



**2018-IPR-G-000-010105**

**Optical Image processing**

<p><b>Position for:</b></p> <p>Trainee</p>	<p>As the science and knowledge service of the Commission, the mission of 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="http://www.jrc.ec.europa.eu">http://www.jrc.ec.europa.eu</a></p> <p><b><u>Short description of activity:</u></b></p> <p>The trainee position is available at the Nuclear Security Unit. The unit focus is on state of the art enabling research, the use of specific technology, development of instruments and methods, delivering technical services and training in the domain of nuclear safeguards, non-proliferation and nuclear security. In this way, the unit supports the verification of international treaties and agreements related to nuclear safeguards and non-proliferation.</p> <p>The Nuclear Security Unit develops tools carrying optical components such as cameras, optical fibres and lens-systems. These systems are used by nuclear safeguards inspectors during the verification and monitoring of nuclear facilities.</p> <p>The trainee will contribute to the development and improving image-processing algorithms and systems which contains camera-based components. The tools are developed using C++, the QT and OpenCV. The project details will be defined according to competences of trainee.</p> <p><b><u>Qualifications:</u></b></p> <p><u>Essential:</u></p> <ul style="list-style-type: none"><li>- University Degree (<i>or an almost completed degree</i> - according to the Rules who are receiving a university education or its equivalent and are preparing a thesis for a university degree or</li></ul>
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	<p>Master's degree or Ph.D. or its equivalent at graduate level could apply as well. The purpose of the training must be directly related to the subject of the thesis) in computer science, electrical engineering, physics or related areas</p> <ul style="list-style-type: none"> <li>• Strong background in image processing and C++ (preferably also QT and OpenCv)</li> <li>• Good working knowledge of English (B2 level)</li> </ul> <p><b><u>Advantage:</u></b></p> <ul style="list-style-type: none"> <li>• Experience in optical engineering.</li> </ul> <p>In your application, please provide clear information on your skill set, by elaborating on the above-mentioned list of requirements and by listing your level of languages and your computer / programming skills.</p> <p><b><u>For general eligibility requirements, please read the rules governing the traineeship scheme of the JRC:</u></b></p> <p><a href="https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/jrc-trainees">https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/jrc-trainees</a></p>
<b>Unit /Directorate</b>	<p>Unit G.II.7 – Nuclear Security</p> <p>Directorate G – Nuclear Safety and Security</p>
<b>Indicative duration</b>	5 months
<b>Preferred starting date</b>	As soon as possible
<b>JRC Site</b>	Ispra
<b>Country</b>	Italy
<b><u>JRC contact details</u></b>	<p><b>For any technical problems with your application, please contact:</b></p> <p><a href="mailto:HR-AMC8-RECRUITMENT-TOOLS-SUPPORT@ec.europa.eu">HR-AMC8-RECRUITMENT-TOOLS-SUPPORT@ec.europa.eu</a></p>