



Nanopore Scientist / Sr Scientist

Iridia is an emerging San Diego company bringing together DNA chemistry, electronics, molecular biology and nanofabrication technology to develop a revolutionary long-term data storage platform.

The Iridia Research Team is looking for a nanopore scientist with experience and expertise in the field of biophysics and solid-state nanopores. This is a rare and exciting opportunity to apply your knowledge and abilities to the development of a transformational technology.

Job Summary:

We are seeking a proven self-starter that can perform independent, well-controlled research as part of a multi-disciplinary technology development team, with a focus on the use and modeling of solid-state nanopores for detection and interpretation of DNA translocations. Your work will be integral to the design and optimization of the world's first integrated DNA-based data storage microchip.

Tasks and responsibilities:

- **Design, conduct, trouble-shoot and analyze solid-state nanopore DNA translocation experiments.**
- **Assist with modeling of solid-state nanopore DNA translocation events.**
- **Contribute to the design of microfluidic devices with integrated solid-state nanopores.**
- **Assist with the integration of molecular biology protocols into microfluidic devices.**
- **Maintain records and prepare presentations for providing technical updates, data analysis, conclusions and recommendations.**
- **Lead collaborations with 3rd parties in industry and/or academia.**
- **The successful candidate will be self-motivated, dedicated, and enthusiastic, with the ability to effectively communicate with scientists from different disciplines. The successful candidate should have a passion for scientific excellence, a committed work ethic, and**

an assertive but respectful personality.

Preferred experiential background:

- **Use of solid-state nanopores for the study of DNA &/or protein translocations.**
- **Modeling of pore characteristics and DNA translocations through solid-state nanopores.**
- **Fabrication and characterization of solid-state nanopores.**
- **Surface chemistry and science, surface modification and metrology.**
- **Expertise in microfluidics and electrochemistry is highly desirable.**
- **Industry experience is desired, but not required.**
- **Experience in building, testing & troubleshooting analog circuits.**
- **Background in physics, electronics, digital signal processing, statistics, programming, algorithm implementation.**

Preferred educational background:

- **A Ph.D. in Physics (Biophysics) or related discipline.**
- **Post-doctoral experience desired, but not required.**

In addition to exciting science and a positive work culture, Iridia offers an attractive compensation package which includes stock options, generous vacation time, plus family health and medical benefits.

Iridia Inc., is proud to be an EEO Employer