

## 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'Électronique 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'État Condensé, 91191 Gif sur Yvette.

### Contact

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