

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

Job openings in **Early Stage Researcher and **Research Fellow** positions in the Laser Infrastructure Division**

The Attosecond Light Pulse Source of the Extreme Light Infrastructure

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 recently started operation in Szeged, Hungary and it is 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 Research and Development Non-Profit Ltd. coordinates the preparation, construction and operation of ELI-ALPS, an international laser research center.

Job description

The candidate 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 and provide beamtime to external users.

Please visit the ELI-ALPS website for detailed information on the laser systems (<https://www.eli-alps.hu/en/Research-Technology/Lasers>).

Requirements for all applicants:

Previous experiences in research related to one or more fields of solid-state lasers, ultrashort light pulses, nonlinear optics, optical engineering, and spectroscopic investigations are essential. The candidate must have excellent written and verbal English communication skills as she or he will be required to interact with an international user community. Relocation to Szeged, Hungary is necessary.

1. For Early Stage Researchers:

- Recent graduates or 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 within the next three months.
- PhD students working in relevant research fields, but able to obtain full-time employment.
- 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.

We offer:

- Competitive (EU-level) salary
- Attractive fringe benefits
- Challenging job with career 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 detailed scientific curriculum vitae
Full list of publications – highlighted the list of articles published in refereed journals and containing h-index.
- A motivation letter
- The name and contact info of at least two scientific supervisors or professors, who could give expert opinion about candidate's skills
- The candidate's contact data (phone, 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

For further scientific elaboration and informal discussion on this positions please contact Ádám BÖRZSÖNYI (adam.borzsonyi@eli-alps.hu), Single Cycle Laser group leader or Bálint KISS (balint.kiss@eli-alps.hu), Mid-Infrared Laser group leader.

If you are interested in any of these positions and meet the required criteria, please fill in our Career Site with your professional data at <https://www.eli-alps.hu/en/Career>. Please use "Early Stage Researcher: LaSo" or "Research Fellow: LaSo" in the subject of your e-mail definitely.