

Junior Researcher

at the **Extreme Light Infrastructure – Nuclear Physics (ELI-NP)**

Research Activity 3 – Nuclear Physics with High-Power Lasers

Junior Researcher in Theoretical and Computational Physics with High Intensity Lasers

Job Description and Candidate's Profile

Scope of Work:

The Junior Researcher will perform scientific computations and theoretical developments in all the main scientific directions of Research Activity 3, participate in scientific working groups, assist the research of postdoctoral researchers and PhD students, and participate in the implementation of the scientific aims of Research Activity 3. Personal research and collaboration initiative will be encouraged.

Main responsibilities:

Junior Researchers will:

- Participate in research activities led by Senior Researchers;
- Take part in scientific meetings and conferences;
- Take part in the definition and development of the ELI-NP experimental areas.

Main tasks:

- Performing the specific tasks within the Research Activity led by a Senior Researcher;
- Participating in scientific meetings and conferences;
- Participating in the specific activities during commissioning and installation phase;
- Providing support for the preparation of the technical documents for the acceptance of Project's deliverables;
- Actively and efficiently involving in the dialog and communication within the ELI-NP team and promoting a harmonious collaboration framework.

Professional background:

- At least 2 years of experience (CS) and 4 years (CS III) in research and development or higher education, out of which at least 1 year of postdoctoral studies in theoretical and computational physics of nuclear or strong-field physics with high-power lasers, or closely related fields, such as:
 - laser-plasma interactions and particle acceleration;
 - nuclear physics;
 - strong-field QED physics;
 - Particle-in-Cell and hydrodynamic simulations of experiments with high-power lasers.
- PhD degree in a field related to the research activity at ELI-NP;
- Good publication record;
- Excellent references in research;
- Fluent in English;
- Proven teamwork experience, communication and efficient collaboration skills.

Working arrangements/Conditions of employment:

- Full time position, based in Bucharest - Magurele, Romania;
- Included: private medical coverage, paid annual leave;
- Motivating salary, at European level, based on qualifications and experience;
- The candidate should be available to travel abroad for scientific collaboration at various research infrastructures, for part of their time.

Applications:

The applications shall be accompanied by the documents requested in the Rules of Selection for these positions.

The applications shall be sent to the Human Resources Department at human.resources@eli-np.ro.