Position Offered: UNIVERSITY GRADUATE

Project: *Development of advanced digital skills for the virtualization of archaeological heritage: from documentation to social communication*

Technological and scientific fields: Digital Humanities, virtual and augmented reality, digital twins, data analysis and integration, computer vision, 3D printing.

Location: Mérida, Extremadura, Instituto de Arqueología, http://www.iam.csic.es/

Research Group/PI: Archeology of Architecture and Territory; Victorino Mayoral (PI1) & Elías López-Romero (PI2)

PROJECT SUMMARY

The objective of the project is the creation of a technical profile specialized in the production and integration of digital data to generate virtual environments that serve as innovative tools in the process of capturing, analyzing and communicating archaeological information, while allowing progress in the design of tools that facilitate the fusion of large volumes of information. The development of data visualization and analysis techniques through mixed and augmented reality is sought for scientific and educational communication purposes.

PROFESSIONAL PROFILE

Minimum requirements:

- We are looking for a profile that combines a solid training base in archeology with a specialization in virtualization of cultural heritage.
- Required academic qualification: Graduate in Archeology.
- Postgraduate degree in new technologies applied to heritage (master's degree, postgraduate degree, etc.)
- Demonstrable experience in heritage virtualization projects and production of Virtual Reality (VR) applications.
- Demonstrable experience in the use of specialized software (Unity, Blender, Agisoft Metashape).

Merits to be considered:

- Knowledge of 3D documentation using photogrammetric techniques of archaeological materials and structures.
- Mastery of Unity software game engines; 3D modeling and texturing in Blender software.
- Experience in archaeological excavations and Cataloging of archaeological materials.
- Scientific contributions (publications, conferences, seminars) on issues related to 3D documentation and virtualization of heritage.

WHAT IS OFFERED

The IAM develops its activity at a regional, national and international level (North Africa, Europe and America). The project is proposed as a transversal approach for the entire Institute, which will have a very positive effect on the professional training and qualification of the person hired by putting them in contact with a great diversity of issues and approaches in the field of archeology and heritage. The Training Plan includes a total of 267.68 ECTS credits (supervised/autonomous work, stays and training courses).

Contract conditions:

Indefinite contract for a University Graduate associated with the Momentum Project of 4 years' duration according to Spanish science law. Gross annual salary (37.000 € - 41.000 €).

Start of contract: before 31 December 2024

PRINCIPAL INVESTIGATOR CONTACT

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