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?

The Safety team is i.a. working on development of detectors of ionizing radiation. We are offering an internship on the:

Development of a scintillation detector for the characterization of pulsed radiation field

(IN-19-2023)

What are you going to do?

The safety team in collaboration with the department of ion acceleration and the laser control systems group is developing radiation detectors used for characterizing the radiation fields generated during laser-target experiments. Different areas of development are considered including work on data acquisition and control systems, detector design and optimization, benchmark laboratory measurements, and electronic and Monte Carlo simulation studies. The candidate's involvement in the project will be adjusted based on his/her profile and interest.

Our requirements:

- The ideal candidate should be enrolled or have recently graduated from a University program of physics or electrical engineering. Other candidates with relevant experience or education will also be considered.
- Good computational and analytical skills.

- Good working proficiency of English in the spoken and written forms (minimum B1 level required).
- Previous experience with programming of microcontrollers, circuit design and Monte Carlo simulation is a plus.
- A good knowledge of the Linux OS and grid computing is a plus.

Internship´s duration:

- Two months in total, at any time (subject to previous agreement),
  (start is possible from the 1st or 15th of the month).

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 – 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 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 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