

POSTDOC 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 PostDoc positions 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 ground-breaking research in the areas of Future Device Technologies (form, intelligence, systems, and applications) with focus on above mentioned research agendas for creating both theoretical innovations and novel practical implementations.
- 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.
- Publish research in major conferences and journals worldwide.

EXPECTED QUALIFICATIONS

- A PhD in Computer Science / Electrical & Electronic Engineering with a focus on mobile systems or embedded machine learning research.
- Key expertise should include at least one of the followings:
 - Strong expertise (and practical experience) in designing and developing hardware prototypes and embedded systems.
 - Strong expertise in digital signal processing and AI/ML for device and sensory intelligence.
 - Strong expertise in mobile and embedded operating systems and hands-on experience with mobile application developments.

Applicants will be selected on a rolling basis.

Please write to Alessandro Montanari (alessandro.montanari@nokia-bell-labs.com) and Fahim Kawsar (fahim.kawsar@nokia-bell-labs.com) for informal discussions.

