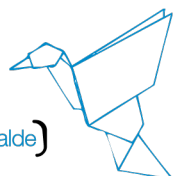


## BCAM Internship: Three-Dimensional Visualization of Crowd Dynamics in Urban Scenarios

The following BCAM Internship position is open at BCAM – Basque Center for Applied Mathematics, an interdisciplinary research center located in Bilbao, Basque Country – Spain.

The interested applicants can apply via the following webpage: <https://joboffers.bcamath.org/>

INTERNSHIP OFFER	
<b>Research topic:</b>	Three-Dimensional Visualization of Crowd Dynamics in Urban Scenarios
<b>Research line:</b>	CMD Modelling and Simulation
<b>Research topic description:</b>	<p>As an Intern at BCAM, you will embark on a unique opportunity to have a first contact with research and contribute to develop digital arts and 3D visualization techniques.</p> <p>The CFD-MS group is developing a software to simulate pedestrian dynamics in urban areas of the province of Biscay. The model aims at simulating massive events in the province to assess the mobility protocols and the potentially overcrowded areas. In that sense, it is essential to properly build the environment in which simulated agents move, as well as the animation of the pedestrians for a realistic visualization of the mobility.</p> <p>This internship will work on refining the imperfections of the current 3D versions of the geometries, extracted from Google Earth, and the imperfections in the animation of pedestrian movement.</p>
<b>Keywords:</b>	Pedestrian dynamics, Fine Arts, Digital Arts, Animation, 3D visualization, Unity and Blender
<b>Supervisor:</b>	Marco Ellero and Ander García
<b>Required knowledge and skills:</b>	Digital Arts, 3D visualization, Unity, Blender or similar tools.
<b>Duration and dates:</b>	4 months; from 1 <sup>st</sup> February to 31 <sup>st</sup> May (flexible depending on the intern circumstances)
<b>Conditions:</b>	<ul style="list-style-type: none"> <li>• <b>Living in the Basque Country:</b></li> </ul>



	<ul style="list-style-type: none"><li>- Graduate students: net salary of 300 € monthly</li><li>- Master's degree students/ PhD students: net salary of 350 € monthly<ul style="list-style-type: none"><li>• <b>Living in Spain:</b></li></ul></li><li>- Graduate students: net salary of 500 € monthly + 150 € for travel expenses</li><li>- Master's degree students/ PhD students: net salary of 600 € monthly + 150 € expenses for travel.</li> <li>• <b>Living outside Spain:</b></li><li>-No remuneration.</li><li>-Accommodation is covered by BCAM.</li><li>-Travel expenses are covered and to be reimbursed:<ul style="list-style-type: none"><li>○ Up to 300 €, if the intern comes from the EU</li><li>○ Up to 1000 €, if the intern comes from outside of the EU (to be checked on each country)</li></ul></li></ul>
<b>Application deadline:</b>	<b>January 31st, 2025</b>



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