PhD Position
Ph0003: Design of innovative microwave sensors in complex medium optimized by machne learning

Keywords	Microwaves, Sensors, Machine learning.
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	The objective of this study is to develop statistical approaches based on Artificial Intelligence in the context of the development of RF sensors. Thus, in collaboration with the Brest CHRU analysis laboratory, responses from RF sensors or EM probes confronted with biological samples (plasma, serum or whole blood) will be collected and linked to the results of the biological analyses. These correlations will then be analyzed and reused to refine and optimize the RF sensors.
Candidate Profile	Master Degree holder (or equivalent) with knowledge in Microwaves, RF and Electronics
Location	University of Brest. (http://www.univ-brest.fr)
Duration	3 years 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 Ph0003 in the subject of the e-mail.