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.

In our team we have the following position available:

Senior control systems engineer (185)

Job description:

- designing and implementing control systems for large experimental physics facility based on high energy, high peak power laser systems
- implementing process control, machine safety systems, data acquisition, processing, data analysis as part of a larger team
- creating system overview diagrams for control systems based on stakeholder inputs using the internal development processes and standard templates
- drawing of electrical wiring diagrams and P&I diagrams for control system installations
- contribute to the development and maintenance of facility-wide standards for control system installations, especially regarding electrical installations and processes, documentation and hardware selection
- provide expert support of the daily operation of the facility, response to system outages, and contributions to commissioning and maintenance activities

Requirements:

- university degree in technical field or natural sciences (PhD preferred)
- proven experience in design and development of complex technological systems (research infrastructures preferably)

- minimum 3 years of experience with control systems development
- excellent command of English

Desirable:

- familiarity with photonics industry
- experience in cooperation with industry sector
- experience in tender preparation
- experience in CS software development for PC, real-time and FPGA/embedded platforms
- Rf, safety systems …
- past experience in development of custom electronics
- basic knowledge of vacuum systems, cryogenic plant, gas handling and water systems

We offer:

- opportunity to work in this unique international scientific institution
- competitive and motivating salary
- flexible working hours
- good working environment
- career growth, professional education
- meal allowance, pension contribution
- 5 weeks of holidays and 6 days of personal leave
- 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, HR Senior Specialist (jana.zeniskova@eli-beams.eu). Please include the following text in your cover letter, to allow us to process your personal details:

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.