



## ASSAY DEVELOPER

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The assay developer will develop a multiplexed DNA/RNA panel for the analysis of infectious diseases on Nuprobe's proprietary platform. The successful candidate will work with the marketing team to identify detection markers, and work with the engineering team to implement and validate the panel on the Nuprobe platform. The developed panels will initially be Research-Use-Only (RUO), but will later undergo clinical validation and trials for in-vitro diagnostics (IVD) use.

### Main duties:

- Selection of DNA/RNA markers for disease target of interest
- Design of multiplex primers, probes, and internal controls for the panel
- Experimental optimization of polymerase mix and buffer composition on Nuprobe platform
- Experimental panel validation on both reference samples and clinical samples
- Systematic documentation of experiments for future FDA submission

### Required qualifications and experience:

- Ph.D. in molecular biology, biotechnology, genetics, or related field
- Nucleic acid extraction from clinical samples
- Computer-aided DNA primer sequence design (Matlab preferred)

### Preferred qualifications and experience:

- 3 years postdoctoral or industry experience in design and validation of PCR assays
- Domain area expertise in infectious disease
- Patent claim drafting

### About Our Organization:

Nuprobe is a molecular diagnostics startup with proprietary technology to allow highly sensitive and multiplexed PCR and NGS analysis of DNA and RNA samples. Founded by world-leading experts in biomolecular engineering, NuProbe is a venture-backed company that brings together cutting-edge innovations in molecular engineering with leading scientific expertise and management to take on one of the world's greatest challenges — non-invasive early detection of rare genetic variants in patients. NuProbe will take a multi-platform approach to apply this breakthrough technology capability in precision medicine to cancer diagnostics and infectious disease screening. Nuprobe has two sites in Boston, USA (research and development) and Guangzhou, China (manufacturing and distribution).

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