

Research Assistant, Assay Development and Integration

The Forsyth Institute is a leader in oral microbiology research and translational application. We have a long history of developing technologies that have transformed oral hygiene, enamel preservation, and inflammation control. We are located in Kendall Square, Cambridge, an epicenter of biomedical research with one of the highest densities of colleges and biotechnology companies in the world. In collaboration with our neighboring companies, we are developing leading-edge products that can address unmet diagnostic and prevention needs for oral infectious diseases.

Summary/objective

Recently, The Forsyth institute announced an exciting new collaboration geared towards creating a fast, inexpensive molecular detection method for oral pathogens based on next-generation CRISPR-Cas and synthetic biology technology platforms (announcement here: <https://www.forsyth.org/news/forsyth-institute-sherlock-biosciences-partnership-oral-cavity/>). In connection with the collaboration, we are seeking an exceptional candidate to implement and integrate molecular diagnostic assays into point-of-care consumables that accurately diagnose the presence of nucleic acid targets from the oral cavity. This role provides strategic and technical leadership in defining and achieving innovative assays and product development objectives while contributing to partnering activities with internal as well as external business associates. The successful candidate will join an exciting and fast-paced team focused on improving human oral health worldwide through highly innovative synthetic biology-based platforms for diagnostics. We offer benefits and salary competitive with the biotech industry.

Skills and basic qualifications:

- Ability to initiate and conduct basic laboratory experiments
- Analyze and interpret datasets & communicate data in a clear and concise manner
- Familiar with molecular biology techniques (e.g., PCR, Gel electrophoresis, DNA purification)
- Ability to work in a team environment, meet deadlines, and prioritize and balance work from multiple colleagues
- Excellent communication and time management skills
- Independently motivated, detail orientated, and strong critical thinking skills

Basic qualifications:

- Minimum of a bachelor's degree (B.A. or B.S.) from a four-year college or university in Microbiology, Biology, Biochemistry or related fields; or two to four years related experience and/or training; or equivalent combination of education and experience

Preferred qualifications:

- Development, verification, validation, and technology transfer of molecular diagnostic assays
- Conducted experiments to improve assay performance and robustness
- Technical troubleshooting in areas of molecular biology such as primer design, DNA/RNA target site amplification, plasmid/template endonuclease digestion, ligation, preparation of vector DNA, generation of recombinant DNA/RNA

Apply at Forsyth.org OR email statement of interest and curriculum vitae to bbor@forsyth.org

