PHD IN ELECTRORESPONSIVE HYDROGELS FOR BIOMEDICAL APPLICATIONS

Company Description

Information

Deadline: 2019-09-30
Country: Basque Country
Category: Business
Province: Gipuzkoa

Company

Polymat

POLYMAT
Basque Center for Macromolecular Design and Engineering

Main functions, requisites & benefits

Main functions

We are looking for a highly motived PhD student to carry out a research project jointly supervised between the groups of Dr. David Mecerreyes at POLYMAT (www.polymat.eu) and Dr. Sergio E. Moya at CIC biomaGUNE (www.cicbiomagune.es), both located in San Sebastian, Spain. The aim of the project is to develop electroactive and responsive hydrogels for biomedical applications, mainly for drug delivery. The PhD student will work on the synthesis and hysicochemical characterization of the hydrogels, and also perform cell culture studies to study intracellular delivery. The successful applicant will be part of a very international and multidisciplinary team, and will receive training atthe inte rface of biological and materials science. He/she will have access to state-of-the-art facilities for the characterization of hydrogels (including atomic force microscopy, cryo-transmission electron microscopy, and thermogravimetric analysis), and for imaging at cell level (confocal microscopy and Raman microscopy).

Requisites

Applicants must have a BSc and MSc in Chemistry with a strong background in Polymer Chemistry and organic synthesis, as well as good command of English.

Benefits

We offer a full time contract for a duration of 3 years starting from November or December 2019.