The applications being considered are the following:

Carrier-grade middle-box applications, possibly with security-related carriers or services.

In the context of the ongoing research activity at Bell Labs, described in recent publications from Nokia research group [9] [10], the postdoc collaborator will work on the definition, implementation, and experimental evaluation of high-performance modular NFV techniques.

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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, ...).

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