

## **Full Time Marie Curie Early Stage Researcher Position in the fields of 3D/4D data scalable for digital Cultural Heritage**

### **Description**

In the framework of the European Marie Curie Initial Training Network “FP7-PEOPLE ITN2013 ITN-DCH: Digital Cultural Heritage” the Institute for Photogrammetry of the University of Stuttgart, Germany is offering one Early Stage Researcher (ESR) position for post graduate students (m/f) interested in the area of the e-documentation and e-preservation in Cultural Heritage (CH).

ITN-DCH consists of 23 academic, research, industrial and CH stakeholders partners from 11 EU countries. The project aims to analyze, design, research, develop and validate an innovative multi-disciplinary and inter-sectorial research training framework, that covers the whole lifecycle of digital CH research for a cost-effective preservation, documentation, protection and presentation. ITN-DCH targets innovations that cover all aspects of CH ranging from tangible (books, newspapers, images, drawings, manuscripts, uniforms, maps, artefacts, archaeological sites, monuments) to intangible contents (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 (2D/3D/4D) of both tangible/intangible assets and (iv) interoperable metadata forms that allow easy data exchange and archiving..

The successful candidate will be an active member of a prestigious research team delivering advanced technologies for 2D&3D data acquisition, 2D/3D/4D data modeling and management/archiving using cloud services, 3D reconstruction and dissemination of deliverables.

### ***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 Geodesy & Geoinformatics, Geomatics, Computer-/Electrical Engineering, Computer Science and/or Surveying Engineering / Photogrammetry with less than four (4) years of continuous full-time research experience in the above fields, with excellent programming knowledge (C++, C, Java) and very good language and communication skills
2. At the time of recruitment, not have resided (or carried out his/her main activity e.g. work, studies, etc.) in Germany, for more than 12 months in the last 3 years immediately prior to the reference recruitment date.
3. Have excellent knowledge of the English language at a proficiency level (spoken and written)
4. Be able to present R&D results on project meetings, international conferences, to the public (outreach) and in scientific publications and to contribute to patent applications.

## 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](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)

#### Benefits

- In the context of a personal Career Development Plan, exchanges with all the European partners of the network will take place, each lasting 1 – 2 months. Also extended visits to other external project partners will be conducted for joint research activities. Furthermore the applicant will have the chance to visit several CH technology related scientific training summer schools and workshops and Complementary Skills seminars.
- Opportunity for carrying out a PhD thesis at the University of Stuttgart is offered.
- The position will be paid according to FP7-PEOPLE ITN2013 Marie Curie Programme rules for Early Stage Researchers, including the usual social benefits of Germany.
- The min. length of the employment contract will be 24 months from the start of employment.
- Training in a range of state-of-the-art scientific skills, intellectual property and project management skills and visiting German language courses.

**For more details on the fellow salary and other benefits/eligibility criteria, please refer to the FP7-PEOPLE Marie Curie actions website at:**

[http://ec.europa.eu/research/mariecurieactions/careers\\_en.htm](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](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:

1. Detailed 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 of three referees who, upon request, can provide recommendation letters
6. 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 FP7-PEOPLE Marie Curie ITN-DCH Research Fellow Position”* – Prof. Dieter Fritsch, Institute for Photogrammetry, University of Stuttgart, Geschwister-Scholl-Str. 24D, D-70174 Stuttgart, Germany.

Applicants are also requested to send their applications electronically to these email addresses [dieter.fritsch@ifp.uni-stuttgart.de](mailto:dieter.fritsch@ifp.uni-stuttgart.de), [eu@verwaltung.uni-stuttgart.de](mailto:eu@verwaltung.uni-stuttgart.de) and [marinos.ioannides@cut.ac.cy](mailto: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: [dieter.fritsch@ifp.uni-stuttgart.de](mailto:dieter.fritsch@ifp.uni-stuttgart.de)

Tel. +49-711-685-83201, -83386

**Start of the fellowship: April 1<sup>st</sup> 2014**

Please visit our website for further information– [www.ifp.uni-stuttgart.de/news/jobs](http://www.ifp.uni-stuttgart.de/news/jobs) or alternatively contact the Personnel Department, University of Stuttgart, Keplerstr. 7 D-70174 Stuttgart

The University of Stuttgart is committed to equality of opportunity and to selection on merit. It therefore welcomes applications from all sections of society and particular welcomes applications from people with disability.

**Research Fields**

**Photogrammetric and Geospatial Engineering, Geomatics - Computer science**