation of upcoming experiments on large-scale facilities and participate in data interpretation.

### Requirements for the ideal candidate (candidate should have several of the listed skills):

- PhD in Physics, preferentially theoretical physics
- a good background in plasma physics
- knowledge of high-power laser-plasma interaction
- experience with microscopic/macroscopic simulation tools for plasmas
- analytical abilities

**We offer:**

- possibility to work in a brand-new lab where highly innovative techniques are being implemented
- workplace where people with new ideas and passion for realization can try new things
- competitive salary, flexible working hours
- 5 weeks of holidays and 6 days of personal leave
- meal allowance, pension contribution
- profit from worldwide connections of the team
- highly motivating and friendly team environment
- possibility of long-term employment for proven experts
- unique chance to spend some years in the beautiful city of Prague while building a carrier in science

Applications, containing CV, cover letter, contacts of references, and any other material the candidate considers relevant, should be sent to Mrs. Jana Ženíšková, HR specialist ([jana.zeniskova@eli-beams.eu](mailto:jana.zeniskova@eli-beams.eu), +420 - 601560322).

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>