

Vacuum Engineer – Scientific Engineering Division

Location: Szeged, Hungary
Staff Category: Staff Member
Contract Type: Fixed Term
Grading: depending on experience and qualifications
Closing Date: 01/08/2014 but open until filled
Reference Number: SE_006

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 Vacuum 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.

The selected candidate will assume the maintenance and exploitation of the vacuum existing systems and facilities. The main task expected from the successful applicant is design the beam transport system vacuum components. (S)he should produce technical specifications, drawings and costs estimations. This work requires experiences in production follow-up, installation and commissioning of vacuum systems and components. The ideal candidate shall write and/or review installation, maintenance, coordination procedures; contribute to the organization and scheduling of the preventive, predictive and corrective maintenance of vacuum facilities. (S)he should cooperate with other technical teams to meet the expected goals of the working team, this includes collection of information, reporting and coordination. Follow-up and documentation on activities during the installation, commissioning, maintenance, etc. is an important task of the candidate.

Qualifications and Experience

Education:

University degree in mechanical engineering, material engineer, engineering physicist, physicist, or equivalent.

Experience and knowledge:

The successful candidate should have a minimum of five years of experience in high vacuum technologies and applications. Proven record of projects related to production of technical specifications and/or high vacuum technologies is desirable. (S)he should have more than five years of operational and maintenance experience, preferably on similar positions in industrial plants and/or research institutions.

Advanced skills in CAD applications, mechanical design and vacuum specific software applications are prerequisite. Experiences in instrumentation, machinery or robotics are essential.

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

Please note that the expected date of commencement of the work is 1st of July 2014 (at the latest November 2014).

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_006**) 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 organisation.

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