

Job Specification Details			
Job Title:	<i>in silico</i> specialist		
Job Code:	QB_06 (21)		
Department/Group:	Assay development		
Location:	Sandwich, Kent, UK	Target Start Date:	1 st November 2021
Level/Salary Range:		Position Type:	Permanent
HR Contact:	Andy King (info@qbiotix.com)	Date posted:	13 September 2021
External posting URL:			
Internal posting URL:			

About Qbiotix:

Qbiotix Limited offers a suite of rapid, sensitive, sample-type agnostic, homogeneous, non-enzymatic molecular detection technologies. Qbiotix has filed for patent protection for its novel technologies which offer significant advantages to the diagnostic state of the art.

Qbiotix innovates with capabilities previously not available to measure: 1) nucleic acid targets down to single copy numbers, overcoming the limitations of enzymatic amplification; 2) activity of proteins, misfolded proteins and aggregated forms of proteins.

Qbiotix is expanding its laboratory operations in Kent to respond to enhanced interest from industry and Pharma companies.

Job Title: *in-silico* specialist

Job Overview:

An exciting opportunity to grow and lead the *in-silico* design team of Qbiotix in order to advance nucleic acid and protein detection technology to new standards.

The *in-silico* specialist will be expected to design probes under the guidance of the CTO and over time to hire and lead an *in-silico* team at Qbiotix to advance research and product release in multiple disciplines ranging from optimisation of detection systems, microfluidic exosome technologies, to horizontal flow assays, Covid assays, and in situ assays.

The *in-silico* specialist will be expected to further the development of Qbiotix's proprietary and patent pending non-enzymatic molecular assays through deep knowledge of probe construction and probe production as well as train for patent matters, including prior-art searches, and freedom to operate searches.

This role will report directly to the CTO.

Technical Responsibilities:

- Responsible for designing probes under the guidance of the CTO.
- Assist the CTO in leading the development Qbiotix's research and product development process.
- Define, coordinate and technically lead all processes related to internal product development and outsourced product development initiatives.
- Carry out continual assessments of the technology progress and suggest technology improvements.
- Work collaboratively with all other employees in the Company.

Organisational Responsibilities:

- Support the CTO with respect to patent drafting, publications, reporting.
- Ongoing development of Qbiotix's technical competencies.
- Identify skill gaps, develop capabilities, drive probe construction improvements to meet the business needs.

Qualifications & Skills:

- Minimum of 5 years relevant experience at a post master level or minimum of 3 years relevant experience at post PhD level working on cutting-edge technical solutions in the biochemical industry, ideally in a non-academic laboratory environment.
- Excellent overall understanding of R&D and biochemical processes in the following technical areas:
 - Probe construction
 - Probe production
 - Sequence alignment (MEGA-X or DNA-Star)
 - MIP (Molecular Imprinted Polymers)
 - BLAST search
 - 3D proteins and/or nucleic acids
- Excellent team player and able to work independently to challenging time-scales.
- Strongly self-motivated and able to take ownership of problems and to work with minimal supervision.

- Good communication, presentation and interpersonal skills.
- Familiarity with computers especially with Microsoft Office and statistical programmes.
- Able to adapt to a fast-moving environment.