

# RESEARCH ENGINEERING POSITION

Pervasive Systems Research  
Nokia Bell Labs, Cambridge, UK

Future Devices, Edge AI, Mobile 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.

## BELL LABS CAMBRIDGE

Bell Labs' research facility in Cambridge is a leading lab working in the areas of Future Devices, Mobile Sensing and Systems, Embedded Machine Learning, and Internet of Things research.

We have multiple openings for Research Engineers in the Pervasive Systems research department. The department studies the forms, intelligence and applications of mobile, IoT, wearable devices. The department's research objectives include but not limited to:

- Enhancing compute, communication, and thermal efficiency of the next billion smart devices
- Building data-efficient, distributed robust and automated device intelligence
- Designing collaborative, privacy- preserving, and interactive multi- device systems
- Redefining cross-device and multi- modal UX for spatiotemporal interaction with people, places, and things

## MAIN DUTIES & RESPONSIBILITIES

- Carry out research and development in the areas of Future Device Technologies (form, intelligence, systems, and applications) with focus on above mentioned research agendas for creating novel practical implementations and research prototypes.
- Propose new innovations and generate implementation-ready device-related patents to help continuing Nokia's leadership in intellectual property on devices and device related technologies.
- Prepare, publish and maintain departments' internal codebase and contribute to open source community.

## EXPECTED QUALIFICATIONS

- A Master's in Computer Science / Electrical & Electronic Engineering with a focus on mobile systems or embedded machine learning research. A PhD is a plus.
- 2-5 years of experience in industrial research and development, ideally with experience in product development related to device technology.
- Practical experience with designing and developing hardware prototypes and embedded systems.
- Strong expertise in embedded programming (C/C++) or distributed programming (Python/NodeJS) or mobile programming (android/iOS) for mobile and machine learning systems.
- Deep understanding of mobile and embedded operating systems and hands on experience with mobile application or machine learning frameworks.

**Applicants will be selected on a rolling basis.**

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