



## **OPEN PERMANENT POSITION AT LOA**

Theoretical and numerical laser-matter interaction physics  
using intense and ultrafast lasers

The Laboratoire d'Optique Appliquée (LOA) is seeking a research engineer to develop and run numerical simulation codes in the field of laser-plasma interaction physics. The LOA research groups are interested in a broad set of research topics and in particular in the interaction between ultrafast and intense laser pulses and matter, such as gas targets, solid targets, plasmas, and particle beams. An essential tool in this research activity is advanced computational modeling with both applied and fundamental projects.

### **Job assignments**

The successful candidate is expected to work on the interaction between high intensity and ultrafast laser pulses and plasmas, and/or secondary sources generated from laser-plasma interaction. He/She is expected to closely work with several research groups at LOA, on problems relevant to computational and data aspects of planned and future experiments as well as the interpretation of experimental data. He/She will identify the best calculation tools and also provides expertise to researchers for the use of computational modeling techniques. He/She will train researchers or students in their choice of numerical methods and codes.

### **Qualifications**

Physics of laser-plasma interaction; Scientific computing methods; Particle-In-Cell (PIC) modeling; Numerical methods for solving differential equations; Parallel computing; GPU programming.

### **Employment**

Type of employment: research engineer permanent position at the French National Centre for Scientific Research (CNRS)

Location: LOA, Palaiseau, France

Starting date of employment: from november 2019 to january 2020



## **How to apply**

Online recruitment system from the French National Centre for Scientific Research (CNRS)

Online application opening from June 5<sup>th</sup>, 2019 to July 4<sup>th</sup>, 2019.

Website for the application: <https://www.dgdr.cnrs.fr/drhita/concoursita/>

It will be the responsibility of the applicant to ensure that the application is complete in accordance with the instructions described in the CNRS procedure, and that it is submitted before the deadline. The selection of candidates is a two-step process. The first round is made on the basis of the qualifications registered in the application. The second is based on an oral interview.

## **For further information regarding the position**

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