

## R&D Engineer

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 at DNAe are currently looking to hire additional outstanding talent to join our existing multi-disciplinary NGS platform development team, filling key roles in the rapidly expanding program. The specific role described here is for an R&D Engineer to join the Product and Process Engineering Team.

### **Responsibilities – General:**

The R&D Engineer will contribute to the development of a commercial, integrated diagnostic device. The candidate will be a creative individual, with strong engineering fundamentals who is comfortable contributing to multi-disciplinary teams of scientists and engineers to solve challenging problems.

### **As an R&D Engineer, your activities will be:**

- Devise and apply novel methodologies and techniques to solve complex problems
- Design, build, and test systems, components and processes to meet the requirements from internal and external customers
- Plan, co-ordinate, and conduct laboratory experiments to understand and optimise parameters required on test fixtures and lab rigs.
- Compile, analyse and interpret experimental results and data
- Record, document, and present results to internal and external stakeholders
- Support the prototyping, development and testing of design prototypes



## **Person Specification:**

We are looking for an individual with drive, enthusiasm and a strong work ethic who desires to play a key role in the creation of a paradigm shifting platform that will have a major impact on the health and wellbeing of patients around the world. The successful candidate must have the ability to conduct informative development and deliver effective solutions to challenging problems in a fast-paced environment.

The successful candidate must be an organized and detailed orientated team player, who interacts well with multidisciplinary teams, designing and maintaining bespoke instruments and systems for continued scientific research and development.

Skills and experience:

### **Required:**

- Higher degree in Mechanical Engineering, with minimum of 4 years post-graduate employment experience.
- Exceptional knowledge of system mechanics, fluidic dynamics and some electronics fundamentals.
- Strong experience with computer aided design and computer aided engineering software packages (e.g., Solidworks, Comsol).
- Able to grasp and converse with wider team on technical areas including microfluidics, pneumatics, fluid control, and temperature control.
- Sound decision-making ability used in the evaluation, selection and integration of OTS components for instrument design
- Practical experience of rapid prototyping techniques (e.g., CNC milling, 3D printing, laser cutting, plastics bonding techniques).
- Proven ability to analyse and communicate experimental results in a clear and understandable manner to internal and external stakeholders

### **Desirable:**

- Interest in and demonstrable knowledge of programming languages,
- Exposure in working within a regulated industry, preferably the ISO 13485 and involvement in setting up processes and systems to maintain compliance.
- Experience of design and testing of sealed fluidic plastic parts.
- Experience with planning and performing scientific experiments to understand and optimise process conditions.



**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](mailto:careers@dnae.com)