

Postdoc in aptamer nanotechnology

We are looking for a highly skilled Postdoc in aptamer nanotechnology to join a collaborative project between Interdisciplinary Nanoscience Center (iNANO), University of Aarhus and BioPorto Diagnostics A/S Hellerup, Denmark

BioPorto Diagnostics invites applications for a postdoc position in RNA nanotechnology. During this 3-year term the applicant will develop a research program based on rationally designing chemically enhanced RNA aptamers for applications in immunoassays.

About us

BioPorto

BioPorto is an in vitro diagnostics company that provides tests and antibodies to clinicians and researchers around the world. We use our antibody and assay expertise to transform novel research tools into clinically actionable biomarkers that can make a difference in patients' lives. BioPorto is headquartered in Hellerup, Denmark and is listed on the NASDAQ Copenhagen stock exchange.

iNANO

The research groups at iNANO constitute a strong and inspiring research environment with expert researchers in a wide range of topics and techniques with a focus on biomolecular nanotechnologies (inano.au.dk). iNANO is a major research and education center based at the campus of Aarhus University. iNANO offers a dynamic, interdisciplinary research environment involving scientists from relevant areas in physics, chemistry, molecular biology, biology, engineering, and medicine.

Your role

We are looking for a colleague who will develop a research program on specific protein-binding, chemically enhanced RNA aptamers, which involves in vitro selection and evolution techniques, computer-aided design of RNA nanostructures, production and characterization of RNA nanostructures, expression of RNA aptamers, bioconjugation techniques, and experimental validation of functional properties in immunoassays in combination with monoclonal antibodies and nanobodies. The candidate is expected to collaborate with the research laboratories of Professor Jørgen Kjems at the Interdisciplinary Nanoscience Center at Aarhus University and BioPorto. The work will also include work with recombinant protein development and lateral flow strips.

Your qualifications

The candidate should hold a PhD degree in Molecular Biology, Biochemistry, Nanoscience or related fields. Experience working with RNA aptamers, RNA bioinformatics, protein expression and characterization, immunoassays, and ability to use programming languages such as Perl, R or Python will be an advantage.

Key scientific qualification areas

- RNA and protein biochemistry and nanotechnology
- Computer programming and algorithm design
- Biophysical characterization
- Molecular recognition
- In vitro selection experiments
- Molecular biology methodologies

The applicants are expected to:

- Work independently and in teams
- Present scientific data in a comprehensible manner
- Write and speak English fluently
- Have strong writing and verbal communication skills

It will be an advantage to:

- Have a strong publication profile
- Have research leadership experience or other leadership qualifications

Our offer

- A highly interdisciplinary working environment
- Access to a well-developed research infrastructure
- Laboratory space, shared equipment
- A research climate inviting lively, open and critical discussion within and across different fields of research
- A working environment with teamwork, close working relations, network activities among young scientists and social activities
- A workplace characterized by professionalism, equality and a healthy work-life balance

Place of Work

The primary place of work is at Interdisciplinary Nanoscience Center, University of Aarhus, Gustav Wieds Vej 14, 8000 Aarhus C with employment at BioPorto Diagnostics A/S Hellerup.

Additional Information

The position is for 3 years and is available from January 1, 2022, or as soon as possible hereafter.

If you have any questions, please contact Director, Nils Magnusson at nm@clin.au.dk or nma@bioporto.com, +45 26 80 30 22, Professor Jørgen Kjems at jk@mbg.au.dk, +45 28 99 20 86 or Head of HR, Karen Stendal at +45 50 28 74 91.

Please send your application and CV in **English** using the link below no later than **20th December 2021**.
<https://bioporto.com/careers/>

Your application will be treated with confidentiality.

Interviews will be performed in parallel to the application period. We reserve the right to proceed with the employment process, if the right candidate is identified during this period.