

Vacuum Engineer

Job Background

The first civilian large-scale research facility based on high-power lasers, the Extreme Light Infrastructure (ELI), is to be constructed with international cooperation at three locations with a coordinated management and research strategy. The Attosecond Light Pulse Source (ALPS) research centre in the final stages of construction in Szeged, Hungary will be devoted to study electron dynamics on the femto-, attosecond scale in atoms, molecules, plasmas and biological samples.

The primary mission of the ELI-ALPS research facility in Szeged is to make a wide range of ultrafast light sources accessible to users of the international scientific community, with special consideration to coherent extreme-ultraviolet (XUV) and X-ray radiation, and to attosecond pulses. The secondary mission of the facility is to contribute to the scientific and technological development towards high average power high peak intensity lasers.

ELI-HU Research and Development Non-Profit Ltd. coordinates the preparation, construction and operation of ELI-ALPS, an international laser research center.

Job Requirements

- Master's degree in Engineering or Natural Sciences
- Relevant experience in:
 - Knowledge of vacuum physics and vacuum systems;
 - Experience in leak detection techniques;
 - Experience in the operation of high vacuum system;
 - Ability to produce high quality technical reports in English.
- Team player and independent and creative worker
- Good work ethic and having a positive attitude
- Ability and willingness to learn new technologies
- Outstanding problem solving skills
- Excellent oral and written communication skills
- Good knowledge of English

Non-essential but preferred experience

- Scientific background

Job Description

- Participate in the assessment of designs of vacuum components and systems to ensure vacuum standards and leak testability
- Participate in the assembly, maintenance and development of the vacuum systems
- Produce technical specifications, drawings, costs estimations and cooperate with product vendors
- Follow-up and documentation on activities during the installation, commissioning, maintenance
- Work in teams including close collaborations with other scientists and engineers

ELI-ALPS offers

- cutting-edge and unique infrastructure
- an opportunity to participate in the support of novel cutting-edge research
- an international team of scientists and engineers with a really diverse background
- unprecedented challenges
- a competitive salary
- attractive fringe benefits
- a pleasant working environment in a brand new infrastructure

Application protocol

In case of any technical question, further professional elaboration and informal discussion on this position, please contact Árpád Mohácsi (arpad.mohacsi@eli-alps.hu) and Diana TOTH (diana.toth@eli-alps.hu).

If you are interested in the position, please submit a brief CV and motivation letter including an indication of your salary expectation to <http://www.eli-alps.hu/career/>.

Europass format would be appreciated (CV, motivation letter) but not obligatory.

Further Information



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3D Animation



Construction Site Video