

Head of IC Development

White City, London


The Role:

DNAe, the inventors of semiconductor-based next-generation sequencing (NGS) technology, are developing a revolutionary new platform that enables NGS-based diagnostic capability in an easy to use, cartridge-based system. This system will deliver clinically relevant, actionable results directly from clinical specimens in a matter of hours.

We are recruiting for a Head of IC Development to be a key role in the team, duties as follows:

Responsibilities – General:

- Gathering of IC requirements from stakeholders in other teams within DNAe
- Defining the architecture of the IC based on those requirements. Creation of overall IC top-level specifications. Overall responsibility/accountability for the top-level IC specification.
- Breaking the IC architecture down into smaller sections/parts called “cells” or “circuit blocks”. Calculation and drafting of the specifications of those cells. Overall responsibility/accountability for the cell specifications.
- Allocation of cell designs to analog IC designers to design. Oversight and supervision of said designs; advice and recommendations given.
- Undertaking of more complex analog circuit designs.
- Full-chip design and full-chip mixed-signal simulation; verification against original full-chip specifications
- Oversight and supervision of layout of the circuit designs
- Overall technical management of the IC design process
- Responsibility for the down selection the IC manufacturing partner(s). Technical contact with those partners and overall executive responsibility for the choice of those partners. Selection and installation of Process Design Kits (PDKs)
- Overall responsibility for “tape-out” of the completed IC design to the IC manufacturing partner(s). Ultimately responsible/accountable for the quality of the IC design and the gatekeeper on when the design is completed to satisfaction and ready for manufacture.
- Responsible for the selection and procurement of externally developed IP for use within the IC design

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- Key stakeholder in the selection of IC test development partners. Overall technical management of the IC test development process.
 - Supervision of IC device verification and tests (DVT) aka “characterisation”. Technical guide and mentor as well as doing more complex hands-on work.
 - General “technical coaching” of the IC design team.
 - Responsible for Intellectual Property developed within the team, liaising with the patent attorney as appropriate; sits on DNAe’s IP Committee.

Required qualifications and experience:

- Good experience using Microsoft Office packages Word, Excel.
- Proficient in IC design tools including Cadence and MATLAB.
- Good Leadership and Communication skills

Apply:

If you believe you meet the above criteria and would relish playing a key role in developing a revolutionary technology, we would be delighted to hear from you.

We offer a competitive compensation package to successful candidates.

Please email your CV, making a note of your salary expectations and availability in the email to: careers@dnae.com