

ELI Beamlines is a European laser research facility where an international team currently installs the world's most intense laser systems. Once completed, it will enable groundbreaking research not only in the fields of physics and material science, but also in biomedical research and laboratory astrophysics. ELI (Extreme Light Infrastructure) project is involved in a European project Photon and Neutron Open Science Cloud – PaNOSC which aims at developing and providing services for scientific data and integrating them to the European Open Science Cloud (EOSC).

# Scientific Data Analysis Specialist (Software Developer)

## Job description:

Your main mission will be to prototype, develop, and implement interactive web-based solutions for analysis of various scientific datasets obtained from experiments at ELI facilities. You will collaborate with partners in the PaNOSC project on development and integration of these open-source tools and services into the EOSC.

## Required skills:

- university degree in Computer Science, Engineering, Science, or related field
- good knowledge of programming in Python, C++, C
- experience with data analysis tools and techniques
- experience with processing of scientific data
- good knowledge of Linux/Unix programming environment
- proficiency in English

## Desired skills:

- experience with JupyterLab / Notebook
- experience with Python libraries and tools for scientific computing: numpy, scipy, matplotlib, pandas, plotly, h5py
- experience with machine learning (AI) solutions for big data processing and analysis
- knowledge of remote data access and analysis workflows
- experience with data visualization tools
- knowledge of programming in C++, C
- knowledge of web technologies: WebGL, javascript
- experience with GPU technologies: CUDA, OpenGL, OpenCL, Vulkan

- experience in European projects and international collaborations

**Job conditions:**

- the opportunity to participate in this unique scientific project
- career growth, professional education
- competitive and motivating salary
- 5 weeks of holiday and other employee benefits

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](mailto: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>