Post-doctoral position

High-energy ultrafast lasers for material analysis

A postdoctoral position is available immediately within the Optics and Lasers Department at the CORIA laboratory in Rouen, France. The selected candidate will be involved in the development of high-energy ultrafast lasers. This work will form the keystone of a collaborative project between CIMAP, LOMC and CORIA laboratories and is funded within the LABEX EMC3. This project aims to develop highly-integrated femtosecond laser systems with performances qualified for a large variety of scientific and industrial applications, notably for materials analysis by laser induced breakdown spectroscopy (LIBS). The challenge to be addressed concerns depth profiles measurements of irradiated materials containing light elements trapped in heavier matrices. More precisely, it consists in designing a specific ultrafast laser system enabling quantitative measurements by LIBS technique. Our scientific and technological efforts will focus on studies spanning from pulse shaping mechanisms in ultrafast laser systems to sophisticated laser engineering with the objective to develop an advanced technological platform for material analysis.

The ideal candidate for the postdoctoral position has a PhD in Optics, Physics, or related disciplines and a keen interest in doing high-profile research. Applicants with experience in experimental ultrafast and nonlinear optics will be preferred. Experience with fibre lasers is desirable but not required. The candidate should be both able to work independently as well as in close collaboration with co-workers that may come from a different field. For further information, please contact:

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