

## POSTDOC RESEARCH OFFER

The CRETUS institute, *Cross-Research in Environmental Technologies* ([www.usc.es/cretus](http://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 biology, physics, chemical engineering, psychology, chemistry, economics and environmental law, 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 SUSTAINABILITY. 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 relation between the microbiome and the operational and technological parameters.

### Profile

Researcher willing to provide a microbiological vision to the technological groups, for the conception and operation of environmental treatment processes. He/she will actively participate in different work teams of CRETUS. He/she must have experience in the development and application of molecular biology techniques (Fish, Illumina, qPCR, etc.) and omics (proteomics, metabolomics), as well as in bioinformatics for data treatment.

### Opportunities

The hired researcher will actively participate in the multi-disciplinary projects developed within the framework of CRETUS, supposing an excellent opportunity for the development of their scientific and professional careers.

### Conditions

A full-time contract of 18 months is offered, starting prospectively on May 15, 2019. The gross salary remuneration consists of 14 payments of € 1,820 per month.

## **Responsible**

Juan M. Lema Rodicio, Group of Environmental Biotechnology ([www.usc.es/biogroup](http://www.usc.es/biogroup)).  
Department of Chemical Engineering at USC.

## **Tasks**

- Application of molecular biology techniques in the field of microbial ecology, such as massive sequencing (Illumina), qPCR and RTqPCR, and study of communities by in situ hybridization (FISH).
- Development of omics, particularly proteomics.
- Implementation and development of bioinformatics for the analysis of massive sequencing data.
- Training, guidance and monitoring of PhD students in the use of the mentioned techniques.

## **Requirements and merits**

- PhD in Microbiology, Cellular Biology or equivalent
- The CV will be evaluated (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](mailto:sonia.suarez@usc.es), indicating "Cretus Contract" in the subject, before April 8, 2019. The 3 best evaluated candidates will be interviewed.