2018-00316 - [GRAPHDECO] CTO/Industrial Postdoc

Level of qualifications required: Graduate degree or equivalent
Other valued qualifications: Ph.D.
Function: Temporary scientific engineer

About Inria
Inria, the French National Institute for computer science and applied mathematics, promotes “scientific excellence for technology transfer and society”. Graduates from the world's top universities, Inria's 2,700 employees rise to the challenges of digital sciences. With its open, agile model, Inria is able to explore original approaches with its partners in industry and academia and provide an efficient response to the multidisciplinary and application challenges of the digital transformation. Inria is the source of many innovations that add value and create jobs.

About the research centre or Inria department
The Inria Sophia Antipolis - Méditerranée center counts 37 research teams and 9 support departments. The center's staff (about 600 people including 400 Inria employees) is composed of scientists of different nationalities (250 foreigners of 50 nationalities), engineers, technicians and administrators. 1/3 of the staff are civil servants, the others are contractual. The majority of the research teams at the center are located in Sophia Antipolis and Nice in the Alpes-Maritimes. Six teams are based in Montpellier and a team is hosted by the computer science department of the University of Bologna in Italy. The Center is a member of the University and Institution Community (ComUE) “Université Côte d'Azur (UCA)”.

Assignment
She/he will be in charge of technology for the PicPlay startup project, which is based on the Image-Based Rendering research results developed by the REVES & GRAPHDECO Inria research teams. The technology builds on the following papers:

http://www-sop.inria.fr/reves/Basilic/2016/HRDB16/
http://www-sop.inria.fr/reves/Basilic/2016/TSPD16/
http://www-sop.inria.fr/reves/Basilic/2015/ODD15/
http://www-sop.inria.fr/reves/Basilic/2013/CDSD13/

The mission involves 40% research to solve remaining applied research questions that need to be resolved, in collaboration with the GRAPHDECO research group, 40% development of software for the startup assisting the lead developer and 20% business development, assisting the business developer/CEO. The successful candidate will lead the company's technical orientation during and after creation.

Main activities
This mission includes:

- Advancing applied research in Image-Based rendering, i.e. improving the rendering and scene processing algorithms.
- Developing C++ libraries and programs for the startup company
- Assisting in POC development and presentations

Skills
Required qualities (essential):

- Motivation for the discussed technology
- Highly Skilled, Autonomous

Required skills:

- **essential** – Knowledge of Computer Graphics and Computer Vision research
- **highly desired** – Programming language: C/C++, Knowledge of Computer Graphics / Computer Vision Development and OpenGL/GLSL

General Information
- Theme/Domain: Interaction and visualization
- Town/city: Sophia Antipolis
- Inria Center: CRI Sophia Antipolis - Méditerranée
- Starting date: 4/1/18
- Duration of contract: 12 months
- Deadline to apply: 3/2/18

Contacts
- Inria Team: GRAPHDECO
- Recruiter: Drettakis George / george.drettakis@inria.fr

Conditions for application
Application file: Applications must be submitted online on the Inria website. Collecting applications by other channels is not guaranteed.

Defence Security:
This position is likely to be situated in a restricted area (ZRR), as defined in Decree No. 2011-1425 relating to the protection of national scientific and technical potential (PPST). Authorisation to enter an area is granted by the director of the unit, following a favourable Ministerial decision, as defined in the decree of 3 July 2012 relating to the PPST. An unfavourable Ministerial decision in respect of a position situated in a ZRR would result in the cancellation of the appointment.

Recruitment Policy:
As part of its diversity policy, all Inria positions are accessible to people with disabilities.
Required Diploma and experience

- Preferably a Ph.D. (and minimum Master of Science or Engineering) in Computer Graphics or Computer Vision, with at least one component related to image-based rendering and/or multi-view stereo.

Benefits package

- Subsidised catering service
- Partially-reimbursed public transport
- Social security
- Paid leave
- Flexible working hours
- Sports facilities

Remuneration

From 2560 euros gross monthly (according to degree and experience)