

Horizon 2020 Marie Skłodowska-Curie Actions Individual Fellowships Call 2016 – Expression of Interest

Organisation Details	Materials & Surface Science Institute University of Limerick Limerick, Ireland www.ul.ie/mssi	
Organisation Type	<input checked="" type="checkbox"/> Academic <input type="checkbox"/> Large Enterprise <input type="checkbox"/> SME <input type="checkbox"/> Public Research Organisation	<input checked="" type="checkbox"/> Public Body <input type="checkbox"/> NGO <input type="checkbox"/> Non-Profit <input type="checkbox"/> Other (please specify) <hr/>
Research Field(s)	<input checked="" type="checkbox"/> Chemistry CHE <input type="checkbox"/> Social and Human Sciences SOC <input type="checkbox"/> Economic Sciences ECO <input checked="" type="checkbox"/> Information Science and Engineering ENG <input checked="" type="checkbox"/> Environment and Geosciences ENV <input checked="" type="checkbox"/> Life Sciences LIF <input type="checkbox"/> Mathematics MAT <input checked="" type="checkbox"/> Physics PHY	Keywords: Biomedical Engineering Biomaterials Catalysis Computational modelling Crystal Engineering Energy Microscopy Materials characterisation Pharmaceutical Materials Polymer Composites Solid state synthesis
Short Description of the Organisation and the Faculty/Dept./School/Centre	<p>The Materials & Surface Science Institute (MSSI), established at the University of Limerick in 1998, is a centre of excellence generating state-of-the-art fundamental research on topics of industrial significance in the fields of surface science and materials.</p> <p>The Institute houses a multidisciplinary team of scientists (chemistry, materials science, physics and biochemistry) and engineers (mechanical, aeronautical, biomedical, manufacturing and electronic) who undertake research in the design, synthesis, processing, characterisation and modelling of materials. MSSI expertise covers the full range of materials, supported by state of the art infrastructure and facilities. Currently, MSSI has 47 PIs supervising over 139 PhD students and 57 post-doctoral researchers.</p> <p>MSSI's priority research themes are 1) Biomedical</p>	

	<p>Engineering & Biomaterials; 2) Composite Materials; 3) Pharmaceutical Materials and 4) Materials for Energy & Environment. In addition, MSSl hosts the following research centres and programmes:</p> <ul style="list-style-type: none"> • Synthesis and Solid State Pharmaceutical Centre (SSPC); www.sspc.ie • Pharmaceutical Manufacturing Technology Centre (PMTc); www.pmtc.ie • Irish Centre for Composites Research (IComp) ; www.icomp.ie • Centre for Applied Biomedical Engineering Research (CABER); www.ul.ie/caber • Dairy Processing Technology Centre (DPTC)
Short Description of the Research Project/Topic	<p>Applicants may develop a proposal related to MSSl's priority research themes and/or current research activity within the Research Centres and programmes hosted at MSSl, described above.</p> <p>The University requests that intending applicants identify a potential supervisor before submitting an application. Please see www.ul.ie/mssi/people for details of the Principal Investigators affiliated with MSSl, and their current research interests.</p>
Expertise required by the applicant	<p>Applicants should meet the minimum entry requirements for Research Postgraduate Programme set by the University. These are available at www.ul.ie/graduateschool/entry-requirements.</p>
Career development support offered to fellows	<p>Example (please edit to your own requirements):</p> <p>The postdoctoral researchers will have the opportunity to join one of the research groups at the Institute and will follow an individual research project under the supervision and mentoring of an internationally renowned group leader in a stimulating and multidisciplinary scientific environment.</p> <p>Researchers will have access to the Institute's state-of-the-art scientific facilities, including high-resolution electron microscopy, spectroscopy, thermal analysis and metrology suites, and computational modelling facilities. All researchers based at MSSl are allocated dedicated laboratory and desk space within a modern, purpose built building, with additional laboratory and office space which opened in Summer 2015.</p> <p>In addition, they will have access to the university's researcher development programmes, training and</p>

	career planning services in order to enhance their own career progression.
Application procedure	In the first instance, potential applicants should supply a current CV and letter of motivation outlining their research interests and previous relevant academic or industrial research experience.
Contact Person	Dr. Gordon Armstrong MSSI Scientific Support Officer Email: gordon.armstrong@ul.ie Tel: +353-61-234576