

United Kingdom Jobs Expertini®

Software Engineer Instrument Core

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Company: Oxford Nanopore Technologies

Location: United Kingdom

Category: computer-and-mathematical

Oxford Nanopore Technologies is headquartered at the Oxford Science Park outside Oxford, UK, with satellite offices and commercial presence in many global locations across the US, APAC and Europe. Oxford Nanopore employs from multiple subject areas including nanopore science, molecular biology and applications, informatics, engineering, electronics, manufacturing and commercialisation. The management team, led by CEO Dr Gordon Sanghera, has a track record of delivering disruptive technologies to the market.

Oxford Nanopore's sequencing platform is the only technology that offers real-time analysis (for rapid insights), in fully scalable formats from pocket to population scale, that can analyse native DNA or RNA and sequence any length of fragment to achieve short to ultra-long read lengths.

Our goal is to enable the analysis of any living thing, by anyone, anywhere. We offer real-time nanopore-based DNA/RNA sequencing technology: accessible, easy to use and fully scalable for any requirement!

We are looking for a delivery-focussed Software Engineer to join our Instrument Core team. This role involves working on the development and delivery of an industry-leading DNA sequencing technology.

The Details...

We are seeking a talented Software Engineer with approximately 1 to 4 years of experience to join the Instrument Software team. In this role, you will be part of the team responsible for maintaining and improving our data acquisition and instrument control software.

You will primarily be working on MinkNOW Core, a high-performance piece of software

written in C++ that sits at the centre of our acquisition and analysis software. MinKNOW Core is responsible for acquiring raw signal data from our custom hardware, communicating with the basecaller to convert the raw signal into sequences, writing output data to disk, and providing an API that the UI uses to control and monitor experiments.

Collaborating with the Senior Director of Instrument Software, and his team. the successful candidate will work closely with domain expert scientists to deliver effective software tools for DNA sequencing and applications.

Responsibilities include:

Delivering robust, well-tested, highly efficient production-level implementations of innovative software

Working with scientists to improve and exploit this software in new applications

Continually working to improve production code bases

What We're Looking For...

We'll expect you to have experience of algorithm development and optimisation as well as development experience in C++11 (and later) and a deep understanding of C++. You're someone with strong coding skills with knowledge of professional software development techniques and practices. You know the importance of testing and quality control, yet have a solid focus on delivery. You also have superb communication and interpersonal skills to enable you to work well and build relationships with others.

Ideally, in addition to your strong C++ skills, you'll also have:

Experience using standard development tools and practices (Git, Unit/Integration Testing, CI/CD, Ticketing, Agile development)

Experience with industry standard C++ libraries and tools (boost, gsl, Catch2, CMake)

Development experience in Python

A degree in Maths, Physics, Computing (or similar)

Knowledge of bioinformatics concepts and practice

Knowledge of statistics

Knowledge of signal processing, electronic engineering, Linux, or embedded systems

This is an exciting role and chance to join a ground breaking, fast-paced organisation with opportunities to utilise new technology and inspire change and will suit someone with an appreciation for science and the scientific method.

We offer outstanding benefits to include an attractive bonus, generous pension contributions, private healthcare and an excellent starting salary. Based within beautiful, landscaped surroundings with tree-lined walks, water features and a lake, all of which make for a wonderful working environment.

We also have a strong focus on professional development, including mentoring, training, and attending conferences.

If you are looking to utilise your skills to really make a difference to humankind, then consider joining our team and apply today!

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