



Engineering Research and Development

MVG Paris

Microwave Imaging Technology

Microwave Vision Group, a leader in the antenna measurement instrumentation domain, has recently decided to reinforce and move forward with its know-how and technology in the Electromagnetic Imaging Department.

The group employs more than 250 engineers operating in 12 subsidiaries located worldwide and presents more than €45M in revenue with equal repartition between Asia, Europe and America.

While part of the group has engaged particular efforts to maintain growth in its organic market, other part of the group have the mission to develop new applications to extend the boundaries of electromagnetic measurement, especially in imaging.

Microwave Vision Group is currently developing several products in the field of imaging, dedicated to the healthcare market and to security enforcement. This Research and Development position has been created with the objective of developing all suitable algorithms to compute tomographic images of the electromagnetic properties of inhomogeneous media, including human tissues. The engineer will take part in the signal processing and image reconstruction of the analyzed medium from the microwave signal measured by the different probes of the equipment. The main challenge consists in computing images useful to the end-user for decision making, from data resulting from the propagation in an inhomogeneous medium.

An experience in the field of medical imaging (preferably microwave or ultrasound), seismic imaging, or non-destructive electromagnetic testing will be valued for this position. Additionally, knowledge and proficiency in state-of-the-art iterative optimization algorithms will be appreciated.

These new products present important scientific and technical challenges. Some of them have been solved totally or partially and there is still important research to be done to define the core of the products.

Our group is looking for a R&D engineer who will add to the experimental, theoretical and simulation know how of the imaging team. He will integrate a team of 5 researchers, including an image processing engineer and two antenna design engineers. This engineer will enjoy operating transversally with the rest of the group, taking advantage of all contributions from the other subsidiaries when necessary. He will present technical and human qualities compatible with the methodology of high-speed product development. In particular, he will interact with the general management and the sales and marketing team during all phases of research and development up to the industrialization phase. Based in the Paris region, the engineer will enjoy working with a team of international profiles.