

Electrical Engineer – Scientific Engineering Division

Location: Szeged, Hungary
Staff Category: Staff Member
Contract Type: Fixed Term
Grading: depending on experience and qualifications
Closing Date: open until filled
Reference Number: SE_000001

Job Description

The first civilian large-scale research facility based on high-power lasers, the European Extreme Light Infrastructure (ELI), is to be constructed with international cooperation at three locations (Prague, CZ; Magurele, RO; and Szeged, H) with a coordinated management and research strategy. The Attosecond Light Pulse Source (ALPS) research centre to be built in Szeged, Hungary will be operated as a user facility for studying of electron dynamics on the femto-, attosecond scale in atoms, molecules, plasmas and biological samples.

ELI-ALPS is seeking Electrical Engineers to join the Scientific Engineering Division. The primary mission of the newly built and rapidly growing division is to provide engineering support for the experimental research activities including instrumentation, safety, mechanical, electrical and software engineering aspects. Optical and target preparation laboratories as well as mechanical and electronics workshops will also be built to support the implementation and operation of the facility.

This work requires experiences on the fields of electronic circuit design and testing, instrument automation, PLC system design and FPGA programming, VME and MicroTCA based system development, machine protection and personal safety system implementations.

The selected candidate must be prepared for frequently traveling and performing training abroad.

In addition, the ideal candidate will be responsible for building up a dedicated team on the given field by helping new employees and trainees.

Qualifications and Experience

The successful candidate will have a Master's degree in Electrical or Computer Engineering or be able to demonstrate the equivalent professional experience. (S)he should have a minimum of three years experiences working in scientific engineering domain, and especially, have experience with fieldbus systems, and simulation tools. Previous work experience in large experimental physics institutes is desirable but not essential.

Advanced skills in automation design are essential including the use embedded systems and modular I/O boards. Demonstrated experience using pSpice, Tina, or any other related tool is advantageous.

The ideal candidate showing self-motivation and independent problem solving skills will be expected to work in 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. Excellent English language, communication and interpersonal skills are a prerequisite.

Application Instructions

For further information in research and engineering matters, please contact the head of the division, Sandor Brockhauser (sandor.brockhauser@eli-alps.hu).

If you are interested in the position and meet the required criteria, please submit your detailed CV and motivation letter indicating at least two referees and your contact details to allas@eli-alps.hu.

Please use the registry number of this announcement (**SE_000001**) as the subject of your e-mail.

Additional Information

ELI-ALPS is an inclusive, equal opportunity employer offering pleasant working environment in a brand new infrastructure with attractive conditions and benefits appropriate to an international research organization.

Please note that appointments on fixed term contracts can be renewed, depending on circumstances at the time of the review.