



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

### CINECA (Italy)

#### Cloud-based remote visualisation, Web-based large-scale visualisation and Digital Asset Management

<b>1. Name of the hosting institution</b>	CINECA
<b>2. Brief description of the unit hosting the internship</b>	<p>CINECA is a consortium of Italian universities and public research bodies, providing ICT and HPC services to the national scientific communities. Our facilities host the largest High-performance Computing (HPC) installations in Italy with various architectures.</p> <p>The Visualization LAB in the SCAI SuperComputing Applications and Innovation Department has been involved in scientific visualization and Cultural Heritage projects regarding immersive systems, VR, Remote and Web visualization. CINECA is providing data and computing services for the V-Must platform.</p>
<b>3. Max number of internships/year</b>	2
<b>4. Areas of host institution's expertise for internship proposals</b>	<ul style="list-style-type: none"><li>• Digital Asset Management for medium-scale projects (platform services, render farm integration, groupware collaboration tools, modelling pipeline integration, especially Blender)</li><li>• 3D digital format management tools,</li><li>• Cloud-based remote visualization services</li><li>• Web-based, large-scale visualization</li><li>• Deployment of cloud-based services for Cultural Heritage.</li></ul>
<b>5. Project description</b> <i>Brief description of any specific programme of work that the host wishes the intern to carry out (optional)</i>	
<b>6. Benefit to host</b> <i>Areas in which the host wishes to develop expertise through collaboration with an intern (optional)</i>	Mobile application development, photo modelling
<b>7. Internship profile</b> <i>Please indicate the "essential" and "preferred" skills and/or qualifications that applicants should have</i>	<p><i>Essential</i></p> <p>One or more of the following:</p> <ul style="list-style-type: none"><li>• ICT Service development skills (Python, PHP, Java, C++ programming)</li><li>• 3D modelling tools knowledge (Blender)</li><li>• OpenGL, Computer graphics knowledge</li></ul> <p><i>Preferred</i></p> <ul style="list-style-type: none"><li>• Mobile application development</li><li>• HPC experience</li></ul>
<b>8. Preferred period</b> <i>Please give the earliest possible</i>	April to September in 2012 2013 and 2014

<i>start date, and the latest possible end date for hosting interns</i>	
<b>9. Min/max duration</b> (usually between 12 and 24 weeks)	12 – 24 weeks
<b>10. Accommodation support</b> (where applicable)	In 2012 only, possible support from HPC-Europa programme (sourcing and reimbursement) <a href="http://www.hpc-europa.eu/?q=node/74">http://www.hpc-europa.eu/?q=node/74</a>
<b>11. Facilities and Supervision</b> <i>Please describe the workspace, equipment, training, supervision hours per week etc. that the host will provide</i>	Access to HPC environment (512 nodes GPU enabled facility), dev workstation, Various dev environment, Virtual theatre (a semi immersive VR installation), Available training on HPC systems, Python scripting, Blender
<b>12. Contact Details of Supervisor.</b> <b>a. Name:</b> <b>b. Address:</b> <b>c. E-mail:</b> <b>d. Telephone:</b>	Antonella Guidazzoli Via Magnenelli 6/3, Casalecchio di Reno Bologna Italy a. <a href="mailto:guidazzoli@cinca.it">guidazzoli@cinca.it</a> +39 051 6171411