Title: Synthesis and grafting of molecules on nano-objects or nanodevices

A post-doctoral position is available at CEA-Grenoble (www.cea.fr) in the LITEN laboratory for hybrid components (Direction de la Recherche Technologique), in close relationship with CEA optronic department LETI-DOPT.

The subject is part of the CHIMTRONiQUE Program which aims to develop chemistry for future electronic devices. The funding is available thanks to the recently got “Institut Carnot” label of LETI (http://www.cea.fr/Fr/actualites/articles.asp?id=732).

This project focuses on the synthesis and grafting of molecules on surfaces and nano-objects. The goal is to realize molecular based photodiodes.

The candidate will have to realize the synthesis and the chemical grafting of photosensitizers, and to carry out physico-chemical characterizations. The opto-electronic measurements will be done in collaboration with LETI-DOPT.

The candidates should have a strong experience in the field of organic synthesis and coordination chemistry. Experience in chemical grafting and surface characterization is desirable.

The contract is available for 2 years (1 year renewable, Carnot program fundings).
Start date: November/December 2006

The candidates who wish to apply should submit their application letter via e-mail, together with a CV and two letters of recommendation to jean-pierre.simonato@cea.fr

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