

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 MAC team as a part of the research program 4 (RP4) is currently working on the commissioning of the multi-purpose user end-station (MAC) for experiments in atomic, molecular, and optical (AMO) sciences and coherent diffractive imaging. The MAC user end-station is equipped with electron/ion spectrometers, detectors for coherent diffractive imaging and state-of-the-art target delivery systems to enable advanced photon science experiments on low density targets (atoms, molecules, clusters, nano-particles and aerosols) in a broad range of the electromagnetic spectrum from THz to (soft) X-rays.

In our team we are offering:

Summer internship

You will be taking part of the research program within the MAC team:

- Installation and operation of a scientific equipment
- Control of the experiment and data acquisition
- Analysis of scientific data and preparation of reports

Requirements:

- Curiosity for scientific and technical problems
- Programming skills are an advantage
- Good communication skills and ability to work in team
- Good English in spoken and written form

Applications, containing CV, specification which group/department you are applying for 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)