The ELI (Extreme Light Infrastructure) Project is an integral part of the European Union plan to build the next generation of large research facilities: ELI-Beamlines in the Czech Republic, ELI-ALPS in Hungary, and ELI-NP in Romania. ELI-Beamlines was opened in 2015 as a cutting edge laser facility and currently is starting to offer open access beamtime to users. ELI-Beamlines is delivering ultrashort, ultra-intense laser pulses lasting typically a few femtoseconds (12-150 fs) with peak powers ranging from 5 TW up to 10 PW. The high laser electric field intensities of the laser pulse is also used for generating secondary sources of e- and p+. The facility will make available short laser and particle pulses over wide range intensities for interdisciplinary applications in physics, medicine, biology, material science etc.

The Institute of Physics of the Czech Academy of Sciences is a holder of the HR Excellence in Research Award. It is awarded by the European Commission to institutions, which put significant effort into improving their human resources strategy and ensuring professional and ethical working conditions.

The Safety team brings together experts from various fields (radiation protection, laser safety, EHS, chemicals, etc.), who provide support to all scientific teams. For this team, we are seeking an applicant, who would ensure safe commissioning and operation of PLC based personal safety interlock system. Currently, half of the system is in trial operation, system for remaining areas is under development.

Safety Control System Engineer (152)

Responsibilities:

- engineering supervision of the hardware and software installation of the PLC based Personal Safety Interlock system (PSI) supplied by external company
- liaison with the supplier of the PSI to ensure successful design, installation, commissioning, and operation of the system
- acting as engineering support for the PSI, supporting the daily operation of the laser and experimental laboratories, applying bug fixes and feature requests and responding to operator and user requirements
- assisting in project documentation revisions
- participating in preparation of procedures related to PSI and other relevant systems based on operation needs
- taking responsibility for upgrades, regular maintenance and testing of the installed PSI system in cooperation with the external supplier
- preparing operation statistics to ensure highest level of system availability

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Required qualifications:

- relevant university degree with one or more of the following disciplines: electronics engineering, software engineering, electrical engineering or equivalent
- practical experience in PLC based installations and operations or development of SW or HW applications for control systems
- practical experience with engineering drawings and design documentation
- good working knowledge in English (both oral and written)
- following qualifications are optional:
  - ✓ working experience with the personal safety systems
  - ✓ PLC programing skills
  - ✓ experience with risk assessment and safety functions definitions
  - ✓ working experience obtained in research, scientific, or academic institution
  - ✓ experience with laser systems

We offer:

- opportunity to work in this unique international scientific institution
- competitive and motivating salary
- flexible working hours
- good working environment
- career growth, professional education
- meal allowance, pension contribution
- 5 weeks of holidays and 6 days of personal leave
- support of leisure time activities

Applications, containing CV, cover letter, contacts of references, and any other material the candidate considers relevant, should be sent to Mrs. Jana Ženíšková, HR specialist (jana.zeniskova@eli-beams.eu, +420 - 601560322).

Information regarding the personal data processing and access to the personal data at the Institute of Physics of the Czech Academy of Sciences can be found on: **https://www.fzu.cz/en/processing-of-personal-data**

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