Senior Embedded Programmer

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
- Operation will start in 2016, users will arrive in 2018
- 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, and development of new materials, semiconductors, optoelectronics and many more

Job Requirements

- Master’s degree in Electrical Engineering/Computer Science or related fields
- Relevant experience in:
  - FPGA design (or have at least affinity),
  - Linux (DMA, Device tree, etc.),
  - GPU computing,
  - C++,
  - Source code version management (GIT, SVN, etc.),
  - Software design (UML, design patterns),
  - Software and hardware architectures,
  - Build tools (make, automake, Ant, Maven, etc.),
  - Unit testing.
- Team player and 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
- quality assurance
- scientific data analysis/algorithms
- Python

Job Description

The successful candidate will:

- develop embedded programs as part of the DAQ chain for data acquisition and online data processing (front-end detector electronics, optionally GPUs),
- develop high-speed data interfaces and injection techniques,
- elaborate multiple alternative solution architectures with some prototypes,
- 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**

• possibility to involve in an international European project  
• 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 Miklos KONCZ (miklos.koncz@eli-alps.hu) and Diana TOTH (diana.toth@eli-alps.hu).

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

Europass format would be appreciated (CV, motivation letter) but not obligatory.

**Further Information**

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Construction Site Video