

PRINCIPAL RESEARCH SCIENTIST & TECH LEAD

Pervasive Systems Research
Nokia Bell Labs, Cambridge, UK

Device Intelligence

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 an opening for a Research **TECH Lead for Device Intelligence** 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

- Define and execute a ground-breaking research program that develops foundational technologies towards data-efficient, compute-efficient, robust device intelligence for future devices - creating both theoretical innovations and novel practical implementations.
- Lead a team of researchers and engage with partners, customers, academia, and members of the ecosystem to validate technical solutions, and accelerate business opportunities through technology partnerships, business transfers, internal incubation, or licensing opportunities
- Carry-out research at team-scale, propose new innovations and generate device-related patents and publish research in major conferences and journals worldwide.
- Keep an active and visible role in the research community and maintain strong collaborative associations with university-based researchers.

EXPECTED QUALIFICATIONS

- Ph.D. (or equivalent experience) in computer science, data science, software engineering, or related disciplines.
- Deep expertise in AI/ML with prior experience in Federated Learning, Self-Supervised Learning, TinyML and Time-series Modelling, etc.
- Good understanding of mobile and embedded operating systems and mobile UX.
- Strong research credentials and proven track record of disruptive innovation, with publications in prestigious journals and conferences in relevant fields (e.g., ICML, IMWUT, MobiSys, MLSys, NeurIPS, ICLR, ICASSP, KDD, etc.)
- International reputation and a strong collegial long-term globe-spanning network with a track record of attracting strong talent.
- Proven track record of research impact through product or services creation, publications, and patents.

Please write to Fahim Kawsar (fahim.kawsar@nokia-bell-labs.com) for informal discussions.