

Surface Chemist, Next Generation Sequencing

Job Reference: SCS2019
Posted: May 2019

Location London, UK
Weekly Hours 40

The Company

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

We at DNAe are currently looking to hire additional outstanding scientific talent to join the existing multi-disciplinary NGS platform development team, filling key roles in the rapidly expanding program. The specific role described here is Scientist on the Next Generation Sequencing Team.

Role and Responsibilities

The successful candidate will be part of the NGS Sequencing Team and will be responsible for a subset of the team deliverables, comprising technology development of a massively parallel sequencing process 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. Specific responsibilities of the Surface Chemist include;

- Development of new and novel functionalized surfaces for use in DNAe's Next-Generation Sequencing platform
- Design and execution of laboratory experiments and in-depth analysis of resulting data
- Interfacing with external partners to develop key platform components
- Management of the work of 1-2 Research Assistants.
- Literature (including patent) work to support development of the technology
- Proactive interaction with other NGS platform teams to assure effective communication and proper alignment of input/output requirements
- Participation in the integration of the technology into the automated platform

- Generation and management of all required documentation and presentation of results

Person Specification

We are looking for people with drive, enthusiasm and a rock-solid work ethic who strongly 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 have the ability to deliver effective solutions to challenging problems in a fast-paced environment with adherence to tight

timelines. Further, the successful candidate must be a team player who interacts well with a variety of colleagues within and outside their area of expertise, manages direct reports effectively, is a strong and proactive communicator and is willing to step in and take on additional responsibilities as they arise, even those outside the normal scope of responsibilities, in order to help achieve timely success of the project.


Qualifications and experience

Required:

- PhD (preferred) or MSc in Chemistry, Biochemistry, or related field
- Experience developing surface attachment chemistries related to the immobilization of biomolecules (e.g. nucleic acids, proteins, enzymes) ideally as a part of an NGS workflow, IVD device, or microarray technology
- Experience with nucleic acid amplification (PCR or non-PCR, such as isothermal), including solid-phase amplification methods
- Experience developing methods for surface characterization and using techniques such as XPS, dynamic light scattering, SEM, and fluorescence microscopy
- Excellent problem solving and analytical skills
- Excellent administrative, organisational, communication and interpersonal skills.

Desirable:

- Industry experience in the development of molecular IVD technology for commercially relevant applications, particularly NGS-based products

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- Assay integration experience, including reagent stabilization
 - Experience managing small teams of technicians and/or Research Assistants
 - Demonstrable creativity and innovation (e.g. as evidenced by patent filings and allowances and/or scientific publications)

Location

This role will be based in DNA Electronics headquarters, in West London at White City, London, UK.

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 quoting the **job title and your name** in the subject line.

For more information about DNAe, please visit our website www.dnae.com
