

## **Researcher for ambient sensing and ubiquitous/pervasive computing intelligence**

### **Position Summary:**

Samsung Research America is located in Mountain View, California is currently recruiting world-class professionals who share our "Innovation through Passion" philosophy and thrive in a fast-paced, cross team, results-driven environment, with focus on highly visible, challenging, and cross discipline projects.

The sensing capabilities of the infrastructure and devices surrounding our daily lives are improving and becoming more affordable by the day. Nowadays, sensor networks (e.g., Wi-Fi, surveillance cameras) are widely deployed in public facilities, private buildings and outdoor environments; and mobile phones and IoT devices now include a variety of sensors, such as accelerometers, magnetometers, light sensors, GPS, microphones, and cameras, as well as wireless interfaces such as cellular, Bluetooth, and WiFi. The analytics of such environmental and on-device streaming data becomes increasingly useful and important to enable innovations in mobile world.

The successful candidate will have a keen interest on ambient intelligence and ubiquitous/pervasive computing. The ideal candidate will research on practical and usable solutions on both ambient data analysis (e.g., RF, ultrasonic, etc.) and on-device data analysis (e.g., sensor data, WiFi fingerprinting, etc.) for indoor localization and activity recognition, context analysis, voice recognition purposes. The candidate will be a part of an interdisciplinary research team. Implementation skills and the ability to create early-stage prototypes are also desirable.

### **Common Essential Duties & Responsibilities:**

- Contribute to the research activities of our team; participate and lead some of the research efforts
- Formulate research problems based on real-world needs and independently conduct high-quality research
- Generate creative solutions (patents) and publish research results in top conferences (papers)

### **Background / Experience:**

Expertise in one or more of the following areas:

- Expert on ambient intelligence for smart environments for user/device localization and activity detection through sensing
- Knowledge on signal processing and wireless technologies
- Knowledge on data mining on mobile data (e.g., on spatio-temporal data, mobile sensor data, user behavior data, audio/video data....)
- Knowledge on collecting sensor data and user behavior pattern recognition is a plus
- Proven track record of research/publications on wireless technologies and intelligence field

### **Necessary Skills / Attributes:**

- Excellent communication skills and willingness to work with an international team to deliver rapid prototypes
- Ph.D. in Computer Science, Electrical Engineering, or related field

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