



PERSONA CIÈNCIA EMPRESA
UNIVERSITAT RAMON LLULL

JOB OFFER

PhD Student Position (REGiREU)

CHARACTERISTICS OF THE JOB

- Job location: IQS – Institut Químic de Sarrià, Barcelona, Spain
- Research group: Group of Engineering and Simulation of Environmental Processes (GESPA)
- Expected start date: Sep 2018
- Temporal Position: The position is for 36 months.
- Gross salary package: PhD Scholarship (full time)

JOB PURPOSE / PROJECT DESCRIPTION

Project: REGiREU “Research in technologies of water regeneration and risk management for water reuse” is a Ris3Cat project (COMRDI16-1-0062) with a duration of 3 years (2018-2021).

The REGiREU project has as main objective to develop innovative and competitive technologies to implement the regeneration of urban and industrial wastewater for further reuse. Twelve universities, research centers and companies are involved in the REGiREU project to achieve this objective. The main tasks of IQS in the project are the research of UV-LED technology for disinfection and the removal of emerging contaminants as well as obtaining information about the effect of the different operational parameters on the disinfection capacity. The UV-LED technology will be compared with conventional UV systems and other oxidative technologies. Finally it will be studied the combination of UV-LEDs with advanced oxidation processes (AOP).

KEY RESPONSIBILITIES:

- The researcher will conduct experiments with advanced oxidation processes in IQS laboratories
- The tasks of the project involve:
 - Running, control and monitoring of photo-reactors and electro-oxidation for secondary effluents wastewater treatment;
 - Pre-treatments of samples, collection and evaluation of results in terms of standard parameters, pathogens and micropollutants in water (including quantification by means of chromatography-mass spectrometry)
 - Writing scientific reports and scientific papers.

EXPERIENCE, KNOWLEDGE, SKILLS & SELECTION CRITERIA

Must Have – Required:

- **Experience:** Bachelor degree (preferably Master) in Chemical Engineering, Environmental Engineering, Biotechnology, Water Technology, Environmental Science, Chemistry, or similar
- **Knowledge:** The researcher must be proficient in oral and written English; knowledge of the Spanish and Catalan languages is also positively evaluated.

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Desirable:

- **Skills:** Any of the following past research experiences will be judged favorably in the selection process:
 - experience in laboratory
 - activities, knowledge/experience of wastewater treatment technologies (advanced oxidation processes, photocatalysis, photolysis, electro-oxidation, etc.),
 - previous experience in water quality analyses, pathogens and organic micropollutants is positively evaluated,
 - ability to work independently and as a member of a team; she/he must be creative, flexible, and eager to learn and to expand his /her scientific network.
 - driving license will be positively evaluated

WORKING CONDITIONS & ENTITLEMENTS

- **Working conditions:** Employed in compliance with Spanish legislation and regulations. Employees receive the benefits of the Spanish Social Security system covering sickness, maternity/paternity leaves and injuries at work.
- **International Environment:** The opportunity to join a prestigious international research institution and become a member of a young and growing research group.
- **Continuous training** in a high-quality environment.

HOW TO APPLY & SELECTION PROCESS

Documentation to be submitted

- Photocopy of the titles of their studies
- Curriculum Vitae
- Letter of interest for the position
- A minimum of 1 recommendation letter

Candidates must send CV and requested documents, by email to rrhh@iqs.url.edu indicating ref. "PreDoc_REGiREU" in the subject of the email.

The deadline to submit the required documentation is 05th May 2018.

Selection process:

- **Pre-selection:** will be based on **CV, experience, skills and motivation letter.**
- **Interviews:** Short-listed candidates will be interviewed.
- **Offered Position:** Job Offer will be sent to the successful candidate after the interview.

