



United Nations  
Educational, Scientific and  
Cultural Organization



**CYPRUS UNIVERSITY OF TECHNOLOGY (CUT)**  
**DEPARTMENT OF ELECTRICAL and COMPUTER ENGINEERING and INFORMATICS**  
**UNESCO CHAIR on Digital Cultural Heritage**

**Full Time Marie Curie Early Stage Researcher Position (ESR) in the  
field of**

***Enrichment of 2D/3D Images and Data with Metadata  
and Semantics***

Applications are invited from candidates who possess the necessary qualifications in order to fill one (1) full time Marie S. Curie Early Stage Researcher (ESR) Fellow Position in the newly established UNESCO Chair on Digital Cultural Heritage / Digital Heritage Research Lab of the Cyprus University of Technology (CUT) in the research fields of ***Enrichment of 2D/3D Image and Data for volumetric models/objects with Metadata and Semantics***:

The selected Marie S. Curie ESR will work for eight (8) months within the ITN CHANGE Marie S. Curie ITN Project which, is the only EU funded programme bringing together eight (8) leading European Institutions as full beneficiaries and ten (10) other as partners in a transnational network, aiming at implementing a multidisciplinary and intersectorial research and training programme between the academic, research and the industrial partners.

**Description**

Cultural Heritage (CH) is an integral element of Europe and vital for the creation of a common European identity and one of the greatest assets for steering Europe's social, economic development and job creation. However, the current research training activities in CH are fragmented and mostly designed to be of a single-discipline, failing to cover the whole lifecycle of Digital Cultural Heritage (DCH) research, which is by nature a multi-disciplinary and intersectorial research agenda. The CHANGE project will train a new generation of early stage researchers towards a common goal, namely the assessment of changes of tangible cultural heritage (CH) objects and their monitoring in the atmosphere and/or during their conservation treatment using multimodal imaging techniques in complement to more traditional analytical techniques. Their research will consist in an optimised capturing of data and their analysis, visualisation and management to ensure a better documentation and long-term preservation of our common EU

CH. This work will be carried out within an interdisciplinary environment involving 5 CH and 4 Information & Communication Technologies (ICT) beneficiary institutions as well as 9 CH, ICT and industrial partners from 8 EU countries.

### **Position:**

One ESR to be recruited by the host organization of the Cyprus University of Technology in Limassol, Cyprus for the duration of eight (8) months under full employment contract. The fellow will work on: *Development of advanced metadata and semantic model for integrating: (1) Paradata of the acquisition technologies and historical and archaeological evidence of CH objects, (2) the argumentation leading to virtual reconstruction and discussing alternatives with the object owners/ stakeholders, (3) the connection of physical and social-historical, constructive, functional, aesthetic and environmental parameters, etc. with 2D/3D documentation of CH objects.*

### **Expected Results:**

*A contribution to the holistic e-documentation of 2D/3D CH objects: metadata, paradata, semantics, reflecting the interpretation and story of the CH asset.*

### **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, Surveying Engineering, Computer- / Electrical Engineering, Computer Science and/or Chemical Engineering, Architecture, Conservation/Preservation, Archaeology with less than four (4) years of continuous full-time research experience in the above fields, with excellent skills in one of the following areas such as 2D/3D Data Acquisition/Surveying Engineering, 2D/3D Computer Graphics, digital 2D/3D documentation of Cultural Heritage tangible objects, Artificial Intelligence, Big Data Analysis, Chemical Engineering Conservation/Preservation in Cultural Heritage and very good language and communication / implementation skills,
2. At the time of recruitment, not have resided (or carried out his/her main activity e.g. work, studies, etc.) in Cyprus, for more than 12 months in the last 3 years immediately prior to the reference recruitment date and
3. Excellent knowledge of the English language at a proficiency level (spoken and written)

### **Career Stage**

Early stage researcher or 0-4 years of experience (Post graduate) according to the H2020 Marie S. Curie Actions Regulations. Eligibility rules for the Marie S. Curie fellows can be found at the H2020 MSCA 2018-2020 Work programme:

<http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820->

## Research Profile

First Stage Researcher (R1)

## Benefits

- The monthly gross **salary** for this position will be 2,700.91 Euro. From this amount employer and employee contributions to the Cyprus government funds will be deducted (Note: the monthly gross **salary** after the deduction of employer contributions amounts to €2350.66 for 143.33 working hours per month). 13<sup>th</sup> salary is provided and has been incorporated into the monthly gross salary. ***In addition, the fellow will be entitled to family and mobility allowances, according to the regulations of the Marie S. Curie Actions Programme regulations.***  
***In total, the funding covers: (a) living/salary, (b) family allowance (€500 per month) for fellows with spouses or dependent children and (c) mobility allowance (€600 per month - no restrictions on what this is spent on),***
- In the context of a personal Career Development Plan, opportunities for international collaboration, attending outstanding conferences/events and exchanges to world-class academic and industrial partners will take place,
- Registration for a PhD at CUT / UNESCO Chair on Digital Cultural Heritage, Limassol, Cyprus,
- Training in a range of state-of-the-art scientific skills, intellectual property, project management skills and visiting GR language courses at the Language Center of the CY University of Technology and
- Secondment placements within the network's partners (up to max. 30/% of the training period).

For more details on the fellow salary and other benefits or eligibility criteria please refer to the [H2020 Marie S. Curie actions Work Programme 2018-20](#) and at the CHANGE project's website at <http://change-itn.eu/>

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 fulfillment of the required obligations for entering a graduate PhD 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,
6. Copies of any related research papers, or other significant achievements/work by the Applicant.

Applications must be sent via email at: [HRrecruits@cut.ac.cy](mailto:HRrecruits@cut.ac.cy) with the subject: “*Application for H2020 Marie S. Curie CHANGE Research Fellow Position (ESR)*” – Department Electrical and Computer Engineering and Informatics” no later than Sunday, 31<sup>st</sup> July 2022 which is the deadline for the submission of the applications.

For further information, please contact Dr. Marinos Ioannides at email [marinos.ioannides@cut.ac.cy](mailto:marinos.ioannides@cut.ac.cy) and telephone number +357-25-002020 or visit the website: <http://change-itn.eu/>.

**Start of the fellowship: 1<sup>st</sup> of September 2022**

#### Research Fields

Computer Science, Geomatics, Surveying, Archives, Libraries, Semantics, Ontology, Photogrammetry, Computer Vision, Computer Graphics, Big Data

#### **It is noted that the Cyprus University of Technology:**

- implements a policy of equal opportunities in the context of recruitment and in the subsequent stages of professional career and encourages individuals of both sexes to apply for this unique opportunity,
- does not discriminate on the basis of race, color, religion, gender, nationality, age, physical ability, marital status or sexual orientation,
- would like to register the fellow for a PhD course, which has a minimum duration of three years. This unique training activity is giving the opportunity to the fellow to be enrolled in a joint PhD with other project partners and continue her/his career at the host institution.