



## PhD Position

### Ph0004: Direction of Arrival (DOA) estimation techniques for 3-Dimensional phased arrays

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<b>Keywords</b>	Microwaves, antennas, Direction of Arrival, 3D arrays, Radar.
<b>Laboratory</b>	Lab-STICC ( <a href="http://www.lab-sticc.fr">http://www.lab-sticc.fr</a> ): 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).
<b>Subject</b>	The objective of this research is to develop low-computational DOA estimation techniques for 3D conformal arrays of directive elements. A validation of the signal model with experimental signals should be performed. Finally, the performance of the proposed techniques should be assessed with a set of experimental trials using a unique bespoke 3D active phased array prototype. half time at University of Cranfield university and has-time at University of Brest.
<b>Candidate Profile</b>	Master Degree holder (or equivalent) with knowledge in Microwaves, RF and Electronics
<b>Location</b>	University of Brest. ( <a href="http://www.univ-brest.fr">http://www.univ-brest.fr</a> )
<b>Duration</b>	3 years contract
<b>Starting Date</b>	To be discussed
<b>How to apply ?</b>	Send CV and Motivation Letter before 15 April 2022 by e-mail to Cédric Quendo ( <a href="mailto:cedric.quendo@univ-brest.fr">cedric.quendo@univ-brest.fr</a> ) using the reference Ph0004 in the subject of the e-mail.