

Software Architect

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 operate as a user facility including electron dynamics studies
- 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.
- ELITrans is an EU-funded H2020 project preparing the transition of the ELI pillars
- ELITrans addresses the preparation of unified computing and data management solution alternatives with the help of external expert organizations: [PRACE](#) (supercomputers, HPC), [EGI](#) (grid), [EUDAT](#) (data services)
- ELITrans also includes the preparation of virtual research management environments

Job Requirements

- Master's degree in Computer Science/related fields
- Relevant experience in:
 - At least in one object oriented language
 - Source code version management (GIT, SVN, etc.)
 - Software design methodologies and processes
 - Software architectures
 - Build tools (make, automake, Ant, Maven, etc.)
 - Linux,
 - Database design and management
- The ability to work well in a team 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
- Willingness to travel

Non-essential but preferred experience

- Python programming language
- Agile software development processes
- Requirement engineering
- IT security
- Quality assurance
- Scientific data analysis/algorithms
- State machines, state transition systems
- Business processes
- IT networks and/or physics
- Experience with H2020 projects

Job Description

The candidate will be expected to

- elaborate multiple alternative solution architectures, design and take part in the implementation of prototypes
- interconnect the ELITrans project with ELI-ALPS's in-house developments
- participate with the coordination of suppliers' work, elicitation and communication of requirements, code and design reviews
- work well in teams including close collaborations 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) or Diána TÓTH (diana.toth@eli-alps.hu).

If you are interested in the position, please fill in our Career Site with your professional data at <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