# SUMMER INTERNSHIP

NOKIA BELL LABS

Pervasive Systems Research
Nokia Bell Labs, Cambridge, UK

## Wearable Systems for MedTech

## NOKIA AND BELL LABS

Nokia is a global leader in technologies that connect people and devices. 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 Mobile and Wearable Sensing and Systems, Applied Machine Learning, Social Computing and Internet of Things research.

We have multiple (on-site only) openings for 2025 summer internships in our Pervasive Systems research department. The department studies the forms, intelligence and applications of mobile, IoT, wearable devices. Our 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/multi-modal systems.

Find a concise overview of our research and latest publications here. For 2025, multiple internship positions are available for the following topic.

### Wearable Systems for MedTech

**Objective:** To explore system-level challenges in multi-wearable platforms leveraging microcontrollers with ultra-low-power AI accelerators. The goal is to enable next-generation applications that deliver personalised, energy-efficient, and privacy-preserving healthcare solutions..

**Research experience sought:** Any combination of the following areas: (1) mobile/embedded systems, (2) on-device/distributed ML, (3) AI accelerators, (4) edge computing/IoT, (5) memory/power management.

**Preferred programming skills:** Proficiency in programming for wearable and embedded devices is essential, with expertise in C, Python, or embedded frameworks like FreeRTOS. Experience in networking, device driver development, model compression, and sensing application design is highly desirable.

Application Deadline : Jan 14, 2025

**Selection of applicants will occur on a rolling basis, with decisions being communicated by February 28, 2025, at the latest.**

Please write to Sangwon Choi (sangwon.choi@nokia-bell-labs.com) and Fahim Kawsar (fahim.kawsar@nokia-bell-labs.com) stating your interest.