



**Pre-doctoral research position in
Computational Material Science and Heterogeneous Catalysis
at the Universitat de Barcelona (Barcelona, Spain)**

The “Reactivity of Nanomaterials” group at the Institute of Theoretical and Computational Chemistry (Uni. Barcelona) combines modern computational approaches in a powerful strategy for determining structure and reactivity of advanced materials relevant to energy technologies and heterogeneous catalysis. We are seeking for our team a highly qualified and motivated young scientist to carry out quantum-mechanical computer modelling in a project devoted to the rational design of novel nano-dimensional catalysts for sustainable energy production. The project funded by the European FP7 program involves experimental and theoretical academic and company teams from Czech Republic, France, Germany, Italy and Spain. The modelling will be conducted in close collaboration with the experimental partners.

The position offers:

- Exciting supercomputing research in excellent environment locally at Uni. Barcelona as well as within a large international network
- Work contract from April-May 2013, renewable for up to 3 years
- The opportunity to pursue a doctoral degree in an international group

The ideal candidate will have:

- A Master’s degree (or equivalent) in chemistry, physics or a related discipline
- High motivation and the ability to work effectively with colleagues
- Excellent written and oral communication skills in English
- Very good notes during the University studies
- A strong background in quantum mechanics and computer simulations

Interested? Please send your application (short letter of motivation, CV and contact data of at least two references) by email to *Prof. Konstantin Neyman*:

konstantin.neyman@ub.edu

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<http://www.icrea.cat/Web/ScientificForm.aspx?key=292>