

# Senior Design Verification Engineer

## Responsibilities:

- Work on SoC and Core-level design verification tasks as a lead of teams working on multiple production projects.
- Lead on all aspects of verification methodology employed by the DV team.
- Work with other DV teams within the company and overseas to develop and enhance the verification flow.
- Lead and collaborate closely with the design team to review specifications, understand SoC / Core architecture, develop tests and coverage plans, define methodology and test benches.
- Design Verification – Develop and review test-benches, run regressions at RTL and gate level, ECO, generate and report DV metrics with respect to bug tracking and code coverage, debug failures and provide feedback to the design team.

## Qualifications:

- B.S. or M.S. in Electrical, Electronics, Computer Engineering, Mechatronics, Computer Science.
- 5+ years of SoC / Core design verification and industry experience.
- Strong knowledge of with CPU (RISC-V, Arm), IP/Subsystem, interconnects and industry standard interfaces (AMBA, TileLink, NoCs, etc.).
- Advanced knowledge of ASIC design, Verilog/SystemVerilog and verification flow including RTL/GL, simulation, testbench development, regressions, ECO, etc.
- Experienced in writing scripts in languages such as Python, Perl, and Tcl.
- Expert of constrained random verification process, functional coverage, and code coverage.
- Strong experience with low-level programming of systems in C/C++/assembly.
- Expert of UVM.
- Strong knowledge of synthesis, formal verification, timing analysis, scan insertion and test pattern generation, physical design is a plus.
- Familiarity with the SoC / ASIC design flow, from design specification to working Silicon, using industry standard EDA tools from Cadence, Synopsys and Mentor Graphics.
- Strong problem solving and analytical skills.
- Excellent oral and written communication skills in English.
- Strong interpersonal skills and the desire to take on diverse challenges.

## **Aql Tech Solutions**

Aql Tech Solutions (Pvt) Limited is a leading commercial provider of a range of RISC-V processor IP cores and solutions targeted for markets, such as datacenters, 5G, edge, AI, mobile, networking, storage, consumer devices and more. Aql Tech Solutions has been founded by industry veterans with strong semiconductor industry experience in the USA and Pakistan.

Aql Tech Solutions (ATS) is based in Islamabad, Pakistan is looking for highly innovative and driven individuals with a passion to work in a professional and high growth environment. Our goals are to develop strong technical talent, skills and to bolster holistic growth of all employees.

We provide a unique career advancement atmosphere, a generous financial package and an opportunity to be part of the highly advanced global semiconductor industry.

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[www.aqltechsolutions.com](http://www.aqltechsolutions.com)

### **Aql Tech Solutions**

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