

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

Job openings in **Early Stage Researcher** and **Research Fellow** positions

<b>Location:</b>	Extreme Light Infrastructure Attosecond Light Pulse Source Szeged, Hungary
<b>Staff Category:</b>	Staff Member
<b>Contract Type:</b>	Fixed Term
<b>Gradings:</b>	Group Leader (one position) Research Fellow (two positions) Early Stage Researcher (two positions)
<b>Closing Date:</b>	Open until filled
<b>Reference Number:</b>	LaSo_GL LaSo_RF LaSo_ESR

### 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 construction 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, and to attosecond pulses. 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 candidates will be assigned to a group whose duty consists in designing, developing and implementing amplified ultrashort pulse laser systems and associated diagnostics. The group is also in charge of the operation and maintenance of the laser systems.** Please visit the ELI-ALPS website for detailed information on the laser systems. For further information in scientific and research matters please contact the Research Technology Director, Karoly Osvay ([Karoly.Osvay@eli-alps.hu](mailto:Karoly.Osvay@eli-alps.hu)).

### Requirements for all applicants:

The candidate must have good written and verbal English communication skills. Previous experience in research related to one or more fields of lasers, ultrashort light pulses, optical engineering, and

spectroscopic investigations are especially advantageous. The candidate must have excellent interpersonal skills as she or he will be required to interact with an international user community.

**1. For Early Stage Researchers:**

- University students in their last year of an MSc Program in relevant specialization fields (physicist, engineering physicist, electrical engineer or chemist), assuming that they complete their studies by 30<sup>th</sup> June, 2016.
- PhD students working in relevant research fields.
- Early stage researchers or engineers without a PhD degree.

**2. For Research Fellows:**

- Scientists or engineers with PhD degree or submitted PhD thesis in relevant research field, or at least 10 years of research experience in a related research institute.

**3. For Group Leader:**

- Same as for a research fellow, plus experience in scientific management, track record of applying for research grants.

**We offer:**

- Competitive (EU-level) salary
- Challenging job with carrier opportunities
- Pleasant working environment in a brand new international infrastructure

During the employment early stage researchers or research fellows may have the opportunity to enroll to a PhD program at the University of Szeged. The successful candidates 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 of their training and education for their specific task.

**The application must contain:**

- A Europass curriculum vitae or detailed scientific curriculum vitae
- Full list of publications – highlighted the list of articles published in refereed journals and containing the following data:
  - h-index
  - cumulative impact factor (calculated by summing of impact factors of journals characteristic for the year of publication of each article)
  - number of citations without self-citations
- A motivation letter
- The name and contact info of two scientific supervisors or professors, who could give expert opinion about candidate's skills
- The candidate's postal address and other contact data (phone, fax, e-mail, Skype ID)

**Schedule:**

- Application deadline: continuous, valid until withdrawn
- Foreseeable date of the interview for selected candidates: within 6-10 weeks of application submission

If you are interested in any position and meet the required criteria, please submit your application documents detailed above with reference number in subject to [job@eli-alps.hu](mailto:job@eli-alps.hu).