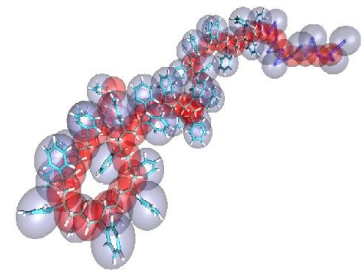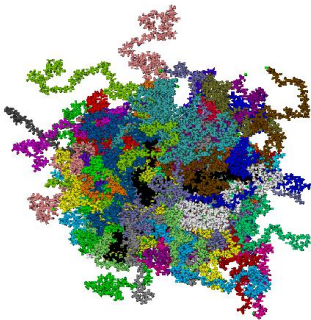# Master's/PhD and Post-doctoral Scholarships

Hierarchical Multi-scale Modeling of Graphene based Polymer Nanocomposites

Two (2) Post-doctoral positions and two (2) Master's/PhD positions are available in our group in the department of Mathematics and Applied Mathematics at the University of Crete and in the Institute of Applied and Computational Mathematics (IACM) at FORTH, in the context of a new research program (Greek ARISTEIA). The positions are for 1-2 years and are available *immediately*; i.e. starting *any time from March 2014*.

The objective of the research is to develop novel *mathematical* and *computational multi-scale modeling approaches* in order to study the structure and the dynamics of molecular systems. The simulation methodologies will be applied in various complex systems, such as polymers and graphene based polymer nanocomposites. The project will be conducted in close interaction with experimental and modeling groups at UOC and FORTH.

The successful candidates should hold a Diploma in Applied Mathematics, Materials Science, Physics, Chemistry or Chemical Engineering, and possibly a Master of Science degree in a related field. For the Post-doctoral positions a PhD in relevant area is further required. He/she should have good background in mathematical modeling, statistical mechanics, as well as highly developed computer programming skills. Interested candidates are encouraged to contact us. Applications, including detailed curriculum vitae and contact information of two references familiar with the candidate's work, should be sent by e-mail to vagelis@tem.uoc.gr.

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