



2018-IPR-GII7-FGIV-010365

**FG IV – Project Officer**  
**Exploratory Research Project:**  
**Robust Indoor Localization in Complex**  
**Scenarios (RISE)**

<p><b>Position for:</b></p> <p><b>FG IV – Project Officer - Scientific / Technical Support Officer</b></p>	<p>As the science and knowledge service of the Commission, the mission of DG Joint Research Centre is to support EU policies with independent evidence throughout the whole policy cycle.</p> <p>The JRC is located in 5 Member States (Belgium, Germany, Italy, the Netherlands and Spain). Further information is available at: <a href="https://ec.europa.eu/jrc/">https://ec.europa.eu/jrc/</a></p> <p>The JRC offers a vacancy for a Contract Agent within the Exploratory Research Project RISE (Robust Indoor Localization in Complex Scenarios).</p> <p>The JRC Exploratory Research Programme (ER) is a strategic initiative characterised by ideas that may lead to novel results, which are going to qualitatively enrich the current scientific work at the JRC.</p> <p>The vacancy is within the Directorate Nuclear Safety and Security. The directorate supports the relevant policy DGs with independent, technical and scientific evidence in the areas of nuclear safety, security and safeguards.</p> <p>The operational scientific research will take place in the unit Nuclear Security.</p> <p>Short description of activity:</p> <p>The ER Project RISE will contribute to research and development in the area of indoor localisation and infrastructure-free environments. It addresses current limitations related to varying environments, temporal loss of sensor data and localisation in large and complex environments. It will make use 3D and image data, as well as other sensor data available from modern handheld devices. The project will explore recent achievements made in machine learning (e.g. the use of deep neural networks for scene recognition) and provide reference data sets that can be used by other organisations.</p> <p>The successful candidate will be in charge of carrying out all aspects of the RISE project, this including:</p> <ul style="list-style-type: none"><li>• Integration of the sensor hardware;</li><li>• Design, implementation and testing of computer vision and machine learning algorithms;</li><li>• Dissemination/publication of results.</li></ul> <p>Qualifications:</p> <ul style="list-style-type: none"><li>• Completed university studies of at least three years attested by a diploma and at least five years professional experience in a field relevant to the position, alternatively a doctoral diploma in Computer Science or related field;</li><li>• Broad knowledge in the area of 3D computer vision and robotics, in particular related to indoor localization and mapping, is essential;</li><li>• Extensive experience in implementing related algorithms in C++ using libraries such as OpenCV and OpenGL is</li></ul>
--	---

	<p>essential;</p> <ul style="list-style-type: none"> <li>• Knowledge of machine learning, in particular deep learning, and their frameworks is an advantage;</li> <li>• Good oral and written communication skills in English (B2) are essential, knowledge of other languages is an advantage;</li> <li>• Solid record of research activities relevant for the post including publications in international peer-reviewed journals is an advantage.</li> </ul> <p>In addition, the following elements will be considered as an advantage:</p> <ul style="list-style-type: none"> <li>• Ability to work in a team and multi-cultural environment;</li> <li>• The candidate is expected to be creative and work independently.</li> </ul>
<b>Directorate Unit</b>	<p>Nuclear Safety and Security Nuclear Security</p> <p>Exploratory Research Project: Robust Indoor Localization in Complex Scenarios (RISE)</p> <p>Further information is available at: <a href="https://ec.europa.eu/jrc/en/research-topic/nuclear-safeguards">https://ec.europa.eu/jrc/en/research-topic/nuclear-safeguards</a></p> <p>The Scientific Development Unit of the Strategy, Work Programme and Resources Directorate is in charge of the overall JRC Exploratory Research Programme. The operational scientific research will take place in the Nuclear Security Unit.</p>
<b>Indicative duration</b>	24 months
<b>JRC Site</b> <b>Country</b>	Ispra Italy
<b>Rules and eligibility</b>	<p>The candidate must be on any valid EPSO reserve list for Function Group IV contract staff.</p> <p>Applicants to the following Calls for expression of interest can also be considered:</p> <ol style="list-style-type: none"> <li>1. CAST Permanent - EPSO has launched in January 2017 an open-ended selection procedure to create a pool of candidates from which the institutions, bodies, offices and agencies of the European Union (EU) can recruit contract agents. Details available at the link below: <a href="https://epso.europa.eu/documents/2240_en">https://epso.europa.eu/documents/2240_en</a></li> <li>2. Call COM/1/2015/GFIV – Research - The JRC has launched in January 2015 a permanent call for researchers FG IV. Details available at the link below: <a href="https://ec.europa.eu/jrc/en/working-with-us/jobs/vacancies/function-group-IV-researchers">https://ec.europa.eu/jrc/en/working-with-us/jobs/vacancies/function-group-IV-researchers</a></li> </ol> <p><b>Auxiliary contract staff:</b> <a href="https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/contract-staff-members">https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/contract-staff-members</a></p>

	<p>Article 3b of the Conditions of Employment of Other Servants of the European Union applies: the actual period of employment within the Commission under this type of contract, including any period under renewal, shall not exceed 6 years.</p>
--	---

*Please note that due to the high number of applications received only shortlisted candidates will be contacted.*