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 I/O intensive functions;
- Enterprise networks and virtual Customer Premise Equipment (vCPE);
- User device support (NFV capabilities installed in users’ gateways/set-top boxes, ...).

About the research centre or Inria department

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.

Context

This position 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.

The research activity will be carried out at Nokia Bell Labs 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 “startup” 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

Instruction to apply

Application file: Applications must be submitted online on the Inria website. Collecting applications by other channels is not guaranteed.

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 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.
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.


Main activities
Research activity

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

Remuneration
Gross Salary: 2650 brutto per month