



# Job Offer

**R&D Microwave Imaging Engineer**

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## MVG Industries Villebon (91)

Microwave Vision, the world leader in the antenna measurement instrumentation domain and a fast-growing company with cutting-edge technology, has recently started a series of new activities in the Research and Development Department at Villebon, France (Paris region), in order to reinforce its know-how and its technology in the domain of antenna measurements and microwave imaging.

The group, with headquarters in Paris, employs 340 people operating in 12 subsidiaries located worldwide and presents more than 60M\$ in revenue with equal repartitions between Asia, Europe and America. The company has strong financial backing and has been investing steadily into Research and Development.

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

MVG Industries, a company of the group Microwave Vision, is currently developing products in the field of imaging, dedicated to the healthcare market and to civil security. In this context, MVG Industries is looking for an Imaging Engineer who will reinforce the R&D team. This R&D Engineer will be involved in innovative projects especially in the medical imaging and diagnostics domain.

This position has been created with the objective of developing all suitable algorithms to detect and accurately localize target contrasting elements ('anomalies') in inhomogeneous, lossy and dispersive propagation media, like the biological 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 interpretable 'target' images, useful to the end-user for decision making.

The proposed position requires strong knowledge and proficiency in state-of-the-art Ultra-Wideband (UWB) short-range radar imaging methods and/or biomedical image and signal processing algorithms with an emphasis on blind source separation and automated pattern classification techniques. Strong knowledge in programming tools (MATLAB) is also necessary. An experience in the field of electromagnetic propagation, medical imaging (MRI, ultrasound), radar detection theory, seismic imaging, or non-destructive electromagnetic testing will be valued for this position. Knowledge in antennas and electromagnetic simulation (CST MWS, ANSYS HFSS) will be also appreciated.

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 present technical and human qualities compatible with the methodology of MVG product development and the teamwork. Based in Paris region (Villebon), he will enjoy working with a team of international profiles with varied technical background and complementary skills, from whom he will benefit their experience and with whom he will share their expertise.

Position located at Villebon sur Yvette (91)

Type of contract: CDI

Experience: PhD or Engineering degree with 2-5 years of working experience

Salary: depending on experience

Please, send your application to:

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