

NTNU NanoLab has a vacancy for a

## Head Engineer - Thin Film/Dry Etch

### 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.

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

### About the position

Are you a hands-on, practical person that likes to tinker with stuff? Here at NTNU NanoLab you can work with all kinds of state-of-the-art equipment used to generate knowledge for a better world.

NTNU NanoLab has an open permanent position for a Head engineer within cleanroom operations. Even if you have not worked in a cleanroom or with research equipment before, we encourage potential candidates with experience from pumps, vacuum and/or electromechanical systems to apply.

NTNU is the foremost technical university in Norway and is located in Trondheim. NTNU NanoLab is a cleanroom of class 100-10.000 (ISO 5-7) equipped for nanostructuring and -characterisation by physical, chemical and biological methods. The cleanroom is part of a strategic, cross-disciplinary initiative at NTNU to promote and coordinate research in nanoscience, nanotechnology and functional materials.

NTNU NanoLab is also part of the Norwegian National Infrastructure for Micro- and Nanofabrication (NorFab) and the European cleanroom consortium EuroNanoLab. The cleanroom is a hands-on infrastructure and is open for students, researchers and industry, independent of their affiliations. The NanoLab is run by a team of nine engineers, two administrative staff and eight part-time PhD candidates.

The engineering team at NTNU NanoLab are the competence holders for the cleanroom and its instrumentation. We have an international, exciting and positive work environment with good opportunities for both professional and personal development. We are now looking for a head engineer to join our team and take responsibility for our process equipment for nanostructuring by physical methods.

The position reports to the Director of NTNU NanoLab.

### Duties of the position

Our new engineer will mainly work in the fabrication/nanostructuring area of the cleanroom. Joining another senior engineer, the successful candidate will be responsible for a variety of instruments. Many of these are vacuum systems used to deposit thin films or to etch samples. The duties will include troubleshooting, repair and maintenance of existing equipment and other supporting laboratory infrastructure such as water coolers and pumps as well as procurement and installation of new equipment. Giving instrument training and support to users of the cleanroom will also be an important part of the position. In addition, the position will include administrative tasks and logistics, such as gas handling and controlling spare parts inventory. Furthermore, the position may contribute to an operator service for nanostructuring if the need arises.

### Required selection criteria

- Minimum 3 years engineering education (or equivalent competence) within automation, mechatronics, mechanics, electronics or another relevant field is a requirement. Relevant work experience may compensate for formal education.
- Relevant work experience.
- Good written and oral English and Norwegian language skills. Applicants who do not master a Scandinavian language are expected to reach level 3 in NTNU's Norwegian course within 3 years.

### Preferred selection criteria

- Practical experience from troubleshooting, repair and service of advanced equipment is desirable, especially cleanroom relevant equipment
- Good problem solving and debugging skills are highly desirable.
- Experience in a customer facing role is beneficial.
- Experience in thin film and dry etch processing is beneficial.
- Experience in training or teaching is beneficial.
- Experience in writing technical and or training documents is beneficial.
- Practical experience within low voltage electronics, in particular fault localisation and debugging is highly desirable.
- Candidates should have practical experience in maintaining electro-mechanical systems, pumps and valves. We can train the right candidate with the right attitude if need be.

## Personal characteristics

The successful candidate is practical, service minded and solution oriented and is more comfortable with a wrench than tweezers but uses both. You work in a logical, structured, well organised way and document your work well. You are committed to continual improvement. You wish to optimise and develop the cleanroom workflow and process equipment performance and share your knowledge with colleagues, cleanroom users and international networks. You are self-driven and have good co-operation and prioritisation skills. Personal suitability is of high importance for this position.

In the evaluation of which candidate is best qualified, emphasis will be placed on education, experience and personal suitability, as well as motivation, in terms of the qualification requirements specified in the advertisement

## 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

More information about NanoLab can be found here. <https://www.ntnu.edu/nano/nanolab>

## Salary and conditions

The position as a head engineer (overingeniør) (code 1087) you will be remunerated according to the Basic Agreement for the Civil Service, depending on qualifications and seniority. From the salary, 2 % is deducted as a contribution to the Norwegian Public Service Pension Fund.

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's in the latter law will be prohibited from recruitment to NTNU. After the appointment you must assume that there may be changes in the area of work.

## About the application

Please note that the application will only be evaluated on the basis of the information available at the expiry of the application deadline. Therefore, make sure that your application clearly shows how your skills and experience meet the criteria described above.

The application must contain:

- CV, certificates and diplomas
- name and adress of three references

## General information

A good work environment is characterized by diversity. We encourage qualified candidates to apply, regardless of their gender, functional capacity or cultural background.

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.

Under the Freedom of Information Act (offentleglova), your name, age, position and municipality may be made public even if you have requested not to have your name entered on the list of applicants.

Questions about the position can be directed to Director NTNU NanoLab, Peter Köllensperger ([p.kollensperger@ntnu.no](mailto:p.kollensperger@ntnu.no)) +47 913 70 718 or Head of Laboratory, Ken Roger Ervik ([ken.roger.ervik@ntnu.no](mailto:ken.roger.ervik@ntnu.no)) +47 957 73 410.

Please submit your application and supporting documentation via [jobbno.no](http://jobbno.no). If you are invited for interview, you must bring certified copies of certificates and diplomas. Mark the application with reference number: xxx.

**Application deadline: 03.04.2022**

## NTNU - knowledge for a better world

### 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.

**NTNU NanoLab** is a 700m<sup>2</sup> cleanroom facility opened in 2009 and is a major part of NTNU's strategic initiative for Nanoscience, Nanotechnology and Functional Materials - NTNU Nano. Since then NTNU NanoLab have developed and currently supports the research of

more than 70 faculty at NTNU, 250 annual users with 25.000 user hours, of which 10% stem from industry. The NTNU NanoLab staff includes the director, eight service and process engineers and a head of laboratory. [The Faculty of Natural Sciences](#) is the host faculty for the NTNU Nanolab.

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