



# **/** Job offer – R&D

**Signal Processing Engineer**

# Job offer – R&D: Signal Processing Engineer

## MVG Industries, Villebon sur Yvette, France

Microwave Vision, the leading international group in microwave instrumentation, which has been growing steadily for many years, has undertaken a series of actions in its Research and Development department in Villebon sur Yvette over the last three years in order to reinforce its know-how and its technology in the field of microwave imaging.

The group, headquartered in Paris, employs 350 people operating from 12 subsidiaries worldwide and provides more than € 70 million in sales, equitably distributed among Asia, the United States and Europe. The company has a solid financial basis and invests heavily in research and development.

While part of the group keeps making effort to maintain steady and significant growth in its traditional markets, the other part of the group's mission is to develop new applications using the measurement of electromagnetic waves to address new markets.

MVG Industries, a Microwave Vision group company, is currently developing a medical scanner based on the principle of microwave imaging and, in this context, is looking for a R&D engineer experienced in signal analysis and processing, with emphasis on stochastic filtering methods for weak signal extraction from noise.

An experience in the fields of electromagnetic wave propagation, short-range radar imaging, radar detection theory or medical imaging will be highly appreciated for this position. Solid knowledge, and preferably prior experience, on blind source separation algorithms, pattern recognition techniques and classification methods will be a plus.

The engineer will be involved in the development of novel algorithms dedicated to the processing of clinical data, collected during the on-going pilot clinical trial of a biological radar imaging prototype device developed by MVG Industries. A rigorous yet analytic attitude and a creative, persistent mind is necessary to successfully cope with the level of variability inherent in the biological data and the high-quality standards in the medical device development sector. Any prior experience with clinical data processing and a special interest in medical imaging and diagnosis will be very important for this position.

The engineer will evolve in the R&D department by performing both the development of data processing algorithms and their transfer to the IT department. Proficiency in Matlab is a prerequisite for the proposed position. Good programming skills and experience in C++ and C# will be a definite plus.

Engineer or PhD (electrical/telecommunications engineering, biomedical engineering, computer science, applied mathematics), you have strong technical skills and good synthesis capacities. You are interested in the medical field and you are force of proposal, with a voluntary attitude and excellent interpersonal skills. The mastery of the English language is essential (written and spoken).

Located in the Paris area (Villebon sur Yvette), you will enjoy working with a team of international profiles with technical knowledge and complementary skills that you can benefit from and with whom you can fully interact.

Position located in Villebon sur Yvette, France

Type of contract: CDI

## Job Offer / MVG Industries, Villebon sur Yvette, France

Education: PhD or Engineer

Working experience: 2-3 years minimum

Salary: depending on your profile and experience

Please, send your application to:

Karine Barriant, Director of Human Resources

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