

## Product Development Engineer

Job Reference: PDE  
Posted: August 2019

Location: Carlsbad  
Weekly Hours: 40

### The Role

DNA Electronics (DNAe) is a dynamic young company integrating cutting edge silicon technologies with novel biochemical techniques. We are seeking a strong individual to contribute to our sample-to-answer platform. The right candidate will be self-starting, detail-oriented, with experience in developing, optimizing, and validating sample-to-answer systems. Experience with Medical or IVD Devices and with Assay Integration is a requirement. The successful candidate will be capable of multitasking, setting priorities, and planning and working against aggressive timelines. In addition, highly effective communication and collaboration are crucial. The individual must be a key technical contributor with significant demonstrated engineering expertise.

### Responsibilities – General

- Design systems, components, and processes to meet user needs and product requirements from internal and external customers
- Identify, formulate, and produce effective solutions to emerging problems
- Manufacture parts for testing ideas
- Conduct experiments methodically, analyse data, interpret results and form conclusions
- Test and evaluate theoretical designs
- Ability to work in a cross-functional team with engineers and biological scientists
- Coordinates engineering technology transfer
- Adopt strategic approaches to experimental design and troubleshooting issues
- Identify existing or novel technical solutions to successfully address developmental issues
- Prepare, review, and deliver high quality technical reports and scientific presentations
- Supports technical solutions with 3<sup>rd</sup> party development partners and suppliers
- Supports transfer of product to manufacturing operations
- Actively contribute to completion of critical assay development program milestones, including design inputs, assay performance specifications, and development of design verification and validation plans, protocols, and reports
- Supports decision making in key product decisions



## **Required qualifications and experience**

- MSc with 2 years, or BS with 3-5 years' experience in Product Development
- Minimum 3 years' experience in an IVD regulated environment
- Experience with 2D and/or 3D engineering design and manufacturing tools
- Proficient in SolidWorks (2017 or newer versions preferred)
- Experience with basic instrument scripting processes (writing, working, and debugging preferred)
- Practical experience with design for manufacture and assembly, and an understanding of a wide variety of manufacturing processes
- Experience working with integrated fluidic microsystems and associated instrumentation
- Knowledge of data analysis and research design (including various statistical analyses and DOE)
- Demonstratable organizational and project management skills
- Ability to communicate technical knowledge in a clear and understandable manner
- Commitment to help the team achieve deliverables and meet aggressive timelines

## **Location**

This position will be located in Carlsbad, California.

## **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, to [HR-US@dnae.com](mailto:HR-US@dnae.com)

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