

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

<b>Organisation Details</b>	Tyndall National Institute Lee Maltings Dyke Parade Cork <a href="http://www.tyndall.ie">www.tyndall.ie</a>		
<b>Organisation Type</b>	<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 ( <i>please specify</i> ) _____	
<b>Research Field(s)</b>	<input 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 type="checkbox"/> Environment and Geosciences ENV <input type="checkbox"/> Life Sciences LIF <input type="checkbox"/> Mathematics MAT <input checked="" type="checkbox"/> Physics PHY		<b>Keywords:</b> <b>Photonics, III-V Materials, Photonic Devices</b>
<b>Short Description of the Organisation and the Faculty/Dept./School/Centre</b>	Established with a mission to support industry and academia in driving research to market, Tyndall National Institute is one of Europe's leading research centres in Information and Communications Technology (ICT) research and development and the largest facility of its type in Ireland. Established in 2004 as a successor to the National Microelectronics Research Centre (NMRC founded in 1982) at University College Cork, the Institute employs over 460 researchers, engineers and support staff, with a full-time graduate cohort of 135 students generating over 200 peer-reviewed publications each year. With a network of 200 industry partners and customers worldwide. Hosting the only full CMOS (metal oxide semiconductor) integrated circuit construction, Micro Electronic Mechanical systems (MEMS) and III-V Wafer Semiconductor fabrication facilities and services in Ireland, Tyndall is capable of prototyping new product opportunities for its target industries – electronics, medical devices, energy and communication. Tyndall is a globally leading Institute in its four core research areas of Photonics, Microsystems, Micro/Nanoelectronics and Theory, Modeling and Design.		

	<p>Tyndall is the lead institution for the Science Foundation Ireland funded Irish Photonics Integration Centre (IPIC)</p> <p><b>III-V Materials and Devices Group</b></p> <p>The primary research of this group is in the materials and devices for optical communications, in the most efficient laser light source namely vertical cavity surface emitting lasers (VCSELs) and in visible devices based on gallium materials and devices. We are always looking for bright students who are excited by the technology and who see opportunities in getting the technology to market.</p>
<b>Short Description of the Research Project/Topic</b>	Advanced photonic devices including their integration: for example InP and silicon photonics; high bandwidth (>100GHz) photonics; Nanodevices (Plasmonics, optical rectification)
<b>Expertise required by the applicant</b>	Lead author on high quality publications using III-V based materials or devices.
<b>Career development support offered to fellows</b>	<p>A key component of the career management process is the agreement of professional development plans between individual Post-Doctoral &amp; Senior Post-Doctoral Researchers with their Principal Investigators (PI). Please see <a href="http://www.ucc.ie/en/careers/informationforresearchstaff/careerdevelopmentplanning/">http://www.ucc.ie/en/careers/informationforresearchstaff/careerdevelopmentplanning/</a> and <a href="http://www.ucc.ie/en/careers/informationforresearchstaff/professionaldevelopmentplanning/">http://www.ucc.ie/en/careers/informationforresearchstaff/professionaldevelopmentplanning/</a> for more information.</p> <p>At UCC and Tyndall, researchers have responsibility for managing and pursuing their own careers and career development, supported by the Principal Investigator. This is laid down in the <a href="#">Employment and Career Management Structure for Researchers</a> policy doc</p> <p>In additional to the UCC training offered, Tyndall also offer training solutions as a result of a conducted Individual and Group Training Needs Analysis, a sample of some of these skills training offered is below. Individual and team training needs are also addressed.</p> <ul style="list-style-type: none"> <li>• Conducting Effective Meetings</li> <li>• Presentation Skills</li> <li>• Finance for Non-Financial Manager</li> <li>• How to Write the Abstract and Impact of a European Research Proposal</li> <li>• Quality Management at Tyndall</li> <li>• Quality Management at Tyndall for Researchers</li> <li>• Quality Management at Tyndall for Researchers</li> <li>• Hiring Managers Recruitment Support Training</li> <li>• Time Management &amp; Personal Effectiveness</li> </ul>

<b>Application procedure</b>	<i>CV and letter of motivation to the hiring manager.</i>
<b>Contact Person</b>	<a href="mailto:brian.corbett@tyndall.ie">brian.corbett@tyndall.ie</a>