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Code:

Project: VAUTOSIN

Area: Advanced Materials for Energy Area leader: Prof. Joan Ramon Morante

Group: Energy Storage, Harvesting and Catalysis

Group leader: Prof. Joan Ramon Morante

Project Engineer in catalytic reactor prototype development (R.1.3)

IREC's Energy Storage and Catalysis Group offers a position as a Project Engineer for validation of autothermal reactors for the conversion of biogas to synthetic natural gas, in the context of an industrial project (VAUTOSIN).

Tasks

The project engineer will be the responsible for design, implementation, experimentation and validation of a prototype reactor in a real environment. The prototype consists on a thermocatalytic multi-channel reactor. In this aspect, the tasks include:

- Design, manufacture, assembly and integration of the different parts of the prototype in the biogas plant.
- Experimentation of the prototypes in the real environment (biogas plant)
- Incorporate technological improvements provided from the experimentation as well as the details related to the operating costs
- Report and discuss the experimentation results for the preparation of an exploitation plan to bring the technology to market

Essential

- Official master's degree with an outstanding academic qualification record. Candidates who are in the final phase of the official master's degree or equivalent will be taken into account.
- Academic background appropriate to the position (Renewable Energies, Chemical Engineering, Mechanical Engineering, Product Engineering, Manufacturing Processes, Industrial Engineering, Product Development Design or related)
- Availability to travel to the demo site for protoype validation (20-30 km)

Advantageous

- Interested in bringing laboratory technologies to market through a new company, with high interest to work in the near future in the industrial sector
- Previous experience in experimental studies (BSc, MSc, practices) related to catalysis, chemical reaction or reactor prototyping
- Advanced level of English, knowledge of Catalan and Spanish.



- Aimed at solving a problem related to IREC's R+D+i activity.
- Proficiency in technical drawing (AutoCAD, Inventor, Solidworks or related)
- Experience in graphical programming environmebnt to develop automated research and testing systems (e.g. LabVIEW)

Contract duration

18 months

Professional Category

Project engineer (R.1.3)

Incorporation

Immediately or by mutual agreement with the 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 "Project Engineer Vautosin"

Deadline for applications: 15/07/2022