



PhD Position offer

Life Sciences / Engineering

Research group

GEMMA-Group of Environmental Engineering and Microbiology, Department of Civil and Environmental Engineering. <https://gemma.upc.edu/>

Project title/Job position

Harnessing the power of nature through **productive microbial consortia** in Biotechnology-Measure, Model & Master (PROMICON).

Area of knowledge

Life Sciences / Engineering.

Disciplines of applicants

A broad range of disciplines are suitable for the position, including Engineering (chemical, materials, industrial, biosystems and others), Biotechnology, Microbiology, Environmental and Marine Sciences.

Research Project

PROMICON is an EU Horizon 2020 funded project starting in June 1st, 2021, with partners around Europe. The aim of the project is to learn from nature how autotrophic microbiomes function through latest and novel methods in order to steer their growth towards production of biopolymers, energy carriers, drop in feedstocks and antimicrobial molecules. The PhD will focus on a top-down approach to develop and optimize existing microbiomes from nature for the production of polyhydroxyalkanoates (PHA), exopolysaccharides (EPS), phycobiliproteins (PPP) useable in the materials and biomaterials sectors as well as pigments for the feed and food industry.

Position description

The work will be carried out in the GEMMA Labs premises in UPC Campus Nord and Campus Diagonal-Besòs integrated in a team of Postdoc, PhD and undergraduate students working in environmental biotechnologies. The student will have access to novel experimental methods and high-performance computing infrastructures. Research stays within the partners of PROMICRON are anticipated, as well as attendance to international seminars and conferences. Selected candidate will be encouraged to submit applications to FI-SDUR 2021 call.

Contact

Interested applicants please send a **1-page CV** to Prof. Joan Garcia (joan.garcia@upc.edu) including your global numerical qualifications not later than **February 1st, 2021**.