

Project Leader Hanze Sequencing Facility

The Biobased Economy Knowledge Centre is looking for a Project Leader Hanze Sequencing Facility.

Context

Within the Research Group *Data Science for Life Science and Health*, we work on generating and analyzing large datasets using advanced statistical methods and algorithms based on artificial intelligence. Research within the *Biomolecules and Health* group focuses on the molecular processes involved in health and disease, particularly the impact of biobased molecules on living systems.

We mainly generate large datasets using Next Generation Sequencing technologies (Illumina and Nanopore). This sequencing takes place at the Hanze Sequencing Facility, in the context of grant-funded projects and commercial assignments. The facility generates datasets that are used by students from degree programs such as Bioinformatics, Data Science, Medical Diagnostics, and Biology and Medical Laboratory Research.

The Hanze Sequencing Facility is involved in, among others, the Holomicrobiome Initiative, which aims to study microbiomes as part of ecosystems within the human body (gut, skin, mouth), and the Double Dike Project, which focuses on soil microbiomes. We also examine defined microbial communities used in fermentation processes to produce specific molecules. In addition, we perform RNA sequencing on human cell lines that serve as models for lung cancer.

What you will do

You will lead the operations within the Hanze Sequencing Facility and further develop its activities, creating strong connections between the contributing research groups within the Biobased Economy Knowledge Centre: *Data Science for Life Sciences and Health* and *Biomolecules and Health*. You will define projects at the intersection of microbiology, cellular biology, immunology, and oncology, and write grant proposals in collaboration with the involved professors of applied sciences (lectors), the *Impact Developer Biotech Booster*, and other relevant stakeholders within and outside the research groups. You will also ensure the successful execution of these projects. In addition, you will be responsible for the secure and FAIR (Findable, Accessible, Interoperable, and Reusable) storage of data generated from research projects. You will do this in collaboration with a team of three data stewards.

Furthermore, you will:

- coordinate and manage awarded projects, monitor their progress, and ensure timely financial and content-related reporting;
- support and guide lecturer-researchers, researchers, project leaders, work package leaders, and students, taking into account availability and peak workloads;
- maintain relationships and build coalitions with national and international partners, both from industry and academia.

Where you will work

You will be working within the research groups *Data Science for Life Sciences & Health* (led by Wynand Alkema) and *Biomolecules and Health* (led by Fin Milder) at the Biobased Economy Knowledge Centre of the Hanze University of Applied Sciences Groningen.

The *Data Science for Life Sciences & Health* research focuses on the development and application of methods and algorithms for the rapid and efficient collection and analysis of large datasets in the context of life sciences. This includes applying the FAIR principles for data stewardship, and using multivariate statistics and artificial intelligence methods for data analysis. The research spans applications ranging from the development of cost-effective, high-quality new food ingredients to the analysis of (pharmaceutical) compounds in health and disease. The bachelor's programme in *Bioinformatics* and the master's programme *Data Science for Life Sciences* are closely involved in the group's research projects.

The *Biomolecules and Health* research group focuses on the molecular processes involved in health and disease, particularly the impact of biobased molecules on living systems. To that end, biomarkers are identified that help to better understand the effects of molecules on living systems. These systems range from microbial communities to human cell lines and humanized 3D models. The emphasis lies on the valorization of biobased raw materials, ingredients, and processes for products that support quality of life and physiological functions.

What we ask of you

- You hold a PhD in a biological discipline.
- You have an entrepreneurial, proactive attitude and are analytical and results-oriented.
- You possess excellent knowledge of the latest high-throughput sequencing technologies and the associated data analysis methodologies.
- You have strong expertise in setting up and executing sequencing projects for biomedical applications.

- You have experience in securing funding for new projects, either through grants or direct contract work with companies.
- You have a relevant scientific and industrial network.
- You have excellent communication and interpersonal skills.
- You have, in addition to English, a good command of the Dutch language.

This is what you get in return

- A position of 0.8 FTE, with a starting date around June 1, 2025.
- An initial one-year contract.
- Scale 12 (min. € 5.048,- en max. € 6.899,-), in accordance with CAO-HBO. A gross monthly salary for a full-time appointment.
- A holiday allowance of 8% and a structural end-of-year bonus of 8.3%.
- A maximum of 53 days off and, in addition, you can make use of sustainable employability hours and home working facilities.
- The opportunity to continuously professionalise yourself through our Hanze PL Academy.

Curious to know more?

For more information about this vacancy, please contact Wynand Alkema, Professor of Applied Sciences in Data Science for Life Sciences & Health. Email: w.b.l.alkema@pl.hanze.nl | Phone: +31 6 14727938. Please do not use this email address for your application (click on Apply-button).

Will you become our new colleague?

Then send your resume and motivation, **written in English**, via the application button.

- Closing date is: **06/05/2025**.
- Interviews will be on: **Tuesday, May 13, 2025**.
- We ask new employees to apply for a Certificate of Good Conduct (VOG) upon commencement of employment. The costs for this will be reimbursed by Hanze UAS.

Acquisition in response to this vacancy is not appreciated.