

## Systems Integration Manager

Job Reference: SIM  
Posted: April 2021

Location: Carlsbad, US  
Weekly Hours: 40

### The Role

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 talent to join the existing multi-disciplinary NGS Engineering Group, filling key roles in the rapidly expanding program. The specific role described here is at the Manager level for Systems Integration of our NGS platform and associated assays.

### Systems Integration Team

The Systems Integration team plays a critical function within our organization, bringing together disparate and complex sub-systems into a single functioning system. The team is technically competent in a wide range of disciplines including physics, software and hardware engineering, chemistry, and microbiology. They work diligently with all other groups to ensure new developments and processes function as specified on our platform. A key element of the Systems Integration team's function is to drive efficient and effective communication across different teams, who otherwise may not normally communicate. In addition to consistency in quality communication which drives quicker decision making, the Systems Integration team takes a leading role in document management across the products being developed.

### Responsibilities

- Provide technical leadership to the company's Systems Integration team.
- Initiate, direct, and execute scientific R&D with cross-functional project teams.
- Represent Systems Integration function on project teams.
- Supervise Scientists/Engineers on project and functional activities.
- Collaborate closely with all functions within project teams (such as assay development, software, engineering, and manufacturing).
- Develop subject matter expertise across multiple systems and sub-systems.
- Engage in the early design of products to represent Systems Integration knowledge.
- Develop verification and validation test plans; execute study protocols and generate reports.
- Analyze large data sets, troubleshoot complex issues, and suggest creative solutions to system-level issues.
- Promote both technical depth as well as functional excellence, through hands on integration experimentation, document management, and involvement in new product development activities.

## Person Specification

We are looking for people with drive, enthusiasm and a strong work ethic who 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 conduct informative research and deliver effective solutions to challenging problems in a fast-paced environment with adherence to tight timelines.

This role requires a solid understanding of multiple areas of engineering, physics and chemistry, including molecular assays, biosensing, thermal and fluidic systems, electro-mechanical systems, instrument control software/firmware and data analysis pipelines.

## Qualifications & Experience

### Required:

- M.S./Ph.D. in Engineering, Materials Science, Physics, or related field with minimum of 5 years relevant industry experience.
- Track record of commercializing biomedical technologies in both RUO and Dx markets.
- Proven experience in developing and launching medical/IVD products to the regulated market.
- Demonstrated experience in writing quality technical documentation and developing test plans for validation and verification studies of complex instrumentation systems.
- Solid knowledge of regulatory standards such as ISO13485, ISO 14971, FDA QSR 21 CFR 820, 21 CFR Part 11.
- Demonstrated ability to assimilate and analyze complex ideas, data sets and information, and to disseminate results to the wider team in a succinct format where required.
- Experience problem-solver, comfortable designing, conducting, and continuous optimization of physical and/or scientific experiments.
- Good knowledge and understanding of engineering tools used for design and development.
- Must be detailed orientated and highly motivated team player.
- Exceptional communication and influencing skills are a must.

DNAe, Inc. is an equal opportunity employer that does not discriminate on the basis of race, color, national origin, ancestry, religion, sex, gender, age, marital status, physical or mental disability, military or veteran status, sexual orientation, gender identity, gender expression, genetic information, or any other characteristic protected by applicable federal, state or local law.

## Location

DNA Electronics Inc. is based in Carlsbad, CA

## 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 and cover letter to: [HR-US@dnae.com](mailto:HR-US@dnae.com) quoting

**Your name and the job title** in the subject line.

For more information about DNAe, please visit our website [www.dnae.com](http://www.dnae.com)