

PhD candidate for Disruptive Routes to Enhanced Advanced Material Functionality
(DreamFun) (PID2023-152225NB-I00)

We have an open position for a PhD candidate. The hired person will receive a multidisciplinary training with a focus on thin-film device architectures. This will include the epitaxial growth of complex oxides, the analysis and understanding of x-ray diffraction, atomic resolution electron microscopy, the preparation of devices using photolithography and the measurement of dielectric and photoresponsive properties, including nanoscale characterization of the photoresponse. The PhD candidate will also collaborate jointly with the PhDs of the team. Such a stimulating environment will provide a solid scientific broad background, rather uncommon in the current highly-specialized PhDs programs. The scientific education will be framed within the PhD program of “Ciencia de Materiales” coordinated by the Physics, Chemistry and Geology departments at Autonomous University of Barcelona (UAB) and complemented with participation to appropriate schools (such as ISOE “International School of Oxide Electronics”, organized every 2 years in Cargèse, Corsica). Regular presentations at weekly group’s meeting and international conferences shall provide adequate training.

More detailed information is available at <https://tinyurl.com/yymfkndh>

Requirements:

- Master in Physics, Materials Science or Nanoscience and Nanotechnology is mandatory.

What we Offer:

- The PhD contract will have a duration of 4 years, with mid-January 2025 as earliest starting date.
- Salary range follows the guidelines of the PhD fellowships offered by the Ministry (formerly named FPI).

How to apply:

Please send your CV with a brief motivation letter to Gervasi Herranz
(gherranz@icmab.es)

What ICMAB is and why working with us:

ICMAB – CSIC is a multidisciplinary global reference centre for the cutting-edge research of functional materials for electronics, energy and health which fosters knowledge transfer and it is characterized by its internationalization and its education, inclusion and diversity policies. ICMAB-CSIC is committed to know-how transfer to productive sectors as well as to participate in educational and outreach activities. Since 2016, ICMAB -CSIC has been awarded for three consecutive periods with the Severo Ochoa Centre of Excellence distinction.

ICMAB-CSIC, with over 250 members from 47 nationalities, is a more than three decades old research institute located at the Universitat Autònoma de Barcelona (UAB) campus, surrounded by other research and technological centres and with access to many state-of-the-



art equipment and scientific facilities. Moreover, ICMAB-CSIC has its own scientific services equipped with the newest scientific instrumentation and with highly specialised technical staff available to the scientific community.

ICMAB-CSIC stands out for its great training activity at the doctoral level. Training on technical, scientific and transversal skills are offered to ICMAB-CSIC personnel. Moreover, ICMAB-CSIC has coordinated 2 Marie Skłodowska-Curie COFUND doctoral training programs on advanced functional materials: DOCFAM (2017-2022) and DOCFAM+ (2023-2028). In total, 48 doctoral students have been trained (18 at the at the ICMAB).