Be part of a dynamic team that is using nanotechnology to enable routine, accurate, cost-effective analysis of genomic structural variation, in support of our mission of elucidating the genetic underpinnings of disease, increasing diagnostic yield, and ultimately improving patient outcomes. Nabsys is the pioneer in high-definition electronic genome mapping. Headquartered in Providence, RI, Nabsys uses proprietary electronic nanodetectors to analyze long DNA molecules traveling at high velocity. Our first-generation instrument and consumables have been shipping to customers for a year. We are currently scaling proven technology to substantially reduce cost and time-to-answer, on our way to making genomic structural information available to every laboratory.

Position: Software Engineer

Nature of Role: The successful candidate will work with a team of engineers and scientists to advance the state of Nabsys analysis software.

Responsibilities:

- Write high-quality, well-tested, production-ready code in C# and unmanaged C++
- Integrate newly developed, prototyped, algorithms into existing applications
- Evaluate and modify application architecture
    - Improve run-time performance
    - Improve code maintainability
    - Add support for Linux platforms
- Maintain application GUIs using WPF
- Write application-specific python pipelines for Nabsys command-line applications
- Extend and maintain an automated testing infrastructure
- Collaborate with an experienced interdisciplinary staff

Requirements:

- BS in Electrical Engineering or Computer Science with 1+ years of experience
- Excellent engineering skills, including:
    - Object-oriented design and programming
    - Writing production-ready code in C#, .NET, and C++
    - Efficient multithreaded programming
    - GUI development using WPF
    - Python
- Preference for prior experience including:
    - .NET Core
    - Cloud implementation and deployment
- Pragmatic approach to problem solving
- Excellent organizational and interpersonal communication skills
- Willingness to work on fast-paced challenging projects
- Love of interdisciplinary collaboration

Compensation:

- Competitive salary
- Equity stake

- Benefits include health, dental, vision, 401(k), unlimited vacation, life insurance