**Organic Chemist for Nanoelectronic**

The Department of Fundamental Research on Condensed Matter (DRFMC) of the Atomic Energy Commission (CEA-Grenoble) is strongly involved in the newly created "Chimtronique" program devoted to the development of new organic and inorganic nanomaterials for the use in future nanoelectronics. With the goal to strengthen the research staff involved in this project a new permanent position has recently been created for a chemist working on the preparation and functionalization of electroactive nano-materials (carbon nanotubes, Si nanowires, semiconducting nanocrystals.). In particular, the research will concern the design and the synthesis of specific molecules for the chemical and electrochemical functionalization of nano-objects. The tailor-made molecules will be prepared with the aim of:

i) tuning the optical and electronic properties of the nano-objects,

ii) facilitate their processing and assembly on different substrates

The candidate will be in charge of the surface modification of the nano-objects and will collaborate with the electrochemists and physicists of the group on the advanced characterization of the functionalized nano particles and on the determination of their physical properties. The functionalized systems will be tested in prototype electronic devices in collaboration with other departments of CEA through the "Chimtronique" program.

The candidate should have a PhD in organic chemistry and at least two years of post-doctoral training. Experience in heterocyclic chemistry and in the synthesis of π-conjugated molecules is a strong advantage. Good knowledge of classical characterization techniques of organic chemistry (NMR, UV-Vis, FTIR spectroscopy.) is required. Some competence in the functionalization of nano-objects and a basic knowledge of molecular electrochemistry and electrochemical functionalization methods are required.

Application containing

- Detailed CV
- List of publications
- Letter of motivation
- Two letters of recommendation
- The name of two persons to contact for informations.

Should obligatory be sent (only by e-mail) to the following persons

- Dr David DJURADO, (Head of the Laboratory)
david.djurado@cea.fr

And

- Dr Renaud DEMADRILLE
renaud.demadrille@cea.fr

The reference of the position announcement should be included in the mail subject. Application deadline: May 6th 2006.