Research Assistant - PhD Student (3D Graphics and Tele-Immersion)

Open position for a PhD student in the area of tele-presence, virtual reality, computer vision, and 3D computer graphics at the University of Rostock. This position is for an Early Stage Researcher (ESR) in an EU-FP7 Marie Curie Actions Initial Training Network called DIVA: Data Intensive Visualization and Analysis.

The DIVA project is an international EU-FP7 Marie Curie Initial Training Network (ITN) with a focus on structured and collaborative research and teaching activities in Data Intensive Visualization and Analysis methodologies in data-driven science and technology application domains. DIVA involves three academic institutions (University of Zürich, University of Rostock and Chalmers Technical University), one research lab (CRS4) and two industrial partners (Diginext and Holografika).

Description

This open position is for an early-stage researcher, PhD student, specifically in computer science with a focus on interactive 3D graphics virtual reality, and computer vision. The open position is in the context of tele-immersion systems. The goal is to develop new tele-immersion technology to improve practical usability of collaborative virtual environments and apply them to tasks related to data intensive analysis and visualization. This includes research issues in multi-perspective video acquisition and perceptual display in large high-resolution display environments, exploiting modern parallel hardware and parallel computation frameworks such as CUDA and OpenCL.

On the part of the applicant, this requires interest no only in computer graphics and computer vision related algorithms and data structures, but also in the targeted applications. A strong interest in learning new programming frameworks and applied mathematics is necessary.

The main goal is to conduct excellent research, generating results which are published and presented in top international journals and conferences.

The advertised position is at the University of Rostock, Germany, which is not only the oldest university in the Baltic Sea region, but also the richest in tradition. Founded in 1419, it will soon celebrate its 600th anniversary and look back on a long tradition of educating students and doing research. The University of Rostock consists of nine traditional faculties and one central interdisciplinary faculty in which scientists and students from all faculties collaborate to do research in the four major fields of "Life, light and matter", "Maritime systems", "Aging sciences and humanities" and "Knowledge - Culture - Transformation". The University of Rostock belongs to the German universities with a very wide range of subjects. It offers more than 90 programs - 29 leading to a bachelor's and 38 to a master's degree and 26 finishing with a state examination. The Institute of Computer Science offers BSc, MSc, and PhD degrees in computer science, including an two-year MSc degree in Visual Computing.

The Visual Computing Group was established in 2007 and is located in the Campus Südstadt, in the new Konrad-Zuse Building. The Visual Computing Lab is equipped with a large high-resolution display wall with a resolution more than 50 megapixels, a 12-camera optical tracking system numerous color cameras and time-of-flight depth cameras.

The DIVA project involves frequent interactions, internships, workshops and summer schools with the other international network partners. Hence the workplace incorporates short stays at other research labs and companies in other European countries and cities (i.e. Switzerland, Italy, Germany, Sweden, France and Hungary).

Nr. Job Positions : 1

Research Fields

Computer science

Career Stage

Early stage researcher or 0-4 yrs (Post graduate)

Benefits

PhD students are remunerated according to EU-FP7 regulations for Marie Curie ITNs as well as according to local host regulations. The same applies for fringe benefits and vacation days.

Comment/web site for additional job details

For application and further information contact: Prof. Oliver Staadt, **oliver.staadt@uni-rostock.de (mailto:oliver.staadt@uni-rostock.de)**

Requirements

Required Education Level

Degree	Master Degree or equivalent
Degree Field	Computer science

Required Languages

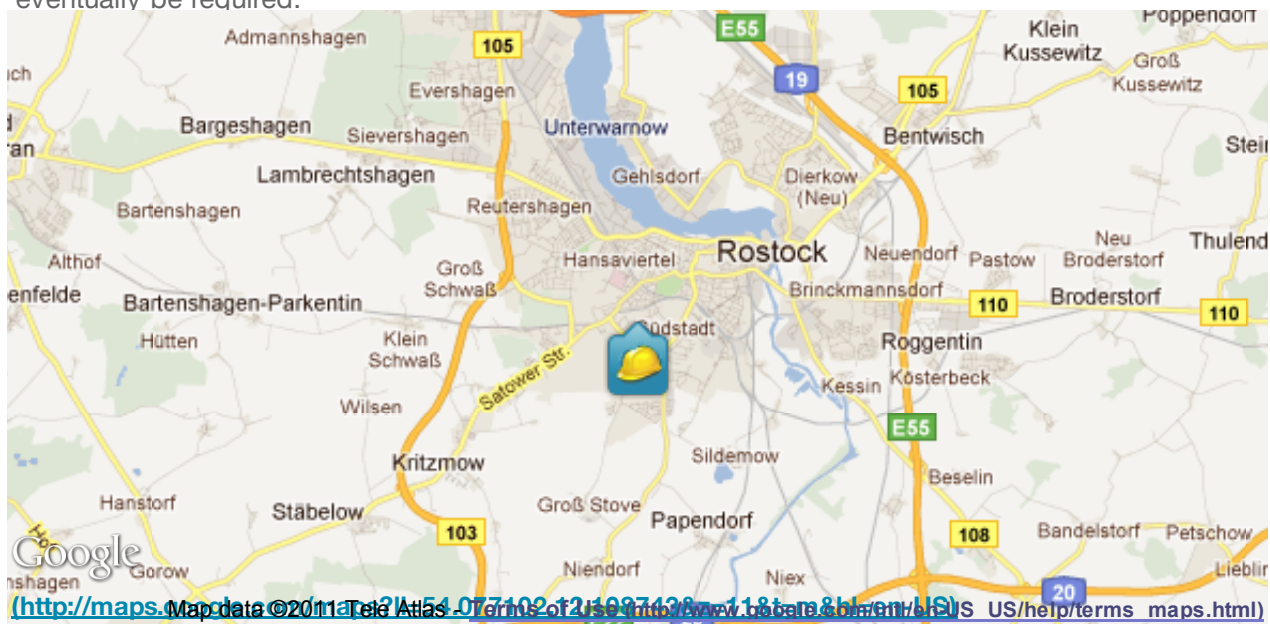|	
Language	ENGLISH
Language Level	Excellent
Language	GERMAN
Language Level	Basic

Additional Requirements

A MSc degree in computer science with a focus on 3D computer graphics or computer vision from an internationally recognized university is required.

Mobility rule: At the time of selection by the University of Rostock, researchers must not have resided or carried out their main activity (work , studies, etc) in Germany for more than 12 months in the 3 years immediately prior to the reference date.

Applications must include a detailed CV/resume, information of university level educational background and practical work experience in computer science, a short statement of motivation and clear exposition of prior graphics and visualization experience. Certified copies of transcripts, degrees and reference letters may eventually be required.

GET MORE! The EURAXESS Services Centres

To better plan and organise their stay in a foreign European country, researchers and their families can also benefit of the free and personalised assistance offered by the **EURAXESS Services Centres (http://ec.europa.eu/euraxess/index.cfm/services/networks)**, a network of more than 200 centres located in 37 different European countries.

Other job details

Job ID
33745690

Type of Contract
Temporary

Status
Full-time

Hours Per Week
40

Company/Institute
University of Rostock

Country
GERMANY

City

Rostock

Postal Code

18059

Street

Albert-Einstein-Str. 22

FP7 / PEOPLE / MarieCurie Actions

Research Framework Programme/
Marie Curie Actions

FP7/People - Marie Curie Actions

Company/Institute

University of Rostock

Institute of Computer Science
Academic
Albert-Einstein-Str. 22
- Rostock
GERMANY
email
oliver.staadt@uni-rostock.de (mailto:oliver.staadt@uni-rostock.de)
http://vcg.informatik.uni-rostock.de (http://vcg.informatik.uni-rostock.de)

Application details

Envisaged Job Starting Date

01/11/2011

Application Deadline

30/09/2011

Application e-mail

oliver.staadt@uni-rostock.de (mailto:oliver.staadt@uni-rostock.de)