

Metamaterials for opto-electronic applications

Description

We have an immediate opening for a postdoctoral researcher in the greater Paris area, France. The postdoc will join a collaborative effort between Université Paris-Sud (UPSud) and Commissariat à l'Énergie Atomique (CEA) that aims at developing a new generation of metamaterials based on lithographed structures and colloidal nanocrystals. Responsibilities include design, cleanroom fabrication and experimental characterization of the fabricated samples with a broad range of techniques available at UPSud and CEA (photoluminescence, STM-electroluminescence measurements, photoemission electron microscopy, and so on).

Profile of applicant

Applicants must have earned a doctoral degree in physics or electrical engineering **within the past two years**, with a proven capacity for world-class research in nano-optics or related field. Experience with colloidal quantum dot processing is strongly preferred, but not required.

Duration

The initial appointment is for one year, but may be extendable for additional years based on available funding. Position is available immediately.

Research labs involved

- Institut d'Electronique Fondamentale, Université Paris-Sud, Rue André Ampère, Bâtiment 220, 91405 Orsay Cedex France.
- Commissariat à l'Énergie Atomique et aux Énergies Renouvelables (CEA IRAMIS), Service de Physique de l'Etat Condensé, 91191 Gif sur Yvette.

Contact

Please send resume to Aloyse DEGIRON (aloyse.degiron@u-psud.fr) and Ludovic DOUILLARD (ludovic.douillard@cea.fr).