

Jobbnorge ID: 233070
Deadline: 10/19/2022
Website: <http://www.ntnu.no>
Scope: Fulltime
Duration: Project

The Department of Clinical and Molecular Medicine has a vacancy for a

Postdoctoral Fellow in lung cancer genomics

This is NTNU

NTNU is a broad-based university with a technical-scientific profile and a focus in professional education. The university is located in three cities with headquarters in Trondheim.

At NTNU, 9,000 employees and 42,000 students work to create knowledge for a better world.

You can find more information about working at NTNU and the application process [here](#).

Video: <https://youtu.be/Xt-yHCN5QS0>

About the position

We have a vacancy for a postdoctoral researcher at the Department of Clinical and Molecular Medicine.

The position is within the project Liquid biopsies for identifying relapsing lung cancer, which is using profiles of circulating tumour DNA (ctDNA) and microRNAs (miRNAs) to develop a classification system for identifying lung cancer patients with risk of relapse after curative therapy. The project is a collaboration between NTNU, St. Olavs hospital, and University of Tromsø, and the multidisciplinary project group include physicians and researchers of oncology, pathology, bioinformatics, and molecular biology.

The postdoc position will focus on bioinformatics analyses of ctDNA and miRNA data generated from repeated blood samples taken from lung cancer patients before, during, and after treatment. The data analyses will include processing of raw sequencing data, testing for associations between miRNA or ctDNA profiles and clinically relevant parameters, and developing models that integrate ctDNA and miRNA profiles for predicting relapse. The position is available at the bioinformatics and gene regulation research group and will report to professor Pål Sætrum.

Duties of the position

The postdoc's main responsibility will be bioinformatics analyses of high throughput genomics data from lung cancer patients, but the position will also involve the following tasks:

- Participate in planning high throughput sequencing experiments of tumour and blood samples
- Identify ctDNA and miRNA signatures associated with lung cancer patient outcomes
- Plan and do bioinformatics analyses to provide new insights into lung cancer biology
- Use established best practices to ensure that project genomics data and analyses software are available and reusable
- Manage and curate project genomics data
- Interpret, present, and publish results
- Collaborate with other ongoing projects in the project group
- Participate in planning and pursuing new projects based on project results

Required selection criteria

- You must have completed a Norwegian doctoral degree or corresponding foreign doctoral degree recognized as equivalent to a Norwegian PhD in bioinformatics, statistics, systems biology, or equivalent. If you can document that the PhD thesis has been submitted, your application can be assessed even if you have not yet defended your dissertation. Documentation of the obtained doctoral degree must be presented before you can take up the position.
- Documented experience in analyses of high throughput sequencing data
- Good written and oral English language skills

The appointment is to be made in accordance with [Regulations on terms of employment for positions such as postdoctoral fellow, Ph.D Candidate, research assistant and specialist candidate](#).

Preferred selection criteria

- Experience in transcriptomics analyses
- Experience in genotyping based on high throughput sequencing data
- Experience in multi-omics data integration
- Experience in omics-based research on samples from hospital biobanks or similar
- Experience in statistical analyses and visualization of large data sets in Python or R
- Strong research track record, emphasizing leading contributions within the last five years

Personal characteristics

- Ability to work independently and with scientific, experimental, or technological creativity
- Motivated and excellent team player with positive attitude and with high ambitions on behalf of yourself and the group
- Inquisitive with ambitions of acquiring new knowledge and skills

We offer

- exciting and stimulating tasks in a strong international academic environment
- an open and [inclusive work environment](#) with dedicated colleagues
- favourable terms in the [Norwegian Public Service Pension Fund](#)
- [employee benefits](#)

Salary and conditions

As a Postdoctoral Fellow (code 1352) you are normally paid from gross NOK 563 500 per annum before tax, depending on qualifications and seniority. From the salary, 2% is deducted as a contribution to the Norwegian Public Service Pension Fund

The period of employment is 2 years.

The engagement is to be made in accordance with the regulations in force concerning [State Employees and Civil Servants](#), and the acts relating to Control of the Export of Strategic Goods, Services and Technology. Candidates who by assessment of the application and attachment are seen to conflict with the criteria in the latter law will be prohibited from recruitment to NTNU.

It is a prerequisite you can be present at and accessible to the institution on a daily basis.

About the application

The application and supporting documentation to be used as the basis for the assessment must be in English.

Publications and other scientific work must follow the application. Please note that applications are only evaluated based on the information available on the application deadline. You should ensure that your application shows clearly how your skills and experience meet the criteria which are set out above.

If, for any reason, you have taken a career break or have had an atypical career and wish to disclose this in your application, the selection committee will take this into account, recognizing that the quantity of your research may be reduced as a result.

The application must include:

- A cover letter summarizing your research interests, accomplishments, and motivation for applying to this position.
- CV, certificates, and diplomas
- transcripts and diplomas for bachelor's-, master's- and PhD degrees.
- A list of up to five international peer-reviewed research articles that you consider to be the most relevant for the position. The list should include a justification of the articles' relevance and a description of your contributions to the works
- Name and address of three referees

If all, or parts, of your education has been taken abroad, we also ask you to attach documentation of the scope and quality of your entire education. Description of the documentation required can be found [here](#). If you already have a statement from NOKUT, please attach this as well.

Joint works will be considered. If it is difficult to identify your contribution to joint works, you must attach a brief description of your participation.

In the evaluation of which candidate is best qualified, emphasis will be placed on education, experience and personal and interpersonal qualities. Motivation, ambitions, and potential will also count in the assessment of the candidates.

NTNU is committed to following evaluation criteria for research quality according to [The San Francisco Declaration on Research Assessment - DORA](#).

General information

[Working at NTNU](#)

NTNU believes that inclusion and diversity is a strength. We want our faculty and staff to reflect Norway's culturally diverse population and we continuously seek to hire the best minds. This enables NTNU to increase productivity and innovation, improve decision making processes, raise

employee satisfaction, compete academically with global top-ranking institutions and carry out our social responsibilities within education and research. NTNU emphasizes accessibility and encourages qualified candidates to apply regardless of gender identity, ability status, periods of unemployment or ethnic and cultural background.

NTNU is working actively to increase the number of women employed in scientific positions and has a number of [resources to promote equality](#).

The city of Trondheim is a modern European city with a rich cultural scene. Trondheim is the innovation capital of Norway with a population of 200,000. The Norwegian welfare state, including healthcare, schools, kindergartens and overall equality, is probably the best of its kind in the world. Professional subsidized day-care for children is easily available. Furthermore, Trondheim offers great opportunities for education (including international schools) and possibilities to enjoy nature, culture and family life and has low crime rates and clean air quality.

As an employee at NTNU, you must at all times adhere to the changes that the development in the subject entails and the organizational changes that are adopted.

A public list of applicants with name, age, job title and municipality of residence is prepared after the application deadline. If you want to reserve yourself from entry on the public applicant list, this must be justified. Assessment will be made in accordance with [current legislation](#). You will be notified if the reservation is not accepted.

If you have any questions about the position, please contact Professor Pål Sætrum, telephone +47 98203874, email pal.satrom@ntnu.no. If you have any questions about the recruitment process, please contact HR Advisor Vebjørn F. Andreassen, e-mail: vebjorn.andreassen@ntnu.no

If you think this looks interesting and in line with your qualifications, please submit your application electronically via jobb norge.no with your CV, diplomas and certificates attached. Applications submitted elsewhere will not be considered. Upon request, you must be able to obtain certified copies of your documentation.

Application deadline: 19.10.22

NTNU

NTNU - knowledge for a better world

The Norwegian University of Science and Technology (NTNU) creates knowledge for a better world and solutions that can change everyday life.

The Department of Clinical and Molecular Medicine (IKOM):

The Department of Clinical and Molecular Medicine (IKOM) is NTNU's largest department, with 450 employees. Our research and teaching help to improve treatment and health.

IKOM has expertise in basic, clinical and translational research within broad disciplinary areas. We study children's and women's health, cancers, blood disorders and infectious diseases, gastroenterology, inflammation, metabolic disorders, laboratory sciences and medical ethics. The Department offers teaching in medicine at master's and PhD level. We also offer continuing education for employees in the health services.

Additional information

Place of service: