2019-01469 - Post-Doctoral Research Visit F/M NFV

APPLICATION DESIGN

Type de contrat : CDD de la fonction publique
Niveau de diplôme exigé : Thèse ou équivalent
Fonction : Post-Doctorant

A propos du centre ou de la direction fonctionnelle

Inria is a national research institute dedicated to digital sciences that promotes scientific excellence and transfer. Inria employs 2,400 collaborators organised in research project teams, usually in collaboration with its academic partners.

This agility allows its scientists, from the best universities in the world, to meet the challenges of computer science and mathematics, either through multidisciplinarity or with industrial partners. A precursor to the creation of Deep Tech companies, Inria has also supported the creation of more than 150 start-ups from its research teams.

Inria effectively faces the challenges of the digital transformation of science, society and the economy.

Contexte et atouts du poste

This postdoc is in the framework of Nokia Bell Labs - Inria joint lab.

The research activity will be carried out at Nokia Bell Labs Paris/Saclay, but periodic visit to Inria Sophia Antipolis Méditerranée may be envisaged.

Nokia is a global leader in creating the technologies at the heart of our connected world. Powered by the research and innovation of Nokia Bell Labs, Nokia serves communications service providers, governments, large enterprises and consumers, with the industry’s most complete, end-to-end portfolio of products, services and licensing. From the enabling infrastructure for 5G and the Internet of Things, to emerging applications in virtual reality and digital health, Nokia is shaping the future of technology to transform the human experience.

Nokia Bell Labs France, the French Nokia Bell Labs center and the second in size, is located in Nokia Paris Saclay, in Nozay close to Paris, as well as in Lannion. The Nokia Paris Saclay is a large R&D location open to its ecosystems and partners, and is located in the vicinity of Paris-Saclay campus. Nokia Bell Labs France is covering research on III-V photonics devices, optical transmission and signal processing, IP and optical networking, end to end mobile network solutions, software defined wireless networks, networks algorithms and control, cyber security, analytics, machine learning and mathematics of complex dynamic networks. Nokia Bell Labs France hosts also the “Nokia Innovation Platform”, and a team in charge of maturation of research results, and “Le Garage”, a dedicated space that fosters the “start-up” spirit. As part of the open innovation strategy of Nokia Bell Labs, Nokia Bell Labs France is also highly active in collaborative programs, research partnerships, and joint research laboratories such as the long-lasting “Common Lab” partnership with Inria to which this opportunity belongs.

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How to apply:

Applications will be evaluated on a rolling basis. Starting date could be as early as May 2019.

Send to Fabio Pianese (fabio.pianese@nokia-bell-labs.com) and Giovanni Neglia (giovanni.neglia@inria.fr) your application containing:

- CV
- Motivation letter
- PhD thesis if already completed,
- Your most representative publication
- Contact information of potential referrers

Mission confiée

In the context of the ongoing research activity at Bell Labs, described in recent publications from Nokia research group [5] [10], the postdoc collaborator will work on the definition, implementation, and experimental evaluation of high-performance modular NFV techniques.

The applications being considered are the following:

- Carrier-grade middle-box applications, possibly with security-related objectives;
- Flow-level traffic processing, e.g., TCP gateways and other per-connection solutions to enhance performance of mobile networks with a focus on 5G mobile back-haul;
- Low-latency processing of radio samples from remote antennas for 5G front-haul;
- Datacenter applications handling high-throughput flows and IO intensive functions;
- Enterprise networks and virtual Customer Premise Equipment (vCPE);
- User device support (NFV capabilities installed in users' gateways/set-top boxes, ...).

Informations générales

- Thème/Domaine : Réseaux et télécommunications
- Système d’information (SAP E)
- Ville : Paris
- Centre Inria : CRI Sophia Antipolis - Méditerranée
- Date de prise de fonction souhaitée : 2019-05-01
- Durée de contrat : 1 an, 6 mois
- Date limite pour postuler : 2019-10-31

Contacts

- Equipe Inria : NEO
- Recruteur : Neglia Giovanni
  giovanni.neglia@inria.fr

A propos d’Inria

Inria, l’institut national de recherche dédié aux sciences du numérique, promeut l’excellence scientifique et le transfert pour avoir le plus grand impact. Il emploie 2400 personnes. Ses 1000 équipes-projets agiles, en général communes avec des partenaires académiques, impliquent plus de 3000 scientifiques pour relever les défis des sciences informatiques et mathématiques, souvent à l’interface d’autres disciplines. Inria travaille avec de nombreuses entreprises et a accompagné la création de plus de 160 start-up. L’institut s’efforce ainsi de répondre aux enjeux de la transformation numérique de la science, de la société et de l’économie.

Consignes pour postuler

Application file: Applications must be submitted online on the Inria website.

Collecting applications by other channels is not guaranteed

Sécurité défense :

Ce poste est susceptible d’être affecté dans une zone à régime restrictif (ZRR), telle que définie dans le décret n°2011-1425 relatif à la protection du potentiel scientifique et technique de la nation (PPST). L’autorisation d’accès à une zone est délivrée par le chef d’établissement, après avis ministériel favorable, tel que défini dans l’arrêté du 03 juillet 2012, relatif à la PPST. Un avis ministériel défavorable pour un poste affecté dans une ZRR aurait pour conséquence l’annulation du recrutement.

Politique de recrutement :

Dans le cadre de sa politique diversité, tous les postes Inria sont accessibles aux personnes en situation de handicap.
The postdoc will build on our on-going work and the performance evaluation will be carried out by means of system simulations (NS3 simulator) and of experimental evaluation (using the Grid5000 and/or PlanetLab testbed platforms).

The candidate(s) will collaborate with researchers working in other Bell Labs locations, may interact with Nokia Business Groups, and is expected to contribute to scientific papers and to the development of our system infrastructure. The duration of this postdoc is 18 months.


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**Principales activités**

**Research activity**

**Avantages**

- 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 (after 6 months of employment) and flexible organization of working hours
- Professional equipment available (videoconferencing, loan of computer equipment, etc.)
- Access to vocational training
- Social, cultural and sports events and activities
- Social security coverage

**Rémunération**

Gross Salary: 2650 brutto per month