



V-MUST DEVELOPMENT CAMP: CALL FOR MOBILITY (C4)

CNR – ITABC Roma (Italy)

title: web3D, Augmented Reality, Natural Interaction applications

1. Name of the hosting institution	CNR – ITABC Rome www.vhlab.itabc.cnr.it
2. Brief description of the unit hosting the internship	<p>The Institute of Technologies Applied to the Cultural Heritage of CNR (ITABC), located in Rome, was founded in 1981 as a stand-alone centre of excellence in the field of the advanced researches in the cultural heritage. The typical approach of these research activities is: from the fieldwork to the lab and vice versa; namely ITABC follows the whole process of diagnosis, knowledge, preservation, interpretation and communication of the cultural and virtual heritage.</p> <p>The Virtual Heritage Lab is a digital lab focused on digital projects in archaeology and in the cultural heritage. In the VHLab Desktop Virtual Reality applications in intra-site contexts (monuments, archaeological excavations) and in inter-sites contexts (archaeological landscapes) are developed. Different techniques are used (in activities such as survey, mapping, data managing and analyzing, archaeological sites and landscape reconstructions) in order to obtain Real Time Interactive 3Dimensional Virtual Reality environments.</p>
3. Max number of internships/year	2
4. Areas of host institution's expertise for internship proposals	<ul style="list-style-type: none"> • 3D models for real-time applications • web3d application development (webGL) • augmented reality application development • virtual reality applications development, including natural interaction (Unity 3d, OpenSceneGraph OSG4WEB)
5. Project description	The intern will be involved in the development of different virtual museums within "Keys to Rome" exhibition (final v-must exhibition)
6. Internship profile <i>"essential" and "preferred" skills and/or qualifications that applicants should have</i>	<p><i>Essential</i></p> <ul style="list-style-type: none"> • Degree in computer science or similar <p>And experience in one or more of the following:</p> <ul style="list-style-type: none"> • Virtual heritage • 3d modelling • Virtual Reality software development • Augmented Reality software development
7. Preferred period	January – July 2014
8. Min/max duration	8 – 24 weeks
9. Accommodation support	Free "hall of residence" for 1 month.
11. Facilities and Supervision	<i>Equipment:</i> access to the software/hardware necessary to develop the projects.
12. Contact Details of	

Supervisor.	
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