

# Researcher in CyberSecurity

## Bell Labs

Pays : France

Site : Lannion

Permanent Contract

Ref : 16000001EY

Nokia is a global leader in the technologies that connect people and things. With state-of-the-art software, hardware and services for any type of network, Nokia is uniquely positioned to help communication service providers, governments, and large enterprises deliver on the promise of 5G, the Cloud and the Internet of Things. Serving customers in over 100 countries, our research scientists and engineers continue to invent and accelerate new technologies that will increasingly transform the way people and things communicate and connect.

Powered by the innovation of Nokia Bell Labs, the company is at the forefront of creating the technologies that are increasingly at the heart of our connected lives. Nokia Bell Labs mission is to define the future of communications and networking and deliver disruptive innovations that redefine human existence and business realities.

## Role description

As per our overall Nokia strategy, we are expanding the Security Research Department in order to tackle various fundamental and applied security challenges. We are searching for senior security researchers with at least three of the following skills to join our team :

- Network and SDN security
- Telecommunication security
- Systems and OS security
- Virtualization and Cloud security
- Intrusion Detection & Response
- Attack and threat modeling
- Security metrics and Models

Your role :

- Identify new and ambitious research challenges, define research projects to address these challenges, and lead the execution of these projects with other researchers.
- Publish research results in major scientific venues worldwide, including top conferences and journals.



- Collaborate with other researchers in Bell Labs, and maintain strong relationships with external partners in the research community.
- Partner with Nokia business units to transfer research results into products.
- Generate intellectual property through patenting novel ideas and mechanisms.
- Conduct experimentations, produce prototypes and proof-of-concepts.
- Mentor junior members and PhD interns.

## Qualifications

Candidates must hold a PhD in information security, computer science, computer engineering, or related field (e.g. Mathematics, Physics, and Telecommunications).

Minimum 5 years of relevant experience in similar role.

A proven track record of research publications in major international conferences and/or top-notch journals is required (commensurate with the candidate's seniority).

Candidates are expected to have the ability to conduct independent research while also contributing to team-oriented projects that often span across multiple Bell Labs sites.

Strong written and verbal communications skills in English are a must.

## Application

In order to apply, please, send your CV and publication record to : [delphine.izanic@nokia.com](mailto:delphine.izanic@nokia.com) (with ref. of the job).

More information on [www.nokia.com/carrers](http://www.nokia.com/carrers) or [www.bell-labs.com](http://www.bell-labs.com)

# 5G Wireless Researcher – End2End Mobile Network

## Bell Labs

Country : France

City : Lannion

Permanent contract

Ref : 1700000HUR

Nokia Bell Labs conducts research in a wide variety of topics, ranging from leading wireless and optical fiber technologies, to cloud-based and highly distributed computing, to fundamental physics, mathematics and computing. It is the birthplace of the transistor, information theory, cellular networking, Unix and C, and many other fundamental technological discoveries and inventions. Bell Labs researchers have won 8 Nobel Prizes, 3 Turing Awards, and several National Medals of Science and of Technology and Innovation.

With state-of-the-art software, hardware and services for any type of network, Nokia is uniquely positioned to help communication service providers, governments, and large enterprises deliver on the promise of 5G, the Cloud and the Internet of Things. Serving customers in over 100 countries, our research scientists and engineers continue to invent and accelerate new technologies that will increasingly transform the way people and things communicate and connect.

## Role description

Nokia Bell Laboratories is seeking a researcher to participate in our teams defining the global 5G network, developing protocols, standards and architecture solutions. The candidate should have proven knowledge on end-to-end mobile network architectures and strong research skills with analytical/theoretical capabilities and simulation or prototyping experience. Successful candidates are expected to solve complex problems, analyzing and proving the benefits of the concepts, evaluate their performance and contribute to the standardization of these concepts in standardization bodies like 3GPP.

Main duties and responsibilities:

- developing and analyzing user-plane and control-plane concepts for 5G,
- user-plane and control-plane related modeling and simulations,



- designing protocols for 5G, considering the complexity of the emerging 5G specifications,
- developing radio resource management concepts,
- supporting our standardization efforts with leading research contributions.

## Qualification

- MSc or PhD or similar documented expertise in electrical engineering, communications engineering, physics, or a related discipline
- Very strong analytical skills and eager to find innovative/disruptive solutions to problems
- Sound understanding of state-of-the-art wireless communication systems.
- Knowledge in E2E network architectures, networking protocols and radio resource management
- Experience in mobile system simulations.
- Proven skills in programming.
- Self-motivated, passionate and hands-on
- Strong written and verbal communication skills, can express him/herself fluently in English

## Application

In order to apply, please, send your CV and publication record to : [delphine.izanic@nokia.com](mailto:delphine.izanic@nokia.com) (with ref. of the job)

More information on [www.nokia.com/careers](http://www.nokia.com/careers) or [www.bell-labs.com](http://www.bell-labs.com)