



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

**Lund University (Sweden)**  
**Title: Computer Vision in Virtual Archaeology**

<b>1. Name of the hosting institution</b>	Lund University
<b>2. Brief description of the unit hosting the internship</b>	The VRLab, located at the Ingvar Kamprad Design Center, and the HumLab, located at the linguistic department. These two Labs are connected by several research projects and together provide instruments and technologies to acquire and visualize any archaeological or historical context.
<b>3. Max number of internships/year</b>	
<b>4. Areas of host institution's expertise for internship proposals</b>	<ul style="list-style-type: none"><li>• 3D modelling</li><li>• Laser scanner data post processing</li><li>• Computer vision</li><li>• Motion capture</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>	Post processing data coming from Laser scanner and computer vision in order to build VR systems for the communication and analysis of archaeological sites.
<b>6. Benefit to host</b> <i>Areas in which the host wishes to develop expertise through collaboration with an intern (optional)</i>	
<b>7. Internship profile</b> <i>Please indicate the "essential" and "preferred" skills and/or qualifications that applicants should have</i>	<i>Essential</i> Basic knowledge MeshLab  <i>Preferred</i> Basic knowledge of one or more of the following: <ul style="list-style-type: none"><li>• MeshLab</li><li>• Blender</li><li>• 3DStudioMax</li><li>• Unity 3D</li></ul>
<b>8. Preferred period</b> <i>Please give the earliest possible start date, and the latest possible end date for hosting interns</i>	August 2012 - July 2013
<b>9. Min/max duration</b> (usually between 12 and 24 weeks)	6 – 12 weeks
<b>10. Accommodation support</b> (where applicable)	None.
<b>11. Facilities and Supervision</b> <i>Please describe the workspace, equipment, training, supervision hours per week etc. that the</i>	<i>Workspace:</i> VRLab-HumLab (open-plan office)  <i>Hardware:</i> 1 Terrestrial Laser Scanner, 3 Triangulation Laser scanner, 2 CAVE Systems, 1 Motion Capture system, cameras and

<i>host will provid</i>	<p>lens (computer vision), 1 RTK GPS</p> <p><i>Software:</i> we have all the software necessary to develop the projects:</p> <p><i>Supervision:</i> 2 to 4 hours per week, depending on the requirements of the agreed project</p>
<p><b>12. Contact Details of Supervisor.</b></p> <p><b>a. Name:</b></p> <p><b>b. Address:</b></p> <p><b>c. E-mail:</b></p> <p><b>d. Telephone:</b></p>	<p>Nicolò Dell'Unto</p> <p>Sandgatan1, Box 117, 22100 Lund, Sweden</p> <p><a href="mailto:nicolo.dell_unto@ark.lu.se">nicolo.dell_unto@ark.lu.se</a></p> <p>+46 (0)46-222 31 86</p>