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 Structural Dynamics! We conduct research on the structure, dynamics, and function of samples ranging from isolated atoms to the solid state. Various spectroscopic techniques employing the ultrashort pulse lasers are developed by our researchers from different specialties and applied in the state of the art experiments in our laboratories.

In our team we are offering an:

Internship on
Characterization of semiconductor detectors by laser induced transient current technique

(IN_4_2023)

What are you going to do?:

- You will participate in the optimization of the experimental setup for laser induced transient current technique (TCT) measurements.
- You will carry out TCT experiments on the new generation low gain avalanche detectors (LGAD).
- You will process and analyze the experimental data.
- You will work in a state-of-the art lab where innovative techniques are developed.

Our requirements:

- High motivation and a team-oriented attitude to work.
- Ability to communicate clearly in both written and spoken English.
- Basic knowledge of solid state physics (especially semiconductors).

- Basic knowledge of electric and electronic lab instruments (oscilloscope, power supplies, multimeters, photodetectors etc.).
- Basic skills in data analysis and data visualization

Internship´s duration:

- The possible starting date of internship is from 1st June to 1st October 2023. The possible duration of internship is between 1 and 3 months (the whole period can be divided into blocks upon agreement with a mentor).

Our offer:

- Unique opportunity to turn theory into practise within an international research institution in the field of laser technology
- Dedicated mentor
- Specific topic scope – possibility to work 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 jod (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 EU must obtain necessary visa and working 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.


eli
BE PART OF AN ELITE TEAM