

Senior Scientist, NGS Clonal Amplification

White City, London

The Company

DNAe, the inventors of semiconductor-based next-generation sequencing (NGS) technology, is developing a revolutionary new NGS-based diagnostic platform in an easy-to-use, cartridge-based system designed to generate a clinically actionable result direct from clinical specimen, in a matter of hours.

We are currently looking to hire outstanding scientific talent to join the multi-disciplinary NGS platform development team.

Responsibilities

The successful candidate will be a senior member of the NGS Clonal Amplification Team, reporting to the Subsystem Lead and responsible for a subset of the team deliverables, comprising technology development of clonal DNA amplification performed on an integrated circuit (chip). The on-chip process must be compatible with cartridge-based automation and performance must meet the demanding requirements of the novel DNAe NGS platform.

Senior Scientists are also responsible for proactive interaction with other subsystems (including cartridge, instrument and integrated circuit teams) to ensure effective communication, proper alignment of input/output requirements and successful development and integration of the sequencing protocol and chemistries into the automated platform process workflow.

You will be tasked with:

- Performing laboratory experiments for technology development, involving molecular biology and biochemistry skills and transferring results to a novel cartridge-based workflow.
- Independently driving a scientific study, setting goals and determining a series of future experiments.
- Performing extensive literature research to aid one's own work.
- Management of a small team of research associates, providing technical leadership and being accountable for their professional development.
- Recommending innovative approaches, analysing your experimental data, and suggesting new strategies for the team.

Person Specification

You will have drive, enthusiasm and a solid work ethic, with a strong desire to play a key role in the creation of a paradigm shifting platform, that will have major impact on the health and wellbeing of patients around the world. The successful candidate must demonstrate experience of developing novel and modifying standard procedures for custom applications, particularly relating to sequencing template preparation. You will draw on your experience of molecular diagnostics and NGS platforms to assist with the development and integration of various modules of a novel nucleic-acid analysis platform.

You will deliver effective solutions to challenging problems in a fast-paced environment. You must be a team player who interacts well with a variety of colleagues. You must be able to manage direct reports effectively and be a strong and proactive communicator.

Qualifications & Experience

Required

- EITHER PhD in Chemistry, Biochemistry, Molecular Biology or related field OR BSc in Chemistry, Biochemistry, Molecular Biology or a related field with relevant industrial experience.
- Knowledge of NGS workflows.
- Broad development experience of molecular analysis technologies.
- Experience or the capability to manage Research Assistants.
- An innovative and pragmatic mindset, with excellent problem solving and analytical abilities.
- Effective administrative, organisational, communication and interpersonal skills.
- A positive attitude towards intellectual and time challenges.

Desirable:

- Direct NGS laboratory experience.
- Experience with nucleic acid amplification (PCR and non-PCR, including isothermal).
- Development experience with IVD or NGS systems.
- Microfluidics, cartridge or instrument development experience.
- A background in the development of molecular diagnostic products for commercially relevant applications.
- Experience interacting with disciplines that may be outside of the candidate's area of expertise, such as engineering, software development and bioinformatics.
- Demonstrable creativity and innovation ideally evidenced by patent filings and relevant publications.