

- **Location : Suwon**
- **Team/Dept. : Advanced AP Lab.**
- **Division : Mobile Business Unit**
- **Title : Mobile Application Processor Architect**

Position Summary

Our vision is to design the differentiated SoC that can bring meaningful innovation to customers. We are actively seeking a talented and experienced engineer to evaluate SoC performance objectively and analyze the SoC architecture. You will have the chance to network with SoC vendors, Benchmark vendors, and in-house personnel who are at the cutting-edge of innovation and new technology.

Department Responsibilities

- Define the SoC specification/requirement for the future smartphone and tablet
- Build the SoC roadmap and the technology roadmap for smartphones and wearable devices
- Research new technology for future smartphones
- Evaluate and optimize the performance of mobile SoCs
- System-level optimizations to reduce power consumption
- Research the computing engine including CPU/GPU/NPU in SoC
- Optimize multimedia subsystem including ISP and Audio subsystem in SoC
- Design the HW-based security architecture
- Troubleshoot SoCs failures

Individual (Candidate) Responsibilities

- Develop SoC evaluation methodology and tools
- Evaluate and optimize the performance of mobile SoCs
- System-level optimizations to reduce power consumption
- Smartphone user workload characterization for improving power efficiency
- Troubleshoot SoCs failures
- Communicate proactively with SoC vendors to specify future SoCs
- Survey technology trends for future smartphones

Expected Contribution

- Define the SoC specification/requirement for the flagship smartphone
- Evaluate the performance and power of key IPs in the SoCs
- System-level optimizations to reduce power consumption
- Derive SoC requirements through usage scenario analysis

Short-term Goals

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- Evaluate the performance and power of key IPs in the SoCs
 - Build the technology roadmap for key IPs in the SoCs

Long-term Goals / Vision

- Design the differentiated SoC that can bring meaningful innovation to customers

Preferred Skills & Experience

- Previous experience with SoC development or verification
- Working knowledge of SoC system-level performance evaluation and optimization
- Knowledge of ARM processor architecture
- Knowledge of GPU architecture
- Knowledge of embedded linux kernel architecture, device drivers, and Android platform