



**Offer #2019-02086**

## **Post-Doctoral Research Visit F/M Post-Doctoral Position : Analysis of 3D Scenes for an AI Startup Project**

**Contract type :** Fixed-term contract

**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 34 research teams as well as 8 support departments. The center's staff (about 500 people including 320 Inria employees) is made up of scientists of different nationalities (250 foreigners of 50 nationalities), engineers, technicians and administrative staff. 1/3 of the staff are civil servants, the others are contractual agents. The majority of the center's research teams are located in Sophia Antipolis and Nice in the Alpes-Maritimes. Four teams are based in Montpellier and two teams are hosted in Bologna in Italy and Athens. The Center is a founding member of Université Côte d'Azur and partner of the I-site MUSE supported by the University of Montpellier."

### **Assignment**

We are seeking a full-time Postdoctoral Researcher or an experienced Research Engineer to join the Titane research team (<https://team.inria.fr/titane/>) at INRIA Sophia Antipolis Research Center in South of France. We are offering a 1 year-renewable contract.

You must have a strong expertise in 3D meshing, analysis of 3D shapes, linear algebra and statistics, as well as excellent C++ and Python programming skills. Being familiar with a 3D modeling and rendering software such as Maya, 3DSMax or Houdini and an experience in physically-based rendering would be a nice-to-have.

During this postdoc you will be in charge of developing robust and efficient methods to automatically analyze the distribution of objects within complex 3D scenes. For example, you will be able to automatically learn the spatial relationship between objects in order to generate realistic scenes. You can work autonomously once the objectives are clearly defined. You also have great team working skills.

At the end of this postdoc and depending on the quality of the results produced, you will have the opportunity to integrate one of the most innovative and promising early-stage startups in AI, spinoff of INRIA, with an attractive package (long term contract, competitive salary, stock options and various benefits).

Enquiries may be addressed to Dr Pierre Alliez ([pierre.alliez@inria.fr](mailto:pierre.alliez@inria.fr)) and to Dr Florent Lafarge ([florent.lafarge@inria.fr](mailto:florent.lafarge@inria.fr)). Please provide a CV and a short covering letter/supporting statement, including a brief statement of your interests and describing how past experience and future plans fit with the advertised position.

### **Skills**

You must have a strong expertise in 3D meshing, analysis of 3D shapes, linear algebra and statistics, as well as excellent C++ and Python programming skills. Being familiar with a 3D modeling and rendering software such as Maya, 3DSMax or Houdini and an experience in physically-based rendering would be a nice-to-have.

### **Benefits package**

- Restauration subventionnée
- Transports publics remboursés partiellement
- Congés: 7 semaines de congés annuels + 10 jours de RTT (base temps plein) + possibilité d'autorisations d'absence exceptionnelle (ex : enfants malades, déménagement)
- Possibilité de télétravail (après 6 mois d'ancienneté) et aménagement du temps de travail
- Équipements professionnels à disposition (visioconférence, prêts de matériels informatiques, etc.)
- Prestations sociales, culturelles et sportives (Association de gestion des œuvres sociales d'Inria)
- Accès à la formation professionnelle
- Sécurité sociale

## Remuneration

Gross Salary: 2653 € per month

## General Information

- **Theme/Domain** : Interaction and visualization  
Scientific computing (BAP E)
- **Town/city** : Sophia Antipolis
- **Inria Center** : [Centre Inria d'Université Côte d'Azur](#)
- **Starting date** : 2020-01-01
- **Duration of contract** : 1 year
- **Deadline to apply** : 2020-03-31

## Contacts

- **Inria Team** : [TITANE](#)
- **Recruiter** :  
Lafarge Florent / [Florent.Lafarge@inria.fr](mailto:Florent.Lafarge@inria.fr)

## About Inria

Inria is the French national research institute dedicated to digital science and technology. It employs 2,600 people. Its 200 agile project teams, generally run jointly with academic partners, include more than 3,500 scientists and engineers working to meet the challenges of digital technology, often at the interface with other disciplines. The Institute also employs numerous talents in over forty different professions. 900 research support staff contribute to the preparation and development of scientific and entrepreneurial projects that have a worldwide impact.

**Warning** : you must enter your e-mail address in order to save your application to Inria. Applications must be submitted online on the Inria website. Processing of applications sent from other channels is not guaranteed.

## Instruction to apply

### 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.