

SENIOR RESEARCH SOFTWARE ENGINEER

Software Systems Research
Nokia Bell Labs
Antwerp (BE) or Stuttgart (DE)

Help us shape the future of software systems

NOKIA AND BELL LABS

Nokia is a global leader in the technologies that connect people and things. Powered by the pioneering work of Bell Labs, our research and innovation division, and Nokia Technologies, we are at the forefront of creating and licensing the technologies that are increasingly at the heart of our connected lives. Nokia Bell Labs is internationally renowned as the birthplace of modern information theory, the transistor, the laser and the UNIX operating system.

SOFTWARE SYSTEMS RESEARCH DEPARTMENT

The Software Systems Research department is an international team of research scientists working at the intersection of software systems and software engineering research. The team's mission is to shape the future of software systems, from creation to execution. The team is based primarily in Antwerp, Belgium and Stuttgart, Germany. We have permanent research positions available.

The department's research objectives include but are not limited to:

- Distributed, decentralized and trustless computing platforms.
- Privacy-preserving machine learning and zero-trust data sharing platforms.
- AI Pair Programming assistants and AI/ML-powered developer tools to accelerate software development.
- Low-code tools and domain-specific languages for network automation and industrial automation.

MAIN DUTIES & RESPONSIBILITIES

- Carry out ground-breaking research in the areas of software systems and/or software engineering with focus on above mentioned research agendas for creating both theoretical innovations and novel practical implementations.
- Propose new innovations and generate patents to help continuing Nokia's leadership in intellectual property in software services and technologies.
- Publish research in major conferences and journals worldwide.
- Keep an active and visible role in the research community through conference committees and reviewing panels.
- Create and maintain strong collaborative associations with university-based researchers.

EXPECTED QUALIFICATIONS

- A Ph.D. in Computer Science / Electrical & Electronic Engineering with a strong focus on software systems or software engineering research. PostDoc experience is a plus.
- A proven track record in research, with publications in prestigious IEEE/ACM conferences and/or journals (USENIX ATC, NSDI, OSDI, ICDCS, SoCC, ICSE, PLDI, OOPSLA, ICFP, ...)
- Strong written and spoken English communications skills. You have delivered talks at relevant international workshops, conferences, or other events.
- Demonstrable programming skills. Pointers to research prototypes you have built or open source libraries you have contributed to are much appreciated.
- Ability to conduct independent research with minimal day-to-day guidance.

Applicants will be selected on a rolling basis.

For inquiries please write to Tom Van Cutsem (tom.van_cutsem@nokia-bell-labs.com)

[Read the full vacancy online](#)