

PhD Fellowship

A PhD Fellowship is available in the group of Science and Engineering of Polymeric Biomaterials (ZIBIO Group) at the Basque Center for Macromolecular Design and Engineering, POLYMAT Fundazioa (www.polymat.eu) under the co-supervision of Dr. Aitor Larrañaga and Dr. Jose Ramon Pineda (Achucarro Basque Center for Neuroscience Fundazioa).

Promoting cell-biomaterial interactions to accelerate the neural differentiation of human dental-pulp stem cells

We offer a highly multidisciplinary project that combines research involving polymer science & engineering, chemistry, cell & molecular biology and neuroscience. This project pursues the utilization of functional scaffolds based on bioresorbable polymers for their combination with human stem cells, as a prospective platform for the regeneration of the nervous tissue. Through the precise control over the properties of the polymeric scaffold, the interaction between the biomaterial and the stem cells can be controlled, thus resulting in the activation/inhibition of several pathways that can eventually modulate the neural differentiation of the seeded cells.

The project will be carried out at **POLYMAT**, a vibrant multidisciplinary and international research institute in Bilbao and San Sebastian, Spain. The Institute offers excellent working conditions and is well equipped with instrumentation and facilities.

Required qualifications and experience.

Applicants must have a BSc and MSc in Biomedical Engineering, Biochemistry, Biology, or a related discipline. Candidates that are in the process of their Master thesis defense in the next 6 months will also be considered. The candidate is expected to work in a multidisciplinary and an international environment. Good command of written and spoken English is a must.

Applications should be addressed to Dr. Aitor Larrañaga and sent via email **in one single PDF** to aitor.larranagae@ehu.eus before the 20.11.2021 including:

- (i) A cover letter highlighting their interest in the position.
- (ii) Curriculum vitae.
- (iii) Academic record.
- (iv) A short description of previous research (1-2 Pages).
- (v) The names and contact addresses (e-mail) of two academic referees.

Please note that *because of the large number of applications expected*, we will not be able to give individual *feedback* to unsuccessful applications.

Both POLYMAT and Achucarro are BERCE institutions that have obtained the 'HR Excellence in Research award'. The award reflects our commitment to continuously improve our human resource policies in line with the European Charter for Researchers, the Code of Conduct for the Recruitment of Researchers and our commitment to achieve fair and transparent recruitment and appraisal procedures.