Postdoctoral position

"Centro de Física de Materiales CFM", a joint Center between the UPV/EHU and the CSIC, is currently accepting applications for postdoctoral positions. This is a unique opportunity for highly experienced researchers with a PhD in physics or related fields to carry out a research project joining high-profile research teams.

The position will be funded by the Research Association MPC - Materials Physics Center. It will be associated to one of the research lines at the CFM ("Modelization and Simulation Group" under the supervision of Dr. Daniel Sánchez-Portal).

Interested candidates must send updated CV and contact information to the following email address: mpc@ehu.es. Reference letters are welcome but not indispensable. The particular position(s) to which the candidate is applying should be stated as well.

Next review of applications is scheduled for May 21th 2013. Applications will be evaluated by a Committee designed by the MPC board on the basis of the following criteria (with point weights indicated in parentheses):

- CV of the candidate (60%)
- Adequacy of the candidate's scientific/academic background to the research project (20%)
- Statement of interest and reference letters (10%)
- Others: Diversity in gender, race, nationality, etc. (10%)

Evaluation results will be communicated to the candidates soon after. Positions will only be filled if qualified candidates are found.

The details of the research work are:

Postdoctoral position on "Computational Condensed Matter Physics". The research work will focus on the development and application of new efficient tools to perform GW calculations in large extended systems. The development work will be performed in collaboration with the group of Prof. D. Foerster in Bordeaux University, and will be based on the molecular code already developed within this Bordeaux-MPC collaboration. The application work will focus on the study of organic molecules adsorbed on different substrates, with special attention to TiO_2 (in relation to Dye-Sensitized Solar Cells). The application work will be performed in collaboration with the group of Prof. S. W. Koch at Marburg University, where our ab initio calculations will be used to construct microscopic Hamiltonians to describe the dynamics of electron correlations and excitons. The

candidate should hold a PhD in theoretical or computational physics and must have a background on electronic structure calculations, as well as, high expertise in computational work.