

Senior position in Life Cycle Sustainability Assessment and Project Management.

University of Burgos, 09001, (Burgos, Spain), 37,5 hours per week

International Research Center in Critical Raw Materials for Advanced Industrial Technologies (ICCRAM)

ABOUT UNIVERSITY OF BURGOS:

ICCRAM (International Research Center in CRMs for Advanced Industrial Technologies), is an **International Excellence Research Center** located at the University of Burgos facilities, which is developing activities in the following areas: Biophysics, Biotechnology, Industrial Technology, Materials Science, Nanosafety, Materials design, Nanotechnology, Resource management efficiency, Eco-innovation and Substitution of critical raw materials. ICCRAM is a major partner in international organizations, with a deep expertise in EU-funded research and innovation projects, having participated in 20 H2020 Projects since 2015. ICCRAM – Environment – Sustainability Research Group (ICCRAM-Ma-Sos) is focused on Nanotechnology and toxicology, Biotechnology and Sustainability.

Job description

The Sustainability Research Line is part of ICCRAM-Ma-Sos. ICCRAM is participating in different projects evaluating the sustainable aspects of innovative and novel materials and production processes. The analyses are intended to optimize the materials design, as well as the production processes, use and end of life in terms of sustainability, coming to an eco-design approach to be integrated into the market strategy.

For the period of one year, the candidate will be involved in the evaluation of LCA and LCC of the production of different types of materials and processes, as well as in the study of the integration of Sustainability by Design concept into Safe by Design strategies. The candidate will be participating in different European Projects analyzing the value chain of innovative processes and materials production. In addition, LCC activities are included as well as social-LCA.

The selected candidate will be linked to the sustainability area of ICCRAM. The research will be executed in collaboration with different European institutions and companies, as part of different project consortiums.

In addition to scientific independence, it is desirable that the candidate has management skills, supporting project management activities related with H2020 European Projects. Also, the candidate will provide support in proposals writing, in the field of LCA.

Specific tasks

- Definition of the priorities and time schedule for the LCA / LCC for the different materials and methods required in the different on-going EU Projects
- Communication with partners for data inventory and environmental strategy in the different projects specific products (Waste Cooking Oil refinement processes, nanocrystalline alloys, graphene, lightweight materials, biobased materials, etc.)
- Determination of LCA / LCC scope and identification of environmental performance of different products and industries
- Evaluation of the environmental and economic performance through LCA and LCC approaches of scaling-up strategies
- Definition of strategies for scaling-up and process optimization thought the environmental and economic perspective, following the eco-design perspective
- Calculation of Characterization Factors
- Project Management support in EU Projects

- Report of the activities, participation and presentation of the work developed in Project Meetings
- Proposal writing support

Requirements

- MSc Degree in Industrial/Mechanical/Materials Engineering, Chemistry Engineering, Chemistry, Environmental Science or related disciplines
- PhD in the mentioned disciplines will be valuable
- At least Five years of experience in the field of sustainability assessment, process optimization, metallic materials and/or nanomaterials
- Skills in LCA software- GABI or SIMAPRO
- Experience in participation in European Projects, including management activities.
- Great communicative (both written and spoken) skills in English (at least C1 level).
- Proven international professional expertise and excellent collaborative skills
- Able to work independently with little supervision
- Availability and willingness to travel abroad for project meetings and research secondments
- Proficiency in MS Office. Complementary software will be valuable

We offer:

- A **one-year senior position** which is available at the **University of Burgos-ICCRAM, with extension** possibilities linked to the funding and projects' availability
- **Salary:** The offered salary will depend on qualifications and work experience of the candidate

How to apply?

You can either send your **CV, academic records** and **motivation letter** to Sonia Martel (smartel@ubu.es) and Dr. Rocío Barros (rbarros@ubu.es)

The **deadline** to receive the applications is **15/04/2020**.