

Spécialité de Master « Optique, Matière, Plasmas »

Stage de recherche (4 mois minimum, à partir de début mars 2011)

Proposition de stage pour l'année 2010-2011 (ne pas dépasser 1 page)

Date de la proposition :

Responsable du stage / internship supervisor:			
Nom / name:	YONG and LUAN	Prénom/ first name :	Ken Tye and Feng
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Nom du Laboratoire / laboratory name: CINTRA			
Code d'identification :	UMI 3288	Organisme :	CNRS/Nayang Technological University /Thalès
Site Internet / web site:	http://cintra.ntu.edu.sg		
Lieu du stage / internship place:	Singapour		

Titre du stage / internship title: Development of surface plasmon resonance sensor
Résumé / summary To date, the surface plasmon resonance (SPR) sensor technology has received great attention due to their wide applications ranging from biomolecules detection and biomolecules interaction studies. In most SPR systems, the information of the biomolecular interactions is obtained from measurements of the angular or the spectral characteristics of light reflected under SPR. In this project, the students are required to develop SPR sensor where the SPR phase is measured by using of a photoelastic modulator (PEM) to generate a weak retardation modulation. The developed SPR sensing system will be able to detect a very small change of refractive index over a wide dynamic range. Minimum duration of internship: 5 months Candidates are kindly advised to send by email to dbaillargeat@ntu.edu.sg , with mail subject "CINTRA_2011_Internship" followed by the candidate's full name, the following documents (in English) - CV (including education & professional history) - Letter of Motivation including your possible contribution to the project
Toutes les rubriques ci-dessous doivent obligatoirement être remplies

Ce stage pourra-t-il se prolonger en thèse ? Possibility of a PhD ? : oui			
Si oui, financement de thèse envisagé/ financial support for the PhD:			
Lasers et matière	X	Lumière, Matière : Mesures Extrêmes	X
Optique de la science à la technologie	X	Physique des plasmas	

Fiche à transmettre (fichier pdf **obligatoirement**) sur le site <http://stages.master-omp.fr>