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Ref. 44/2022

Code:

Project: INVESTIGO

Area: Advanced Materials for Energy

Area leader: Prof. Joan Ramon Morante

Group: Energy Storage, Harvesting and Catalysis

Group leader: Prof. Joan Ramon Morante

First Stage Researcher in plasma-catalysis hydrogen production (R.1.6)

IREC's Energy Storage and Catalysis Group offers a position as a research technician in hydrogen production using plasma catalytic reactor technology.

Tasks

Research on green hydrogen production from a renewable biogas stream. The technology to be used will be an electrified reactor with plasma technology. The candidate will be responsible for performing the experiments in the laboratory. Specifically, it will prepare advanced materials (catalysts) and evaluate their hydrogen generation performance in a plasma reactor. It will analyze the results and modify both the formulation of the material and the operating conditions to improve the efficiency of the innovative biogas reforming process.

General requirements

- Academic degree in young people between 16-29 years old
- Registered as job seekers in the public employment service.
- Not having worked at IREC in the last 6 months prior to the contract

Selection criteria

- Official master's degree (Master's in Renewable Energies, Master's in Chemical Engineering, Master's in Environmental Engineering) with an outstanding academic qualification record. Candidates who are in the final phase of the official master's degree or equivalent may be taken into account.
- Academic background appropriate to the position (Chemical Engineering, Materials Engineering or Science, Chemistry or Physics)
- Experience in experimental studies (TFG, TFM, practices) related to the synthesis of materials, chemical reaction, catalysis and/or plasma technologies.
- Advanced level of English

- Knowledge of Catalan and Spanish.
- Prior participation in research projects related to the subject.
- Aimed at solving a problem related to IREC's R+D+i activity.
- Willingness to extend their professional training in the field by completing a doctoral thesis based on research Investigate the production of hydrogen by plasma-catalysis from a biogas stream (Engineering and Applied Sciences)

Contract duration

24 months

Professional Category

First Stage Researcher (R.1.6)

Incorporation

From September 2022, to be agreed with the selected candidate.

Application

Applicants must send a detailed Curriculum Vitae and a motivation letter by email directly to irecjobs@irec.cat (with copy to Dr. Jordi Guilera, jguilera@irec.cat) indicating "**Ref.44/2022 INVESTIGO** Researcher in hydrogen production by plasma-catalysis" before July 10, 2022.