Position Offered: UNIVERSITY GRADUATE

Project: *Development of digital technologies and processes for the integrated management of archaeological information at CSIC*

Technological and scientific fields: Digital Humanities, Data Analysis and Integration, Climate Change and Biodiversity

Location: Madrid, Comunidad de Madrid, Instituto de Historia del CSIC (https://ih.csic.es/es)

Research Group/PI: Conexión de Arqueología - ArchaeologyHub, Ignacio Montero, https://archaeologyhub.csic.es/

PROJECT SUMMARY

CSIC is one of the main archaeological research organizations in Spain at national and international level. The ArchaeologyHub scientific network gathers 280 people from 47 research groups belonging to 25 Research Institutes across Spain. The Hub has generated a huge volume of archaeological data in recent decades, whose management in accordance with the FAIR principles is essential for maintaining the Open Science principles assumed by CSIC. The CSIC already has a platform with potential for this purpose: the IDEArq Archeology Spatial Data Infrastructure (http://www.idearqueologia.org/). The objective of the project is to develop technological support for the expansion of IDEArq as a transversal platform for the data and research results of all the groups and laboratories that are members of ArchaeologyHub. These objectives require a Full Stack development process of CRUD (Create, Read, Update, Delete) type web applications on databases, which includes both the design of user interfaces (front end) and the implementation and maintenance of the internal architecture of the site (back end). The work will be carried out in the facilities of the Institute of History of the CSIC, with access to the infrastructure of the Center for Human and Social Sciences (CCHS-CSIC), and in close contact with the research groups and laboratories integrated into ArchaeologyHub.

PROFESSIONAL PROFILE

Minimum requirements:

Graduates in Computer Engineering, Data Science and Artificial Intelligence, Geospatial Information Technology Engineering, Geomatics Engineering or equivalent.

Merits to be considered:

Knowledge in: Geographic Information Systems; Webmapping (e.g. OpenLayers); programming languages, both client (JavaScript) and server (Python, PHP); SQL databases (PostgreSQL + PostGIS); UML (Unified Modeling Language).

WHAT IS OFFERED

Advanced training in Digital Skills in the field of Humanities and, in particular, in Archaeology, including a master's degree during the first year of the contract (60ECTS), completion of complementary courses on Data management plans, institutional repositories, technical skills (programming, SQL databases, etc.) (20ECTS in total). In the second and third year, training stays of one and a half months each in leading units in the scope of the project (uSIGyHD-CCHS, and Archeology Data Service of the University of York, United Kingdom).

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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