



Improving photochromism and thermochromism in the solid state by co-crystallization: an integrated physico-chemical investigation (conTrast).

A one-year of post-doctoral position, with a possibility of extension, is available at the University of Namur in the newly-established Namur Institute of Structured Matter and particularly the Theoretical Chemistry Lab (<http://www.unamur.be/en/sci/chemistry/lct>).

Details of the project. The position is funded by the Concerted Research Action conTrast. The project involves the computation of electronic structure and optical properties of thermochromic and photochromic compounds in the solid state. The candidate will be working in the research group of Prof. Benoît CHAMPAGNE and use computational facilities provided by the HPC consortium of the Fédération Wallonie-Bruxelles (Consortium des Équipements de Calcul Intensif, called CÉCI) including those of the Scientific Computing Platform of our University. The work will be carried out in a multidisciplinary environment, in collaboration with experimentalists (Prof. Johan WOUTERS, UNamur, and Prof. Tom LEYSSENS, UCLouvain) who prepare and characterize solid state thermochromic and photochromic compounds (X-ray diffraction, optical properties, dynamic properties).

Offer. The grant will be around 2500 € per month. The candidate must be in an "international scientific mobility situation" hence being able to benefit from a postdoctoral grant. This grant will be exempted from taxes but subject to the employees social security. To be in an "international mobility situation" the researcher should not have resided or carried out his/her main activity (job, studies...) in Belgium for more than 24 months during the 3 last years. The first hiring period has to start at the latest exactly 6 years after obtaining the academic degree of doctor, after defense of a thesis. Candidates are advised to apply as early as possible. The selection process will start immediately. The contract shall begin in October-December 2017.

Requirements. The candidate should have a PhD in Theoretical Chemistry, solid state physics, or related areas and previous experience, supported by strong records in electronic structure theory. The candidate should additionally be enthusiastic to interact with experimentalists and exhibit good pedagogical skills in this perspective. Experience in computations of excited state properties and dynamics will be a significant advantage as well as in high performance computing and scientific computer programming.

How to apply. Interested candidates should send their curriculum vitae, list of publications, cover letter, and contact references by e-mail (in a single PDF file) to Prof. Benoît CHAMPAGNE, benoit.champagne@unamur.be.