

POSTDOC RESEARCH OFFER

The CRETUS institute, *Cross-Research in Environmental Technologies* (www.usc.es/cretus), aims to be a benchmark in the conception, development and evaluation of environmental technologies. Sustainable processes that minimize environmental impacts and risks and allow the recovery of resources will be developed and characterized in terms of technological, economic, social and environmental criteria. It presents an original research model based on the integration of different background in the fields of Analytical Chemistry, Biology, Chemical Engineering, Economics, Environmental Law, Social Psychology and Physics, working in synergy for the development of innovative environmental technologies. This approach allows closing the cycle of an environmental problem, starting with its DIAGNOSIS, developing a TECHNOLOGICAL SOLUTION for its treatment and evaluating its IMPACT. Consequently, the new and more complex environmental challenges are faced from a holistic perspective.

CRETUS integrates 8 Research Groups of the University of Santiago de Compostela (USC), Spain, with 50 professors, 22 postdocs, 71 PhD students and 14 technicians (management, administration, dissemination and laboratory).

For the conception and development of environmental technologies it is vital to understand the microbiological processes and characterize the relations between the microbiome and the operational and technological parameters.

Profile

Researcher willing to provide the microbiological vision to the technological groups, for the conception and operation of environmental treatment processes. Therefore, he/she must have proved experience in the development and/or application of different molecular biology tools (FISH, Illumina, qPCR, etc.) as well as in bioinformatics for data treatment and interpretation. It would be advisable expertise in any Omic technique (proteomics, metabolomics, metatranscriptomics).

Opportunities

The hired researcher will actively participate in the multi-disciplinary projects developed within the framework of CRETUS, which means an excellent opportunity for the development of his/her scientific and professional career.

Conditions

A full-time contract of 18 months is offered, starting prospectively on September 2, 2019. The yearly gross salary remuneration consists of 14 payments of € 1,820 each.

Responsible

Juan M. Lema Rodicio, Group of Environmental Biotechnology. Department of Chemical Engineering at USC.

Tasks

- Application of Molecular biology techniques (FISH, Illumina, qPCR, etc.) to understand the effect of environmental and/or operational conditions of environmental technologies on microbial community structure and dynamics.

- Implementation and application of bioinformatics for the analysis of massive sequencing data and their interpretation
- Development of Omic techniques, particularly proteomics and metatranscriptomics.
- Training, guidance and monitoring of PhD students in the use of the mentioned techniques.

Requirements and merits

- PhD in Microbiology, Biotechnology, Cellular Biology, Environmental Sciences, or equivalent.
- Experience in environmental microbiology.
- International postdoctoral research stays, publications and participation in projects.
- Good spoken and written English skills.

Selection process

The candidates should send their CV, Motivation letter and at least 1 Recommendation letter to sonia.suarez@usc.es, indicating "Cretus Contract" in the subject, before June 26 at 14:00, 2019.

The 3 best evaluated candidates will be interviewed.