



The Extreme Light Infrastructure ERIC (ELI ERIC) is the world's largest and most advanced high-power laser research infrastructure. As an international user facility dedicated to multi-disciplinary science, ELI provides access to world-class high-power, high-repetition-rate laser systems and enables cutting-edge research, as well as breakthrough technological innovations. The ELI ERIC operates as a single multi-site organization with two complementary facilities specialized in different fields of research with extreme light: ELI Beamlines in Dolní Břežany (Czech Republic) and ELI ALPS in Szeged (Hungary).

ELI Beamlines Facility operates four cutting-edge high-power femtosecond laser systems reaching unprecedented intensities. The operational laser systems make unique femtosecond sources of X-rays and accelerated particles available to scientific users for pioneering research in physical, chemical, materials, life and medical sciences as well as physics of dense plasmas, warm dense matter, and laboratory astrophysics. The ELI Beamlines Facility employs over 350 researchers, engineers and other professionals from more than 38 countries.

Do you want to see what it takes to be a part of a scientific team and get a taste of what it means to be a scientist?

Join the department of **Plasma Physics and Ultra-high Intensity Interactions**. In our department, we conduct experimental research with the most powerful lasers available at ELI Beamlines. The experimental research has to be complemented by various diagnostics, including diagnostics of laser beams and electromagnetic pulses (EMP) caused by laser-plasma interaction.

In our team, we are offering:

Internship on
**Diagnostics of the L4n laser beams and electromagnetic pulses in
laser-plasma experiments in the P3 chamber**
(IN-17-2023)

What are you going to do?:

- You will participate in the optimization of the laser and EMP diagnostics systems.
- You will participate in an experimental campaign.
- You will analyze and interpret the experimental data from diagnostics.
- You will work with the most advanced laser systems and with one of the largest experimental vacuum chambers in the world.



Our requirements:

- High motivation and a team-oriented attitude to work.
- Ability to communicate clearly in both written and spoken English.
- Practical experience in optics and with optical setups.
- Basic knowledge of electric and electronic lab instruments (oscilloscopes, cameras).
- Basic knowledge of data processing and visualization.

Internship's duration:

- The start is upon agreement and will align with experimental campaigns in Q2/Q3 2023. The possible duration of the internship is between 3 and 5 months, and it may be split into blocks upon agreement with the mentor.

Our offer:

- Unique opportunity to turn theory into practice within an international research institution in the field of laser technology
- Dedicated mentor
- Specific topic scope – the possibility of working on exciting projects within an established team
- Final presentation: Intern conducts final presentation regarding their internship. The event always takes place during the last week of a month when the intern is leaving.
- Completion certificate
- Events for Interns
- Financial remuneration of 170 CZK per hour on an agreement to complete a job (DPP)
- We do not cover accommodation and/or travel and refreshment expenses
- The starting date is either on the 1st or, in particular cases, the 15th of the month
- Applicants from 3rd countries outside of the EU must obtain the necessary visa and work permits prior to the start of their internship.

Shoot your shot and apply!

Application containing your CV and the topic you are applying for with a brief motivation letter should be sent to **Ms. Andrea Fürst** via andrea.furst@eli-beams.eu

Information on the processing of personal data can be found on:

<https://www.eli-beams.eu/informace-o-zpracovani-vasich-osobnich-udaju-gdpr/>

We are an equal opportunity employer.



The Extreme Light Infrastructure ERIC
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