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, currently under construction, 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 (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 Machine/State Transition Systems
- 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

- agile software development processes
- requirement engineering
- IT security
- quality assurance
- scientific data analysis/algorithms
- business processes
- ERP systems
- IT networks and/or physics

Job Description

The candidate will be expected to
- be the main contributor from ELI-ALPS to the ELITrans project
- 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, as well as with the work package members of the ELITrans project
- 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

Find us on **f**

Linked in

3D Animation

Construction Site Video

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