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
- evaluate, customize, develop and review scientific algorithms, e.g. GPU codes
- 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) and Diána TÓTH (diana.toth@eli-alps.hu).

If you are interested in the position, please submit your CV and motivation letter in English including an indication of your salary expectation to job@eli-alps.hu

Europass format is preferred but not obligatory.

Further Information