

OPEN POSITION

Early-Stage Researcher / PhD position (ESR 10) at Ashland Specialties Ireland Ltd., Ireland

This ESR position is part of the European Training Network “BIOREMIA” dealing with research on novel biofilm-resistant materials for hard tissue implant applications. BIOREMIA offers the possibility to pursue the PhD within the Network at different universities and industrial companies from 10 European countries (Germany, Austria, Italy, Sweden, Greece, UK, Spain, Ireland, France, and Switzerland).

Background information on all ESR positions and BIOREMIA Network is available on www.bioremia.eu.

BIOREMIA (“*BIO*film-*RE*sistant Materials for hard tissue Implant Applications”) is funded by the European Union’s Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement no. 861046.

Job title	Early-Stage Researcher (PhD student position) / ESR 10
Project title	ESR 10: Sustainable manufacturing of anti-fouling and anti-bacterial bioresorbable PEG-polymer coatings for metal surfaces of implantable medical devices and nanotube-based drug delivery system
Application deadline	31.03.2020
Expected starting date¹	May.2020 (approx.)
Recruiting institution	Ashland Specialties Ireland Ltd. Synergy Centre, Lab A Technological University Dublin Tallaght, Dublin 24, Ireland Website: https://www.ashland.com/industries
City, Country	Dublin, Ireland
Job/project description	<p>The <i>objective</i> of this project is the development of bioresorbable PLLA-PEG and PLGA-PEG based polymers with anti-fouling and anti-bacterial properties to be used as coatings for metallic orthopedic devices and nanotube-based drug delivery systems. The successful candidate will gain skills in synthesizing bioresorbable PEG polymers, as well as their characterization with respect of a variety of parameters including structural features as well as solubility viscosity and thermal stability. The candidate will develop and scale up anti-fouling and anti-bacterial coatings utilizing these PEG-polymers and the properties of these coatings will be tested using a variety of <i>in vitro</i> biofilm assays. A sustainability report will be delivered.</p> <p><i>Expected results:</i> Novel anti-fouling and anti-bacterial bioresorbable PEG-polymer coatings for metallic orthopedic implants.</p> <p>The ESR will carry out research in the laboratories in Ashland Inc. and will be enrolled in the University College Dublin PhD Program. The ESR will also travel abroad for research secondments at partner organisations of the BIOREMIA Network (e.g. at Montanuniversität Leoben- Austria, the University of Cambridge - UK, The University Clinics of Giessen & Marburg GmbH -Germany) and will participate in specialised training meetings and international conferences.</p>

Appointment	The appointment will be on a temporary basis for a maximum period of 36 months (PhD student, regular full-time employment contract), with an attractive salary plus allowances package according to the <i>Marie Skłodowska-Curie / Innovative Training Networks</i> rules.
Eligibility conditions	Applicants must at the time of recruitment: 1) Be in the first four years (full-time equivalent) of their research careers 2) Have not resided in Ireland for more than 12 months in the last 3 years 3) Have not been awarded a doctoral degree.
Candidate's profile	<ul style="list-style-type: none"> Applicants must hold a Master's or equivalent degree in a relevant area of science and technology, which provides access to PhD programs and should have experience with experimental research. Applicants must have excellent proficiency in written and spoken English. Applicants must have strong motivation and ability to collaborate in an interdisciplinary and international team.
How to apply²	<p>Interested candidates should send an application containing the following documents in English (and, when necessary, a certified translation of official documents):</p> <ul style="list-style-type: none"> Motivation Letter (describing research career goals, skills, experience, and highlighting the consistency between the candidate's profile and the chosen ESR position) A complete Curriculum Vitae with references to past research and training experiences Copies of Bachelor and Master's certificates/diploma & transcripts Two Reference Letters Publications (if available) Applicants whose first language is not English must also demonstrate English language proficiency of IELTS 6.5 (no band less than 6.0 in each element) or equivalent. <p>Applications should be sent by e-mail <u>as a single PDF</u>, quoting the project name and the ESR position "BIOREMIA – ESR 10", to: udo.greiser@ashland.com and Tadhg.OCroinin@ucd.ie</p> <p>Applications can also be submitted via the online <i>Application Form</i> at www.bioremia.eu</p>
Further information	<ul style="list-style-type: none"> For additional information about this ESR position please contact: Dr Udo Greiser udo.greiser@ashland.com and Dr Tadhg O Croinin Tadhg.OCroinin@ucd.ie Some background material about host institution & research groups can be found here: https://www.ashland.com/industries https://www.ucd.ie/sbbs/ and www.bioremia.eu

¹ Employment start date to be mutually agreed

² The recruiting organization may decide to interview only those applicants who appear from the information available, to be the most suitable, in terms of experience, qualifications and other requirements of the position.