Electrical Engineer position is available in the Electrical Engineering Group of ELI ALPS

ELI ALPS (https://www.eli-alps.hu/), part of the Extreme Light Infrastructure (ELI), is a world-leading research facility in Szeged, Hungary, dedicated to studying ultrashort high energy processes. As one of the three pillars of this European megaproject, ELI ALPS provides cutting-edge ultrashort light sources, including attosecond XUV and X-ray pulses, for the scientific community, enabling groundbreaking research in light–matter interactions, valence and core electron science, materials science, 4D imaging, and various biomedical applications.

What you will do:

The duties and responsibilities in the position include but are not limited to the following:

- Upgrading and maintaining the PLC based control systems managed by the Electrical Engineering Group
- Assisting the design and implementation phases of such systems
- Troubleshooting, maintenance of the existing control systems
- Design review
- Assistance in the technical preparation of the procurements of the group

What we expect:

We expect candidates to have an MSc or BSc degree in Electrical Engineering or be able to demonstrate equivalent professional experience. The successful candidate must have a minimum of three years working experience. Previous work experience in large experimental physics institutes or in the field of electrical construction or maintenance is desirable but not essential.

Advanced skills in **Siemens Totally Integrated Automation (TIA) Portal** software. Comprehensive PLC hardware related knowledge.

The candidate select showing self-motivation and independent problem solving skills will have to work in a team, closely interact with other research and technical divisions in-house, cooperate with product vendors, and collaborate with teams of international scientists. This position requires working within production deadlines. A good command of English, as well as communication and interpersonal skills are a prerequisite.

Additional preferred skills and qualifications:

- Vacuum background
- Scientific background
- Functional Safety related experience
- Developing and programming of microcontroller based control systems
- PCB design and manufacturing

Job location: Hungary, Szeged

Start time: As soon as reasonable

Why join us?

- **International collaborations:** Our team frequently engages in international scientific collaborations with both experimental and theoretical areas, offering excellent opportunities to expand your global network and engage in pioneering research with experts in the field.
- **Cutting-edge facility:** ELI ALPS is part of the Extreme Light Infrastructure (ELI) project, providing access to some of the most advanced research tools in the world. ELI ALPS provides cutting-edge ultrashort light sources, including attosecond XUV and X-ray pulses, for the scientific community.
- **Quality of life:** We offer very competitive salaries in regional comparison, and the city of Szeged provides pleasant living conditions.

Please upload your CV and motivation letter to our Career Site: https://www.eli-alps.hu/en/Career-1

Extreme Light Infrastructure ERIC / ALPS Facility / ELI-Beamlines

The Extreme Light Infrastructure (ELI ERIC) is the world's largest high-power laser research facility, offering cutting-edge lasers for groundbreaking science and innovation. Operating across two sites – ELI Beamlines in the Czech Republic (near Prague) and ELI ALPS in Hungary (Szeged) – it employs a diverse team of experts from around the globe.

ELI Beamlines operates four advanced femtosecond laser systems, delivering unmatched intensities. These lasers drive unique X-ray and particle sources for groundbreaking research in physics, chemistry, materials, life sciences, and astrophysics.

ELI ALPS operates lasers and secondary sources to deliver ultrafast light pulses (including attosecond pulses) for pioneering research in physics, chemistry, materials and life sciences. Its advanced systems enable exploration of ultrafast electron dynamics and complex molecular processes.