



2018-IPR-G-000-010112

VR Display for 3D Point Clouds

<p>Position for:</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: http://www.jrc.ec.europa.eu</p> <p><u>Short description of activity:</u></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 for the acquisition, processing and visualization of 3D data that support nuclear safeguards inspectors during the verification and monitoring of nuclear facilities.</p> <p>The trainee will help and support the development of a tool for visualizing large 3D point clouds (>100Mpoints) on Virtual Reality displays by streaming hierarchical data structures. It will be implemented in C++ using the QT framework and the OpenVR SDK.</p> <p><u>Qualifications:</u></p> <p><u>Essential:</u></p> <ul style="list-style-type: none">• 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
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	<p>for a university degree or 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 or related areas;</p> <ul style="list-style-type: none"> • Strong background in C++ including QT and OpenGL; • Good working knowledge of English. <p><u>Advantage:</u></p> <ul style="list-style-type: none"> • experience with OpenVR; <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><u>For general eligibility requirements, please read the rules governing the traineeship scheme of the JRC:</u></p> <p>https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/jrc-trainees</p>
Unit /Directorate	Unit G.II.7 – Nuclear Security Directorate G – Nuclear Safety and Security
Indicative duration	5 months
Preferred starting date	As soon as possible
JRC Site	Ispra
Country	Italy
<u>JRC contact details</u>	<p>For any technical problems with your application, please contact: HR-AMC8-RECRUITMENT-TOOLS-SUPPORT@ec.europa.eu</p>