
Level of qualifications required : PhD or equivalent
Fonction : Post-Doctoral Research Visit

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)".

Context
The goal of this postdoctoral fellowship is to rethink rendering algorithms by examining the inherent uncertainty of the input data and the rendering process itself. The topic is quite open and can focus either on examining uncertainty in "traditional" rendering algorithms (e.g., approximate global illumination) or on uncertainty in captured data (e.g., using geometry or materials captured from photographs or scanners), and algorithms such as image-based rendering (see our recent work [1-3]. Our methodology will be inspired by Uncertainty Quantification [4] and recent advances in machine learning [5].

Assignment

References

Main activities
The main responsibilities involve leading research projects on the defined topic, and projects in collaboration with Ph.D. students or supervising Masters interns.

General Information
- Theme/Domain : Interaction and visualization
- Town/city : Sophia Antipolis
- Inria Center : CRI Sophia Antipolis - Méditerranée
- Starting date : 2018-11-01
- Duration of contract : 1 year, 4 months
- Deadline to apply : 2018-05-27

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

The keys to success
We are searching for a candidate with a Ph.D. in Computer Graphics or Computer Vision (with an interest in image synthesis), with an established track record of top-level publications, preferably related to rendering.

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.

Conditions for application
Before to apply, and preferably before march 20, it is strongly recommended to contact the scientific in charge of this offer.

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
Skills
Expertise in developing graphics systems in C++ and OpenGL is required, as well as knowledge of computer vision systems (e.g., OpenCV). Knowledge of machine learning is a strong plus. The working language is English, so the candidate must be fluent and have excellent writing and presentation skills.

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

Remuneration
Gross Salary: 2650 brutto per month