

ELI-ALPS Laser Research Institute is a large-scale, high-power laser research facility established upon the initiative of the international research community within the framework of the ELI project, and primarily funded from the European Structural Funds with national co-funding. The institute's state-of-the-art laser systems as well as its light and particle sources driven by these systems make it the first civilian facility where light-material interactions can be studied at unprecedentedly high intensities. The unique research technology provides formerly unattainable experimental opportunities for the investigation of ultrafast processes, opening a doorway into new territories within physics, chemistry and materials science. The results of fundamental research conducted in the facility can have a significant impact on several fields of medical and environmental sciences, and can give momentum to important technical developments.

In December 2020, the IMPULSE Project was launched with the involvement of 15 consortium partners from 10 European countries.

The objective of the project supported by the European Union's Horizon 2020 Research and Innovation Framework Programme is the efficient, sustainable and smooth integration of the research institutes of the ELI infrastructure (ELI-ALPS, ELI Beamlines, ELI-NP), including the integration of scientific, technical and organizational capabilities.

To foster the implementation of the above goals, we are looking to employ a

Software Engineer

Duties and Responsibilities

The candidate will be expected to

- Participate in the development of software toolboxes to enable optimized operation, in particular:
 - Development of a simulation tool for high peak power laser operation,
 - Control system integration of complex and expensive devices,
 - Development of solutions for increased control system integration and automation.
- Participate in the design and development of the optimized management of spare parts to maximize cost efficiency, machine safety and reliability.

Education and Experience

- MSc in Computer Science, Software Engineering or a similar STEM field,
- Proven track record of programming in at least two of the following languages: Python, C++, C#, Java, MATLAB and LabVIEW,
- Experience in the development of complex software solutions,
- Experience with database systems,

- Experience in working in an agile environment with software development environments and tools (e.g. IDEs, team collaboration, version management),
- Experience with control systems and network communication libraries is an advantage,
- Experience in using scientific software libraries is an advantage.

Skills and Abilities

- Excellent software engineering and programming skills,
- Interest in natural sciences, especially physics,
- Ability to analyze data/information and develop/deliver findings and recommendations,
- Good oral and written communication skills in English,
- Good teamwork skills, including close collaborations with scientists and engineers,
- Cooperation with product vendors and collaboration with teams of international scientists,
- Ability to work within production deadlines.

Employment conditions

- Cutting edge and unique infrastructure,
- Start of employment as soon as possible,
- Full-time employment contract
- Competitive salary and benefit package,
- Job location in Szeged, Hungary.

To clarify any technical/professional questions, or for an informal discussion on this position, please contact Lajos Schrettner (lajos.schrettner@eli-alps.hu).

If you are interested in the position, please upload your CV and motivation letter to our Career Site at <https://www.eli-alps.hu/en/Career>.