



## **Computational Biologist Position**

Day Zero Diagnostics (DZD) is an infectious disease diagnostics company using whole genome sequencing and machine learning to combat the rise of antibiotic-resistant infections. The goal of this product is to provide microbiology labs with the ability to perform comprehensive bacterial species ID and antimicrobial resistance and susceptibility g-AST profiling within 8 hours of sample receipt, without the need for culture. Providing this information in hours rather than the days would enable faster appropriate antibiotic therapy for systemic infections such as sepsis, reduce hospital treatment durations, and reduce treatment costs.

At Day Zero Diagnostics we are passionate about our mission of modernizing infectious diseases diagnosis and treatment. Employees gain experience in a multidisciplinary and fast-paced start-up, and have ample opportunities to acquire new skills, engage with emerging technologies, work closely with our accomplished team, and communicate their results, all while working in a supportive and energetic environment. We work in state-of-the-art facilities within an exceptional research setting.

### Primary Responsibilities:

- Develop and maintain pipelines for NGS data, including Illumina and MinION sequencing data
- Execute genomic-based lab services for clinical samples
- Provide genomic expertise on microbial mechanisms of resistance and virulence
- Provide bioinformatic support for the team
- Maintain organized, tested code and corresponding documentation
- Present data within and outside of the company at meetings and symposia
- Write, edit, and submit manuscripts/abstracts/grants detailing the results of the project
- Work closely within the group and with outside collaborators
- Maintain close communications with the team regarding progress

### Qualifications:

- PhD with relevant experience in bioinformatics with a strong preference for microbial genomics expertise
- Fluency in Python and Linux; familiarity with SQL and git helpful
- Familiarity with NGS data; familiarity with bioinformatics tools (alignment, variant calling, assembly, annotation); familiarity with ONT MinION data helpful
- Highly motivated and independent, with the ability to work in a dynamic team environment
- Strong oral and written communication skills
- Excellent organizational skills and attention to detail

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