

## Software Engineer

### Job Background

- ELI (Extreme Light Infrastructure) will be the “CERN of laser-based research”
- ELI has three pillars:
  - ELI-Beamlines in Czech Republic
  - ELI-NP in Romania and
  - ELI-ALPS in Szeged, Hungary
- Current work focuses upon preparation and planning for full operational state
- ELI-ALPS will open new research fields and make new scientific approaches feasible
- Possible scientific and industrial application areas include biology, chemistry, climate research, energy, development of new materials, semiconductors, optoelectronics and many more.

### Job Requirements

- Master's degree in Computer Science/related fields (or close to graduation)
- Relevant experience in:
  - At least in one object oriented language
  - Source code version management (GIT, SVN, etc.)
  - Software design (UML, design patterns)
  - Software architectures
  - Build tools (make, automake, Ant, Maven, etc.)
  - Unit testing,
  - IDEs
  - Linux
  - SQL
  - State Machines/State Transition Systems
  - Agile software developments processes
  - Refactoring methods
- A team player as well as an 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 command of English
- Flexibility and the ability to cope with heavy workload

### Non-essential but preferred experience

- Python, C++
- user interface toolkits, Qt/PyQt
- TANGO or other SCADA systems
- GPU programming, scientific data analysis/algorithms
- IT networks and/or electronics and/or physics

## Job Description

The candidate will be expected to contribute to the EUCALL project by investigating ultrafast data injection techniques.

The candidate will also be expected to evaluate, customize, develop and review

- scientific algorithms
- system software, mostly in Python
- user interface software
- participate in the coordination of the work of suppliers, elicitation and communication of requirements, code and design reviews
- work well in teams; closely interact with other scientists and engineers,
- cooperate with product vendors and collaborate with teams of international scientists
- work within production deadlines

## 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 Lajos SCHRETTNER ([lajos.schrettner@eli-alps.hu](mailto:lajos.schrettner@eli-alps.hu)) and Diána TÓTH ([diana.toth@eli-alps.hu](mailto:diana.toth@eli-alps.hu)).

If you are interested in any of these positions and meet the required criteria, please submit your application documents detailed above to <http://www.eli-alps.hu/career/>.

Europass format is preferred but not obligatory.

## Further Information



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