

CFM POST-DOCTORAL POSITIONS

Centro de Física de Materiales CFM, Joint Center between University of the Basque Country UPV/EHU and the Spanish Research Council CSIC, is currently accepting applications for 3 post-doctoral appointments. This is a unique opportunity for highly motivated junior researchers with a recent PhD degree in physics or related fields to join some of the CFM high-profile research teams.

Positions will be funded by the Research Association *MPC - Materials Physics Center* for two years (1+1). Renewal for the second year is subject to performance. The salary will be 32.000€ per year before taxes. Interested candidates please send an updated CV, a brief statement of interest, 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. A letter of acceptance/support signed by the supervisor of the project is required.

Next review of applications is scheduled for June 30th 2015. Applications must be received before this date and will be evaluated by a Committee designed by the CFM direction board on the basis of the following criteria (with point weights indicated in parentheses):

- CV of the candidate (45%)
- Adequacy of the candidate's scientific background to the position to which he/she is applying (45%)
- Reference letters (10%)

Evaluation results will be communicated to the candidates soon after. Positions will only be filled provided that qualified candidates are found. If this is not the case, the deadline for submission of applications will be extended.

The list of positions (only 3 of them will be filled) follows:

nanoDielectric Spectroscopy of Polymers and Soft Matter

Contact person: Gustavo Ariel Schwartz (schwartz@ehu.es)

Reference: PD/2015/06

The objective of the work is to study the local dielectric response of polymers and soft matter at the nano scale. The idea is to use a previously developed experimental setup, based on a combination of an AFM and a lock-in amplifier, to measure and quantify the local dielectric response in several glass forming materials. Different systems, like polymers, polymer blends, nano-particles composites and biological samples will be analysed by means of this new approach. In particular, the work will focus in investigating the nano-particle/polymer interphase and the polymer dynamics in different phases for heterogeneous polymer blends. The main purpose of this project is to continue previous works in order to gain further insight into the nature of the physical mechanisms that govern the polymer/nano-particle as well as the polymer/polymer interactions and its correlation with dynamic-mechanical properties. The dielectric characterization will be complemented with the measurement of the local mechanical behaviour at the nano scale by means of AFM. Only highly motivated candidates with a good background in polymer physics, polymer dynamics and experimental techniques are encouraged to apply for this position. The applicant should hold a Ph.D. in Physics, Chemistry or Materials Science before starting working. Experience in polymer dynamics and/or good knowledge of AFM techniques are strongly recommended. Please, send an updated CV and a letter of motivation to Dr. Gustavo Ariel Schwartz at schwartz@ehu.es in order to get a letter of acceptance to apply for this position.