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

CINECA (Italy)
Cloud-based remote visualisation, Web-based large-scale visualisation and Digital Asset Management

1. Name of the hosting institution	CINECA www.cineca.it
2. Brief description of the unit hosting the internship	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. 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.
3. Max number of internships/year	2
4. Areas of host institution's expertise for internship proposals	• Digital Asset Management for medium-scale projects (platform services, render farm integration, groupware collaboration tools, modelling pipeline integration, especially Blender) • 3D digital format management tools, • Cloud-based remote visualization services • Web-based, large-scale visualization • Deployment of cloud-based services for Cultural Heritage.
5. Project description *Brief description of any specific programme of work that the host wishes the intern to carry out (optional)*	**Development of V-MUST on line portal and services aimed at the development, sharing and storage of virtual museums.**
6. Internship profile *"essential" and "preferred" skills and/or qualifications that applicants should have*	*Essential* One or more of the following: • ICT Service development skills (Python, PHP, Java, C++ programming) • 3D modelling tools knowledge (Blender) • OpenGL, Computer graphics knowledge *Preferred* • Mobile application development • HPC experience
8. Preferred period	January 2014 – December 2014
9. Min/max duration	12 – 24 weeks
10. Accommodation support	If requested in advance there is the possibilty to host intern in shared flats (limited number)
11. Facilities and Supervision	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
12. Contact Details of Supervisor. **a. Name:** **b. Address:** **c. E-mail:** **d. Telephone:**	 Antonella Guidazzoli, Luigi Calori Via Magnenelli 6/3, Casalecchio di Reno Bologna Italy a.guidazzoli@cineca.it, l.calori@cineca.it +39 051 6171-411/509