



**Jobbnorge ID:** 255670

**Deadline:** 9/1/2024

**Website:** <http://www.norceresearch.no/>

**Scope:** Fulltime

**Duration:** Permanent

## About NORCE

NORCE is a forward-looking research institute, with expertise in a wide range of fields and strong communities of knowledge. We deliver research and innovation in energy, health care, climate, the environment, society and technology.

Our solutions address key challenges for society and contribute to value creation on the local, national and global levels.

We are looking for an experienced Research Scientist

## Research Scientist - Fermentation and bioprocessing analytics

### About Industrial Biotechnology research group

The research group works within industrial biotechnology research and applications in food & feed, aquaculture, oil & gas, and enzymes, in projects spanning from basic R&D (TRL1-2) to industry projects (TRL7-8). The group currently consists of 15 researchers and engineers working primarily on fermentation and bioproduction, using alternative feedstocks and waste streams (including gases such as methane, CO<sub>2</sub>, and H<sub>2</sub>), process development and optimization, scale up, downstream processes, and bioactive compounds.

The group has expertise within microbiology, molecular biology, biochemistry, analytical chemistry, biotechnology, fermentation, and bioprocess engineering. The project portfolio of the group includes hosting of National Bioprocess and Fermentation Centre (NBioC Infrastructure), acting as a major partner in the SFI Centre for Industrial Biotechnology (Centers for Research-based Innovation), and supporting the European Green Deal project PyroCO<sub>2</sub>.

The research facilities are concentrated in the Stavanger region, at Ullandhaug and Risavika, and include fermentation facilities with 2 L, 150 L, and up to 1500 L fermentation reactors.

### About the position

A permanent, full-time research scientist position is available in the Industrial Biotechnology group in Stavanger, reporting to Research Director Keith McCall. We seek a qualified candidate with at least 1-4 years of laboratory experience to work across several ongoing research projects within the field of microbiology, fermentation and bioprocessing. In this role, we expect you to be a key contributor to the fermentation work optimizing scale-up of fermentations from flasks through >1000 L industrial reactors, with a particular focus on fermentation analytics. If you have been looking for the chance to use your analytics skills to grow in the world of industrial biotechnology, this may be the opportunity you have been seeking.

### Work tasks and responsibilities

Your daily tasks will include:

- Preparation, monitoring, and controlling fermentation equipment
- Establishing or maintaining laboratory schedules/procedures, equipment and instruments
- Operation of analytics and analytical equipment
- Running enzymatic and chemical assays
- Assistance during productions and experiments, occasionally working hours outside of standard working hours/days when experimentally justified
- Procurement and communication with suppliers.
- Handling class 1 and 2, and gene-modified microorganisms in sterile conditions

### Your qualifications, skills and abilities

- A MS degree in chemical or biological sciences and ≥4 years of working experience in a laboratory setting, OR a PhD in chemical or biological sciences and ≥1 years of working experience in a laboratory setting
- Experience with running >1L bioreactors
- Experience in the analysis of fermentation metabolites
- Experience with industrial biotechnology, applied microbiology or fermentation processes.
- Independent, communicative, and solution-oriented

- Excellent attitude towards health and safety
- Proficient in English and a Scandinavian language (Norwegian, Swedish, or Danish)

## **We offer:**

For the right candidate we offer:

- Exciting tasks and good colleagues in an internationally leading and recognized professional environment
- Collaboration with academic staff and students at universities and colleges
- Opportunities to work with exciting research tasks, create new projects and expand your network together with NORCE
- Interdisciplinary work in and across teams
- Good opportunities for professional and personal development in an organization that values good performance
- Varied and flexible working day

## **Desired qualifications and experience**

It is beneficial if you have additional experience from some of the following areas:

- Large volume handling of chemicals, logistics and safety, pressurized gas, or hazardous chemicals.
- Experimental setups for fermentation; upstream and downstream processing
- Experience with fermentation off-gas analysis (GCMS)
- Working in research or industry projects within a GMP environment
- Experience with HPLC, FPLC, and other separation techniques
- Experience from feed/food/dairy/brewery/pharmaceutical industries.

## **We can offer**

- A professional working environment with a high degree of independence
- Excellent opportunities for development of skills and competencies
- Opportunity to join exciting research projects tackling today's climate and environmental challenges
- Flexible working hours.

## **How to apply**

Your application must include:

An application letter including a concise description of your professional qualifications and motivation to apply for the position

CV/Resume

Transcripts and diplomas with certified translations into English or a Scandinavian language

Contact information for two references.

Please apply electronically via Jobbnorge.

Application deadline: September 1st 2024

Candidates are expected to openly offer all relevant information about themselves during the recruitment process. Furthermore, one can expect that background checks can be conducted on all final candidates who may be checked against relevant lists to ensure compliance with applicable export control and sanctions rules. Candidates will be asked to provide information about affiliation to high-risk countries for a security assessment.

## **Contact information**

If you would like more detailed information about the position or the research group, please contact Research Director Keith McCall, email: kemc@norceresearch.no. For questions on the application process please contact Senior HR Advisor Bente Heggdal Martinsen, email: bema@norceresearch.no

## **Additional information**

### **Contact person:**

Keith Alan McCall,  
Phone: +47 411 91 650 | E-mail:

### **Place of service:**

- Prof. Olav Hanssensv. 15 4021 Stavanger (Stavanger Municipality)
- Energivegen 16 4056 Tananger (Sola Municipality)