



## PhD Position

### Ph0002: Design of innovative microwave rectennas using semiconductor distributed doped area

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<b>Keywords</b>	Microwaves, antennas, semiconductor junctions, semiconductor distributed doped area.
<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 study is to develop rectenna on semiconductor. Thanks to this approach allowing to co-design semiconductor junction as rectifier and the radiating element, optimized ultra-wide band rectennas will be designed. The candidate will study and model several junctions and several topologies to find the best trade-off to insure the best efficient on an ultra wide frequency range.
<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 Ph0002 in the subject of the e-mail.