



1-year Postdoctoral fellowship :

Optically and electrically pumped nonlinear optical nano-antennas

This project is focused on the development of nano-scale nonlinear electro-plasmonic devices capable of emitting a broadband radiation in the visible and near-infrared part of the spectrum. The objective of the position is to characterize the photon emission and correlate it with the details of the electronic transport.

The candidate will have a PhD in experimental Physics, Electrical Engineering, or Optics. Expertise in nano-electronics and nanofabrication are strongly recommended. The laboratory operates a dedicated nanofabrication facility equipped with electron-beam and UV lithographies, various evaporation chambers and a reactive ion etching unit. The characterization of the devices will be performed on a confocal microscope retrofitted with tunneling spectroscopy capabilities.

Please send CV, a letter of motivation and contact details for two references at :

Alexandre BOUHELIER (alexandre.bouhelier@u-bourgogne.fr) Tel : 03 80 39 60 22



UNION EUROPEENNE

RÉGION
BOURGOGNE
FRANCHE
COMTÉ

avec le Fonds européen de développement régional (FEDER)