

APACHE



European
Research
Council

PhD fellowship in Plasma Medicine and Biomaterials

We are looking for a highly motivated, dynamic and creative PhD student to work in the field of plasma medicine to investigate its effects on biomaterials (essentially polymers, namely hydrogels), for cancer and regenerative medicine applications. The ultimate goal is to gain fundamental understanding on the effects of plasma-treated hydrogels on cancer and healthy cells and tissues to implement new strategies for local and minimally invasive cancer therapy.

If selected, the candidate will work in a multidisciplinary research group focused on the search for potential anti-cancer treatments in human osteosarcoma, specifically the use of Cold Plasmas at atmospheric pressure on biomaterials, cell lines and primary cells, within an ERC project.

This position is part of the Starting Grant “APACHE” of the European Research Council. The selected candidate will occupy a full-time place in the plasma medicine research group, led by Dr. Cristina Canal, in the Biomaterials, Biomechanics and Tissue Engineering Research Group of the Technical University of Catalonia at EEBE (Campus Diagonal Besòs), Barcelona (<https://ercapache.upc.edu/en>).

You will be working in a vibrant interdisciplinary research environment involving plasma physics, biomaterials science and cell biology. You will have access to state-of-the-art experimental facilities, will have travel allowance. You will be expected to deliver top quality research.

REQUIREMENTS

The successful candidate will hold a master degree in biomedical engineering, tissue engineering, chemistry, biology and other related areas. Previous exposure to plasma medicine, biomaterials or tissue engineering is highly desirable. However, willingness and motivation to expand your expertise by reaching out to other disciplines is required. You are expected to be proficient in English, and have skills in teamwork and communication skills.

The evaluation of the candidate will be based on previous studies, credentials, research experience, exposure to relevant disciplines and proficiency in English.

Beside skype interviews, it is possible to arrange on site visits to the lab and the campus in Barcelona.

The starting date is preferably January 2021. The initial contract will be for one year, renewable to up to three years. The salary is competitive, in line with the Spanish national PhD scholarships.

HOW TO APPLY

If you are interested, you are encouraged to apply as soon as possible by sending a CV including your Bachelor and Masters average marks with a list of at up to 3 references (names and emails) and a short (max one page) statement describing your past research experience and interests.

Contact

Application or specific inquiries should be addressed to Dr. Cristina Canal (ercapacheupc@gmail.com), with “2020 PhD Plasma Medicine” in the subject line.



Following the recommendations of the European Commission 2005/251/EC, UPC has subscribed the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers.