

Open position for a predoctoral researcher

One PhD fellowship is offered to talented and enthusiastic individuals with a **background in physics, nanotechnology or materials science**. The selected candidate will work in the context of the 5-year ERC project *Ferrites-by-design for Millimetre wave and Terahertz Technologies (FeMiT)*, supervised by Dr. Martí Gich, within the Nanoparticles & Nanocomposites group (<https://departments.icmab.es/nn/>) at the Institute of Materials Science of Barcelona (ICMAB-CSIC; <http://icmab.es/>).

FeMiT is devoted to developing a new family of magnetic oxides to provide innovative non-reciprocal devices for the upcoming generations of wireless communications. The PhD project will be focused on the synthesis of materials, exploring the chemical substitutions of Fe^{3+} in $\epsilon\text{-Fe}_2\text{O}_3$ for controlling magnetic anisotropy and magnetostriction. The successful candidate will join an interdisciplinary team of 5 people in which she/he will be in charge of the preparation and characterization of epitaxial thin films for developing proof-of-concept devices.

Eligibility: Candidates must hold university degrees granting access to PhD studies obtained not earlier than 2017 or completing their MSc or equivalent degree not later than September 2019.

Fellowship conditions: Start date in 2019; Gross salary € 21.000-25.300 p.a. depending on the candidate's experience and value; 4 year contract; no teaching duties.

Application procedure: Applicants are required to send, merged in a single pdf file, the following documents:

- brief cover letter describing the motivation to apply for the position and a statement of research background
- CV
- Official transcripts of academic records.

to mgich@icmab.es until 8th of June 2019

Before 15th of June 2019, shortlisted candidates will be invited to an online interview and asked to provide the contact details of academics or employers for references.

Inquiries about further project or contract details are welcome (mgich@icmab.es)