



## Post-Doctoral Position

### PD0003: Multiphysics modelling and simulation for 3D-printed microwave design

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<b>Keywords</b>	Multiphysics, microwave filters, thermic, mechanics, 3D-printing
<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 main objective of the project is to design microwave devices based on 3D-printing technology. In this context, two sides of multiphysics will be analysed in the project. The first one concerns the system reliability with the classical tests (thermal stress, etc.). The second one, more upstream research, is related to the analysis of thermal and mechanical effects induced by the microwave signal on the devices under study (coupling between electromagnetism, thermic and mechanics).
<b>Candidate Profile</b>	PhD holder with knowledge in Multiphysics, 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>	1 year renewable 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 PD0003 in the subject of the e-mail.