

# Denmark Jobs Expertini®

## Bioinformatician

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Company: Oxford Nanopore Technologies

Location: Denmark

Category: life-physical-and-social-science

Oxford Nanopore Technologies is headquartered at the Oxford Science Park outside Oxford, UK, with satellite offices and a 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, 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 are looking for a Bioinformatician to work as part of the Sample Technology team, within the R&D department. The aim of the Sample Tech team is to drive revenue growth through the research and development of tools, techniques, and workflows that customers apply with Oxford Nanopore Tech's disruptive sequencing devices. The Sample Tech team endeavours to directly support customers and customer facing teams through improvement of customer experience through publication of best practice advice.

### **The Details...**

The successful candidate will work with bioinformaticians and wet lab scientists within the Sample Technology team to develop tools and workflows for gDNA, cDNA, and dRNA sequencing and applications. Embedded in the Sample Technology Bioinformatics team.

The job holder will design and implement new bioinformatics workflows for nanopore sequencing, support experimental method development, and help bring research and proof-of-concept work to products.

**Responsibilities include:**

Working independently and collaboratively on the development of pipelines for analysis of applications of gDNA, cDNA, and direct RNA sequencing using ONT's nanopore sensing platform

Working with laboratory-based scientists to help them plan and refine experiments, interpreting the data generated in the appropriate biological context, and to reporting the results clearly. Trouble-shooting new experimental methods, including identifying possible technical factors that influence data quality.

Working cross-functionally with other bioinformatics functions at ONT to help bring research and proof-of-concept work to products.

Supporting our internal and customer facing teams by providing best-practice advice on analysis of nanopore data.

Reporting analysis results clearly in form of technical documentation, presentations, and explainers meant for broader scientific audience. They may be relied upon to present results to external customers.

**What We're Looking For...**

Extensive practical experience of handling and analysing large next-generation sequencing data sets. You'll also have a history of involvement in the whole experimental process, from the initial experimental concept to execution, analysis and presentation results, addressing important biological questions.

Experience with developing bioinformatic pipelines to answer specific biological questions.

You have broad knowledge and experience in bioinformatics and understanding of the range and limitations of existing tools.

Substantial experience with scripting languages (e.g. python, R), workflow management system (e.g. NextFlow, Snakemake), and software development practices (e.g. version control).

In addition, you can solve problems collaboratively and independently and consider yourself

someone with high standards but who is able to prioritise, and shift focus onto other projects when required.

You will have a PhD in a Biological Science or Computer Science with a substantial bioinformatics component, or equivalent experience. Further experience within the biotechnology industry (or a postdoc) involving sequencing data analysis, would be an asset.

**Additional skills, experience and knowledge in the following areas are also desirable:**

Practical experience with different types long read sequencing data (e.g. genomic DNA, cDNA, single cell)

Proven track record to successfully deliver projects independently and as a member of a team.

Experience publishing or releasing your own NGS tools or workflows.

Hands-on wet lab experience or a track record of interaction with wet lab scientists, ideally involving sample and library preparation for NGS.

Excellent scientific literacy and scientific writing skills.

Experience with presenting scientific results to varied scientific audience in different formats (e.g. reports, publications, presentations).

Experience supervising junior team members in bioinformatic analyses.

Large general biological knowledge including molecular biology, genomics, and transcriptomics.

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.

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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