

POST DOC EXPERT IN DFT AND AB-INITIO CALCULATIONS IN MAGNETIC MATERIALS

ICCRAM, The International Research Center of Research in Critical Raw Materials for advanced industrial technologies within University of Burgos is looking for international candidates to work in high-level projects (EU-H2020, Industrial projects).

1) Description:

ICCRAM is a new Excellence International Center hosted at the University of Burgos which develops activities in the following areas: Industrial Technology, Materials Science, Nanosafety, Materials Design, Efficiency Management, Energy efficiency, Eco-innovation and Critical Raw Materials substitution. ICCRAM is participating presently in 8 EU initiatives, networks and projects.

In this call, ICCRAM is focusing its attention on materials by design, genome materials initiatives and simulation activities. Particularly high-level DFT and ab-initio calculations expertise.

Knowledge in other related areas like Integrated computational engineering, Applied design of new materials and Multiscale modelling of new nanostructured materials with applications in engineering, will be a plus.

ICCRAM is seeking for applicants with significant accomplishments in any area of computational materials science and engineering and who are committed to excellence in research in a multidisciplinary environment, with exceptional communication and interpersonal skills.

2) Requirements:

The applicant should:

- Hold a PhD in any of the following disciplines (or related): Mechanical Engineering, Materials Science, Physics or Chemistry.
- Have an excellent level and record of publications on **DFT and ab-initio calculations**. **Particular expertise in magnetic materials will be highly valuable.**
- Experience in molecular/multiscale modelling of materials (FEM, MD, DFT, kMC or similar), and computer programming skills will be also considered. Experience with VASP is a plus.
- Previous experience of participation in EU-projects, with deliverables responsibility will be taken into account.

3) Description of the position:

- The fellowship will be for a period of two years.
- Salary: to be fixed depending on the experience of the candidate. Range 30.000-40.000€ gross/year.
- Further career plan will be discussed after the 2 years.

4) The application must include:

- Application letter including a statement of interests
 - CV including details of research experience and list of publications
- Application should be send to director.iccram@ubu.es and eu-projects.iccram@ubu.es