ELI-HU Research and Development Non-Profit Limited Liability Company is announcing

Job opening in a Group Leader position

Location:	Extreme Light Infrastrucure Attosecond Light Pulse Source Szeged, Hungary
Staff Category:	Staff Member
Contract Type:	Open-ended term
Gradings:	Group Leader (one position)
Closing Date:	Open until filled
Reference Number:	PaTHz_IA_GL

The Hungarian ELI: The Attosecond Light Pulse Source (ALPS)

The first civilian large-scale research facility based on high-power lasers, the Extreme Light Infrastructure (ELI), is to be constructed with international cooperation at three locations with a coordinated management and research strategy. The Attosecond Light Pulse Source (ALPS) research centre in the final stages of implementation in Szeged, Hungary will be devoted to study electron dynamics on the femto, attosecond scale in atoms, molecules, plasmas and biological samples.

The primary mission of the ELI-ALPS research facility in Szeged is to make a wide range of ultrafast light sources accessible to Users of the international scientific community, with special consideration to coherent extreme-ultraviolet (XUV) and X-ray radiation, attosecond pulses, high repetition rate particle sources and intense THz pulse generation. The secondary mission of the facility is to contribute to the scientific and technological development towards high average power high peak intensity lasers.

ELI-HU Non-Profit Research and Development Ltd. coordinates the preparation, construction and operation of ELI-ALPS, an international laser research center.

Job description:

The applicant lead the Ion Acceleration Group within the Particle and THz Sources (PaTHz) Division. The Group's duties mainly consist of implementing the User-oriented laser driven ion acceleration programme at ELI-ALPS. The applicant is expected to lead the work towards the successful implementation of this beamline and its usage in state-of-the-art applications, through:

- Coordination of the research and development program with the developers of the ion acceleration beamline
- precursor experiments on laser driven ion acceleration in partner laboratories
- design/development of instrumentation/diagnostics with their respective control software, relevant to the electron beamline
- applications of laser driven ion acceleration
- recruitment of appropriate personnel for the fulfilment of the Group's mission

Moreover, participation in preparation of peer-reviewed journal publications, as well as in conferences/workshops/meetings and other activities in line with the duties of the Group and the Division, is expected and highly encouraged.

The successful applicant will liaise closely with the PaTHz Division Head as well as with the Scientific Advisor on the scientific planning of the Group's mission and with the Research Technology Director on the ion beamline development and related technological aspects.

Requirements from the applicants:

The applicants are expected to hold a PhD degree or have at least 10 years of research experience in one of the following fields

- experimental intense laser plasma interactions
- laser driven ion acceleration experiments
- laser driven ion acceleration related diagnostics and control software
- laser driven ion acceleration related applications

The following additional skills/experience will be highly valued:

Technical skills

- Simulations on laser driven ion acceleration
- Expertise on ElectroMagnetic Pulse (EMP) mitigation
- analytical/numerical and programming experience (Matlab, LabVIEW, Python)

Managerial/Leadership skills

- Experience in team leading/building, with a minimum of 4 team members.
- Experience in leading multi-party R&D projects
- Experience in scientific networking and collaborative
- Experience in fund raising and management of research grants

The applicants must have a high quality publication record in peer reviewed journals commensurate with the career stage. Moreover, they must demonstrate good written and verbal English communication skills and should have excellent interpersonal skills as it will be required to interact with an international user community.

We offer:

- Competitive (EU-level) salary
- Attractive fringe benefits (for full time employment only)
- Challenging job with carrier opportunities
- Pleasant working environment in a brand new international infrastructure

The successful applicant may have a duty to do part of their research and development work outside Hungary at contracted collaborators and partners of ELI-HU Non-Profit Ltd., as part for their specific work tasks.

The application must contain:

- A detailed CV and list of publications – stating the applicant's h-index and number of citations without self-citations
- A motivation letter
- The name of two scientific supervisors or professors, who could give expert opinion about the applicant's skills
- The applicant's postal address and other contact data (phone, fax, e-mail)

Schedule:

- Application deadline: continuous, valid until withdrawn
- Foreseeable date of the interview for shortlisted applicants: within 3-6 weeks of application submission

For further information on ELI-ALPS, please visit the ELI-ALPS website (http://www.eli-alps.hu), while for position related information, please contact Dr. Christos Kamperidis (christos.kamperidis@eli-alps.hu).