Full Time Marie Curie Early Stage Researcher Position in the fields of *Digital Cultural Heritage Documentation and Protection*

Applications are invited from candidates who possess the necessary qualifications in order to fill **one (1) full time Marie Curie Early Stage Researcher Fellow Position** (ESR) within the **School of Chemical Engineering Section III of Materials Science and Engineering Laboratory of Materials Science and Engineering at the National Technical University of Athens (NTUA) in the fields of Engineering, Chemical Engineering, Applied Mathematical and Physical Science for the "Quality control, durability and reliability of structural and building materials and works under environmental impact for Cultural Heritage".**

The selected Marie Curie ESR will work within the FP7-PEOPLE *ITN-Digital Cultural Heritage (ITN-DCH)* Marie Curie ITN Programme. ITN-DCH is a major EU funded programme which brings together fourteen (23) leading European partners in a transnational network, aiming at implementing a multidisciplinary and intersectorial research and training programme between the academic and the industrial partners in the fields of Digital Heritage documentation and Protection.

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 design 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. ITN-DCH aims for the first time worldwide that top universities, research centers, industries and CH stakeholders, end-users and standardized bodies will collaborate to train the next generation of researchers in DCH. The project aims to analyze, design, research, develop and validate an innovative multi-disciplinary and intersectoral research training framework that covers the whole lifecycle of digital CH research for a cost–effective preservation, documentation, protection and presentation of CH. ITN-DCH targets innovations that covers all aspects of CH ranging from tangible (books, newspapers, images, drawings, manuscripts, uniforms, maps, artifacts, archaeological sites, monuments) to intangible content (e.g., music, performing arts, folklore, theatrical performances) and their inter-relationships. The project aims to boost the added value of CH assets by re-using them in real application environments (protection of CH, education, tourism industry, advertising, fashion, films, music, publishing, video games and TV) through research on (i) new personalized, interactive, mixed and augmented reality enabled e-services, (ii) new recommendations in data acquisition, (iii) new forms of representations (3D/4D) of both tangible /intangible assets and (iv) interoperable metadata forms that allow easy data exchange and archiving.

Career Stage

Early stage researcher or 0-4 years of experience (Post graduate) – According to the FP7-PEOPLE (Marie Curie Actions) Regulations. Eligibility rules for the Marie Curie fellows can be found at the FP7-PEOPLE 2013 Work programme:
http://ec.europa.eu/research/mariecurieactions/documents/about-mca/actions/itn/marie-curie-actions-fellowships-people-wp-201301_en.pdf

Research Profile
First Stage Researcher (R1)

Position:
One ESR to be recruited by the host organization of the National Technical University of Athens (NTUA), Athens, Greece for the duration of 25 months under full employment contract. The fellow will work on:

- *Development of Innovative methodologies for computer aided cultural heritage protection*
- *Development of Innovative methodologies for computer aided cultural preservation*
- *Documentation of monuments including all the necessary information about materials, structural mechanics, historical records, storytelling: enrichment of metadata.*

The Applicant should:

- Have a Master Decree from a recognized university in Civil Engineering, Engineering and preferably on Chemical Engineering (protection of Cultural Heritage) with less than four (4) years of a continuous full-time research experience in the above fields, with excellent programming and language implementation skills,
- At the time of recruitment, not have resided (or carried out his/her main activity e.g. work, studies, etc.) in Greece, for more than 12 months in the last 3 years immediately prior to the reference recruitment date,
- Excellent knowledge of the English language at a proficiency level (spoken and written).

Benefits:

- Competitive salary to cover living, mobility costs and social insurance (according to the FP7-PEOPLE ITN2013 Marie Curie Actions Programme regulations).
- In the context of a personal Career Development Plan, opportunities for international collaboration and exchanges to world-class academic and industrial partners will take place (max. duration two months).
- Opportunity to register for a PhD at the NTUA, Athens, Greece, which closely collaborates with all other project partners.
- Training in a range of state-of-the-art scientific skills, intellectual property, project management skills and visiting GR language courses.

For more details on salary and other benefits please refer to the FP7-PEOPLE Marie Curie actions website at:
http://ec.europa.eu/research/mariecurieactions/careers_en.htm
and the FP7-PEOPLE ITN2013 work programme:
http://ec.europa.eu/research/mariecurieactions/documents/about-

mca/actions/itn/marie-curie-actions-fellowships-people-wp-201301_en.pdf

Applicants are requested to submit the following:

- Detailed Curriculum Vitae with all the copies of the awards,
- Letter of Motivation,
- 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,
- Official certified copies of all academic titles in English,
- Names of three referees who, upon request, can provide recommendation letters,
- Copies of any related research papers or other significant work by the applicant.

Applications must be submitted in a closed express courier envelope marked as **"Application for Marie Curie ITN-DCH Research Fellow Position" – Mrs Prof. Tonia Moropoulou**, School of Chemical Engineering Section III of Materials Science and Engineering Laboratory of Materials Science and Engineering, National Technical University of Athens (NTUA), Zografou Campus, 9, Iroon Polytechniou St., 15780 Zografou, Athens, Greece. Otherwise it **must be sent via registered post** with a clearly visible post office stamp of a date **not later than 1st of March 2014, 24:00 which is the deadline for the submission of the applications.**

Applicants are also requested to send their applications electronically to these email addresses amoropul@central.ntua.gr and marinos.ioannides@cut.ac.cy before the deadline of **1st of March 2014, 24:00**, however, **please note that the electronic submission alone will not be considered as a formal application unless** the printed application is received as requested in the previous paragraph.

For enquiries: **amoropul@central.ntua.gr and marinos.ioannides@cut.ac.cy**

Start of the fellowship: 1st of April 2014.