



Post-Doctoral Position

PD0004: Semiconductor junctions modelling for Reconfigurable and tunable RF antennas

Keywords	Semiconductors, Comsol, DC, HFSS, microwave, modelling, Silvaco.
Laboratory	Lab-STICC (http://www.lab-sticc.fr): The candidate will be integrated into an internationally-recognized dynamic research group (gathering more than 10 PhD students) focusing on microwave components and systems providing original solutions in various domains such as telecommunications, defense and health. Joining us is also a possibility to have regular contact with industry-related research through the Thales-Lab-STICC joint lab. Facilities include highly specialized equipment spanning from simulations (HFSS, ADS, CST...) to technological realization (SLA and FDM Printers...) and measurement (VNA up to 110GHz).
Subject	This post-doctoral proposal concerns an Fr/UK project. The main objective of the project is to model different 3D junctions, such as metal-semiconductor junction, N+PP+ junction, MOS junction allowing a discrete or a continuous tuning. The final model has to mix semiconductor and electromagnetism by the use of Comsol multiphysics or mixing SILVACO 3D and HFSS to take into account the charge mobility of the semiconductor into the RF design simulation.
Candidate Profile	PhD holder with knowledge in Semiconductors, RF and Electronics
Location	University of Brest. (http://www.univ-brest.fr)
Duration	1 year renewable contract
Starting Date	To be discussed
How to apply ?	Send CV and Motivation Letter before 15 April 2022 by e-mail to Cédric Quendo (cedric.quendo@univ-brest.fr) using the reference PD0004 in the subject of the e-mail.