



Materials scientist

Who we are

HYMAG'IN develops and industrialize the production of ultrafine, soft magnetic powders of iron oxides and ferrites, for high-end applications in aeronautics, mobility and telecoms.

Thanks to its unique patented hydrothermal technology, a considerable know-how and many years' experience, HYMAG'IN is able to work hand-in-hand with its customer to offer them efficient and sustainable solutions.

In order to strengthen its R&D team, HYMAG'IN seeks to hire a R&D scientist with a recently obtained PhD level in solid-state sciences.

Do you wish to participate in building the nano-ferrite European leader? Apply now!

Responsibilities

Within our R&D team, you will benefit from a dynamic and challenging work environment. As a research engineer, your main tasks will concern:

- Fine understanding of physico-chemical properties of the powders produced by the HYMAG'IN process, through proposing, testing and deploying several advanced characterization techniques: X-ray diffraction, electronic microscopy, spectroscopy etc.
- Controlling interactions between physico-chemical and electromagnetic properties of powders in several application contexts : static properties (saturation magnetization, remanence, coercivity, initial permeability etc.) and frequency behaviour (complex permittivity and permability, losses etc.) on the whole spectrum up to a few hundreds GHz.



In close collaboration with engineers and technicians working on materials synthesis, your work should lead you to infer new ways for improving the whole chain *synthesis* → *physico-chemical properties* → *electromagnetic properties*, thus enabling improved response to the client's need.

You will take part to the day-to-day team work, by contributing to data and results analysis, summarizing and communication. You will also be in contact with our clients to help translating their need into technical specifications and to estimate the feasibility of proof of concept.

Your profile

- You passed a PhD level recently, in a domain of the solid-state sciences; you are a specialist of the physico-chemistry of ceramic powders and/or their applications. Any post-doc experience posteriori to your PhD will be favorably considered;
- You have an interest for materials synthesis. Any experience in this domain (conventional ceramic process and/or soft chemistry) is beneficial;
- You have demonstrated strong analytical and summarizing skills;
- You are attracted by the ecosystem of HYMAG'IN: technological innovation, industry, BtoB.
- You know how to find and learn new knowledge in an autonomous way and to take advantage of it for concrete problem solving;
- You feel comfortable bringing new ideas to the table.

Location:

Grenoble, France

Contract: Permanent

Starting:

Asap

Contact: philippe.le-bouteiller@hymagin.com

