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Area: Advanced Materials for Energy Applications

Head of the Area: Prof. Joan Ramon Morante

Group: Energy Storage, Harvesting and Catalysis

Head of Group: Prof. Joan Ramon Morante

Position: R2 consolidated researcher. Position in synthetic fuels

The Energy Storage, harvesting and catalysis group at the Advanced Materials for Energy Area of IREC, announces a permanent position for an R2 consolidated researcher available for a highly motivated candidate to work in the field of synthetic fuel production.

We are looking for a candidate to cover activities in chemical energy storage and CO₂ valorization. Therefore, candidate with expertise and skills on several of the following activities are within the scope of the position:

- Developing materials, components and systems based on thermo-conversion processes. Expertise and skills on heterogeneous catalyst will be welcome, in particular, on CO₂ or CO hydrogenation to gaseous or liquid products.
- Developing strategies for upscaling innovative reactor technologies and pilot plant with skills on simulation tools both at process level and physico-chemical model (ASPEN, COMSOL, ANSYS,...)
- Conducting techno-economical assessments to evaluate feasible scenarios for synthetic fuel projects.
- Leading and Writing projects and technical reports.
- Promoting and participating in the scientific and technological outputs of the group.

Proved experience in the following aspects will be positively evaluated:

- Mentoring and team leading (phD thesis, master/bachelor thesis)
- Participation or leading technology transfer activities and innovation actions
- Funding searching - Internationalization
- Involvement in industrial projects, demonstrators and pilot plants.

Proposed Jury:

Presidency	Titular	Prof. Juan Ramon Morante Lleontart
Vocal 1	Titular	Prof. Alejandro Perez Rodriguez
Vocal 2	Titular	Dra. Teresa Andreu Arbella (UB)

