Analytical Chemist – state-of-the-art biotechnology center

Can you develop and mature next generation metabolomics and secondary metabolite analysis?

At DTU Biosustain we develop the next generation of bio sustainable technologies using synthetic biology techniques. We create novel methods and technologies as a foundation for the development of new environmentally friendly products, better and less energy consuming manufacturing processes, new medical treatments, climate friendly farming, etc.

Now we need you to join our rapidly growing our Analytics Group that provides the researchers at our center and abroad with improved analytical tools needed to diagnose some of the most challenging problems in biology. You will join a team of highly skilled scientists, Engineers, and Technicians, and contribute to ensuring reliable, accurate and high quality analytical services for the Center as a whole. You will work with state-of-the-art equipment on exciting and groundbreaking projects, and collaborate with leading international experts. Additionally, you will have ample opportunities for publishing as well as attending and speaking at international conferences.

Towards next generation metabolomics and secondary metabolite analyses

Your mission will be to develop and mature metabolomics and secondary metabolites analysis at DTU Biosustain. You will do so by developing/setting up workflows for high throughput metabolomics analysis. As part of this, you will set up automated methods for sample handling in collaboration with an automation unit. Additionally, you will set up workflows for high throughput extraction, isolation and MS-based characterization of bioactive natural products along with performing HR-MS analysis. In overview your primary tasks will be to:

- Setting up workflows for high throughput metabolomics with an emphasis on phenotyping and compound discovery applications.
- Develop and validate LC-MS/MS and GC-MS methods
- Support the Center with expert advise for DOE for metabolomics and identification of secondary metabolites
- Extract, isolate and identify unknown compounds from microbial sources
- Set up protocols and train colleagues – share and build high-level knowledge
- Write and maintain SOPs.
- Coordinate activities across the institute and with other partners

To succeed, knowledge sharing and collaboration will be key. As our center relies upon Big Data analyses to make informed decisions, you must also be comfortable reporting and working with experimental data in digital format – i.e., electronic lab notebooks and LIMS.
Team worker with solid experience within analytical chemistry
We are looking for a team worker that likes to create results as part of multi disciplinary and multi cultural environment. The analytical chemistry group is here to support the innovative research of our scientists: therefore, it is paramount that you are willing to help and support other people and be able to build positive and constructive relations to a much-differentiated set of peers. At the same time, you must be able to plan and handle your own assignments and deliver as on time and/or raise the flag in due time if you foresee delays. Additionally, your CV comprises:

- A profound analytical chemistry background – either a PhD or equivalent working experience
- Proven experience in chromatography method development, instrument maintenance, mass spectrometry & high throughput analysis
- Expertise in data driven discovery
- Experience with generation and analysis of large untargeted metabolomics datasets
- Expertise in the isolation and purification of bioactive natural products
- Expertise/experience in de novo compound identification and in interpretation of complex mass spectra

DTU Biosustain – your new department
At DTU Biosustain we use synthetic biology techniques for the development of advanced materials and chemicals, smart and sustainable agriculture, and personalized human health applications. We are breaking new land at the absolute forefront of what is possible. We have the funding, the knowhow, and the latest state-of-the-art technology and equipment needed to succeed. You can learn more at biosustain.dtu.dk

Salary and terms of employment
Your new workplace is the Novo Nordisk Foundation Center for Biosustainability (CFB) at Building 220, Kemitorvet, 2800 Kgs. Lyngby, Denmark.

The appointment will be based on the collective agreement with the Danish Confederation of Professional Associations. The allowance will be agreed upon with the relevant union.

Application and contact
Please submit your online application no later than 5 April 2020. Apply at www.career.dtu.dk
Open the “Apply online” link, fill out the form and attach all materials to be given consideration including CV, cover letter, diploma and if relevant list of publications.

If you have any questions, you are very welcome to contact Senior Scientist, Douglas McCloskey at domccl@biosustain.dtu.dk or Senior Analytical Chemist, Mette Kristensen at metk@biosustain.dtu.dk. If necessary, we will set up an additional phone call to ensure your understanding of the job and your many opportunities.

All qualified candidates irrespective of age, gender, race, disability, religion or ethnic background are encouraged to apply.

Technology for people
DTU develops technology for people. With our international elite research and study programmes,
we are helping to create a better world and to solve the global challenges formulated in the UN’s 17 Sustainable Development Goals. Hans Christian Ørsted founded DTU in 1829 with a clear vision to develop and create value using science and engineering to benefit society. That vision lives on today. DTU has 11,500 students and 6,000 employees. We work in an international atmosphere and have an inclusive, evolving, and informal working environment. Our main campus is in Kgs. Lyngby north of Copenhagen and we have campuses in Roskilde and Ballerup and in Sisimiut in Greenland.