



## **PhD opening at the Applied Optics Laboratory (LOA)**

### **Ecole Polytechnique, France**

The Few-Cycle Optics group at LOA is recruiting a PhD student to build an attosecond laser source based on intense laser-plasma interactions. This research topic is at the heart of LOA's key program to develop the next generation of attosecond light sources for studying electron dynamics in matter on unprecedented timescales. This program has been generously funded by a number of excellence grants from the French National Research Agency (ANR).

The goal of this project is to develop the nonlinear optical tools necessary for characterizing attosecond timescale laser action that occurs when an ultra-short ultra-intense laser pulse interacts with a solid density plasma. The candidate will help develop LOA's experimental attosecond laser-plasma light source driven by a state-of-the-art high-power ultrafast laser system. The project lies at the cutting edge of optics, mechanics and computer interfaced vacuum technology and is suited for candidates who like a technological challenge. Eligible candidates should have an excellent track record in physics or engineering degrees.

The position comes with excellent opportunities for travel in France and abroad to collaborate with other leading research teams in the field. For further information, please contact:

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