Offer #2024-07809

Post-Doctoral Research Visit F/M Synchronisation Avoiding Modified Conjugate Gradient method

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

**Context**

The project is part of the Inno4Scale project and is in collaboration with WIKKI Germany.

**Assignment**

The planned work consists in implementing, testing and improving new Synchronisation Avoiding Modified Conjugate Gradient method that have been designed as part of the Inno4Scale.

**Main activities**

In addition to the work on the algorithms themselves, the candidate will help in defining the test cases that will be considered both in terms of applications and of targeted hardwares.

**Skills**

Efficiency in MPI and scientific computing

**Benefits package**

- Subsidized meals  
- Partial reimbursement of public transport costs  
- Leave: 7 weeks of annual leave + 10 extra days off due to RTT (statutory reduction in working hours) + possibility of exceptional leave (sick children, moving home, etc.)  
- Possibility of teleworking and flexible organization of working hours  
- Professional equipment available (videoconferencing, loan of computer equipment, etc.)  
- Social, cultural and sports events and activities

**General Information**

- **Theme/Domain:** Distributed and High Performance Computing  
  Scientific computing (BAP E)  
- **Town/city:** Paris  
- **Inria Center:** Centre Inria de Paris  
- **Starting date:** 2024-10-01  
- **Duration of contract:** 5 months  
- **Deadline to apply:** 2024-07-31

**Contacts**

- **Inria Team:** ALPINES  
- **Recruiter:** Nataf Frederic / Frederic.Nataf@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.

The keys to success

Good knowledge in parallel computing and scientific computing.

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.