



## **Job Description**

### **Magnetic / Superconducting Materials for Spintronics**

#### **Position description**

We are seeking for a highly motivated and skilled researcher to join our dynamic institution in the field of Magnetic / superconducting nanomaterials. The ideal candidate should have proven ability to secure funding and conduct independent research on the synthesis and study of advanced spintronic nanostructures and nanoarrays. The candidate should have proven experience in the synthesis of thin films by physical vapor deposition methods such as magnetron sputtering, the preferred synthesis technique, at both the research and industrial level. Knowledge of methods for characterizing the crystal structure and microstructure of materials, as well as the morphology of nanostructures and nanoarrangements, is necessary, while experience in magnetostatic and magnetoelectric characterization of nanostructures and nanoarrangements, both at room temperature and low temperatures, will also be taken into account. The inherent multidisciplinary character of the field of spintronics opens up the possibility of collaborations within the INN, with groups that study nanomaterials, nanostructures and nanoarrangements.

Consideration will be given to researchers with experience in leading research institutions abroad, with a significant number of publications as first and corresponding author, and who have clearly demonstrated the ability to attract and manage competitive grants.

**Keywords:** magnetic, antiferromagnetic, ferromagnetic, superconducting nanostructures, spintronics

**Level of Position:** Assistant Professor or Research (C level researcher). (In exceptional cases of candidates B level (Associate) may be discussed before opening the position).