

CYPRUS UNIVERSITY OF TECHNOLOGY - ANNOUNCEMENT OF ACADEMIC POSITION

Applications are invited from candidates who possess the necessary qualifications in order to fill one (1) full time Experience Researcher (ERs)/ post-doctoral Research Associate at the newly established UNESCO and European Research Area Chairs on Digital Cultural Heritage within the Digital Heritage Research Laboratory (DHRLab) of the Cyprus University of Technology (CUT) in the research field of *Digital Heritage and Cultural Informatics*.

The selected scientist will work for an initial period of twenty-nine (27) months within the EU H2020 ERA Chair ‘Mnemosyne Project’, a unique EU-funded programme, as team leader, beginning from September 2021. He/her will help design, refine and deliver a structured and coherent three-phase research programme under the supervision of the ERA and UNESCO Chair holders, in order to achieve its objectives in the Holistic Documentation life cycle for digital heritage and to establish a programme of structural change and support at CUT which enables the outcomes of the research programme. He/her will thus lead a small team focusing primarily on the definition and resolution of set of key challenges in the digital documentation life-cycle concerning, for example, aspects of:

- Data Acquisition
- Data Processing
- Modelling
- Knowledge Management
- Preservation and
- Use and reuse.

Position:

The ERA Chair researchers will be recruited by the host organization of the Cyprus University of Technology in Limassol, Cyprus under a full employment contract with the possibility of extension (earliest day for the start of contract: beginning on September 2021). The researcher will work closely together with the Director of Digital Heritage Research Lab at CUT and the teams of the UNESCO and ERA Chair on Digital Cultural Heritage and be responsible for the planned Research / Innovation topics and areas.

The Applicant should:

1. Have completed at least a four or five-year education cycle (e.g. Diploma in Engineering, Master’s Degree etc) from a recognized university in Geomatics, Computer- / Electrical Engineering Computer Science, Surveying Engineering and/or Social sciences / Humanities and has a completed Phd degree and/or with more than four (4) years of

continuous full-time research experience in the fields below, with excellent programming skills and very good language and communication / implementation skills,

2. Possess excellent knowledge of the English language at a proficiency level (spoken and written).

An outline of the research topics under consideration includes:

A. Holistic structures and Standardisation

- definition and creation of holistic documentation ‘pipelines’ for specific user communities;
- creation of standards for 3D documentation and knowledge management.

B. DCH Data Acquisition

- advanced digitisation and approaches such as mass, crowdsourced and on-demand digitisation;
- methods for crowdsourcing content and allowing user-generated content for DCH in the cloud on cloud-computing for DCH, e.g. by leveraging popular photography;
- the use of UAVs and related technologies in capturing documentation;
- automated metadata extraction and crowd;
- realizing the potential of big data management and opportunities created by the vast volume, variety and velocity of mainly unstructured new data, generated every day most for finding and using previously inaccessible European digital content;

C. DCH Data Processing

- user-oriented metadata and ontology standards for the description and exchange of DCH data;
- metadata designs especially of language-based data close to human conceptual systems and gaining insights from data in natural language;
- innovative tools and methods to extract meaning from digital artefacts, including Video Recordings, Audio Recordings, Digital images, Text, Multi-Spectral and Thermal information
- 3D representations of objects or scenes;
- generation and presentation of localized DCH content and its documentation to enhance audience value (in services such as Europeana.eu) for example through efficient and innovative acquisition and deployment of Geospatial Data.

Benefits

The yearly gross salary of the ERs is based upon qualifications and experience. From this amount employer and employee contributions to the Cyprus government funds will be deducted. A 13th monthly salary is incorporated into the monthly gross salary. In addition, health and social insurance will be funded by the project

About the hosting institution:

Cyprus University of Technology (CUT), was established by law in 2004, and enrolled its first students in 2007. With its orientation towards applied research, the University aspires to establish for itself a role in support of the state and society in their efforts to confront problems, which cover all areas of science and technology. CUT involvement in research can be recognized from the fact that within the last four years, projects with more than 30M Euro have been funded. CUT is an advanced University equipped with the most modern infrastructures and technological equipment which makes it possible to be the strongest on the island in research, with specialized units directed by distinguished professionals. The Digital Heritage Research Laboratory (DHRLab), established in 2013, is directed by Dr. Marinos Ioannides and already works in the digital and holistic documentation of Cultural Heritage Objects as well as contributing to national and European policies for DCH. Moreover, the Lab is very active in the areas of 3D Reconstruction and HBIM with a special focus on semantics and symbolic representation.

UNESCO Chair on Digital Heritage: The main scope of this unique Chair is to extend the successful work of the DHRLab and address a full range of key aspects of novel research and innovative developments such as:

- the e-documentation and analysis of cultural heritage data for both tangible and intangible heritage;
- technical areas, including 2D and 3D virtual environments (tangible and intangible), archives and collections management systems, web and museum based interactive applications and language technologies;
- non-technical areas, including testing, economic and social impact evaluation in support of the development of the cultural heritage sector and its opportunities in tourism, entertainment and education.

Applicants are requested to submit the following:

1. Detailed EuroPass - Curriculum Vitae in English – (see also: <https://europass.cedefop.europa.eu/documents/curriculum-vitae>),
2. Motivation Letter,
3. Official certified transcripts of grades from all academic institutions of higher education listed in his/her application, **certified copies of degrees, or/and certifications of fulfilment of the required obligations for entering a post graduate programme,**
4. Official certified copies of titles in English language,
5. Names and full address (including valid email) of three referees who, upon request, can provide recommendation letters.

Applications must be sent via email at: *HRrecruits@cut.ac.cy* with the subject:

“Application for ERA CHAIR - Experience Researcher (ERs)/ post-doctoral Research Associate Position – Department of Electrical and Computer Engineering and Informatics” no later than Monday 14th of Jun 12:00 2021 (noon) which is the deadline for the submission of the applications.

For further information please contact Dr. Marinos Ioannides (Director of the UNESCO Chair on Digital Cultural Heritage) at email marinos.ioannides@cut.ac.cy and telephone number +357-25-002020.

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