



Huawei Hong Kong Research Center

Huawei is establishing the Hong Kong Research Center with focus on CPU, Basic Software, AI related research and development, from algorithm, software to chip set development. We are looking for high caliber Engineers and Researchers at all levels to join our new team.

CPU/AI Accelerator Digital Design or Verification Engineer/Intern

The successful applicant will take part in defining the micro-architecture of different major functional units of a processor/AI accelerator core and contribute to the various phases of the development work, including but not limited to feasibility studies, cost and power estimation, performance and functional modeling, software benchmarking, micro-architecture definition, front end design and verification, and synthesis.

Responsibilities

- Define the micro-architecture of the Processor/AI Accelerator core including memory hierarchy and various interconnects
- Evaluate and perform trade off analysis of hardware implementation between performance, cost and power.
- Define verification and validation strategies at different levels for the processor/AI Accelerator core and carry out the related work to ensure functional correctness.

Desired Skills and Experience

- BS or higher degree in Electrical/Computer Engineering with knowledge in ASIC design/verification.
- Experience with the design/verification in one or more of the following disciplines
- Digital Circuit liked finite state machine and arithmetic circuit design
 - ◆ RISC-V CPU
 - ◆ FPGA implementation
 - ◆ CNN hardware implementation
 - ◆ Instruction fetch and dispatch unit
- Load Store Unit
- Execution, Integer and Floating Point Unit
- Good understanding of computer system architecture, memory systems or cache coherency
- Good understanding high speed circuit and low power design is a plus
- Good understanding of TCP/IP networking/service packet protocols is a plus

To apply for this opportunity, please send your resume and a cover letter and salary expectations to choi.man@huawei.com. Applicants not invited for interview within 6 weeks from the closing date may assume their applications unsuccessful.