



Open PhD position on new biotechnologies for carbon dioxide conversion at LEQUIA research group of the University of Girona (Catalonia, Spain)

We are seeking candidates to conduct a PhD on microbial technologies for carbon dioxide conversion. Place of work: Laboratory of Chemical and Environmental Engineering of the University of Girona - LEQUIA (Catalonia, Spain). Envisaged date of start: January 2023. Contract: The selected candidate will apply for a 4-years grant from the Spanish National Research Agency AEI (“Ayudas Predoctorales para la Formación de Doctores-FPI”) linked to the funded research project “PANGEA”. The grant covers academic fees and research stays in other institutions. Supervisor: Dr Sebastià Puig.

Requirements

- Hold a Bachelor’s Degree in chemical/environmental engineering, chemistry, environmental sciences, biotechnology, or equivalent.
- Have passed at least 60 ECTS of the Master’s Studies required to enrol in a doctorate program in the University of Girona.
- Have a good academic record.
- Be fluent in English.

Who we are

LEQUIA (the Laboratory of Chemical and Environmental Engineering) is a research group of the University of Girona (Catalonia, Spain) devoted to the development of eco-innovative environmental solutions. LEQUIA projects are multidisciplinary and involve environmental scientists, chemists, biologists, engineers and social scientists. Our current research lines are 1) innovative bioprocesses for treatment, resource recovery and synthesis of new products, 2) physicochemical advanced processes for treatment and/or reuse of liquid and gas side streams, and 3) planning, control and evaluation of complex environmental systems.

Research project

The PhD is linked to PANGEA project, funded by the Spanish National Research Agency. PANGEA will study new bioelectrochemical systems for the bio-electro conversion of CO₂ into sustainable products such as methane or ethanol plus acetic acid. The project will involve the design, operation and control of pilot plants for microbial electrosynthesis.

Applications

Applicants should send the following documentation to **sebastia.puig@udg.edu** not later than 21st October 2022:

- A motivation letter.
- A CV with the average grade of Bachelor and Master Studies. For candidates who obtained their Bachelor/Master degrees outside Spain, the Spanish equivalent grade of their academic record must be provided according to the [Spanish Ministry of Education and Science criteria](#)
- A letter of recommendation (optional)

What we offer

- Work in a multidisciplinary research group with a recognised trajectory in the environmental/chemical engineering field.
- The necessary equipment and facilities to carry out your research work.
- Intensive contacts with fellow researchers and industrial organisations in Spain and across Europe.
- Work in a research-funded project that addresses global environmental challenges, such as global change, renewable energies or resource depletion.
- Support and guidance to develop your research career.

For further information on LEQUIA research, visit our website: <http://lequia.udg.cat>