



Post-doc in Computational Materials Discovery at Poitiers U. (France)

A **one year post-doctoral fellowship** is currently available at the Theoretical Chemistry group of E4, IC2MP within the framework of the ANR PRCI France-China **PREDICT_2D_Nanomat** coordinated by Gilles Frapper. This contract could be renewed for another one year.

The project relies on the use of DFT VASP and evolutionary algorithm USPEX to predict and investigate **2D materials**. Our interests center around structural chemistry and the geometrical-electronic control of properties and reactivity.

This international CNRS-NSFC project involves teams of Pr. Artem R. Oganov (Skoltech and MIPT-Moscow Russia and NPU Xi'an, China), USPEX developer, and Pr. K. Su and Q. Zeng (NPU Xi'an, China). Applicant will have to work within this international team. Thus, excellent communication skills in English, both verbal and written, are required.

Desired qualifications: solid background in physics and chemistry and understanding of quantum mechanics with experience in computational material modeling at the atomic scale; comprehensive experience on bonding analysis; experience in using computational tools (elaboration of scripts in bash, python,...) is required and ability for programming is a plus; possess a solid track record of research accomplishments.

Funding: *The net salary should be about 2.4 k€ per month, up to 2.8 depending on experiences.* Partly health insurance (70% in charge of French Social Security), and a social housing support are a plus.

How to apply: Applications should be sent to gilles.frapper@univ-poitiers.fr before **April 15, 2018**, with the subject: "**Post-doc position in Computational Materials Discovery at Poitiers U.**". The application should include:

- a detailed Curriculum Vitae,
- a cover letter describing why you should be considered for this position, answering the following questions: What materials modeling technique(s) do you have expertise in? What materials do you look at? What is your experience with software development (if any)? When might you start?
- transcripts of M.Sc. courses and grades and PhD diploma,
- copies of educational certificates, and
- a list of three professors who have supervised you in M.Sc. and PhD research projects or current employers and who are willing to provide a letter of recommendation.

All documents should be in PDF format and written in English. A short-list of candidates will be made, who will be contacted for an interview over Skype (In CV, Skype address must be included).

The application deadline is 15 april 2018. The selected candidate is expected to start asap and before 1st October 2018 (ideally 1st june 2018).