

PhD Research Position

Controlled Drug Delivery Systems

Keywords: Biomaterials; Long Acting Injectables; Biopolymers

Background:

The development of new polymers that mimic protein structures is extremely relevant for the production of biocompatible polymers that can be used in long-acting injectable (LAI) drug delivery systems. The main objective of this project is to develop novel biomaterials that have functional properties suitable for use as excipients of LAI formulations. Our laboratory has extensive experience in the synthesis of polymers for biomedical applications, in collaboration with industry.

Research Group:

The PolySyc research group is based at the Department of Chemical Engineering of the University of Coimbra. Our research interests include: reversible deactivation radical polymerization, biopolymers, organic synthesis and polymer characterization. We offer a stimulating and collaborative team atmosphere in a multidisciplinary environment. Our group has a track record of numerous publications in leading polymer science journals, as well as a very fruitful collaboration with industry, that has led to the publication of several patents. We have excellent laboratory facilities and a state-of-the-art analytical infrastructure. For more information about our research group, please visit www.polysyc.pt.

Expected Candidate Profile:

We expect a creative, highly motivated and ambitious candidate who excels at scientific challenges. The candidate should have an MSc degree in chemistry, chemical engineering, biomedical engineering or in a similar field and a background in polymers synthesis and characterization and/or pharmacy sciences. Previous experience in polymer synthesis is an advantage. Candidates will be trained in complementary skills. We will offer 48-month PhD fellowship and the university tuition fee during 4 years.

Application Deadline: January 15th 2023

Please send a full application as single PDF file containing:

- Motivation letter
- Curriculum vitae and list of publications (if applicable)
- MSc and BSc certificates
- Two contacts for reference letters

To: jcoelho3@gmail.com; ana.clo.fonseca@gmail.com; armenio.serra@gmail.com

Subject: PhD_Position_CD DS