

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/cm<sup>2</sup>, 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.

Detailed information is available at the following website <http://www.eli-beams.eu/>.

The Department of Mechanical Engineering and Design Support of ELI Beamlines is looking for a creative and technically minded candidate (f/m) for the following position in the Mechanics and Optomechanics Team:

## Senior Mechanical Engineer (IV-112)

### Job description:

- prepares requirement specification documents for vacuum infrastructure and opto-mechanical elements (e.g. optical mounts etc.)
- independent design of construction groups and constituent parts of a unique research technology, including drawings creation
- participation in the development of unique, innovative and state-of-the-art equipment in the area
- cooperation on the manufacture, assembly and testing of prototypes with other project teams
- close cooperation with research, development, installation and production teams and Quality Assurance Section

- creation of technical documentation and specifications for purchasing and tendering

**Requirements:**

- university degree in mechanical engineering
- minimum 5 years of experience in the field
- knowledge of design principles and the ability to read and understand design documents and materials
- practical experience with 3D CAD is a must (Siemens NX and Autodesk Inventor would be an asset)
- Experience with engineering FEM/FEA simulations (preferably modal simulations)
- independent, accurate, responsible
- team player
- technically minded and creative
- proficient in spoken and written English, fluent communication

**We offer:**

- the opportunity to participate in this unique scientific project
- competitive and motivating salary
- flexible working hours
- nice working environment
- career growth
- meal allowance, pension contribution and 6 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](mailto: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>