**2018-00871 - Postdoc in tensor computations**

**Contract type:** Public service fixed-term contract  
**Level of qualifications required:** PhD or equivalent  
**Function:** Post-Doctoral Research Visit

**Context**  
Part of activities of Inria Alpines

**Assignment**  
The successful candidate will conduct research on tensor computations with a focus on tensor decompositions and associated kernels. The goal is to develop communication avoiding techniques for those operations that are able to significantly reduce communication and are suitable for future and emerging large scale computers.

**Main activities**  
The algorithms developed will be validated on applications from scientific computing and action recognition in video streams.

**Skills**  
The candidate should have a PhD in applied mathematics or computer science and expertise in numerical linear algebra and/or high performance computing. Expertise in tensor computations is a plus.

**Benefits package**  
- Subsidised catering service  
- Partially-reimbursed public transport

**Remuneration**  
Poste localisé Paris 12ème.  
Rémunération selon profil et expérience.

**General Information**

- **Theme/Domain:** Distributed and High Performance Computing  
- **Scientific computing (BAP E)**  
- **Town/City:** Paris  
- **Inria Center:** CRI de Paris  
- **Starting date:** 2018-09-01  
- **Duration of contract:** 12 months  
- **Deadline to apply:** 2018-07-31

**Contacts**

- **Inria Team:** ALPINES  
- **Recruiter:** Grigori Laura / laura.grigori@inria.fr

**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**

**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). Authorization 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.

**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.